KENSINGTON PUBLIC SAFETY BUILDING

ISSUED FOR BUILDING PERMIT



217 Arlington Avenue KENSINGTON, CA 94707

ISSUED FOR BUILDING PERMIT APRIL 1ST, 2022

APPROVALS:

BILL HANSEL Kensington General Manager

CITY OF KENSINGTON

KENSINGTON FIRE PROTECTION DISTRICT 217 Arlington Avenue, Kensington CA 94707 (510) 527-8395

CONTRA COSTA COUNTY

CONSERVATION AND DEVELOPMENT DEPARTMENT 30 Muir Road, Martinez, CA 94553 (925) 655-2700

ARCHITECT

MARJANG ARCHITECTURE 930 Cole Street, Suite 101, San Francisco CA 94070 (415) 522-0600

STRUCTURAL ENGINEERING

ZFA STRUCTURAL ENGINEERS 1390 El Camino Real, Suite 100, San Carlos, CA 94070 (650) 394-8869

CIVIL ENGINEER

BKF ENGINEERS

1646 N. California Boulevard, Suite 400, Walnut Creek, CA 94596 (510) 879-4544

MECHANICAL ENGINEERING

LIST ENGINEERING COMPANY 2 Harris Court, Suite A7, Monterey CA 93940 (831) 373-4390

GEOTECHNICAL ENGINEER

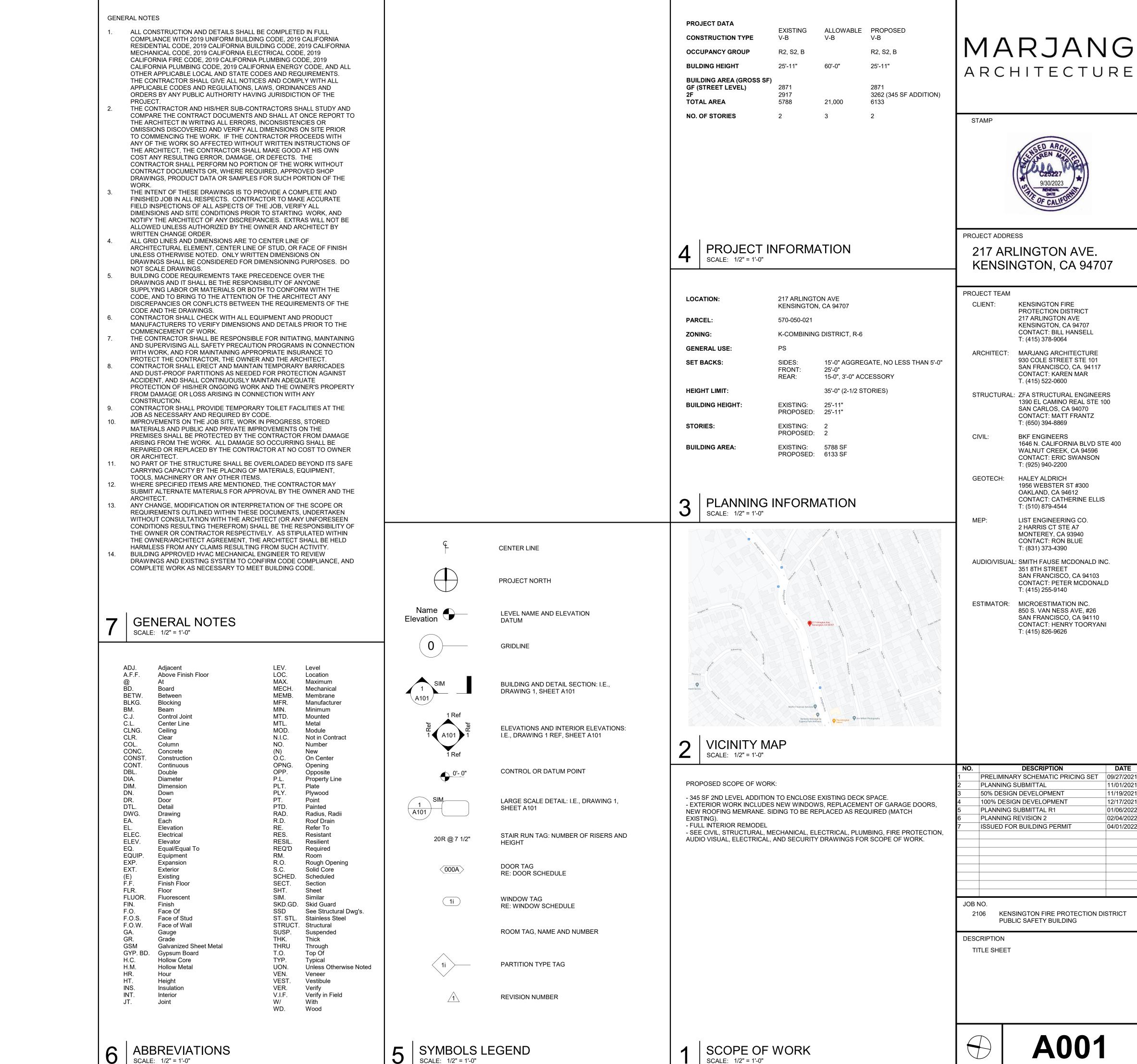
HALEY ALDRICH 1956 Webster Street, #300, Oakland CA 94612 (510) 879-4544

SPECIAL SYSTEMS, SECURITY, & ACOUSTICAL ENGINEERING

SMITH, FAUSE, & MCDONALD INC. 351 8th Street, San Francisco CA 94103 (415) 255-9140

ESTIMATOR

MICROESTIMATION INC. 850 S. Van Ness Avenue, #26, San Francisco CA 94110 (415) 255-9140



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PLUMBING DCW, DHW, & GAS SECOND FLOOR PLAN

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FIRE PROTECTION

MARJANG

STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

CLIENT: KENSINGTON FIRE
PROTECTION DISTRICT
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KENSINGTON, CA 94707
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ARCHITECT: MARJANG ARCHITECTURE
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CIVIL: BKF ENGINEERS

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GEOTECH: HALEY ALDRICH

GEOTECH: HALEY ALDRICH
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EP: LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE

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ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

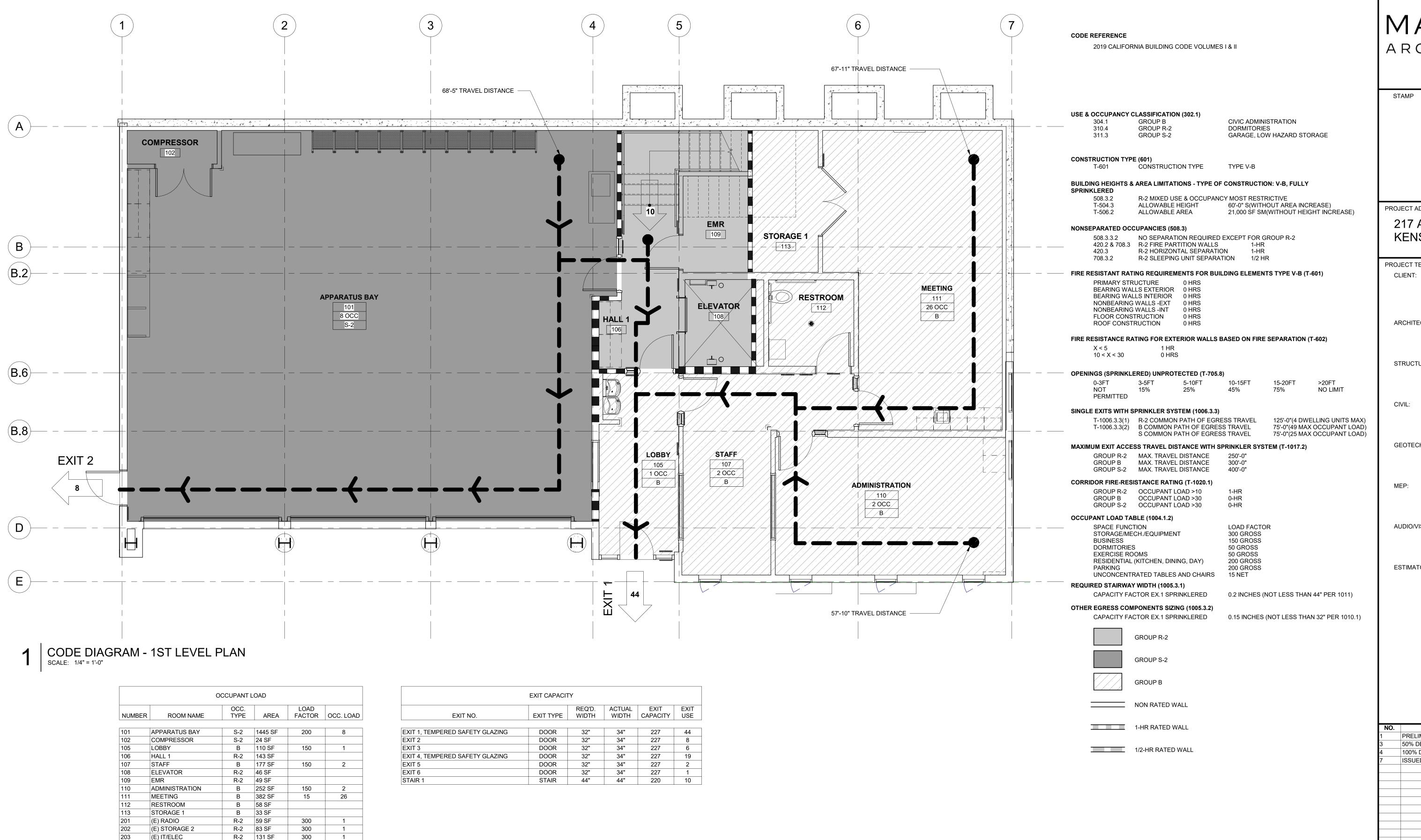
NO.	DESCRIPTION	DATE
1	PRELIMINARY SCHEMATIC PRICING SET	09/27/2021
2	PLANNING SUBMITTAL	11/01/2021
3	50% DESIGN DEVELOPMENT	11/19/2021
4	100% DESIGN DEVELOPMENT	12/17/2021
5	PLANNING SUBMITTAL R1	01/06/2022
6	PLANNING REVISION 2	02/04/2022
7	ISSUED FOR BUILDING PERMIT	04/01/2022

JOB NO.

2106 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION
SHEET INDEX





OFFICE 1

DAYROOM

EXERCISE ELEVATOR

HALL 2

HALL 3

DORM 1

DORM 2

DORM 3

BATH 1

LAUNDRY

ADA BATH 2

STORAGE 3

208

213

214

215

216

218

CAPTAIN'S OFFICE

KITCHEN/DINING

R-2 127 SF

R-2 123 SF

R-2 549 SF

R-2 461 SF

R-2 222 SF R-2 287 SF

R-2 46 SF

R-2 128 SF

R-2 144 SF

R-2 144 SF

R-2 144 SF

R-2 54 SF

R-2 66 SF R-2 62 SF

R-2 36 SF

200

200

200

200

50

50

200

MARJANG ARCHITECTURE



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

MARJANG ARCHITECTURE ARCHITECT: 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR

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CONTACT: CATHERINE ELLIS

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T: (510) 879-4544 LIST ENGINEERING CO. 2 HARRIS CT STE A7

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CONTACT: RON BLUE

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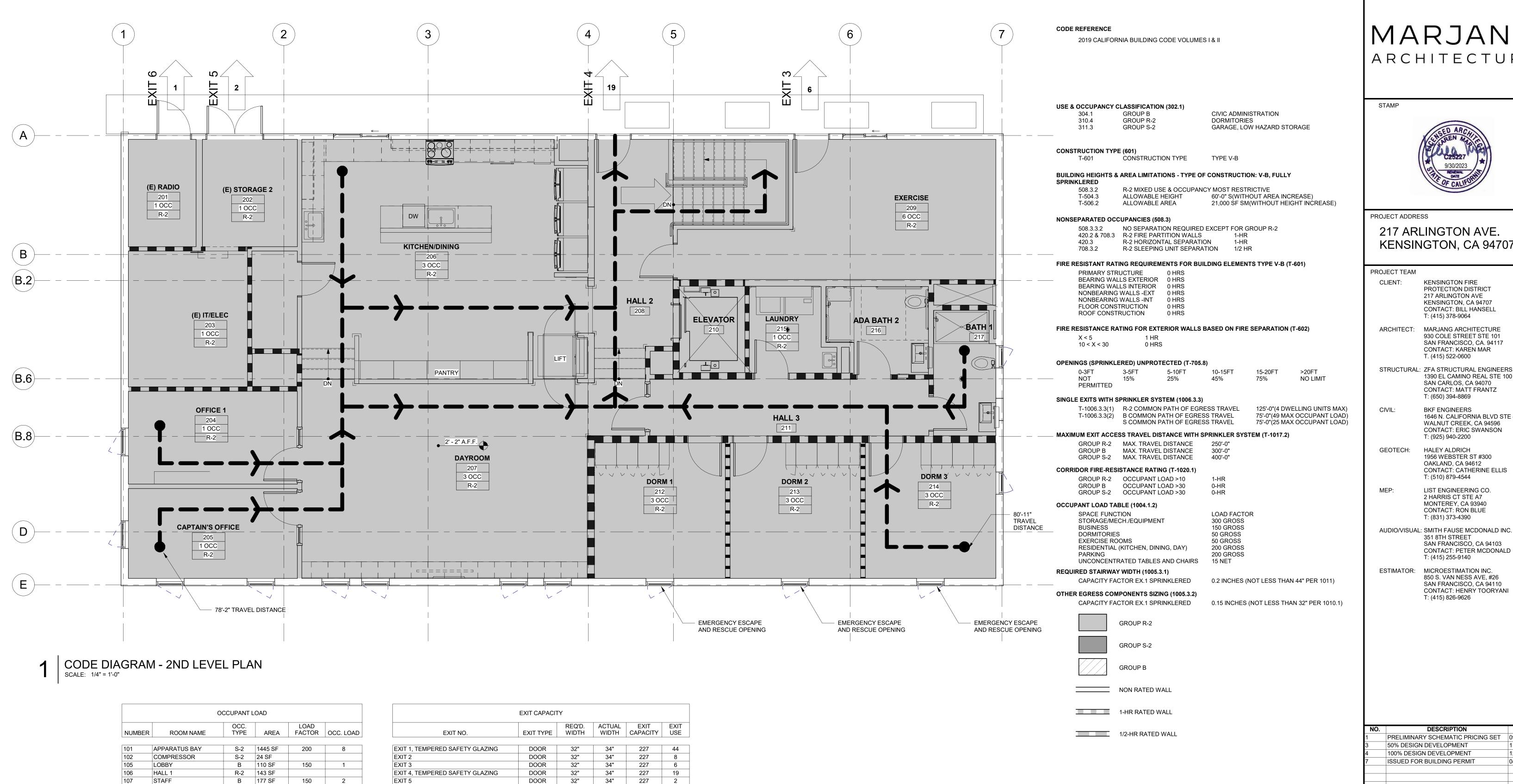
DESCRIPTION PRELIMINARY SCHEMATIC PRICING SET 09/27/2021 11/19/2021 50% DESIGN DEVELOPMENT 12/17/2021 100% DESIGN DEVELOPMENT ISSUED FOR BUILDING PERMIT 04/01/2022 JOB NO.

2106 KENSINGTON FIRE PROTECTION DISTRICT

PUBLIC SAFETY BUILDING

DESCRIPTION

CODE DIAGRAM LEVEL 1



34"

44"

227

220 10

32"

44"

DOOR

STAIR

EXIT 6

STAIR 1

ELEVATOR

MEETING

RESTROOM

STORAGE 1 (E) RADIO

(E) IT/ELEC

OFFICE 1

DAYROOM HALL 2

EXERCISE

ELEVATOR

HALL 3

DORM 1

DORM 2

DORM 3

LAUNDRY

BATH 1 STORAGE 3

ADA BATH 2

(E) STORAGE 2

CAPTAIN'S OFFICE

KITCHEN/DINING

ADMINISTRATION

EMR

109

112

113

202

203

212

213

R-2 46 SF

R-2 49 SF

B 252 SF

B 382 SF

B 58 SF

B 33 SF

R-2 59 SF

R-2 83 SF

R-2 131 SF

R-2 127 SF

R-2 123 SF

R-2 549 SF

R-2 461 SF

R-2 222 SF

R-2 287 SF

R-2 46 SF

R-2 | 128 SF

R-2 144 SF

R-2 144 SF

R-2 144 SF

R-2 54 SF

R-2 66 SF R-2 62 SF

R-2 36 SF

150

15

300

300

300 200

200

200

200

50

50

50

50

200

26

MARJANG ARCHITECTURE



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

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CONTACT: KAREN MAR T. (415) 522-0600

1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANTZ

T: (650) 394-8869 **BKF ENGINEERS** 1646 N. CALIFORNIA BLVD STE 400 WALNUT CREEK, CA 94596

CONTACT: ERIC SWANSON

T: (925) 940-2200 HALEY ALDRICH 1956 WEBSTER ST #300

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LIST ENGINEERING CO.

2 HARRIS CT STE A7

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI

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T: (415) 255-9140

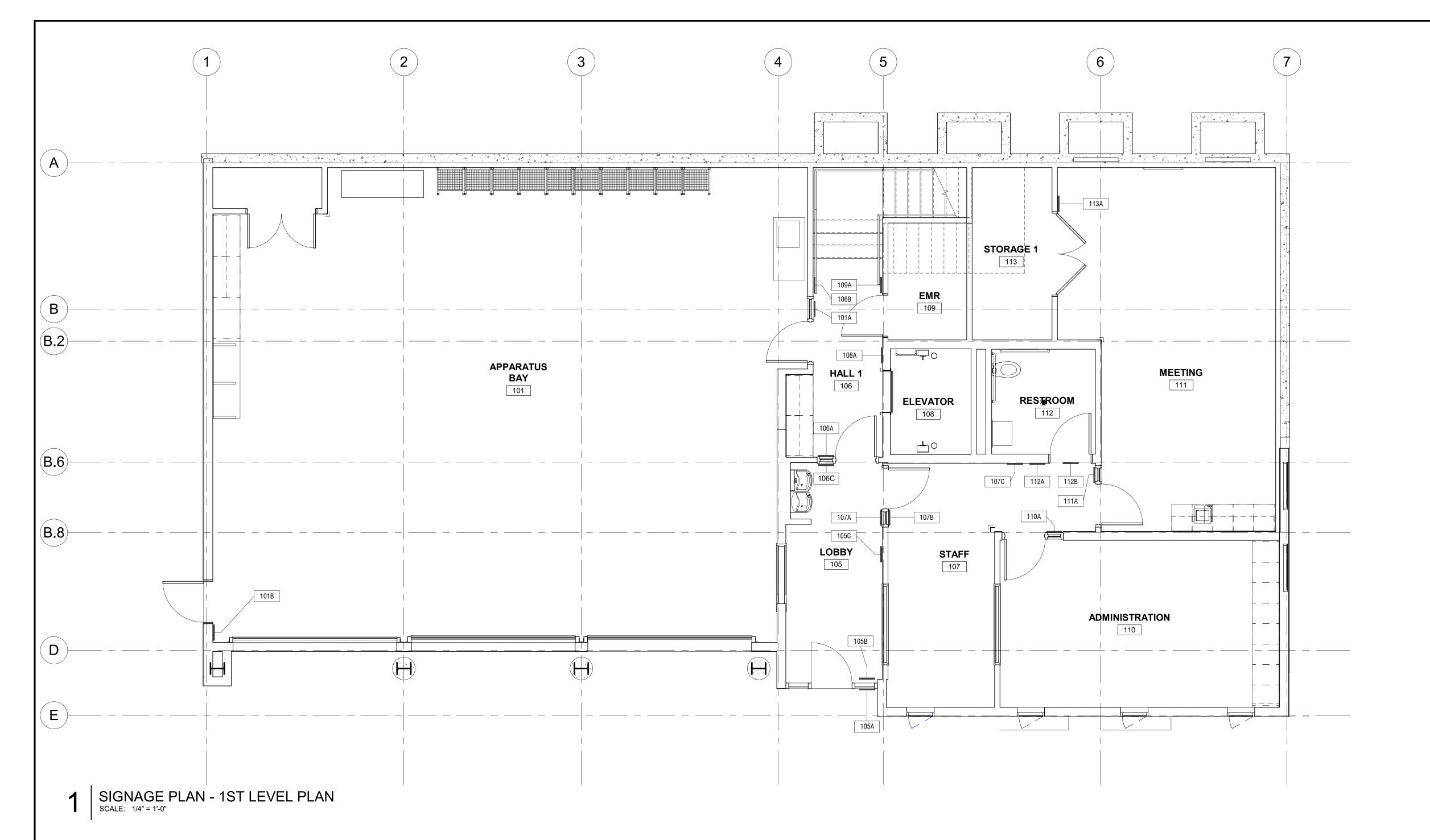
NO.	DESCRIPTION	DATE		
1	PRELIMINARY SCHEMATIC PRICING SET	09/27/2021		
3	50% DESIGN DEVELOPMENT	11/19/2021		
4	100% DESIGN DEVELOPMENT	12/17/2021		
7	ISSUED FOR BUILDING PERMIT	04/01/2022		
JOB NO				

2106 KENSINGTON FIRE PROTECTION DISTRICT

PUBLIC SAFETY BUILDING

DESCRIPTION

CODE DIAGRAM LEVEL 2



	SIGNAGE SCHEDULE - 1ST LEVEL					
SIGN ID	ROOM LOCATION	SIGN TYPE	LANGUAGE	DETAIL REFERENCE	MOUNTING LOCATION	BRAILLE AND TACTILE
101A	APPARATUS BAY	ROOM ID	101 APPARATUS BAY	1/A014	GLASS MOUNT	YES
101B	APPARATUS BAY	DIRECTIONAL	EXIT	2/A014	WALL MOUNT	YES
105A	LOBBY ENTRANCE	ISA	ISA	9/A015	EXTERIOR GLASS MOUNT	NO
105B	LOBBY	DIRECTIONAL	EXIT	2/A014	GLASS MOUNT	YES
105C	LOBBY	FIRE EXTINGUISHER FLAG	SEE DETAIL	1/A015	WALL MOUNT	NO
106A	HALL 1	DIRECTIONAL	EXIT ROUTE	2/A014	GLASS MOUNT	YES
106B	HALL 1	STAIR LEVEL IDENTIFICATION	*1	6/A015	WALL MOUNT	YES
106C	HALL 1	RESTROOM ID	106 HALL 1	1/A014	GLASS MOUNT	YES
107A	STAFF	ROOM ID	107 STAFF	1/A014	GLASS MOUNT	YES
107B	STAFF	DIRECTIONAL	EXIT ROUTE	2/A014	GLASS MOUNT	YES
107C	STAFF	EMERGENCY EVACUATION NOTICE	EXIT MAP, EVACUATION INSTRUCTIONS PER DETAIL	14/A015	WALL MOUNT	NO
108A	ELEVATOR	IN CASE OF FIRE	SEE DETAIL	5/A015	WALL MOUNT	NO
109A	ELEVATOR MACHINE ROOM	ROOM ID	109 ELEVATOR MACHINE ROOM	1/A014	WALL MOUNT	YES
110A	ADMINISTRATION	ROOM ID	110 ADMINISTRATION	1/A014	GLASS MOUNT	YES
111A	MEETING ROOM	ROOM ID	111 MEETING ROOM	1/A014	GLASS MOUNT	YES
112A	RESTROOM	RESTROOM ID	ALL GENDER RESTROOM	5/A014	WALL MOUNT	YES
112B	RESTROOM	RESTROOM SYMBOL	ALL GENDER SYMBOL	6/A014	DOOR MOUNT	NO
113A	STORAGE 1	ROOM ID	113 STORAGE 1	1/A014	WALL MOUNT	YES

SHEET NOTES

- SEE GENERAL NOTES, PROJECT DATA, SYMBOL LEGEND
- AND ABBREVIATIONS ON SHEET A001.
 FOR SIGNAGE DETAILS, SYMBOLS, AND MOUNTING HEIGHTS, SEE SHEETS A014, A015.
- VERIFY EXACT SIGNAGE LOCATIONS AND MOUNTING HEIGHTS PRIOR TO INSTALLATION.
- WHERE SIGNAGE IS MOUNTED ON EXTERIOR FACADE, PROVIDE BACKING PLATE AND SEALANT WITH BACKING ROD, TYPICAL INCLUDING WEEP HOLE AT BOTTOM. WHERE SIGNAGE IS MOUNTED ON GLASS, PROVIDE
- WITH SIGN. ALL SIGNS ARE CONTRACTOR PROVIDED AND INSTALLED,

MATCHING BLANK PLATE ON OPPOSITE SIDE, ALIGNED

- SEE CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL
- SITE SIGNAGE. CONFIRM FINAL LOCATIONS OF ALL CITY REQUIRED SIGNAGE WITH CLIENT AND ARCHITECT PRIOR TO
- MOUNTING.
- WHERE SIGNS ARE LOCATED ON THE SITE, PROVIDE 2" GALV PIPE POLE SET IN CONCRETE BASE AT HEIGHT INDICATED PER CIVIL DRAWING DETAILS.

MARJANG ARCHITECTURE

STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

KENSINGTON FIRE PROTECTION DISTRICT CLIENT: 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

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ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI

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100% DESIGN DEVELOPMENT	12/17/2021
ISSUED FOR BUILDING PERMIT	04/01/2022

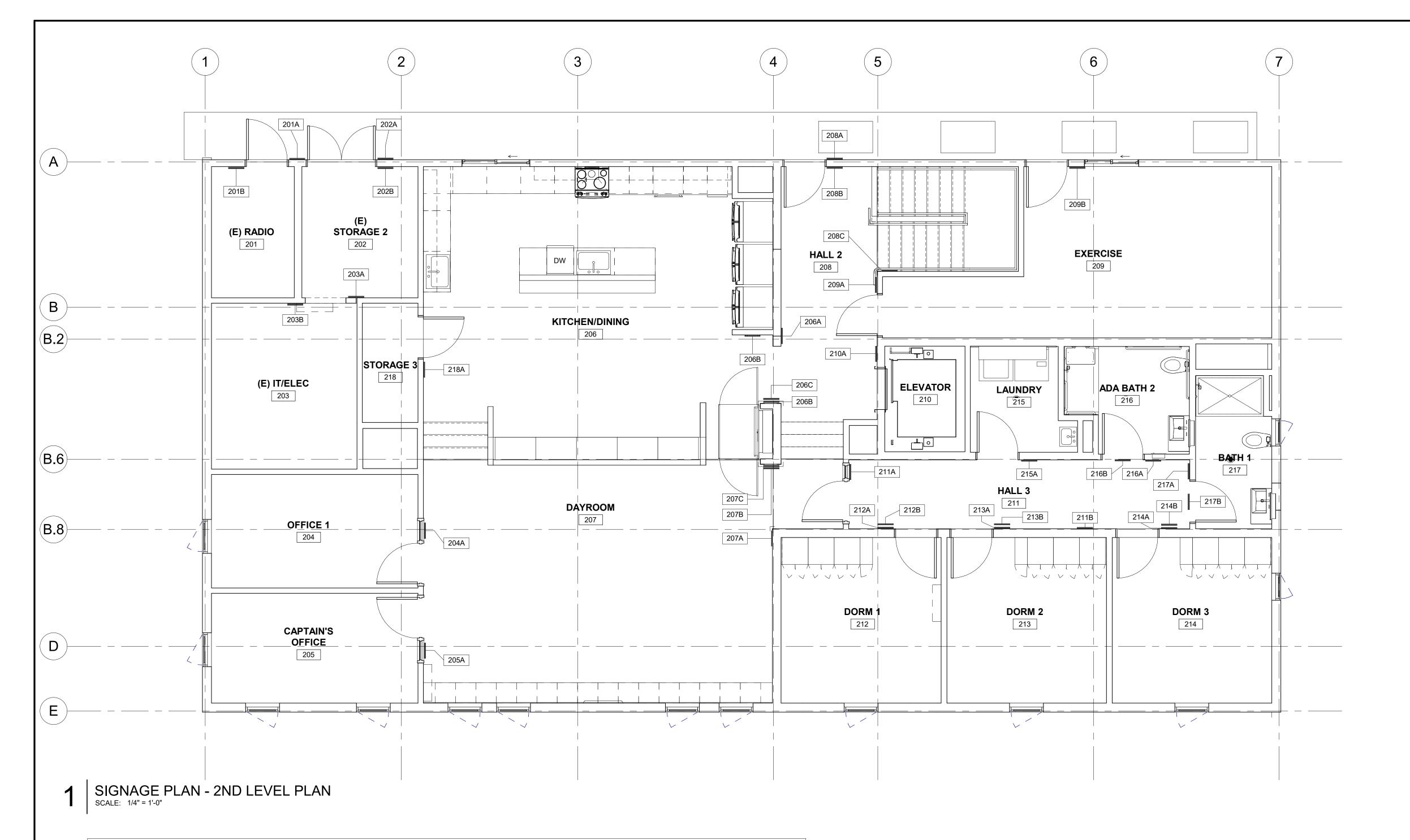
DESCRIPTION

2106 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

GROUND FLOOR SIGNAGE PLAN





SIGNAGE SCHEDULE - 2ND LEVEL						
SIGN ID	ROOM LOCATION	SIGN TYPE	LANGUAGE	DETAIL REFERENCE	MOUNTING LOCATION	BRAILLE AND TACTILE
201A	RADIO	ROOM ID	201 RADIO	1/A014	EXTERIOR	YES
201B	RADIO	DIRECTIONAL	EXIT	2/A014	WALL MOUNT	YES
202A	STORAGE 2	ROOM ID	202 STORAGE 2	1/A014	EXTERIOR	YES
202B	STORAGE 2	DIRECTIONAL	EXIT	2/A014	WALL MOUNT	YES
203A	IT/ELECTRICAL	ROOM ID	203 IT AND ELECTRICAL	1/A014	WALL MOUNT	YES
203B	IT/ELECTRICAL	DIRECTIONAL	EXIT ROUTE	2/A014	WALL MOUNT	YES
204A	OFFICE 1	ROOM ID	204 OFFICE	1/A014	WALL MOUNT	YES
205A	CAPTAIN'S OFFICE	ROOM ID	205 CAPTAIN'S OFFICE	1/A014	WALL MOUNT	YES
206A	KITCHEN / DINING	ROOM ID	206 KITCHEN AND DINING	1/A014	WALL MOUNT	YES
206B	KITCHEN / DINING	FIRE EXTINGUISHER FLAG	SEE DETAIL	1/A015	WALL MOUNT	NO
206B	KITCHEN / DINING	DIRECTIONAL	NO FREIGHT	2/A014	WALL MOUNT	YES
206C	KITCHEN / DINING	ISA	ISA	13/A014	WALL MOUNT	NO
207A	DAYROOM	ROOM ID	207 DAYROOM	1/A014	WALL MOUNT	YES
207B	DAYROOM	ISA	ISA	13/A014	WALL MOUNT	NO
207C	DAYROOM	DIRECTIONAL	NO FREIGHT	2/A014	WALL MOUNT	YES
208A	HALL 2	ISA	ISA	14/A014	EXTERIOR WALL MOUNT	NO
208B	HALL 2	DIRECTIONAL	EXIT	2/A014	WALL MOUNT	YES
208C	HALL 2	STAIR LEVEL IDENTIFICATION	*2	6/A015	WALL MOUNT	YES
209A	EXERCISE ROOM	ROOM ID	209 EXERCISE ROOM	1/A014	WALL MOUNT	YES
209B	EXERCISE ROOM	DIRECTIONAL	EXIT	2/A014	WALL MOUNT	YES
210A	ELEVATOR	IN CASE OF FIRE	SEE DETAIL	5/A015	WALL MOUNT	NO
211A	HALL 3	DIRECTIONAL	EXIT ROUTE	2/A014	GLASS MOUNT	YES
211B	HALL 3	EMERGENCY EVACUATION NOTICE	EXIT MAP, EVACUATION INSTRUCTIONS PER DETAIL	14/A015	WALL MOUNT	NO
212A	DORM 1	ROOM ID	212 DORM 1	1/A014	WALL MOUNT	YES
212B	DORM 1	ISA	ISA	14/A014	WALL MOUNT	NO
213A	DORM 2	ROOM ID	213 DORM 2	1/A014	WALL MOUNT	YES
213B	ISA	ISA	ISA	14/A014	WALL MOUNT	NO
214A	DORM 3	ROOM ID	214 DORM 3	1/A014	WALL MOUNT	YES
214B	ISA	ISA	ISA	14/A014	WALL MOUNT	NO
215A	LAUNDRY	ROOM ID	215 LAUNDRY	1/A014	WALL MOUNT	YES
216A	ADA BATHROOM	RESTROOM ID	ALL GENDER RESTROOM	5/A014	WALL MOUNT	YES
216B	ADA BATHROOM	RESTROOM SYMBOL	ALL GENDER SYMBOL	6/A014	DOOR MOUNT	YES
217A	BATHROOM	RESTROOM ID	ALL GENDER RESTROOM	5/A014	WALL MOUNT	YES
217B	BATHROOM	RESTROOM SYMBOL	ALL GENDER SYMBOL	6/A014	DOOR MOUNT	YES
218A	STORAGE 3	ROOM ID	218 STORAGE 3	1/A014	WALL MOUNT	YES

SHEET NOTES

- SEE GENERAL NOTES, PROJECT DATA, SYMBOL LEGEND AND ABBREVIATIONS ON SHEET A001.
- FOR SIGNAGE DETAILS, SYMBOLS, AND MOUNTING
- HEIGHTS, SEE SHEETS A014, A015. VERIFY EXACT SIGNAGE LOCATIONS AND MOUNTING HEIGHTS PRIOR TO INSTALLATION.
 WHERE SIGNAGE IS MOUNTED ON EXTERIOR FACADE,
- PROVIDE BACKING PLATE AND SEALANT WITH BACKING ROD, TYPICAL INCLUDING WEEP HOLE AT BOTTOM. WHERE SIGNAGE IS MOUNTED ON GLASS, PROVIDE
- MATCHING BLANK PLATE ON OPPOSITE SIDE, ALIGNED ALL SIGNS ARE CONTRACTOR PROVIDED AND INSTALLED,
- SEE CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL SITE SIGNAGE.
- CONFIRM FINAL LOCATIONS OF ALL CITY REQUIRED SIGNAGE WITH CLIENT AND ARCHITECT PRIOR TO
- WHERE SIGNS ARE LOCATED ON THE SITE, PROVIDE 2" GALV PIPE POLE SET IN CONCRETE BASE AT HEIGHT INDICATED PER CIVIL DRAWING DETAILS.

MOUNTING.

MARJANG ARCHITECTURE

STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

KENSINGTON FIRE PROTECTION DISTRICT CLIENT: 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL

T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117

CONTACT: KAREN MAR T. (415) 522-0600 STRUCTURAL: ZFA STRUCTURAL ENGINEERS

1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANTZ T: (650) 394-8869

BKF ENGINEERS 1646 N. CALIFORNIA BLVD STE 400 WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200

HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS

T: (510) 879-4544 LIST ENGINEERING CO. 2 HARRIS CT STE A7

MONTEREY, CA 93940

CONTACT: RON BLUE

T: (831) 373-4390 AUDIO/VISUAL: SMITH FAUSE MCDONALD INC.

351 8TH STREET SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD

T: (415) 255-9140 ESTIMATOR: MICROESTIMATION INC.

850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

NO.	DESCRIPTION	DATE
	100% DESIGN DEVELOPMENT	12/17/202
	ISSUED FOR BUILDING PERMIT	04/01/202

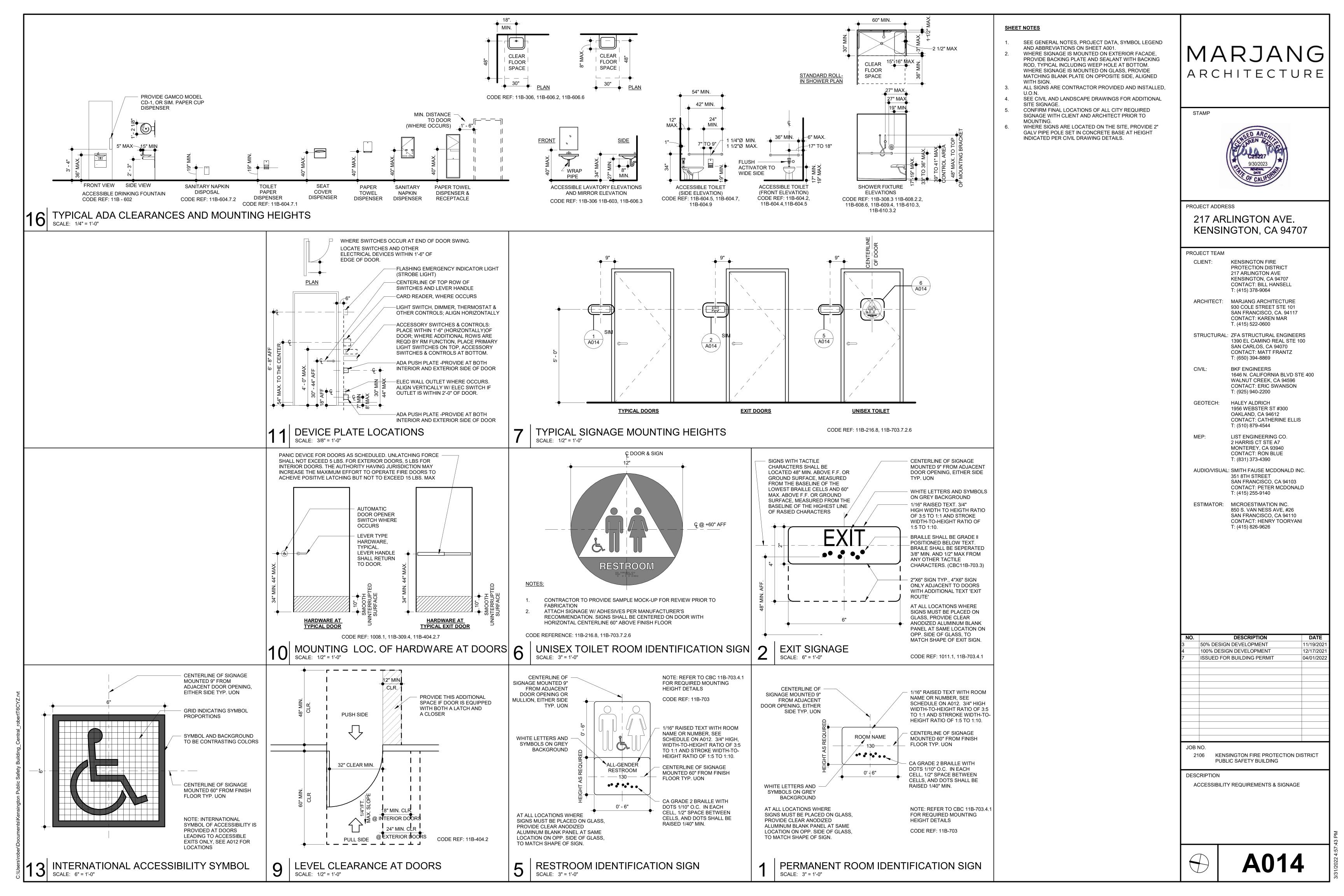
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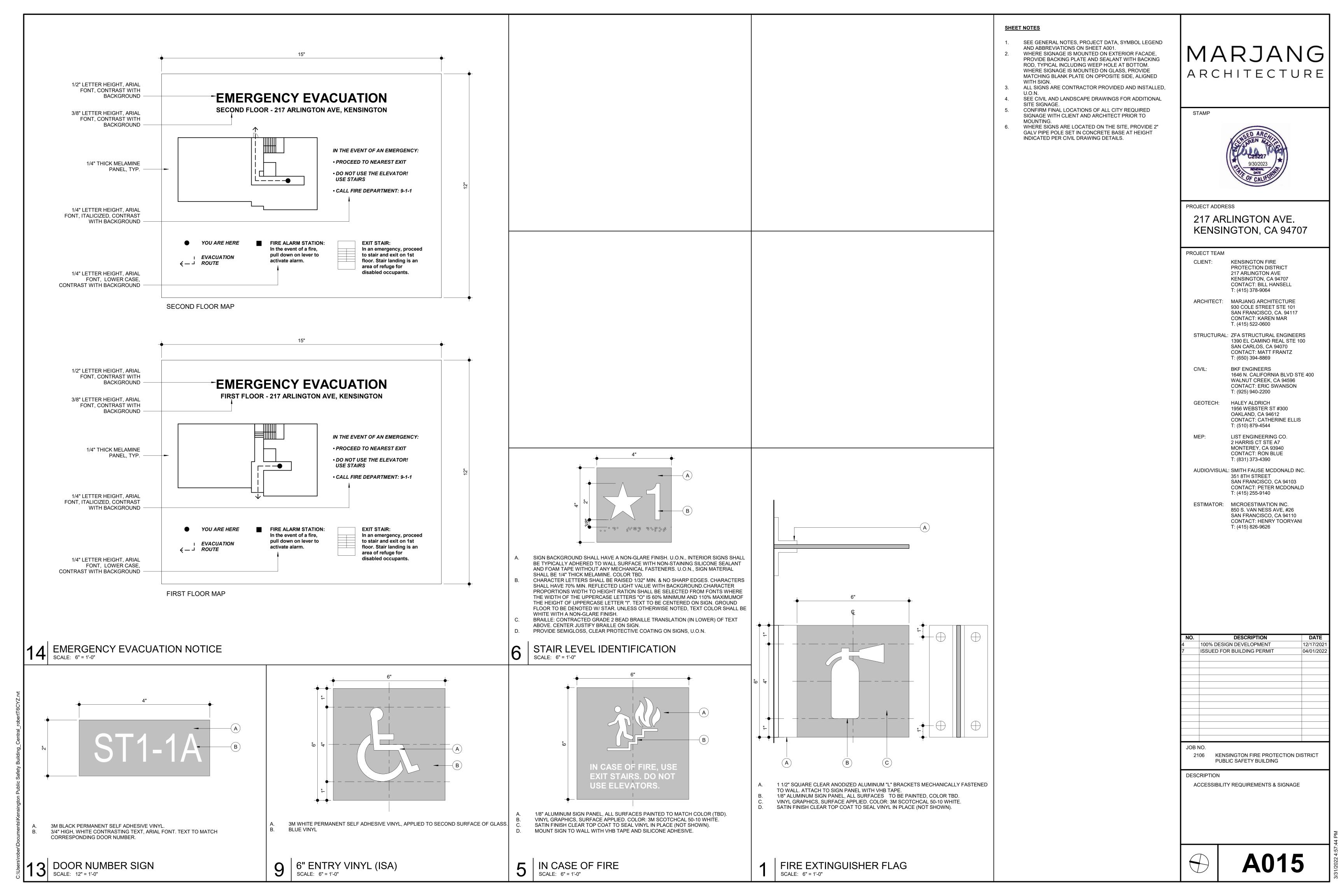
2106 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

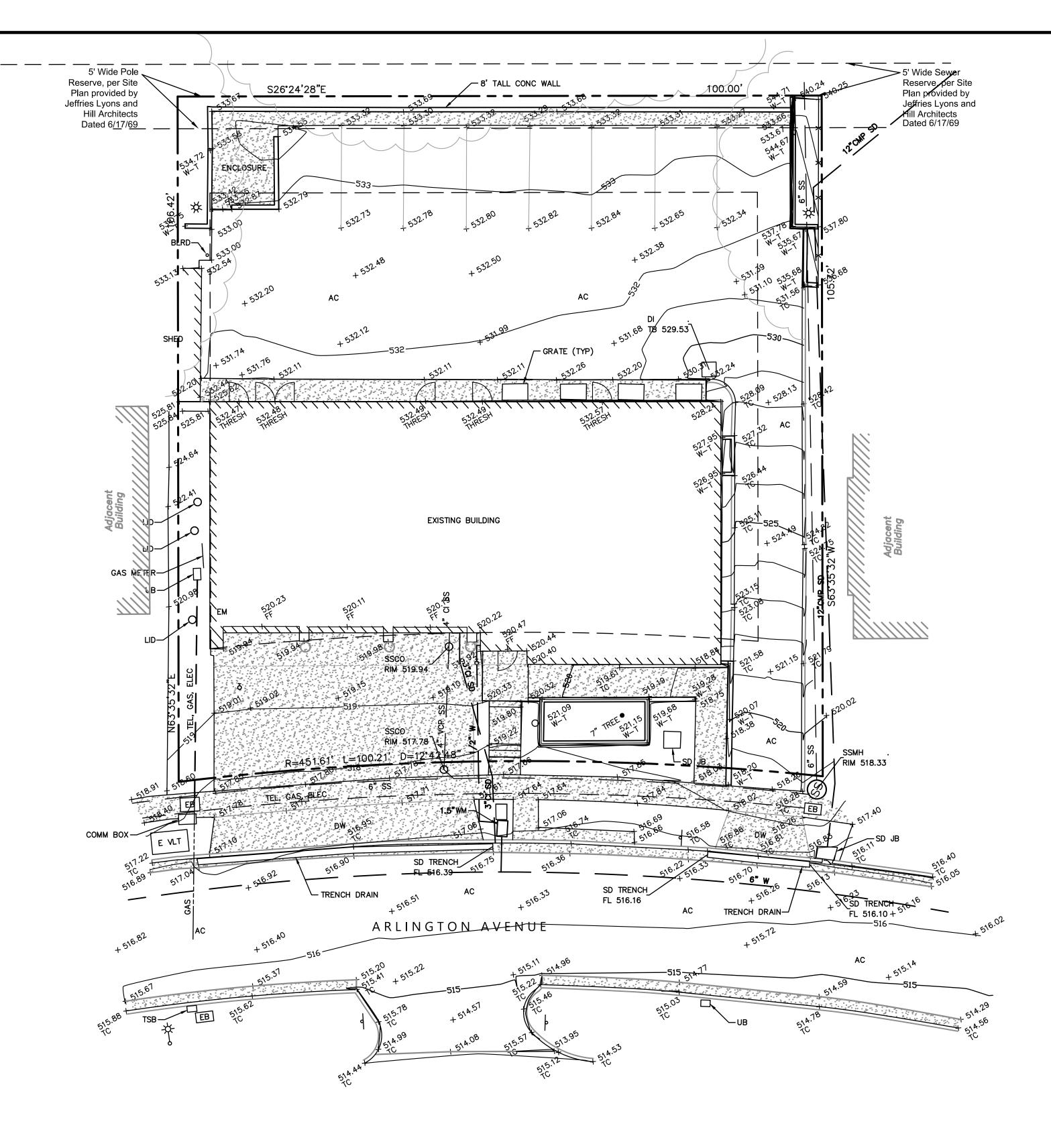
DESCRIPTION

SECOND FLOOR SIGNAGE PLAN









EXISTING ABBREVIATIONS		<u>LEGEND</u>	
AC APN	ASPHALT CONCRETE ASSESSOR'S PARCEL NUMBER	δ	WATER VALV
BLRD	BOLLARD	- o -	SIGN
BM CONC	BENCHMARK CONCRETE	- ☆	STREET LIGH
DI DIA	DROP INLET DIAMETER	' X÷	LIGHT POLE
DW E	DRIVEWAY ELECTRIC	т —— х	FENCE
FF FL	FINISHED FLOOR SURFACE FLOWLINE		
SD	STORM DRAIN		CONCRETE
SS SSCO	SANITARY SEWER SANITARY SEWER CLEAN OUT		

SANITARY SEWER MANHOLE

SSMH TOP OF BOX TOP FACE OF CURB THRESH THRESHOLD TYP TYPICAL UTILITY BOX VAULT WATER METER

TOP OF WALL

TB

TC

VLT

BENCHMARK

ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN DATUM OF 1988, DERIVED FROM GPS OBSERVATION AND BASED ON NAD83(2011), EPOCH 2017.50, ELLIPSOID HEIGHTS AS PUBLISHED BY THE CALIFORNIA SPATIAL REFERENCE CENTER AND THE NGS GEOID MODEL 18.

BASIS OF BEARINGS

THE BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 3, EPOCH 2017.50, IN ACCORDANCE WITH CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID COORDINATES ARE BASED LOCALLY UPON FIELD-OBSERVED TIES RELATIVE TO CALIFORNIA SPATIAL REFERENCE NETWORK STATION SRB1. DISTANCES ARE GRID BASED. DIVIDE BY A COMBINED SCALE FACTOR OF 0.99991317 TO OBTAIN GROUND DISTANCES. VALUES SHOWN BELOW IN THE TABLE ARE IN ITRF 2014.

STATION	LATITUDE	LONGITUDE	HEIGHT (m)
SRB1	37°52'27.690029"	-122°16'1.075795"	54.6535
SIGMA (mm)	2.07	2.00	6.03



BKF ENGINEERS

PROJECT ADDRESS

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PROJECT TEAM

CLIENT:

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T. (415) 522-0600

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANZ

CIVIL: **BKF ENGINEERS** 1646 N. CALIFORNIA BLVD STE 400 WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200

T: (650) 394-8869

GEOTECH: HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS T: (510) 879-4544

> 2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE T: (831) 373-4390

LIST ENGINEERING CO.

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD T: (415) 255-9140

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

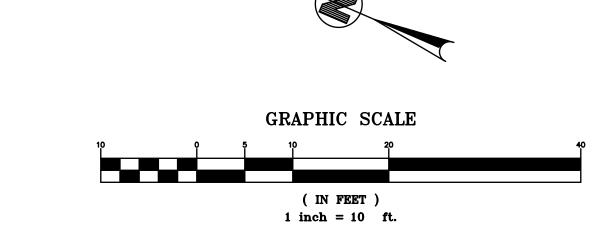
NO.	DESCRIPTION	DAIE
2	PLANNING SUBMITTAL	11/01/2021
3	PLANNING REVISION 2	02/04/2022
4	PLANNING REVISION 3	03/11/2022
5	ISSUED FOR BUILDING PERMIT	04/01/2022
·		

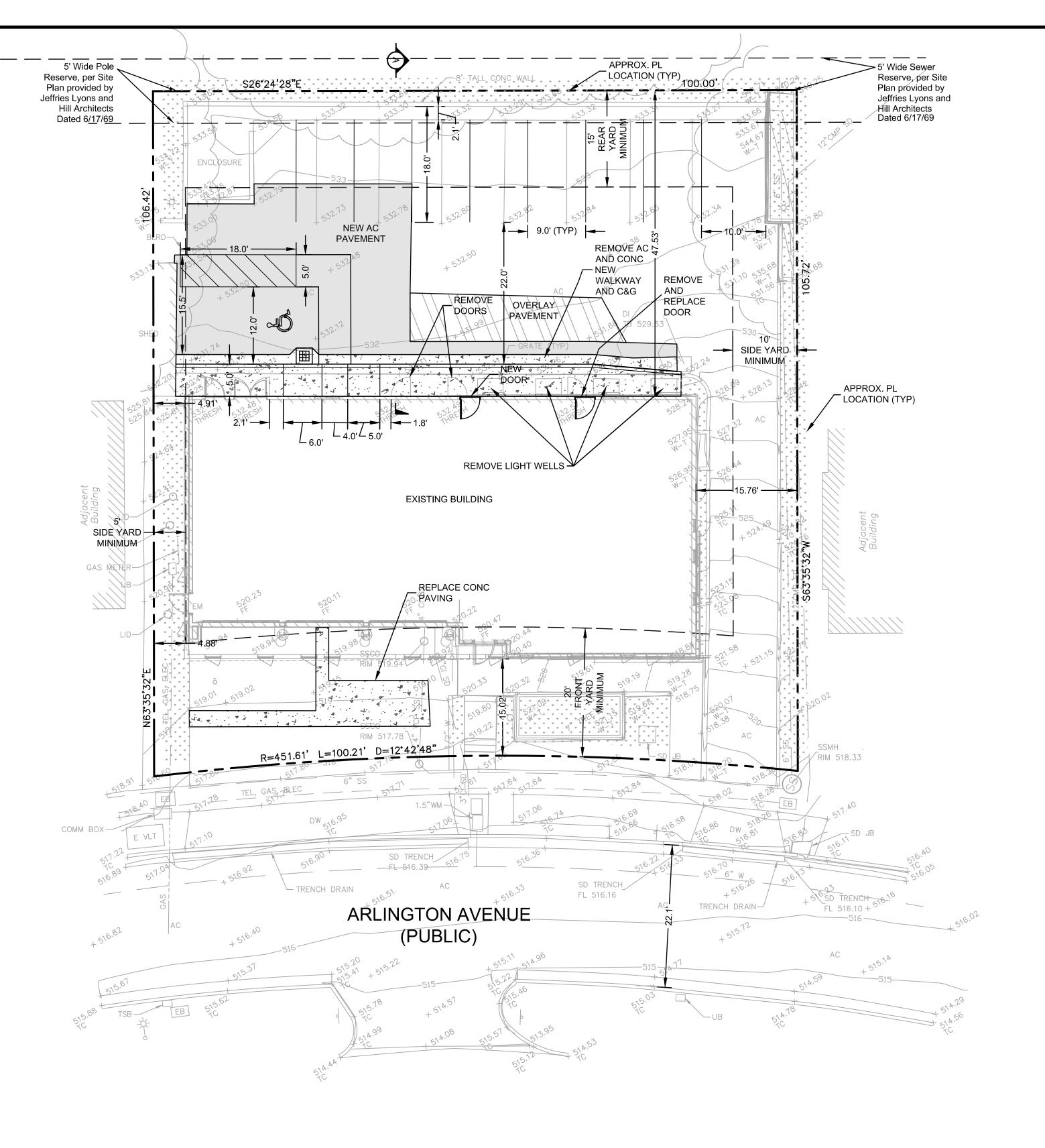
JOB NO.

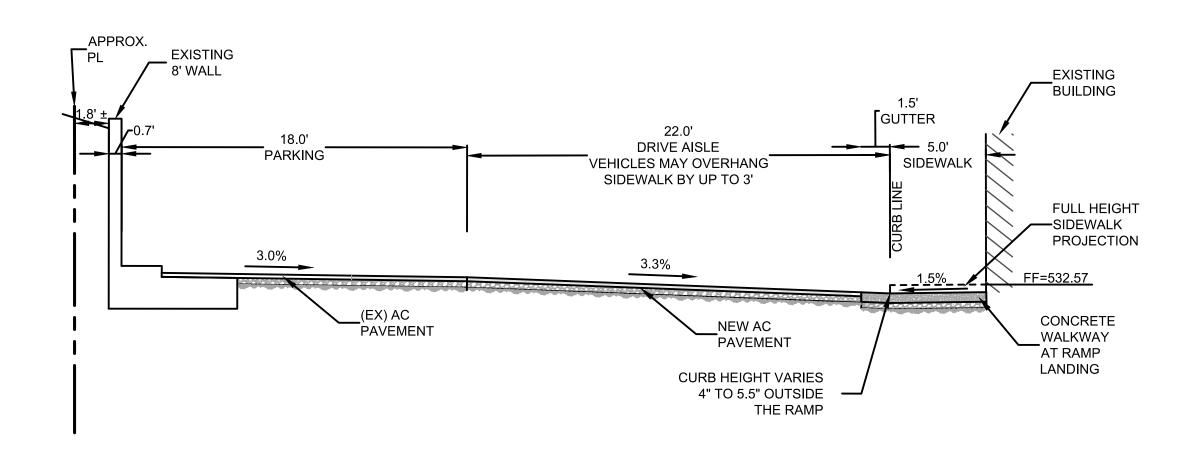
211363 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

EXISTING CONDITIONS







(A) CROSS SECTION NTS



1646 N. CALIFORNIA BLVD. SUITE 400 WALNUT CREEK, CA 94596 (925) 940-2200 www.bkf.com

STAMP



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> WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON

CONTACT: MATT FRANZ T: (650) 394-8869 CIVIL: **BKF ENGINEERS** 1646 N. CALIFORNIA BLVD STE 400

T: (925) 940-2200 HALEY ALDRICH 1956 WEBSTER ST #300

OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS T: (510) 879-4544 LIST ENGINEERING CO.

CONTACT: RON BLUE T: (831) 373-4390 AUDIO/VISUAL: SMITH FAUSE MCDONALD INC.

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CONTACT: HENRY TOORYANI T: (415) 826-9626

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110

DESCRIPTION DATE PLANNING SUBMITTAL 11/01/202 PLANNING REVISION 2 02/04/202 PLANNING REVISION 3 ISSUED FOR BUILDING PERMIT 04/01/202

JOB NO.

211363 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

HORIZONTAL CONTROL AND PARKING STRIPING PLAN



TOTAL SITE AREA =10,427 SQ FT TOTAL (EX) IMPERVIOUS AREA =9,094 SQ FT TOTAL (EX) LANDSCAPED AREA =1,333 SQ FT TOTAL NEW IMPERVIOUS AREA =0 SQ FT TOTAL REPLACED IMPERVIOUS AREA =1,696 SQ FT PROPOSED FINAL IMPERVIOUS AREA =9,094 SQ FT PROPOSED FINAL LANDSCAPED AREA =1,333 SQ FT

PROPERTY LINE 1. ALL DIMENSIONS ARE IN FEET AND DECIMALS, THEREFORE, CONTRACTOR TO MINIMUM SETBACK REQUIREMENTS NOTIFY THE CIVIL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES IN THE R-6 SINGLE-FAMILY RESIDENTIAL DISTRICT PROVIDED DIMENSIONS. 2. REFER TO ARCHITECTURAL PLANS FOR BUILDING DETAILS. BUILDING OVERHANG 3. FOR WALKS AND IN ADA ACCESSIBLE AREAS, CROSS SLOPES SHOULD NOT EXCEED 2% IN GRADE. NEW CONCRETE PAVEMENT 4. PROJECT DOES NOT PROPOSE TO REMOVE ANY TREES.

NOTES

LEGEND

NEW ASPHALT CONCRETE PAVEMENT

NEW ASPHALT OVERLAY

EXISTING LANDSCAPE

5. EXISTING BOUNDARY INFORMATION IS FROM RECORD INFORMATION ONLY AND IS NOT TIED TO MONUMENTS.

6. THE GENERAL PLAN DESIGNATION IS PS (PUBLIC/SEMI-PUBLIC).

FIFTEEN FEET. NO SIDE YARD SHALL BE LESS THAN 5 FEET WIDE."

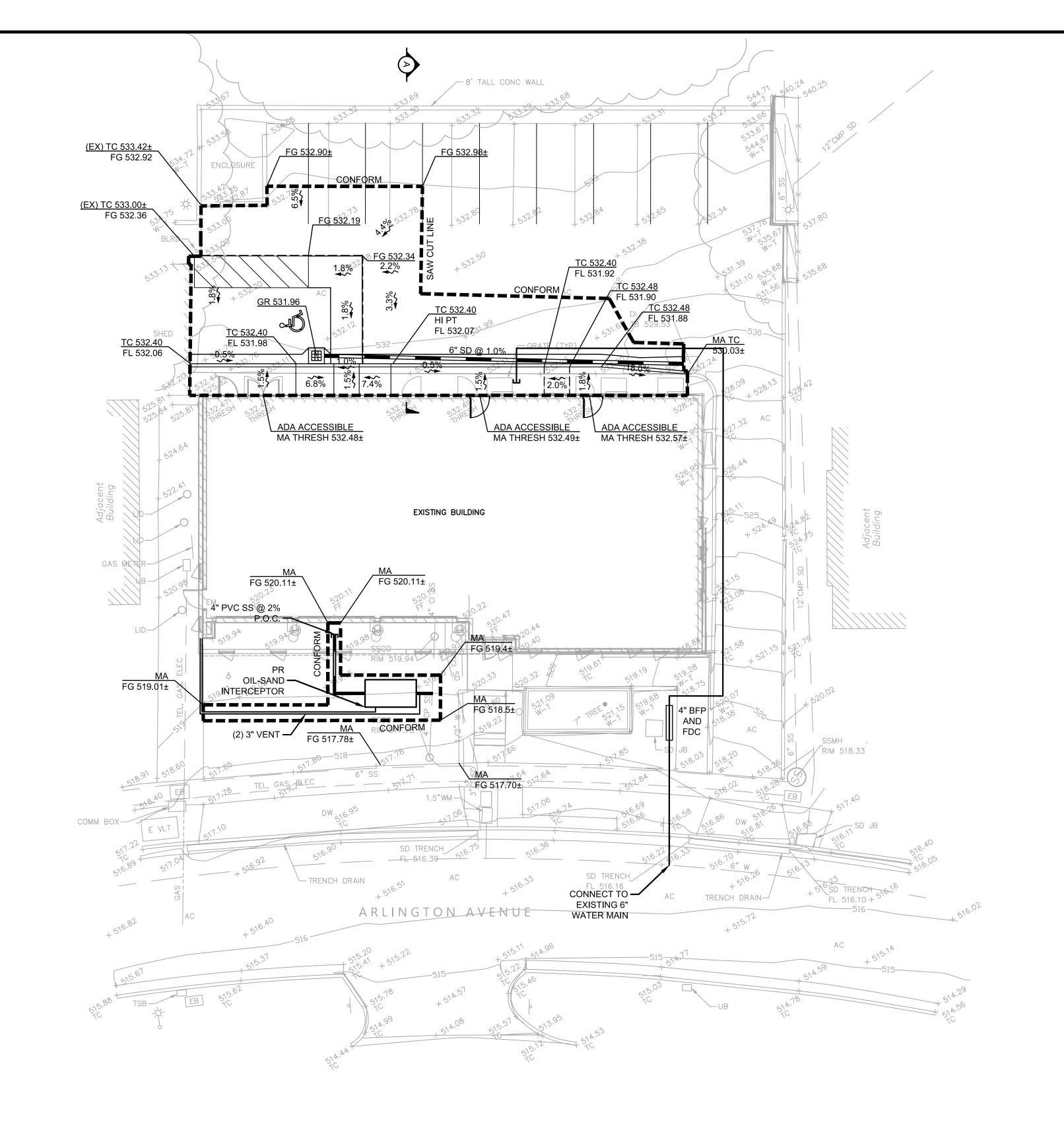
7. THE ZONING DESIGNATION IS R-6 SINGLE-FAMILY RESIDENTIAL DISTRICT. 8. R-6 REQUIRES "THERE SHALL BE AN AGGREGATE SIDE YARD WIDTH OF AT LEAST

9. R-6 REQUIRES "THERE SHALL BE A SETBACK (FRONT YARD) OF AT LEAST TWENTY FEET FOR ANY STRUCTURE IN THE R-6 DISTRICT."

10. R-6 REQUIRES "THERE SHALL BE A REAR YARD FOR ANY PRINCIPAL STRUCTURE OF AT LEAST FIFTEEN FEET."

11. THE EXISTING BUILDING ENCROACHES IN SIDE AND FRONT MINIMUM SETBACKS. 12. THE PROJECT SITE IS IN A FEMA ZONE X - AREA OF MINIMAL FLOOD HAZARD.

GRAPHIC SCALE (IN FEET) 1 inch = 10 ft.





BKF ENGINEERS 1646 N. CALIFORNIA BLVD. SUITE 400 WALNUT CREEK, CA 94596 (925) 940-2200 www.bkf.com

STAMP



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PROJECT TEAM

CLIENT: KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

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T: (650) 394-8869

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> LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE T: (831) 373-4390

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET
SAN FRANCISCO, CA 94103
CONTACT: PETER MCDONALD T: (415) 255-9140

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

Ю.	DESCRIPTION	DATE
	PLANNING SUBMITTAL	11/01/2021
	PLANNING REVISION 2	02/04/2022
	PLANNING REVISION 3	03/11/2022
	ISSUED FOR BUILDING PERMIT	04/01/2022
•		
·		·

JOB NO.

211363 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

GRADING AND UTILITY PLAN

C3.0

<u>LEGEND</u>

SAW CUT LINE — — — — — — GRADE BREAK LINE ____<____ FLOW LINE SURFACE SLOPE XX.XX × SPOT ELEVATION STORM DRAIN LINE

FIRE WATER LINE

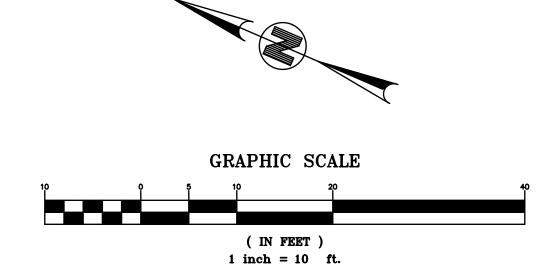
SANITARY SEWER LINE

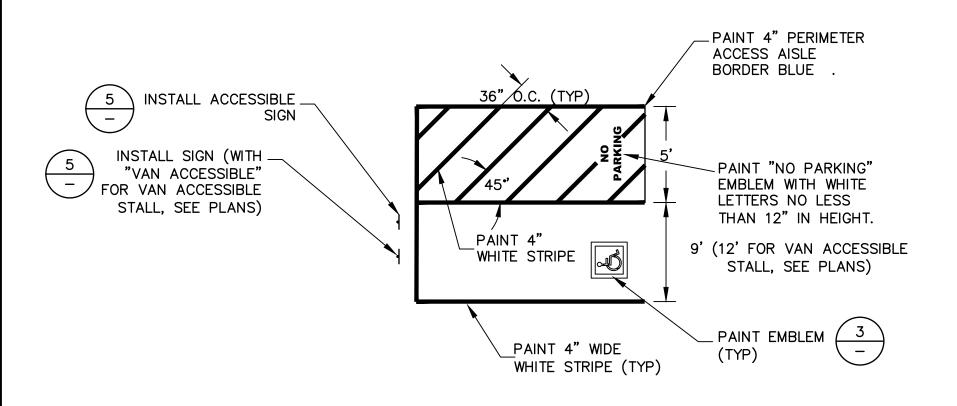
ABBREVIATIONS

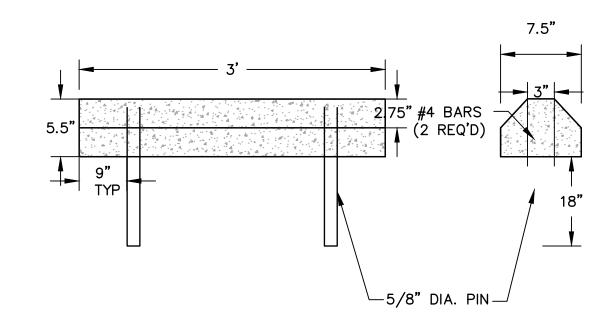
ASPHALT CONCRETE BACK OF WALK **EXISTING** FINISH FLOOR FINISH GRADE FLOWLINE HIGH POINT LOW POINT MATCH TC

TOP OF CURB

TOP OF TREATMENT SURFACE

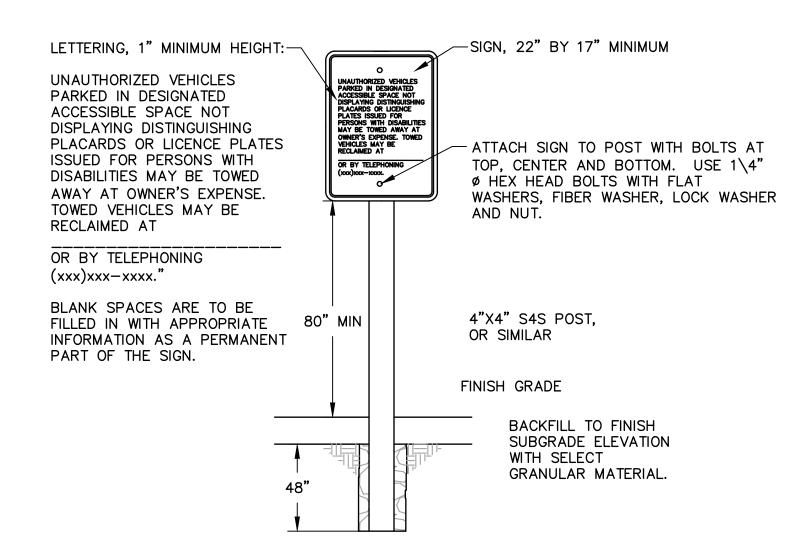




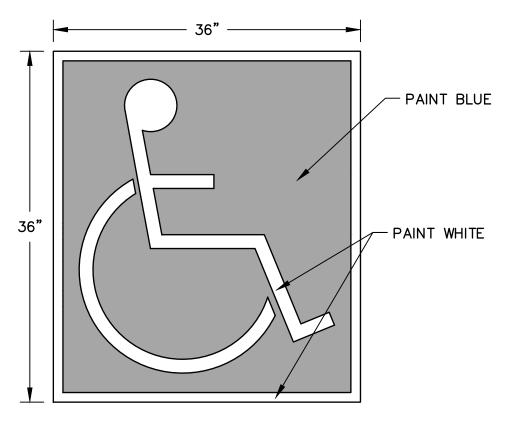


WHEEL STOP

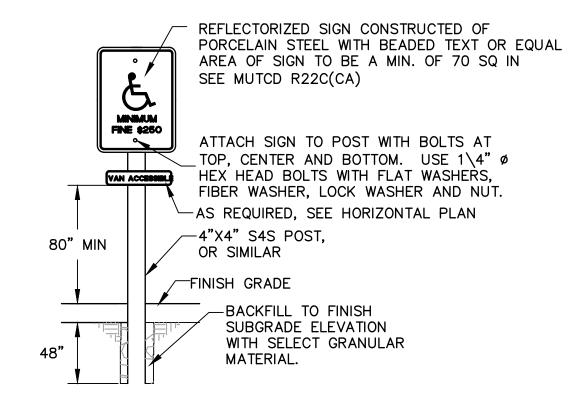












ACCESSIBLE SIGNAGE DETAIL



BKF ENGINEERS 1646 N. CALIFORNIA BLVD. SUITE 400 WALNUT CREEK, CA 94596 (925) 940-2200 www.bkf.com

STAMP



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217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

CLIENT:

CIVIL:

KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101

SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR T. (415) 522-0600

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T: (650) 394-8869 **BKF ENGINEERS** 1646 N. CALIFORNIA BLVD STE 400

WALNUT CREEK, CA 94596

CONTACT: ERIC SWANSON T: (925) 940-2200 GEOTECH: HALEY ALDRICH

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2	PLANNING SUBMITTAL	11/01/2021
3	PLANNING REVISION 2	02/04/2022
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5	ISSUED FOR BUILDING PERMIT	04/01/2022

JOB NO.

211363 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION **DETAILS**

MARJANG

STAMI



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217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

CLIENT:

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PROTECTION DISTRICT
217 ARLINGTON AVE
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 NO.
 DESCRIPTION
 DATE

 PLANNING SUBMITTAL
 11/01/2021

 50% DESIGN DEVELOPMENT
 11/19/2021

 100% DESIGN DEVELOPMENT
 12/17/2021

 PLANNING SUBMITTAL R1
 01/06/2022

 PLANNING REVISION 2
 02/04/2022

 ISSUED FOR BUILDING PERMIT
 04/01/2022

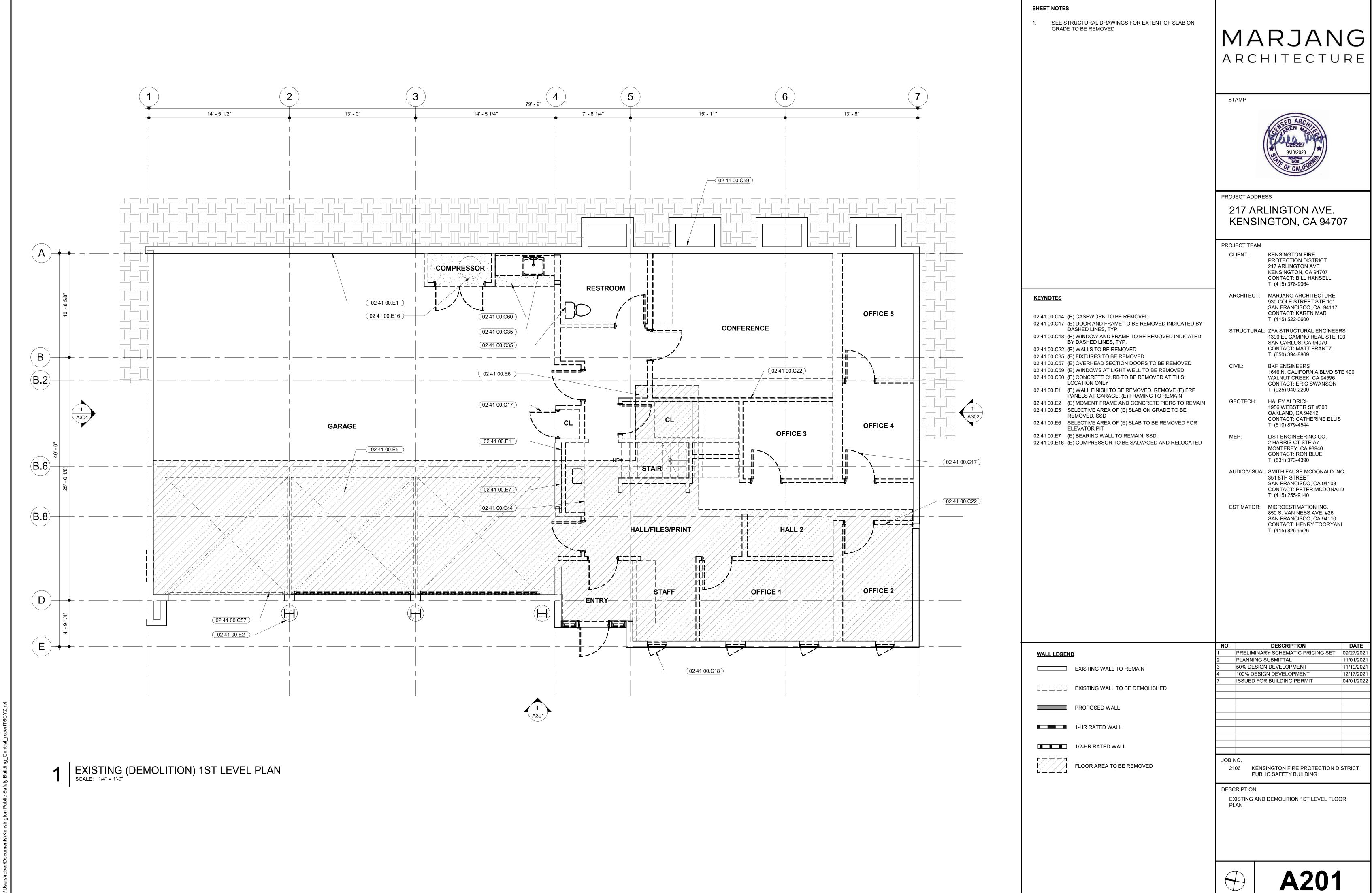
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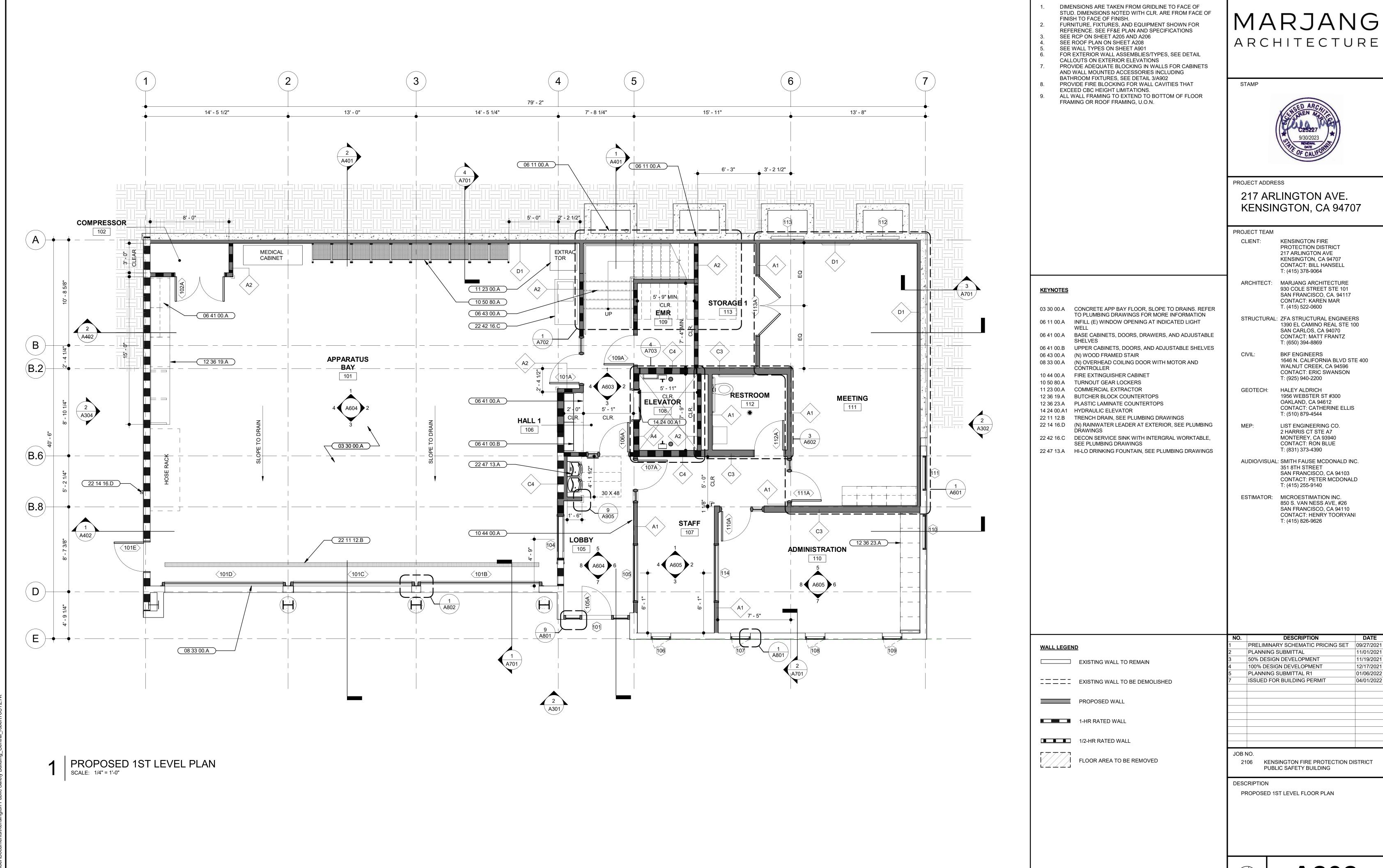
2106 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION
SITE PLAN

A101

PROPOSED SITE PLAN
SCALE: 1/8" = 1'-0"

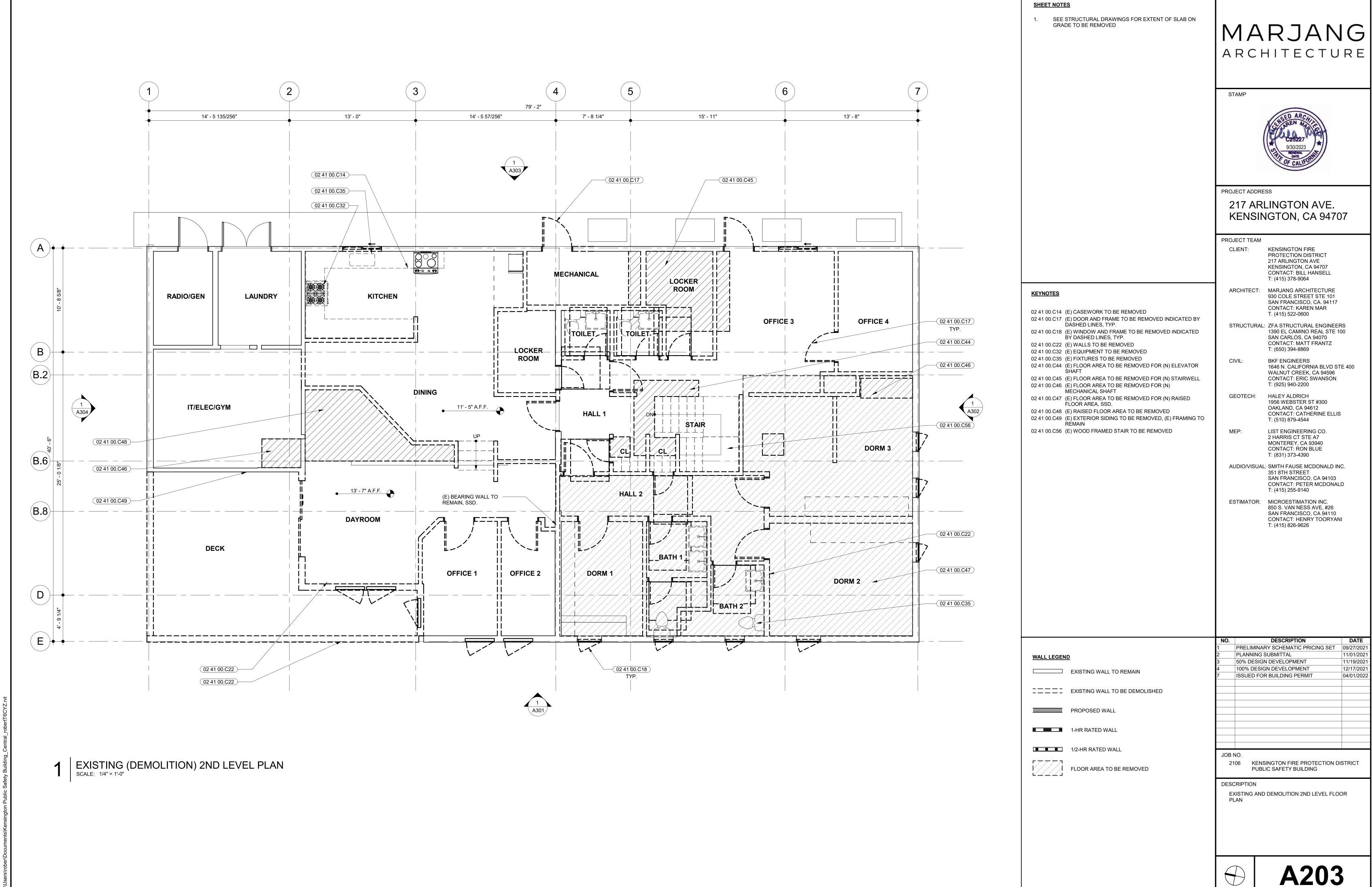


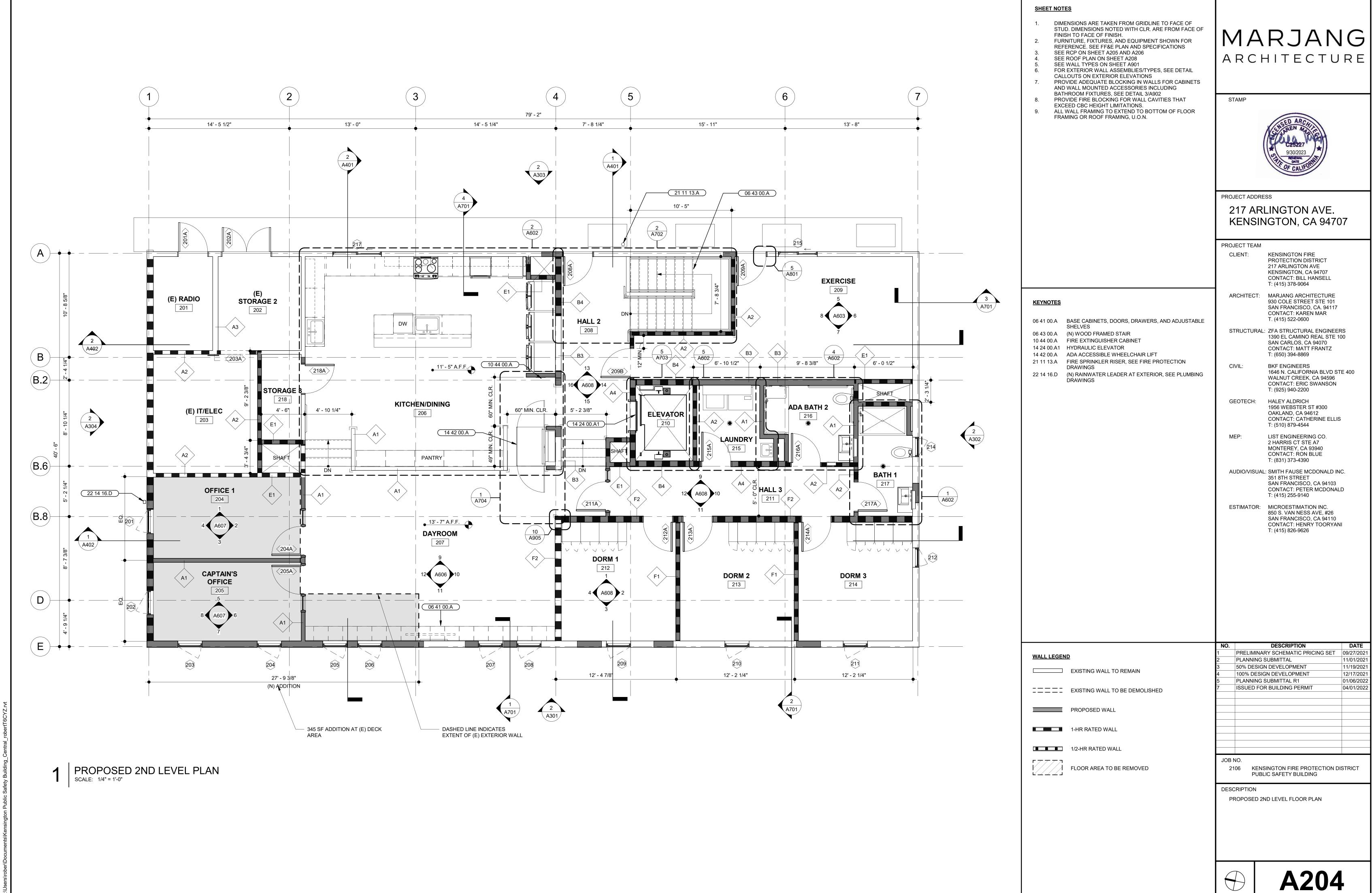


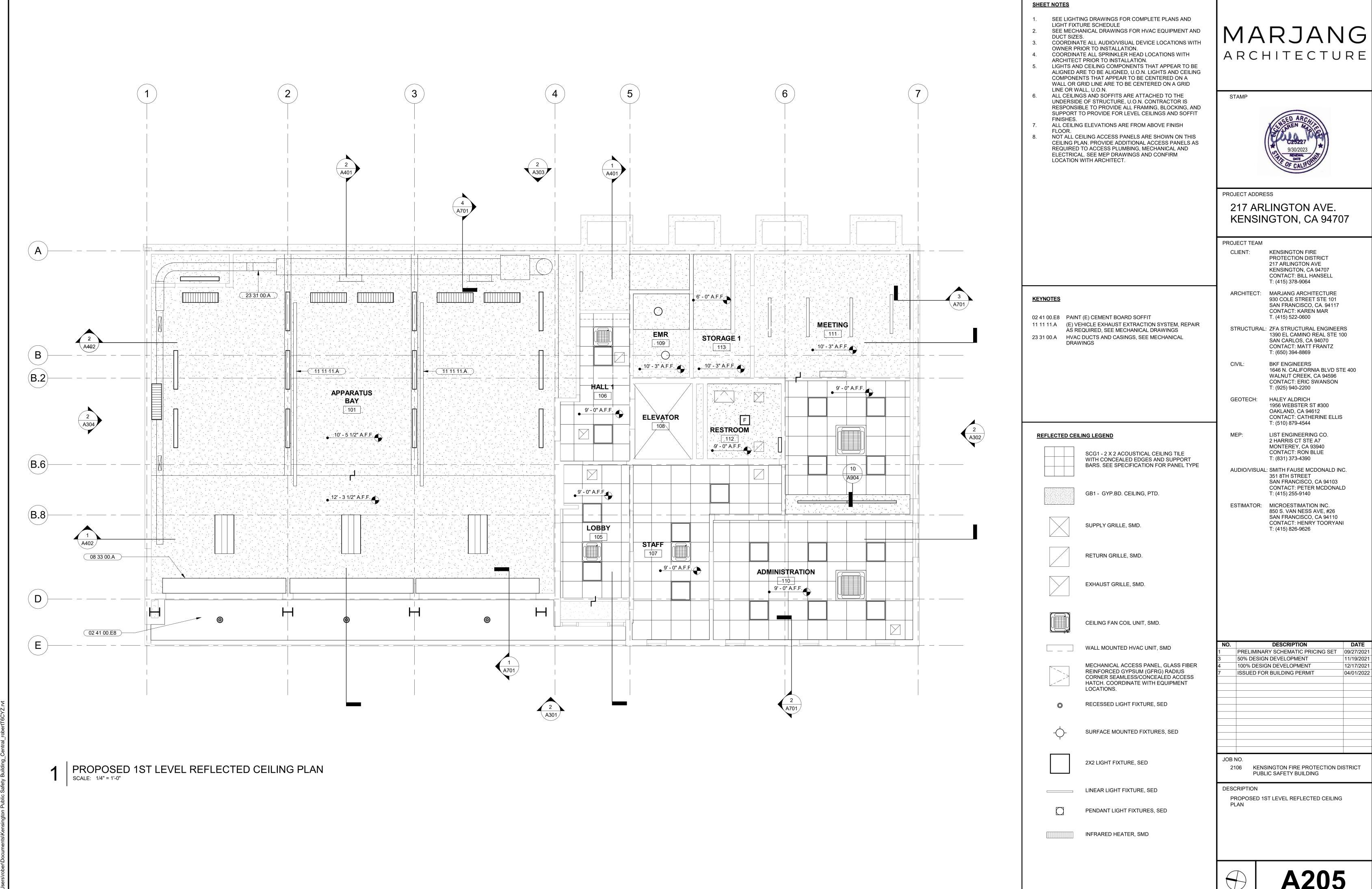
SHEET NOTES

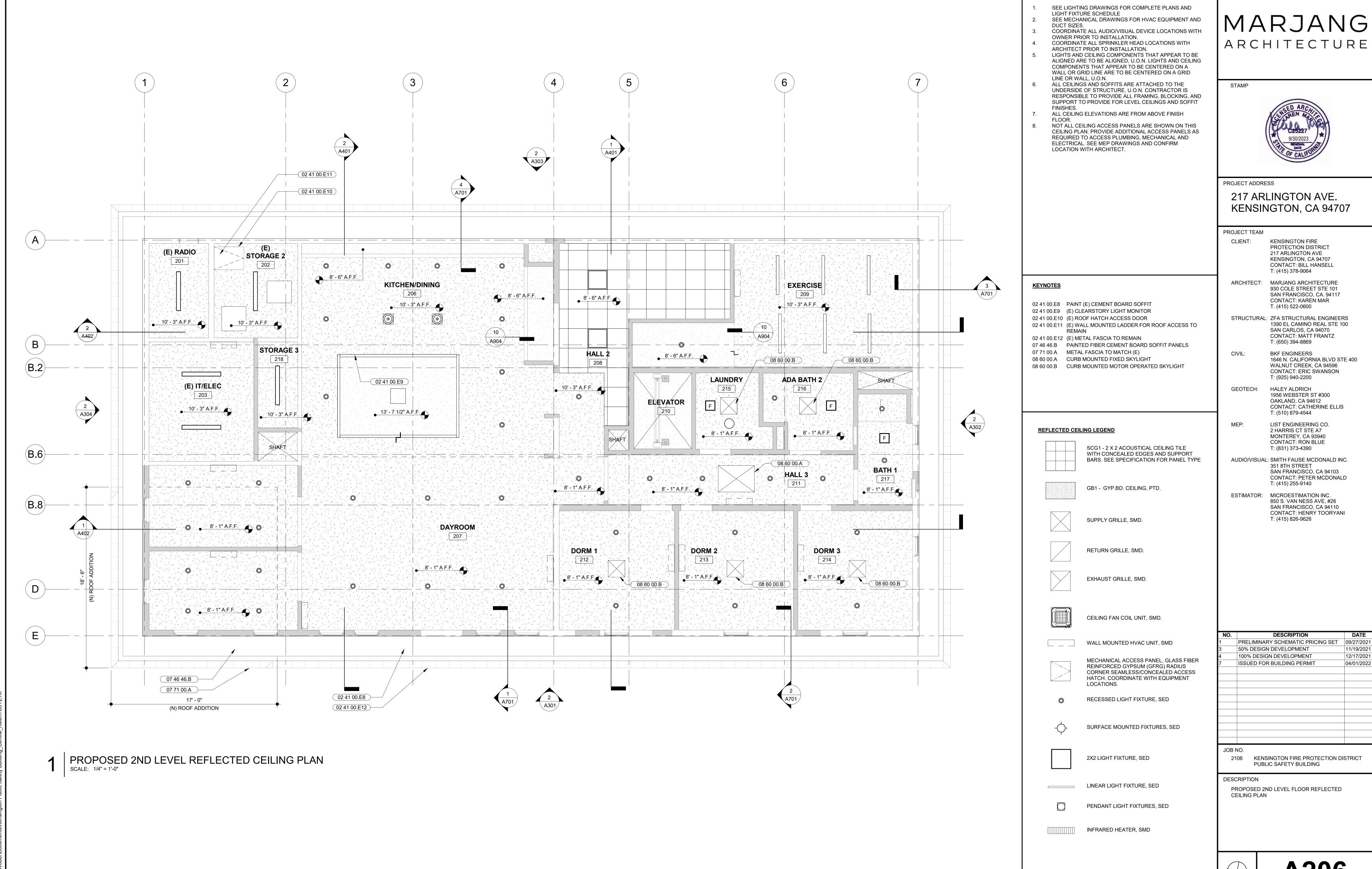
31/2022 4-57-47 PM

A202



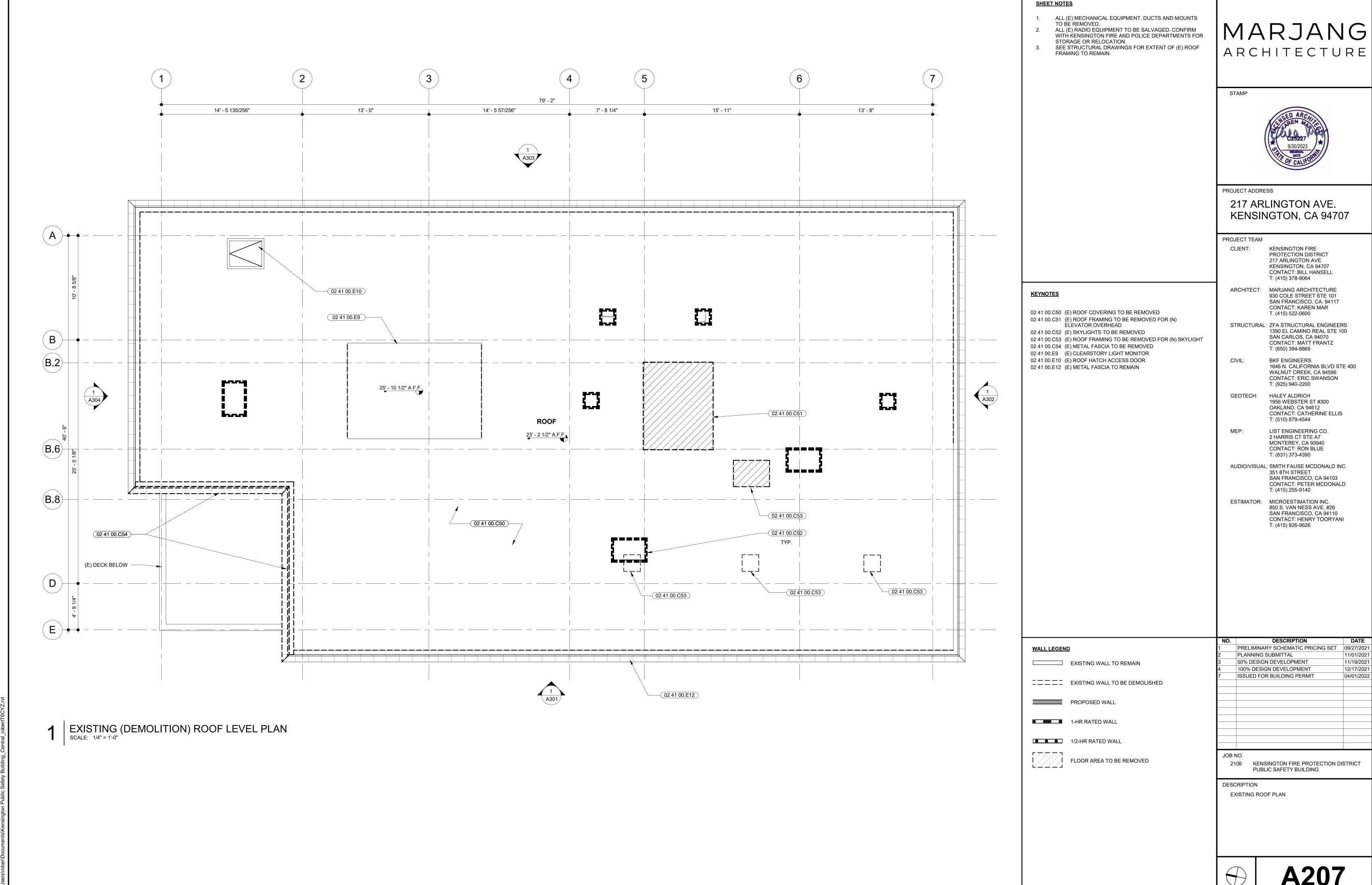


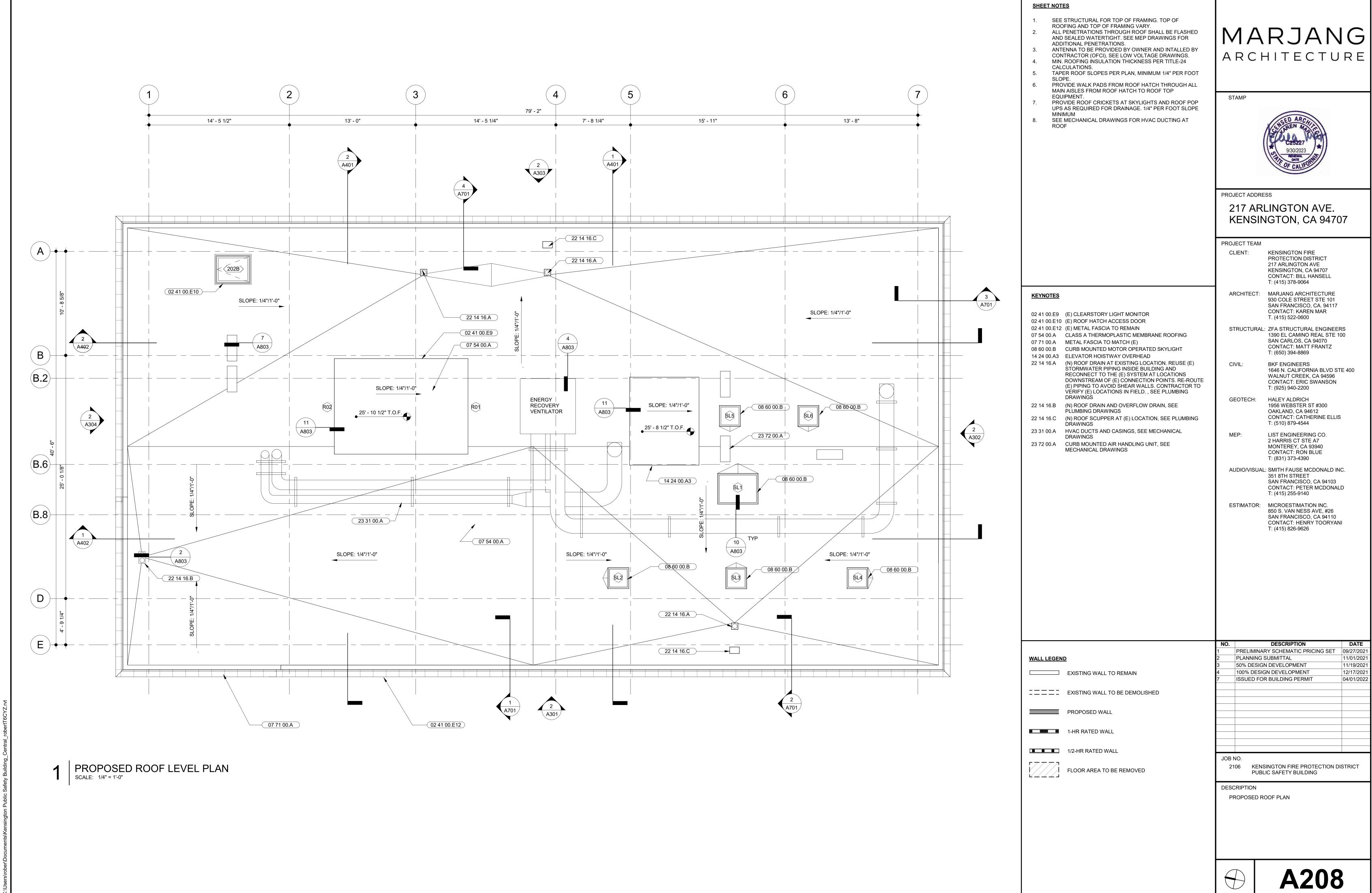


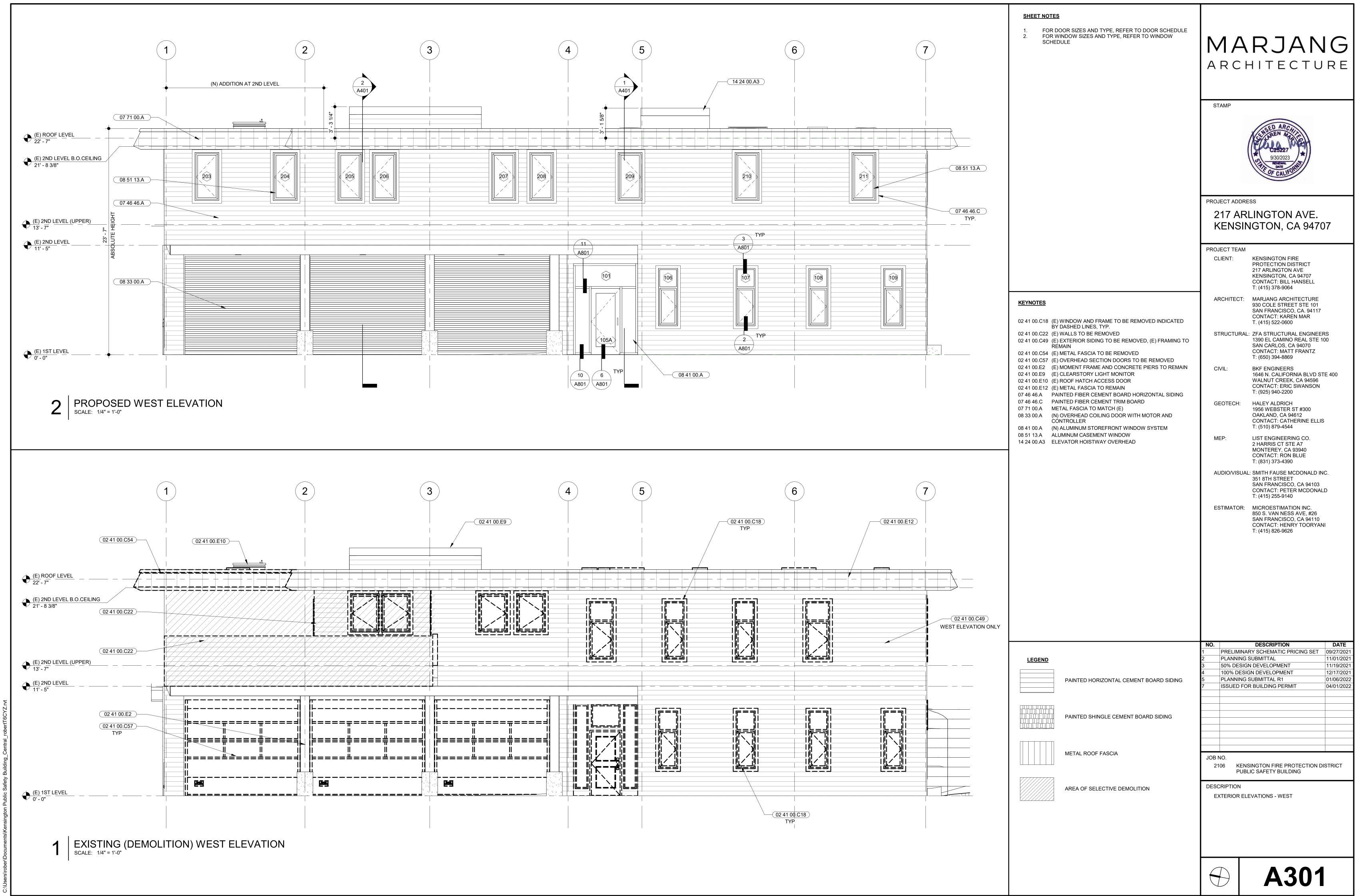


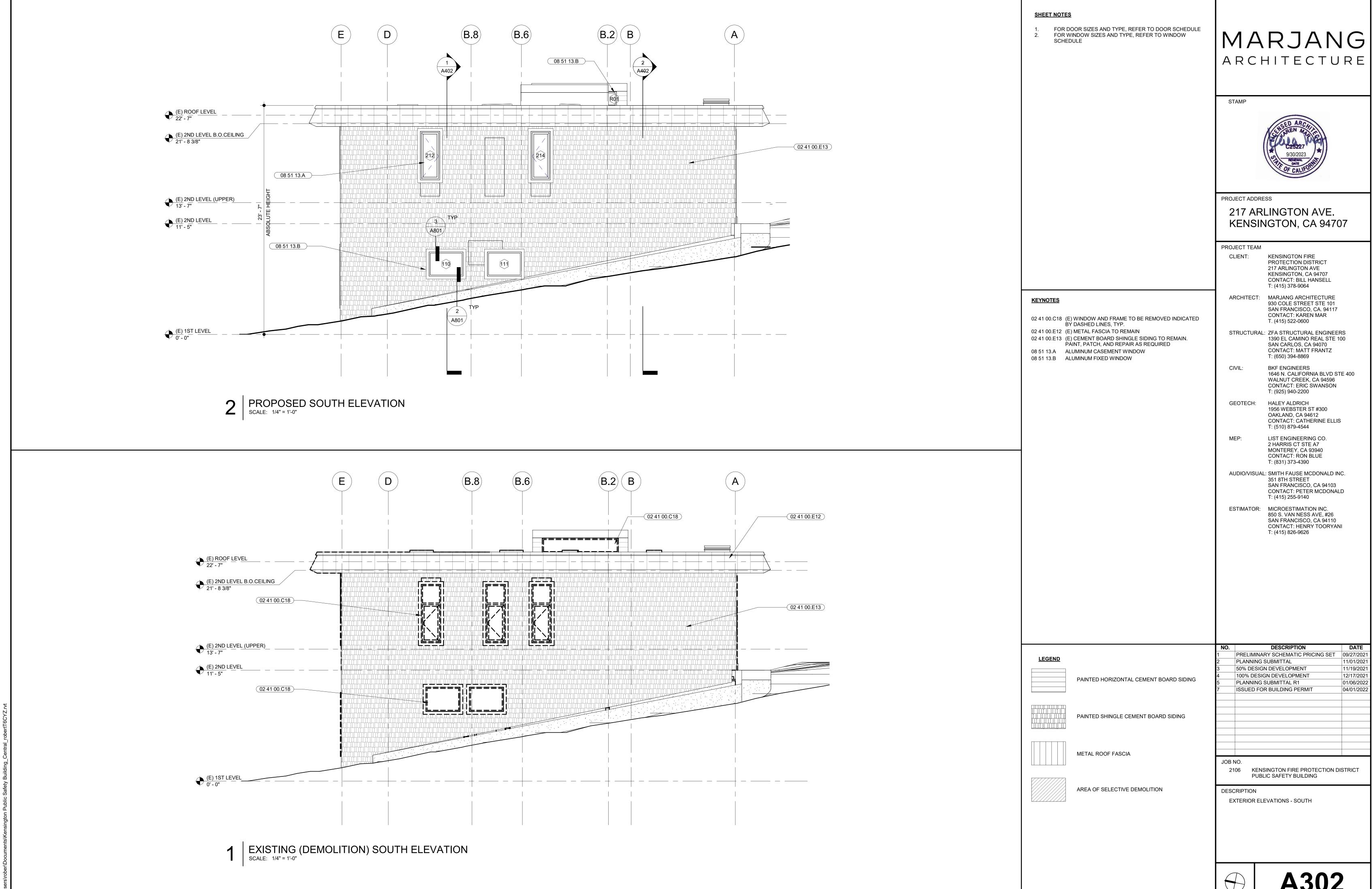
A206

SHEET NOTES

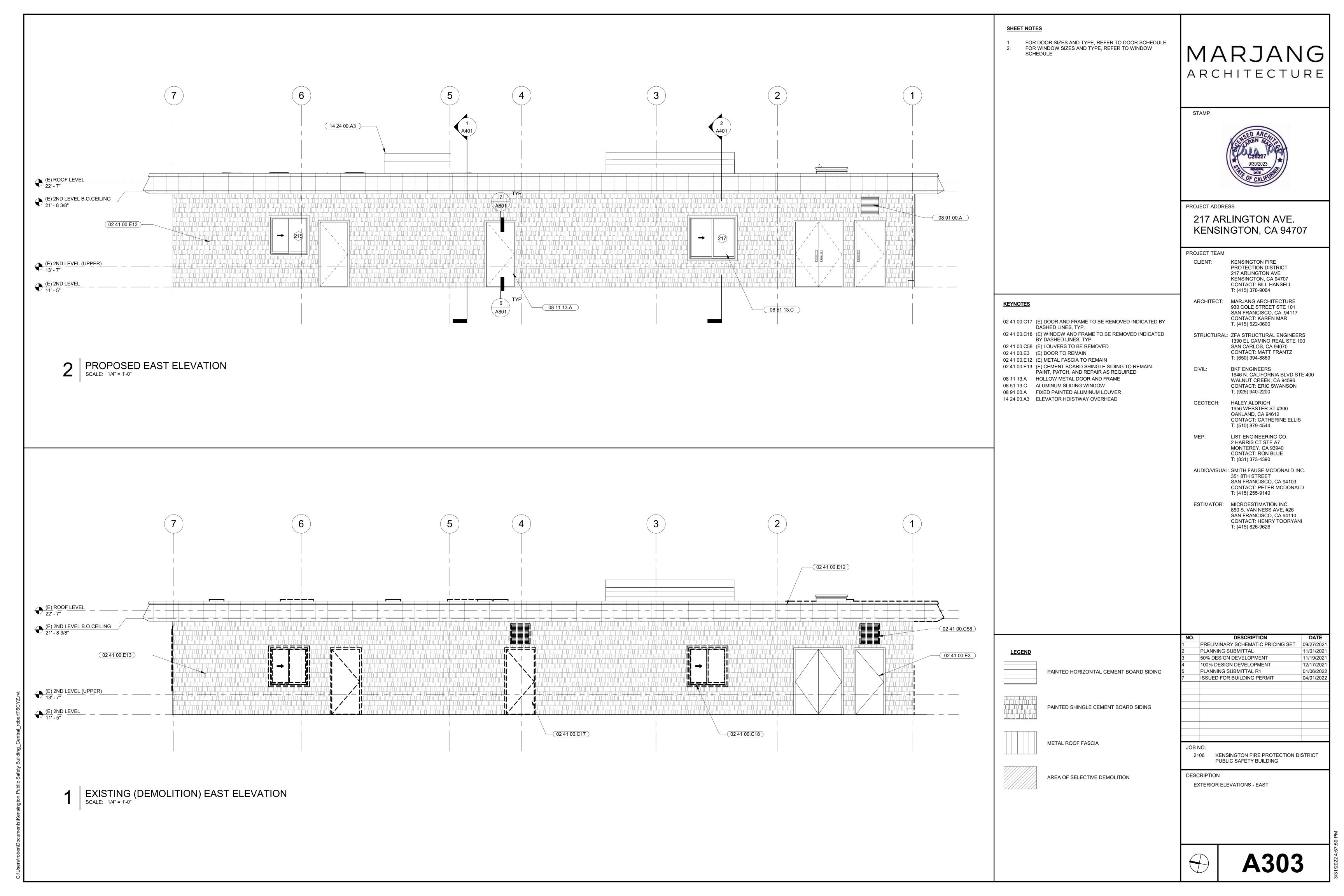


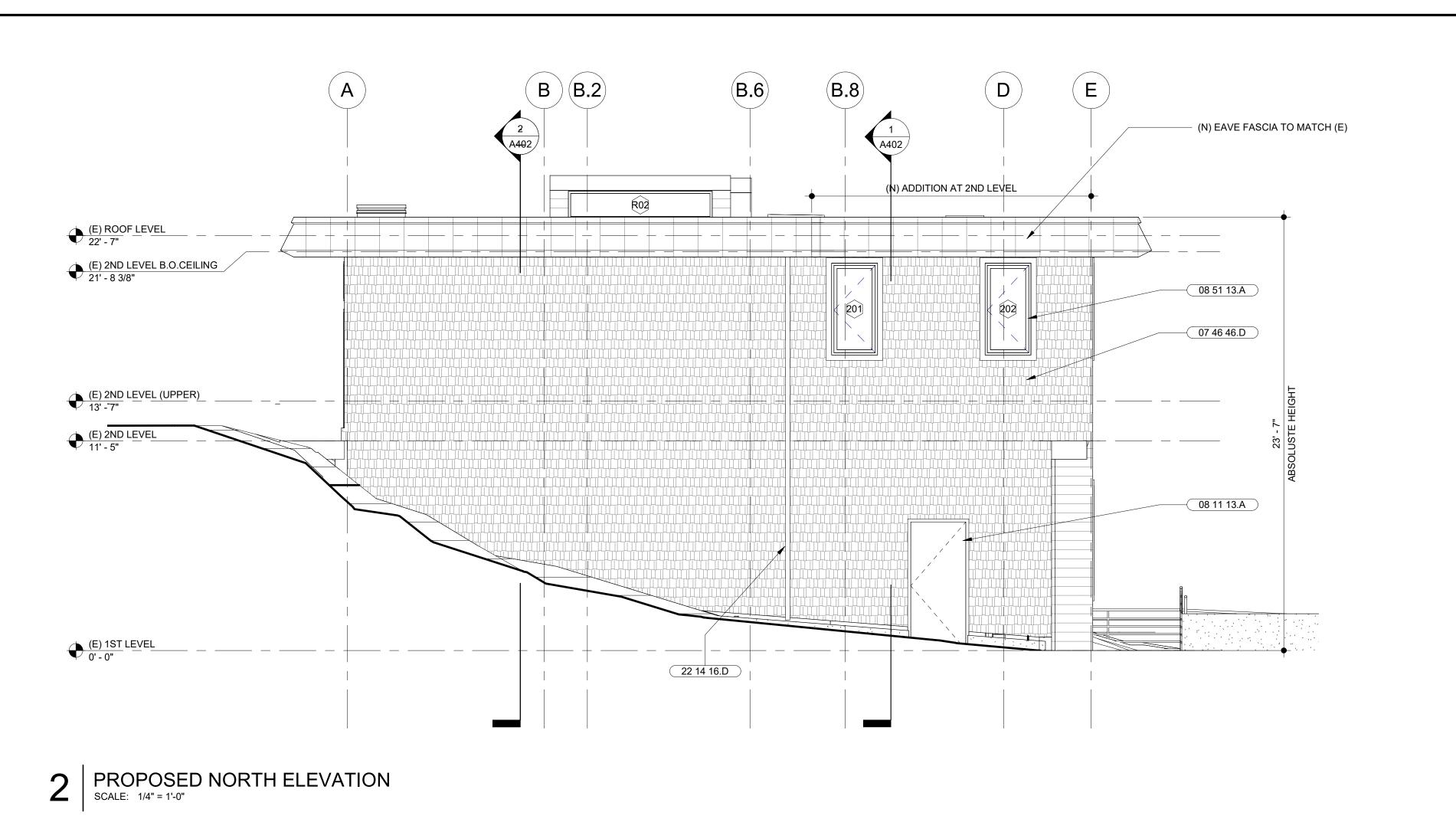


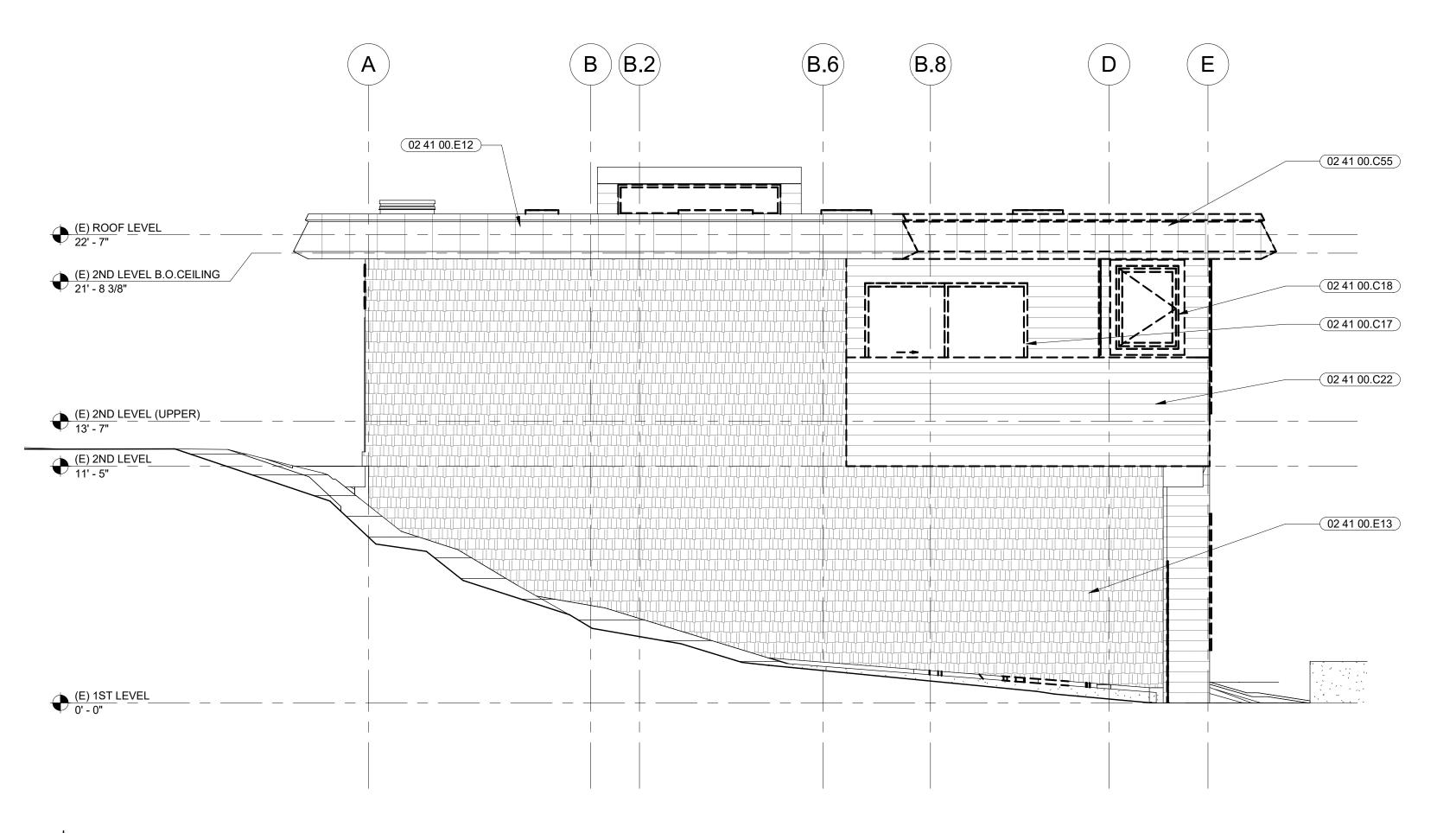




A302







SHEET NOTES

FOR DOOR SIZES AND TYPE, REFER TO DOOR SCHEDULE
 FOR WINDOW SIZES AND TYPE, REFER TO WINDOW

02 41 00.C17 (E) DOOR AND FRAME TO BE REMOVED INDICATED BY

02 41 00.C18 (E) WINDOW AND FRAME TO BE REMOVED INDICATED

02 41 00.E13 (E) CEMENT BOARD SHINGLE SIDING TO REMAIN.

07 46 46.D PAINTED FIBER CEMENT BOARD SHINGLE SIDING

PÁINT, PATCH, AND REPAIR AS REQUIRED

22 14 16.D (N) RAINWATER LEADER AT EXTERIOR, SEE PLUMBING

DÁSHED LINES, TYP.

02 41 00.C22 (E) WALLS TO BE REMOVED

02 41 00.E12 (E) METAL FASCIA TO REMAIN

BÝ DASHED LINES, TYP.

02 41 00.C55 (E) METAL LOUVER TO BE REMOVED

08 11 13.A HOLLOW METAL DOOR AND FRAME 08 51 13.A ALUMINUM CASEMENT WINDOW

MARJANG

CTAMD



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

CLIENT: KENSINGTON FIRE
PROTECTION DISTRICT
217 ARLINGTON AVE
KENSINGTON, CA 94707
CONTACT: BILL HANSELL
T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117

T. (415) 522-0600

STRUCTURAL: ZFA STRUCTURAL ENGINEERS

1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANTZ T: (650) 394-8869

CONTACT: KAREN MAR

/IL: BKF ENGINEERS
1646 N. CALIFORNIA BLVD STE 400
WALNUT CREEK, CA 94596
CONTACT: ERIC SWANSON
T: (925) 940-2200

GEOTECH: HALEY ALDRICH
1956 WEBSTER ST #300
OAKLAND, CA 94612
CONTACT: CATHERINE ELLIS

LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940

CONTACT: RON BLUE T: (831) 373-4390

T: (510) 879-4544

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC.
351 8TH STREET

SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD T: (415) 255-9140

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI

T: (415) 826-9626

DESCRIPTION
PRELIMINARY SCHEMATIC PRICING SET

PLANNING SUBMITTAL

50% DESIGN DEVELOPMENT

PLANNING SUBMITTAL R1

100% DESIGN DEVELOPMENT

ISSUED FOR BUILDING PERMIT

09/27/2021

11/01/2021

11/19/2021

12/17/2021

01/06/2022

04/01/2022

LEGEND

KEYNOTES

F

PAINTED HORIZONTAL CEMENT BOARD SIDING

PAINTED SHINGLE CEMENT BOARD SIDING



METAL ROOF FASCIA



AREA OF SELECTIVE DEMOLITION

JOB NO.

2106 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

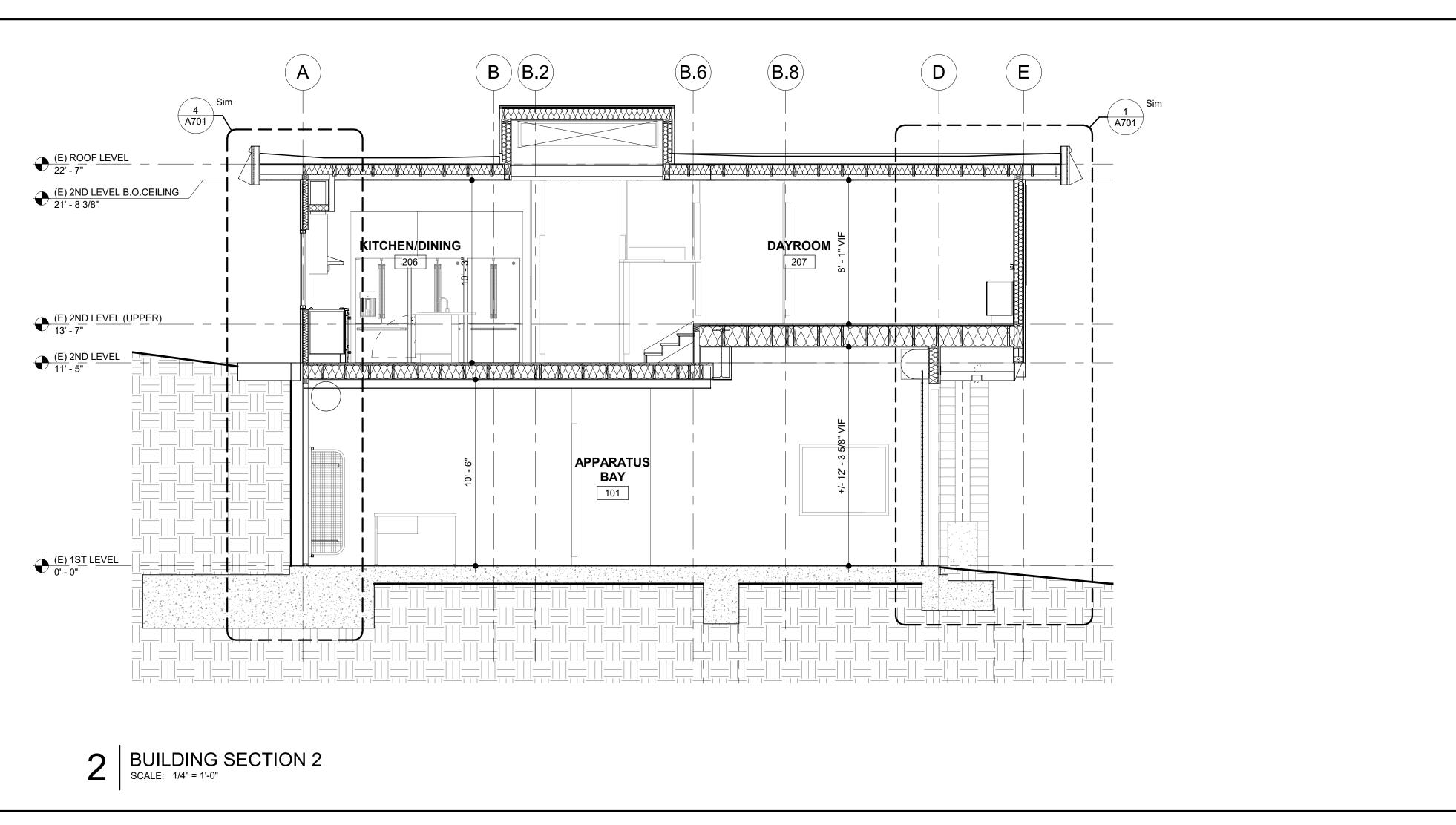
DESCRIPTION

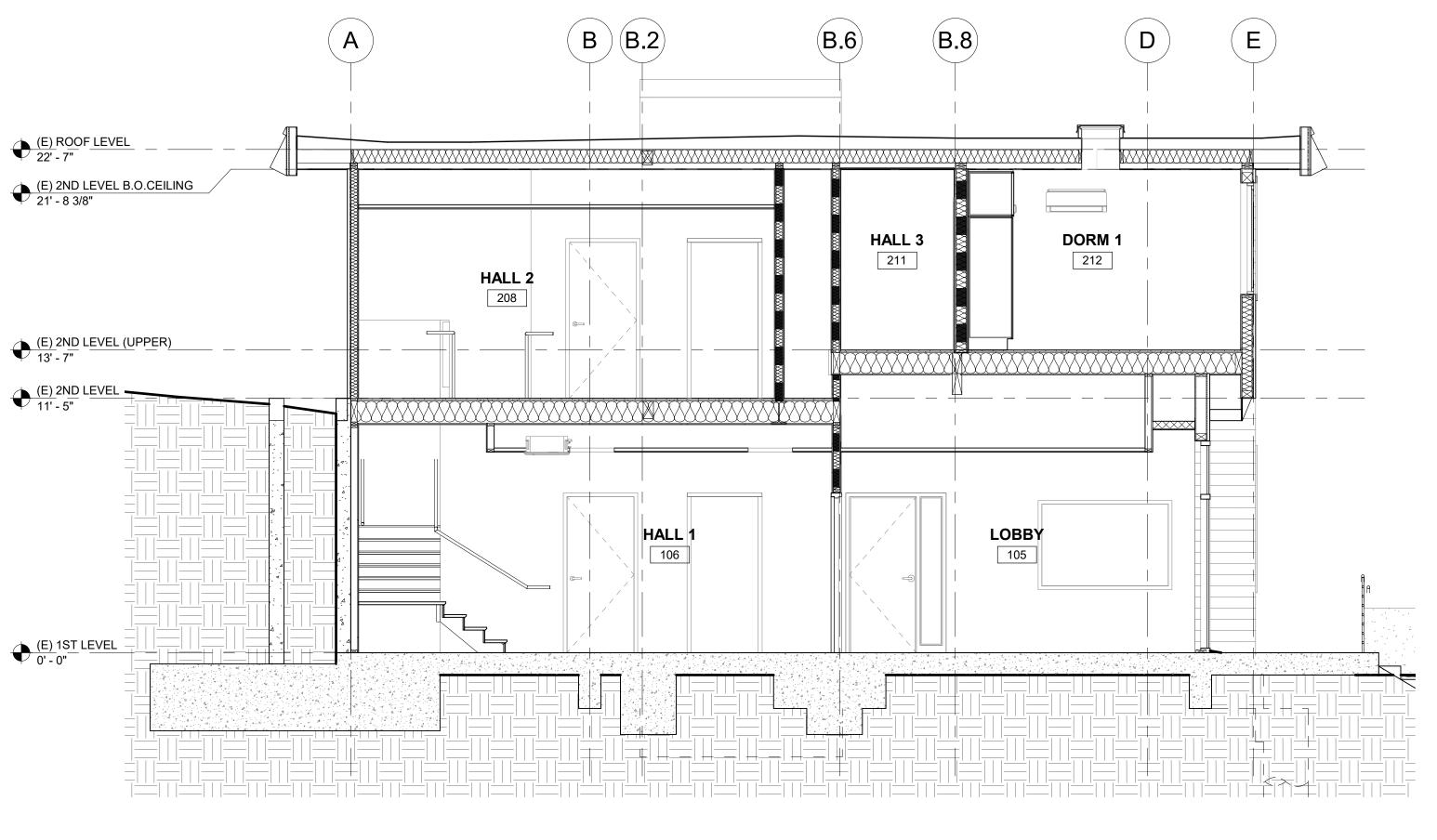
EXTERIOR ELEVATIONS - NORTH



A304

EXISTING (DEMOLITION) NORTH ELEVATION
SCALE: 1/4" = 1'-0"





MARJANG ARCHITECTURE



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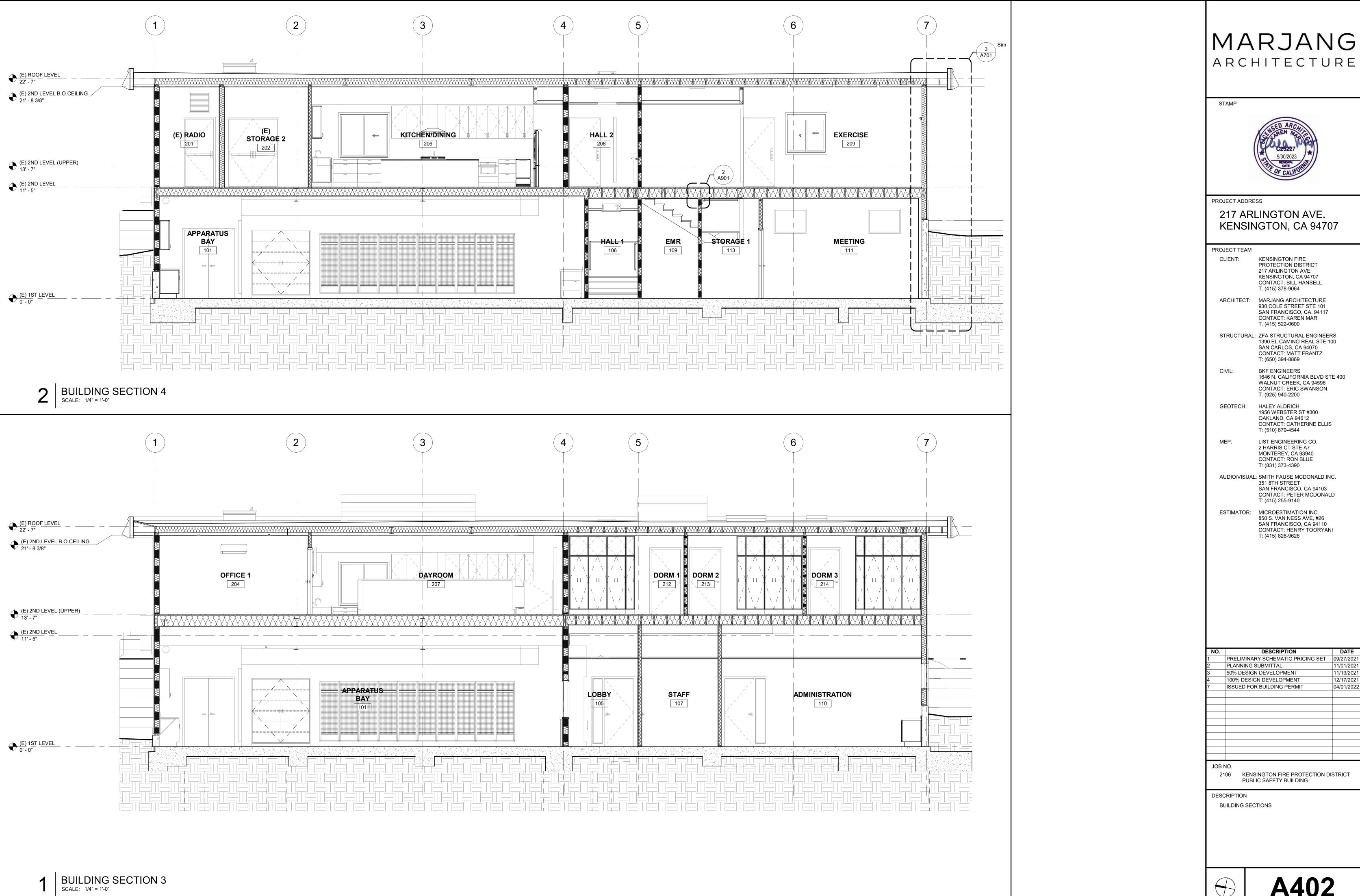
NO.	DESCRIPTION	DATE
	PRELIMINARY SCHEMATIC PRICING SET	09/27/202
	PLANNING SUBMITTAL	11/01/202
}	50% DESIGN DEVELOPMENT	11/19/202
	100% DESIGN DEVELOPMENT	12/17/202
,	ISSUED FOR BUILDING PERMIT	04/01/2022
	·	

2106 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

BUILDING SECTIONS





ARCHITECTURE

09/27/2021 11/01/2021 11/19/2021 12/17/2021 04/01/2022

	DOOR SCHEDULE															
DOOR	DOOR PHASE FIRE		SIZE				DOOR		FRAME		DETAILS					
NO.	LOCATION	CREATED	HW SET		TYPE	WIDTH	HEIGHT	THICK	MAT'L	FINISH	MAT'L	FINISH	HEAD	JAMB	THRESHOL	D REMARK
			•	1		<u>'</u>		1						'	'	
101A	APPARATUS BAY	New Construction		20 MIN	С	3' - 0"	7' - 0"	0' - 1 3/4"	НМ	PAINTED	HM	PAINTED	7/A903	8/A903	7/A903	PROVIDE SMOKE GASKET
101B	APPARATUS BAY	New Construction			F	12' - 0"	10' - 3"	0' - 0"	METAL	MNFR PAINT	METAL	MNFR PAINT	6/A802	1/A802		CONFIRM MAXIMUM HEIGHT FOR DOOR OPENING + COILING ENCLOSURE
101C	APPARATUS BAY	New Construction			F	12' - 0"	10' - 3"	0' - 0"	METAL	MNFR PAINT	METAL	MNFR PAINT	6/A802	1/A802		CONFIRM MAXIMUM HEIGHT FOR DOOR OPENING + COILING ENCLOSURE
101D	APPARATUS BAY	New Construction			F	12' - 0"	10' - 3"	0' - 0"	METAL	MNFR PAINT	METAL	MNFR PAINT	6/A802	1/A802		CONFIRM MAXIMUM HEIGHT FOR DOOR OPENING + COILING ENCLOSURE
101E	APPARATUS BAY	New Construction		20 MIN	Α	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINTED	HM	PAINTED	6/A801	4/A801	5/A801	NON-COMBUSTIBLE SOLID CORE EXTERIOR GRADE PER WUI REQUIREMENTS. PROVIDE LOUVER PER MECHANICAL DRAWINGS
102A	COMPRESSOR	New Construction			D	5' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINTED	HM	PAINTED	7/A903	8/A903	7/A903	
105A	LOBBY	New Construction		20 MIN	F	3' - 0"	6' - 10 3/4"	0' - 1 3/4"	ALUMINUM	DARK BRONZE ANOD.	ALUMINUM	DARK BRONZE ANOD.				PART OF STOREFRONT WINDOW SYSTEM. INSULATED, LOW-E, TEMPERED SAFETY GLAZING AT LITE
106A	HALL 1	New Construction		20 MIN	С	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	7/A903	8/A903	7/A903	
107A	STAFF	New Construction			С	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	5/A903	6/A903		
109A	EMR	New Construction		20 MIN	Α	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	7/A903	8/A903	7/A903	
110A	ADMINISTRATION	New Construction			С	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	5/A903	6/A903		
111A	MEETING/E.O.C.	New Construction			С	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	5/A903	6/A903		
112A	RESTROOM	New Construction			Α	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	5/A903	6/A903		
113A	STORAGE	New Construction			D	6' - 0"	7' - 0"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	5/A903	6/A903		
201A	(E) RADIO	Existing		20 MIN	Α	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINTED	HM	PAINTED	6/A801	4/A801	5/A801	
202A	(E) STORAGE	Existing		20 MIN	D	5' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINTED	HM	PAINTED	6/A801	4/A801	5/A801	
202B	(E) STORAGE	Existing				3' - 0"	1' - 0 5/8"									ROOF HATCH
203A	(E) IT/ELEC	Existing				0' - 0"	0' - 0"									REMOVE DOOR AT (E) OPENING, LEAVE HM FRAME
204A	OFFICE 1	New Construction			С	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	5/A903	6/A903		
205A	CAPTAIN'S OFFICE	New Construction			С	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	5/A903	6/A903		
208A	HALL 2	New Construction		20 MIN	Α	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINTED	HM	PAINTED	6/A801	4/A801	5/A801	
209A	EXERCISE	New Construction		20 MIN	Α	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINTED	HM	PAINTED	6/A801	4/A801	5/A801	
209B	EXERCISE	New Construction			В	3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	5/A903	6/A903		
211A	HALL 3	New Construction		20 MIN	С	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	7/A903	8/A903	7/A903	
212A	DORM 2	New Construction		20 MIN	Α	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	7/A903	8/A903	7/A903	
213A	DORM 2	New Construction		20 MIN	Α	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	7/A903	8/A903	7/A903	
214A	DORM 3	New Construction		20 MIN	Α	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	7/A903	8/A903	7/A903	
215A	BATH 1	New Construction		20 MIN	Α	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	7/A903	8/A903	7/A903	
216A	BATH 2	New Construction		20 MIN	Α	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	7/A903	8/A903	7/A903	
217A	LAUNDRY	New Construction		20 MIN	Α	3' - 0"	6' - 8"	0' - 1 3/4"	WOOD	CLEAR COAT	HM	PAINTED	7/A903	8/A903	7/A903	LOUVERED

PAINTED

DOOR TYPICAL NOTES

- 1. SQUARE PROFILE FOR ALL GLAZING STOPS, NO OGEE OR CURVED PROFILES. IF GLAZED FROM EXTERIOR SIDE, GLAZING STOPS TO BE SLOPED MIN. 1/4" PER FT TO SHED WATER.
- 2. ALL GLASS TO BE TEMPERED.
- 3. ALL SIZES ARE FOR APPROXIMATE FOR PRICING, GC TO CONFIRM ACTUAL SIZE AND ROUGH OPENING PRIOR TO PLACING ORDER OR FABRICATION.
- 4. NOTE RAIL AND STILE DIMENSIONS, AND FABRICATE ACCORDINGLY.
- 5. CONFIRM BACKSET DIMENSIONS OF LEVERSETS AND LOCKSETS BEFORE
- 6. 5/16" MAX UNDERCUT @ DOOR BOTTOMS. UNDERCUT ONLY AT CARPETED AREAS. UNDERCUT DOORS ARE IDENTIFIED IN DOOR SCHEDULE.

TYPE G

OVERHEAD COILING ROLL-UP DOOR

OVERHEAD COILING

VALENCE, CONFIRM

LOCATION. PROVIDE

TRACK MOUNTED AT

BACK OF WALL OPENING

CONTROLLER

MANUAL CHAIN

- SLATS PER SPEC



MARJANG

ARCHITECTURE

PROJECT ADDRESS

STAMP

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT	TFA
111000001	1

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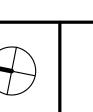
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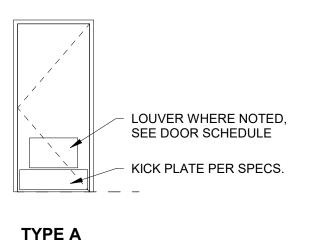
JOB NO.

2106 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

DOOR SCHEDULE

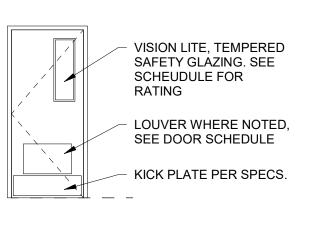




SINGLE FLUSH

New Construction

218A STORAGE

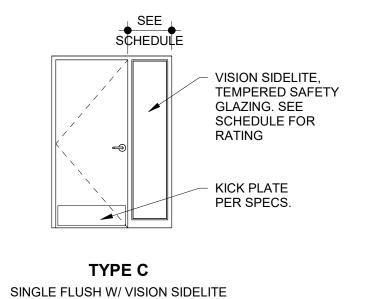


TYPE B

SINGLE FLUSH W/ VISION LITE

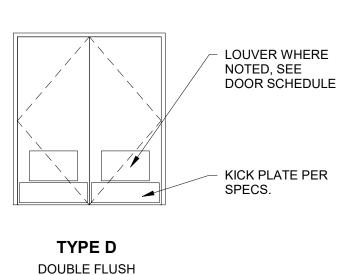
0' - 1 3/4"

WOOD



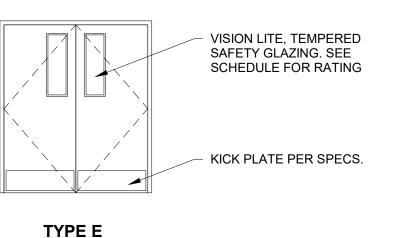
CLEAR COAT

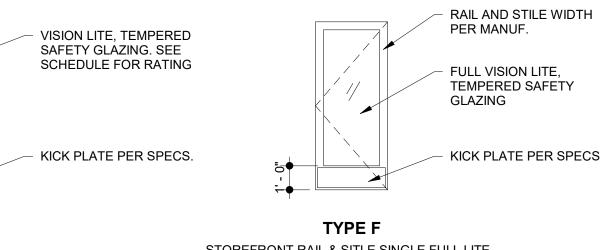
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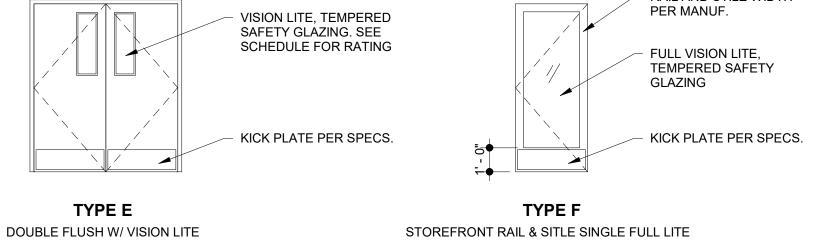


5/A903

6/A903

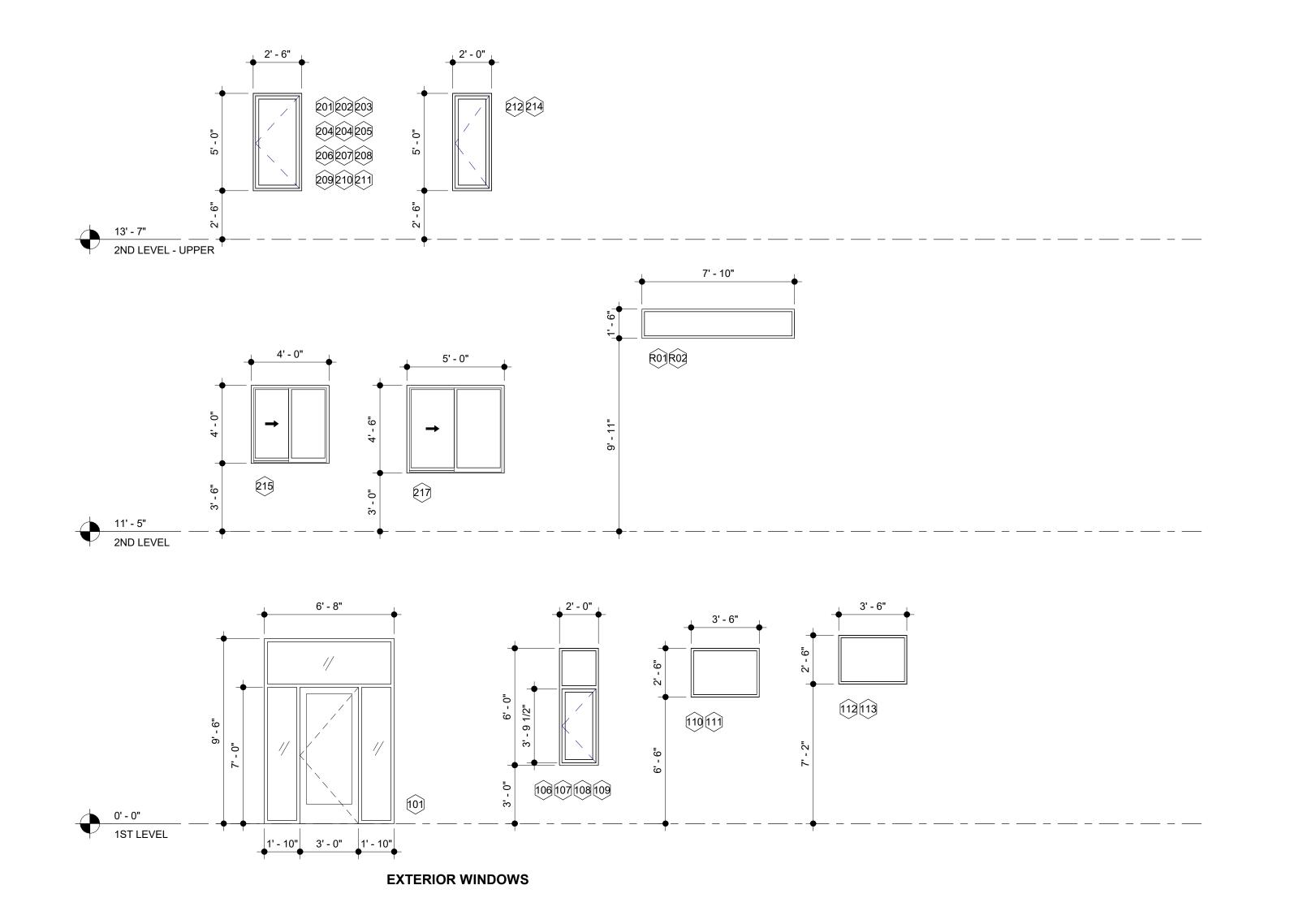




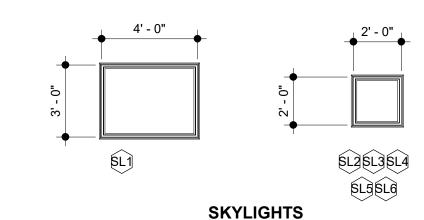


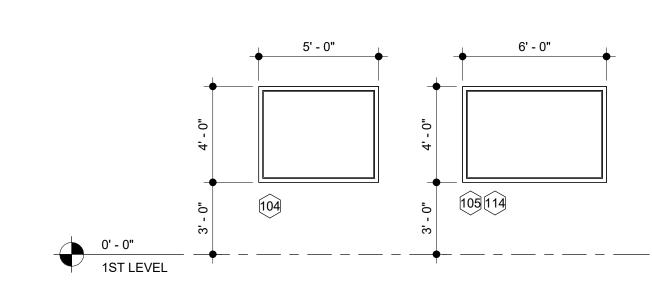
TEMPERED, INSULATED, LOW-E

MATCH (E)



6' - 8" 9' - 6" VIF BRONZE ANOD. ALUM





INTERIOR WINDOWS

WINDOW TYPICAL NOTES

1. ALL GLASS TO BE LOW-E, INSULATED, TEMPERED SAFETY GLAZING W/ BUG VISIBLE. 2. ALL WINDOWS HAVE MANUFACTURER'S U-FACTOR LISTING (T24 CALCULATION SHOW ENERGY COMPLIANCE OVER MINIMUM 0.40 REQUIRED).

3. ALL SIZES ARE APPROXIMATE FOR PRICING, GC TO CONFIRM ACTUAL SIZE AND ROUGH OPENING PRIOR TO PLACING ORDER OR FABRICATION.

MARJANG ARCHITECTURE

STAMP



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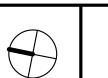
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2106 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

WINDOW SCHEDULE



A502

EXTERIOR STOREFRONT WINDOW WALL SYSTEM

101 LOBBY

FINISH SCHEDULE								
ROOM NO.	NAME	FLOOR FINISH	WALL FINISH	BASE FINISH	CEILING FINISH	COMMENTS		
			1	1				
101	APPARATUS BAY	SC-1	GB-2, P-2, PH-1	CB-1	GB-2, P-2	PH-1: 8'-0" H WALL PANEL		
102	COMPRESSOR	SC-1	GB-2, P-2, PH-1	CB-1	GB-2, P-2	PH-1: 8'-0" H WALL PANEL		
105	LOBBY	PC-1	GB-1, P-1, FRL-1		ACT-1	FRL-1: 3'-0"H WAINSCOAT		
106	HALL 1	PC-1	GB-1, P-1, FRL-1		ACT-1	FRL-1: 3'-0"H WAINSCOAT		
107	STAFF	CP-2	GB-1, P-1	RB-1	ACT-1			
108	ELEVATOR	SC-1	GB-1	N/A	GB-1			
109	EMR	PC-1	GB-1, P-1	RB-1	GB-1, P-1			
110	ADMINISTRATION	CP-2	GB-1, P-1, TS-1	RB-1	ACT-1			
111	MEETING	CP-2	GB-1, P-1, TS-1	RB-1	ACT-1, GB-1, P-1			
112	RESTROOM	TL-3	TL-1	TL-1 COVED	GB-2, P-2			
113	STORAGE 1	CP-2	GB-1, P-1	RB-1	GB-1, P-1			
201	(E) RADIO	SDT-1	GB-1, P-2	RB-1	GB-1, P-2			
202	(E) STORAGE 2	SDT-1	GB-1, P-2, FRL-1	RB-1	GB-1, P-2	FRL-1: 3'-0"H WAINSCOAT		
203	(E) IT/ELEC	SDT-1	GB-1, P-2	RB-1	GB-1, P-2			
204	OFFICE 1	CP-1	GB-1, P-1, TS-1	RB-1	GB-1, P-1			
205	CAPTAIN'S OFFICE	CP-1	GB-1, P-1, TS-1	RB-1	GB-1, P-1			
206	KITCHEN/DINING	RF-1	GB-2, P-2	RB-1	GB-2, P-2			
207	DAYROOM	CP-1	GB-1, P-1	RB-1	GB-1, P-1			
208	HALL 2	RF-1	GB-1, P-2, FRL-1	RB-1	ACT-1, GB-1, P-2	FRL-1: 3'-0"H WAINSCOAT		
209	EXERCISE	RR-1	GB-2, P-2, M-1	RB-1	ACT-1, GB-1, P-2			
210	ELEVATOR		GB-1		GB-1			
211	HALL 3	CP-1	GB-1, P-2, FRL-1	RB-1	GB-1, P-2	FRL-1: 3'-0"H WAINSCOAT		
212	DORM 1	CP-1	GB-1, P-1	RB-1	GB-1, P-1			
213	DORM 2	CP-1	GB-1, P-1	RB-1	GB-1, P-1			
214	DORM 3	CP-1	GB-1, P-1	RB-1	GB-1, P-1			
215	LAUNDRY	TL-3	GB-2, P-2	RB-1	GB-2, P-2			
216	ADA BATH 2	TL-3	TL-1, TL-2	TL-1 COVED	GB-2, P-2			
217	BATH 1	RF-1	TL-1, TL-2	TL-1 COVED	GB-2, P-2			
218	STORAGE 3	RF-1	GB-1, P-2	RB-1	GB-1, P-2			

INTERIOR FINISH MATERIALS:

FLOOR

- PC-1 DENSIFIED POLISHED SEALED CONCRETE SPECIFICATION: 03 35 11

 MFR: ADVANCED FLOOR PRODUCTS SYSTEM: THE RETROPLATE SYSTEM SEE SPECIFICATIONS
- SC-1 SEALED CONCRETE
 SPECIFICATION: 03 35 11
 MFR: ADVANCED FLOOR PRODUCTS
 SYSTEM: RETROPEL
 SEE SPECIFICATION
- SDT-1 STATIC DISSIPATIVE TILE 1/8" SPECIFICATION: 09 65 00 MFR: ROPPE TYPE: ESD CONTROL SIZE: 24" X 24" COLOR: TBD
- RR-1 RESILIENT ATHLETIC FLOORING SPECIFICATION: 09 65 00 MFR: ROPPE TYPE: RECOIL FITNESS FLOORING SIZE: 36" X 36" X 1/2" COLOR: TBD
- RF-1 RESILIENT FLOORING
 SPECIFICATION: 09 65 00
 MFR: PARTERRE
 TYPE: INGRAINED LUXURY VINYL PLANK
 SIZE: 6" X 36" X 3MM
 COLOR: EXOTIC WALNUT
- RF-2 RESILIENT FLOORING STAIR TREAD & RISER SPECIFICATION: 09 65 00
 MFR: ROPPE
 TYPE: RUBBER RAISED TREAD, HEAVY DUTY,
 ABBRASIVE CONTRASTING STRIP,
 WITH RISER
 NOSE: SQUARE
- CP-1 CARPET TILE
 SPECIFICATION: 09 68 00
 MFR: SHAW
 TYPE: PATCRAFT ARTEFACT
 SIZE: PLANK
 COLOR: TBD

INSTALLATION: ASHLAR

SIZE: VIF

COLOR: TBD

CP-2 CARPET TILE
SPECIFICATION: 09 68 00
MFR: TBD
SIZE:
COLOR:
INSTALLATION:

INSTALLATION:

TL-3 PORCELAIN TILE FLOORING SPECIFICATION: 09 30 00 MFR: TBD SIZE: COLOR:

WALL

- GB-1 GYPSUM BOARD SPECIFICATION: 09 29 00 FINISH: LEVEL 5
- GB-2 GYPSUM BOARD MOISTURE RESISTANT SPECIFICATION: 09 29 00 FINISH: LEVEL 5

BASE

RB-1 RESILIENT BASE

COLOR:

HEIGHT:

STYLE:

COLOR:

HEIGHT:

CB-1 CONCRETE CURB

SEALED

MFR: TARKETT

STYLE: WALL BASE

RB-2 RESILIENT BASE - COVED

MFR: TARKETT

SPECIFICATION: 09 65 00.C

SPECIFICATION" 09 65 00.C

SPECIFICATION: 03 00 00.B

SEE SPECIFICATION

- P-1 INTERIOR PAINT LOW VOC SPECIFICATION: 09 91 23 MFR: FINISH: EGG SHELL COLOR: TBD
- P-2 INTERIOR PAINT LOW VOC SPECIFICATION: 09 91 23 MFR: FINISH: SEMI-GLOSS COLOR: TBD
- P-3 INTERIOR PAINT METAL COATING LOW VOC STANDARD PERFORMANCE ON SHOP PRIMED METAL SPECIFICATION: 09 91 23 MFR: FINISH: SEMI-GLOSS (METAL COATING) COLOR: TBD
- P-4 INTERIOR PAINT METAL COATING LOW VOC PREMIUM PERFORMANCE ON SHOP PRIMED EXPOSED STRUCTURAL STEEL SPECIFICATION: 09 91 23 MFR: FINISH: SEMI-GLOSS (METAL COATING)
- COLOR: TBD

 TL-1 PORCELAIN WALL TILE:
 SPECIFICATION: 09 30 00.A
 MFR: TBD
 SERIES:
 SIZE:
 TRIM: BULLNOSE & OTHER WHERE REQUIRED

COLOR: TBD

- TL-2 PORCELAIN WALL TILE:
 SPECIFICATION: 09 30 00.A
 MFR:
 SERIES:
 SIZE:
 TRIM: BULLNOSE & OTHERS WHERE REQUIRED
 COLOR: TBD
- PH-1 THICK PHENOLIC CORE LAMINATE PANELS SPECIFICATION: 09 77 10.A MFR: NEVAMAR THICKLAM TYPE: CLASS A FINISH: HPL SILVERLINE HAUTE PANEL SIZE: 4'-0" X 8'-0" X .18"
- FRL-1 FIBER REINFORCED LAMINATE PANELS SPECIFICATION: 09 77 10.B MFR: NEVAMAR FRL TYPE: CLASS A FINISH: TBD PANEL SIZE: 3'-0" X 8'-0" X.125" THK

CEILING

- GB-1 GYPSUM BOARD CEILING SPECIFICATION: 09 29 00.A FINISH: LEVEL 5
- GB-2 GYPSUM BOARD MOISTURE RESISTANT SPECIFICATION: 09 29 00 FINISH: LEVEL 5
- ACT-1 ACOUSTIC CEILING TILE SPECIFICATION: 09 51 23 MFR: ROCKFON SIZE: 2'-0" X 4'-0" EDGE: SQUARE TEGULAR COLOR: WHITE

MISC.

- BL-1 ROLL DOWN BLINDS SPECIFICATION: 12 21 23 PRODUCT NAME: COLOR:
- TS-1 TACKABLE SURFACE
 SPECIFICATION: 10 11 00.B
 MFR:
 TYPE:
 SEE SPECIFICATION
- M-1 MIRROR SPECIFICATION: 08 83 00.A

CASEWORK

- CT-1 STAINLESS STEEL COUNTERTOP AND BACKSPLASH SPECIFICATION: 05 59 00 SEE SPECIFICATION
- CT-2 HIGH PRESSURE PLASTIC LAMINATE CLAD COUNTERTOP SPECIFICATION: 12 36 23 MFR: WILSONART TYPE: TRACELESS COLOR: TBD
- CT-3 BUTCHER BLOCK COUNTERTOPS SPECIFICATION: 12 36 19 MFR: JOHN BOOS @ CO. OR EQUAL TYPE: HARD ROCK MAPLE W/ CLEAR SEALER SIZE: 3" THK
- HPL-1 CABINET FACE HIGH PRESSURE LAMINATE SPECIFICATION: 12 36 61 MFR: WILSONART TYPE: TRACELESS COLOR: TBD

EDGE BANDING: MATCH

- HPL-2 CABINET FACE HIGH PRESSURE LAMINATE SPECIFICATION: 12 36 61 MFR: WILSONART TYPE: TRACELESS COLOR: TBD EDGE BANDING: MATCH
- HPL-3 CABINET FACE HIGH PRESSURE LAMINATE SPECIFICATION: 12 36 61 MFR: WILSONART TYPE: TRACELESS COLOR: TBD EDGE BANDING: MATCH
- HPL-4 CABINET FACE HIGH PRESSURE LAMINATE SPECIFICATION: 12 36 61
 MFR: WILSONART
 TYPE: TRACELESS
 COLOR: TBD
 EDGE BANDING: MATCH
- ML-1 MELAMINE INTERIOR CABINET FACE
 MFR: TBD
 FINISH: COMMERCIAL GRADE MELAMINE (NON VOC)
 COLOR: TBD

MARJANG

STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

CIVIL:

CLIENT: KENSINGTON FIRE
PROTECTION DISTRICT
217 ARLINGTON AVE
KENSINGTON, CA 94707
CONTACT: BILL HANSELL
T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE
930 COLE STREET STE 101
SAN FRANCISCO, CA. 94117

CONTACT: KAREN MAR
T. (415) 522-0600

STRUCTURAL: ZFA STRUCTURAL ENGINEERS

1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANTZ T: (650) 394-8869

> BKF ENGINEERS 1646 N. CALIFORNIA BLVD STE 400 WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON

GEOTECH: HALEY ALDRICH
1956 WEBSTER ST #300
OAKLAND, CA 94612
CONTACT: CATHERINE ELLIS

T: (925) 940-2200

T: (510) 879-4544

P: LIST ENGINEERING CO.
2 HARRIS CT STE A7
MONTEREY, CA 93940

T: (831) 373-4390

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC.
351 8TH STREET

SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD T: (415) 255-9140

CONTACT: RON BLUE

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

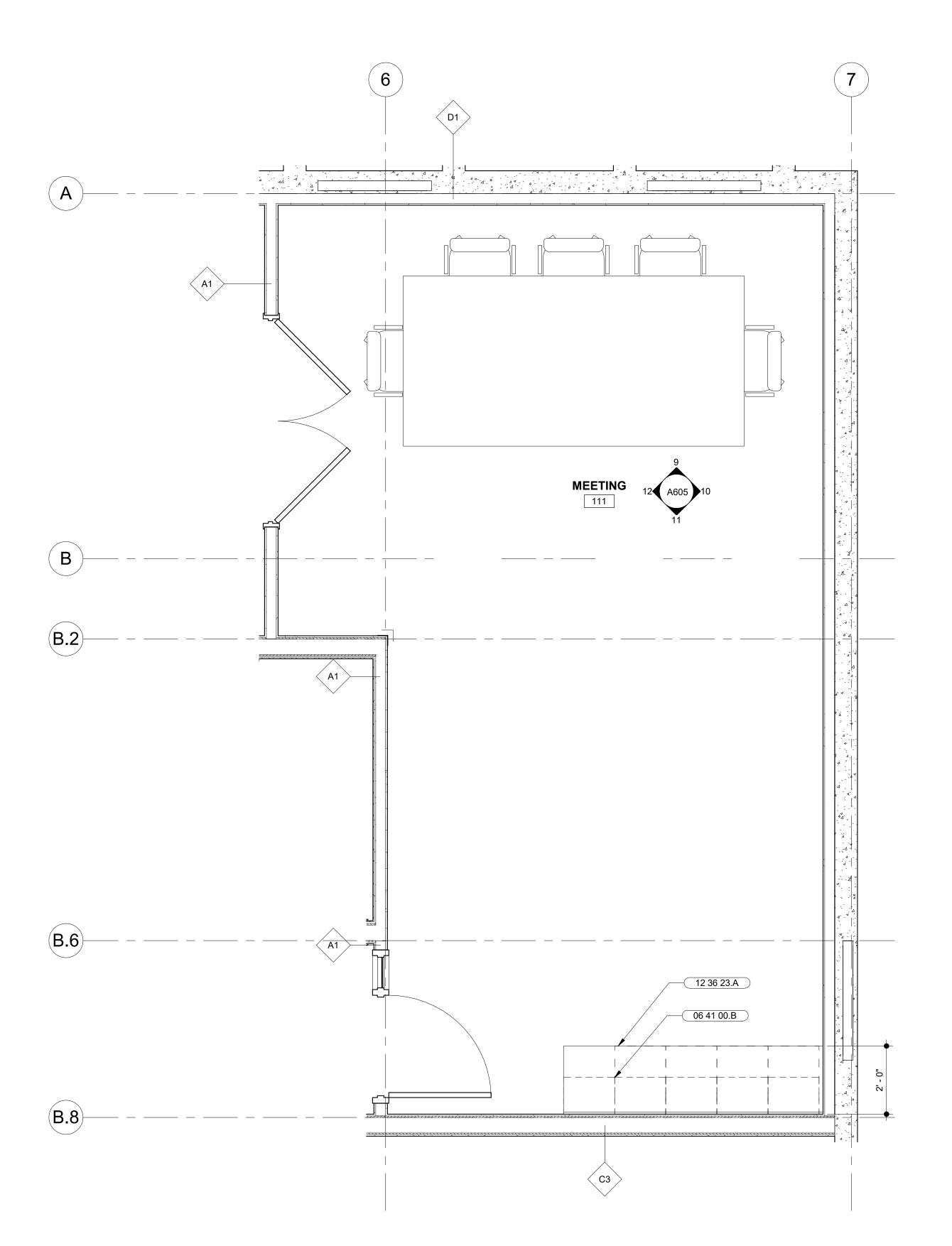
NO.	DESCRIPTION	DATE
1	PRELIMINARY SCHEMATIC PRICING SET	09/27/20
3	50% DESIGN DEVELOPMENT	11/19/20
4	100% DESIGN DEVELOPMENT	12/17/20
7	ISSUED FOR BUILDING PERMIT	04/01/20

PUBLIC SAFETY BUILDING

2106 KENSINGTON FIRE PROTECTION DISTRICT

DESCRIPTION
FINISH SCHEDULE





SHEET NOTES

1. ALL DIMENSIONS ARE TO FACE OF FINISH FOR REQUIRED CLEARANCES, U.O.N.

2. ALL SINKS AND COUNTERS MUST MEET THE ACCESSIBILITY REQUIREMENTS OF THE 2019 CBC CHAPTER 11B AS DETERMINED BY THE AUTHORITY HAVING JURISDICTION.

3. FOR ACCESSIBLE TOILET ACCESSORIES, TOILET MOUNTING,
WATER CLOSET CLEARANCES, AND SHOWER CLEARANCES, SEE

WATER CLOSET CLEARANCES, AND SHOWER CLEARANCES, SEE A012.

4. PROVIDE BACKING AS REQUIRED FOR ALL WALL MOUNTED EQUIPMENT, CABINETS AND ACCESSORIES. SEE BACKING DETAIL 3/A902.

5. REFER TO APPLIANCE SCHEDULE FOR APPLIANCES, SEE A7XX6. CONTRACTOR TO VERIFY DIMENSIONS OF APPLIANCES, FIXTURES,

7. REFER TO FINISH SCHEDULE FOR FINISH MATERIALS, SEE A503

8. VERIFY TILE LAYOUT AND JOINTS WITH ARCHITECT PRIOR TO INSTALLATION.

AND EQUIPMENT PRIOR TO CASEWORK FABRICATION. TYPICAL.

9. FFE SHOWN FOR REFERENCE, OFCI

KEYNOTES

06 41 00.B UPPER CABINETS, DOORS, AND ADJUSTABLE SHELVES 12 36 23.A PLASTIC LAMINATE COUNTERTOPS

MARJANG

STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

CLIENT:

KENSINGTON FIRE
PROTECTION DISTRICT
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2 HARRIS CT STE A7 MONTEREY, CA 93940

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ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

NO. DESCRIPTION DATE

3 50% DESIGN DEVELOPMENT 11/19/2021

4 100% DESIGN DEVELOPMENT 12/17/2021

7 ISSUED FOR BUILDING PERMIT 04/01/2022

JOB NO.

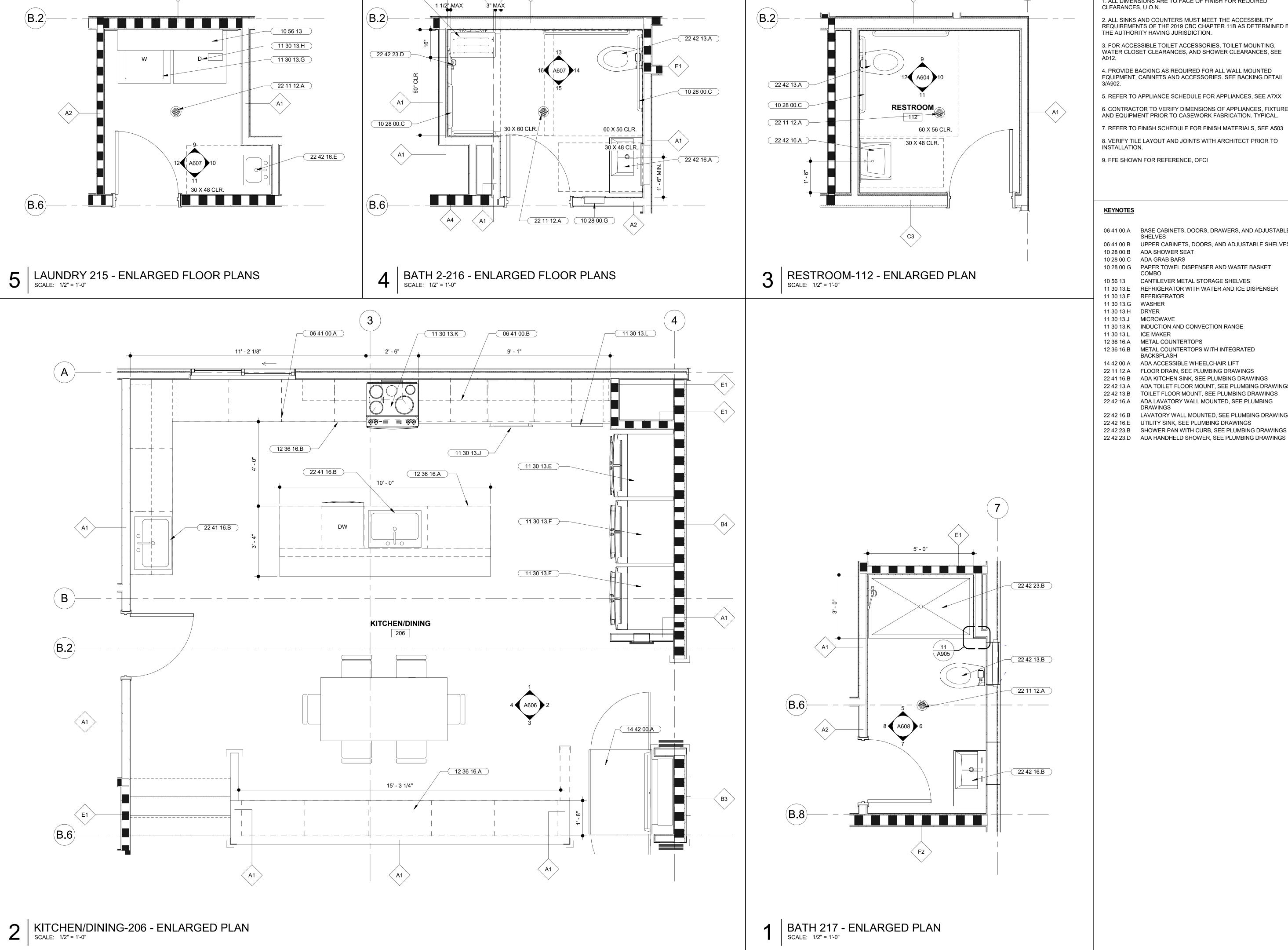
2106 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

ENLARGED PLAN & INTERIOR ELEVATIONS



4601



(B3)

10 28 00.B

SHEET NOTES

1. ALL DIMENSIONS ARE TO FACE OF FINISH FOR REQUIRED CLEARANCES, U.O.N.

2. ALL SINKS AND COUNTERS MUST MEET THE ACCESSIBILITY REQUIREMENTS OF THE 2019 CBC CHAPTER 11B AS DETERMINED BY

THE AUTHORITY HAVING JURISDICTION. 3. FOR ACCESSIBLE TOILET ACCESSORIES, TOILET MOUNTING, WATER CLOSET CLEARANCES, AND SHOWER CLEARANCES, SEE

4. PROVIDE BACKING AS REQUIRED FOR ALL WALL MOUNTED

EQUIPMENT, CABINETS AND ACCESSORIES. SEE BACKING DETAIL

5. REFER TO APPLIANCE SCHEDULE FOR APPLIANCES, SEE A7XX

6. CONTRACTOR TO VERIFY DIMENSIONS OF APPLIANCES, FIXTURES, AND EQUIPMENT PRIOR TO CASEWORK FABRICATION. TYPICAL.

7. REFER TO FINISH SCHEDULE FOR FINISH MATERIALS, SEE A503 8. VERIFY TILE LAYOUT AND JOINTS WITH ARCHITECT PRIOR TO INSTALLATION.

9. FFE SHOWN FOR REFERENCE, OFCI

06 41 00.A BASE CABINETS, DOORS, DRAWERS, AND ADJUSTABLE

SHELVES 06 41 00.B UPPER CABINETS, DOORS, AND ADJUSTABLE SHELVES

10 28 00.B ADA SHOWER SEAT

10 28 00.C ADA GRAB BARS

10 28 00.G PAPER TOWEL DISPENSER AND WASTE BASKET COMBO

CANTILEVER METAL STORAGE SHELVES 11 30 13.E REFRIGERATOR WITH WATER AND ICE DISPENSER

11 30 13.F REFRIGERATOR 11 30 13.G WASHER

11 30 13.H DRYER

11 30 13.J MICROWAVE

11 30 13.K INDUCTION AND CONVECTION RANGE 11 30 13.L ICE MAKER

12 36 16.A METAL COUNTERTOPS

12 36 16.B METAL COUNTERTOPS WITH INTEGRATED BACKSPLASH

14 42 00.A ADA ACCESSIBLE WHEELCHAIR LIFT

22 11 12.A FLOOR DRAIN, SEE PLUMBING DRAWINGS 22 41 16.B ADA KITCHEN SINK, SEE PLUMBING DRAWINGS

22 42 13.A ADA TOILET FLOOR MOUNT, SEE PLUMBING DRAWINGS 22 42 13.B TOILET FLOOR MOUNT, SEE PLUMBING DRAWINGS

22 42 16.A ADA LAVATORY WALL MOUNTED, SEE PLUMBING

22 42 16.B LAVATORY WALL MOUNTED, SEE PLUMBING DRAWINGS 22 42 16.E UTILITY SINK, SEE PLUMBING DRAWINGS

22 42 23.B SHOWER PAN WITH CURB, SEE PLUMBING DRAWINGS

MARJANG ARCHITECTURE

STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

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> 351 8TH STREET SAN FRANCISCO, CA 94103

CONTACT: PETER MCDONALD T: (415) 255-9140

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26

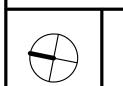
SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

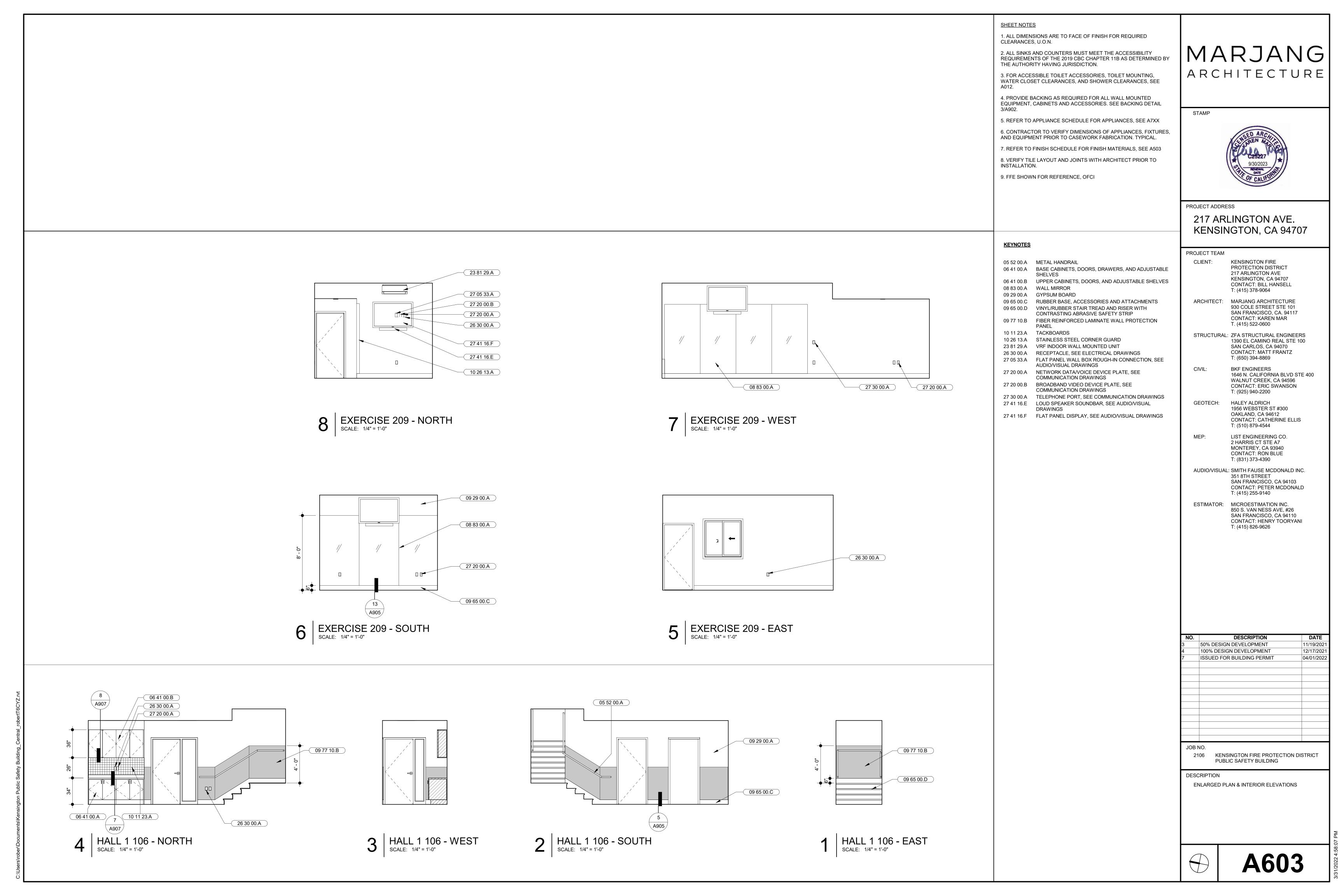
DESCRIPTION 50% DESIGN DEVELOPMENT 11/19/2021 100% DESIGN DEVELOPMENT 12/17/2021 ISSUED FOR BUILDING PERMIT 04/01/2022 JOB NO. 2106 KENSINGTON FIRE PROTECTION DISTRICT

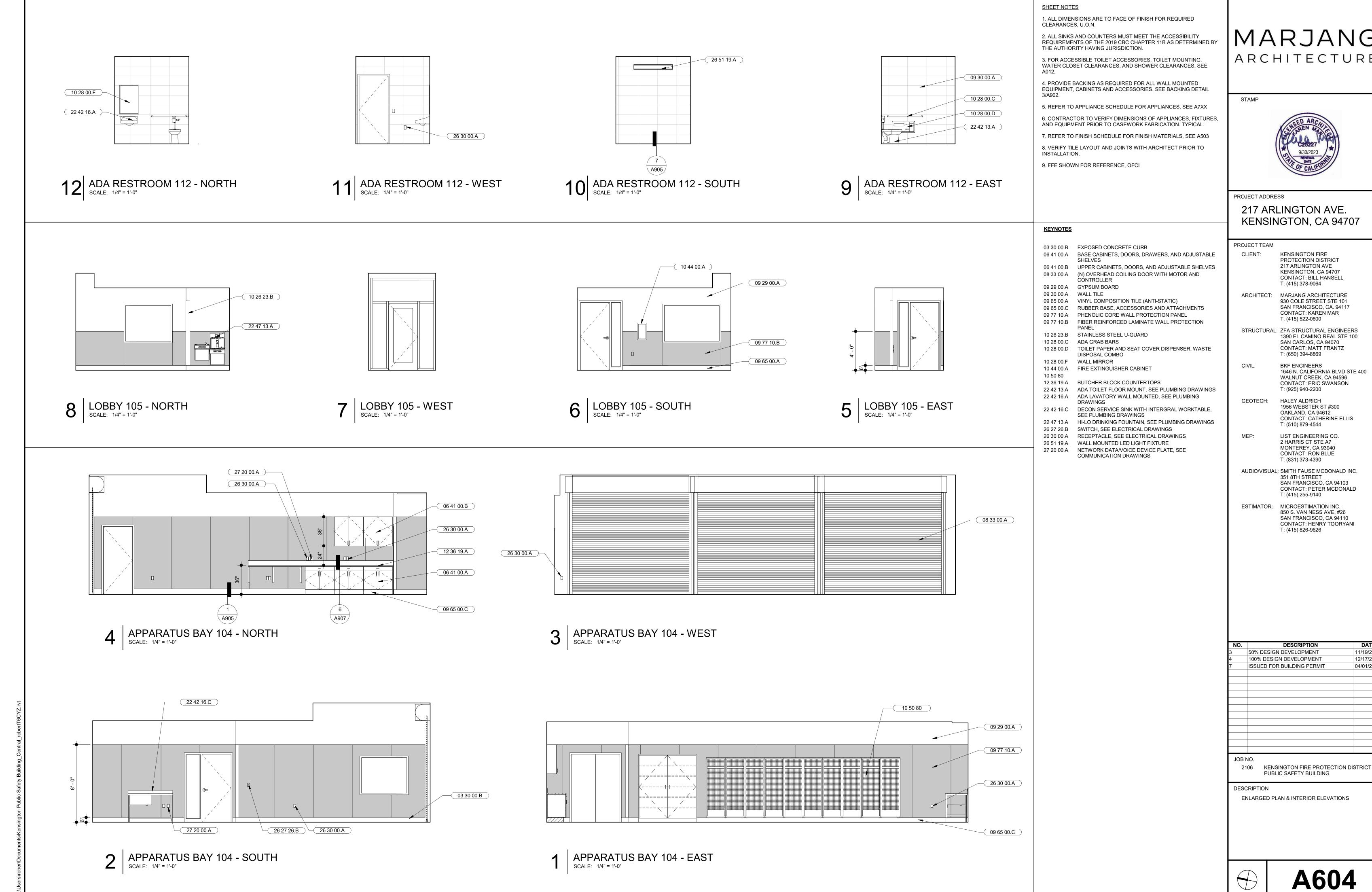
PUBLIC SAFETY BUILDING

DESCRIPTION

ENLARGED PLAN & INTERIOR ELEVATIONS







MARJANG ARCHITECTURE



217 ARLINGTON AVE. KENSINGTON, CA 94707

> KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

MARJANG ARCHITECTURE 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070

T: (650) 394-8869 **BKF ENGINEERS**

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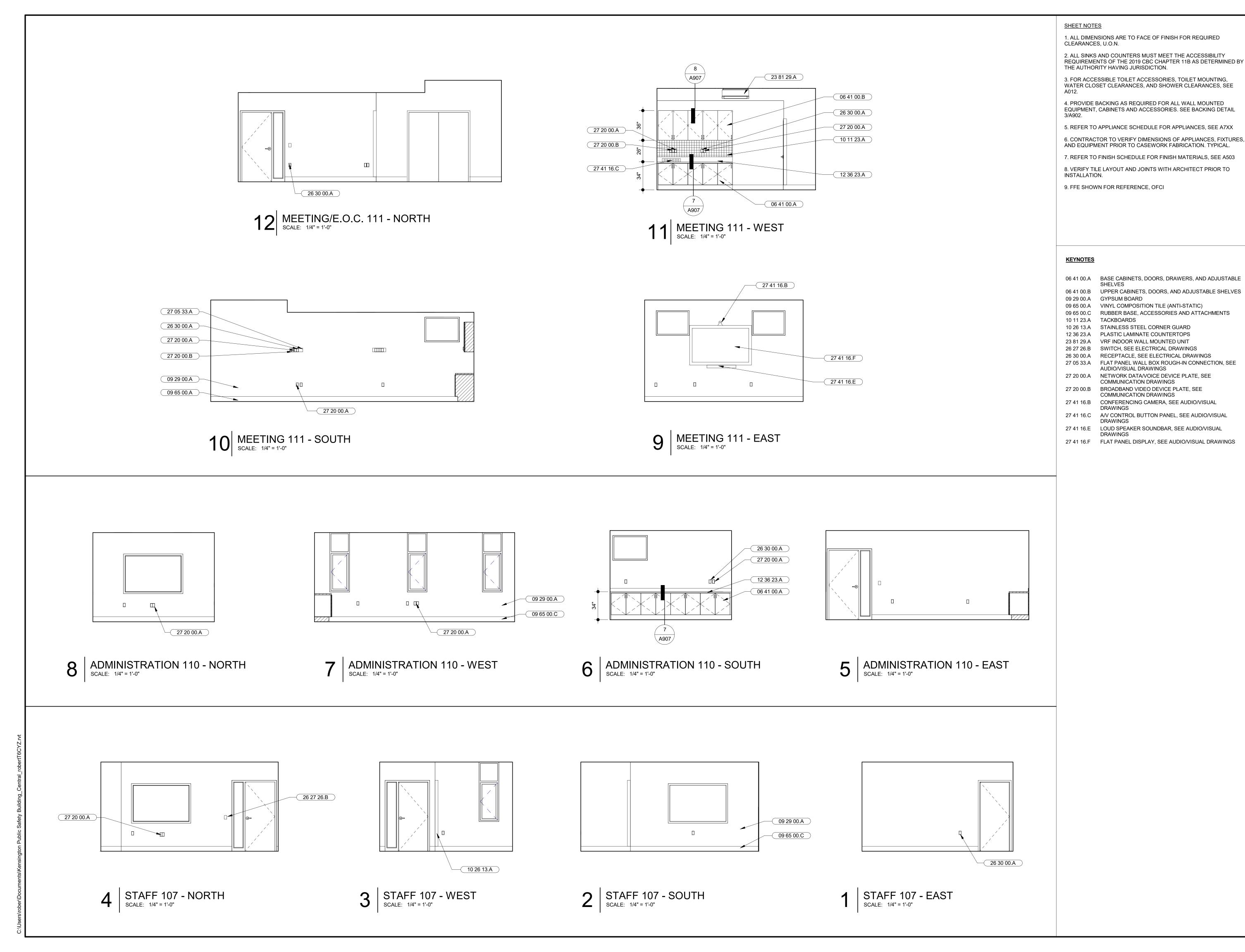
SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

50% DESIGN DEVELOPMENT 11/19/2021 100% DESIGN DEVELOPMENT 12/17/2021 ISSUED FOR BUILDING PERMIT 04/01/2022

PUBLIC SAFETY BUILDING

ENLARGED PLAN & INTERIOR ELEVATIONS





MARJANG ARCHITECTURE

STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

CLIENT: KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL

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ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR

T. (415) 522-0600 STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100

SAN CARLOS, CA 94070 CONTACT: MATT FRANTZ T: (650) 394-8869

1646 N. CALIFORNIA BLVD STE 400 WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200

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HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS

LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940

T: (510) 879-4544

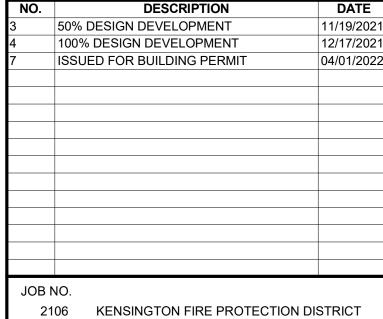
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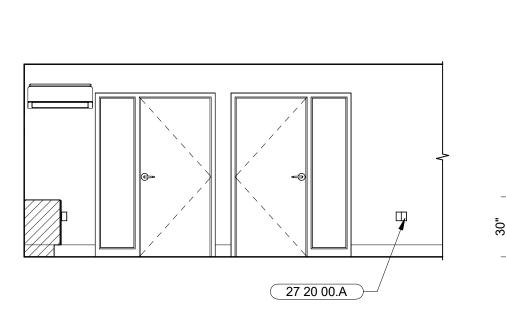
PUBLIC SAFETY BUILDING

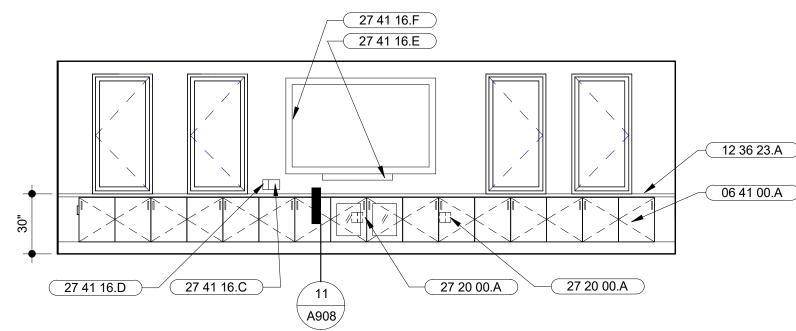
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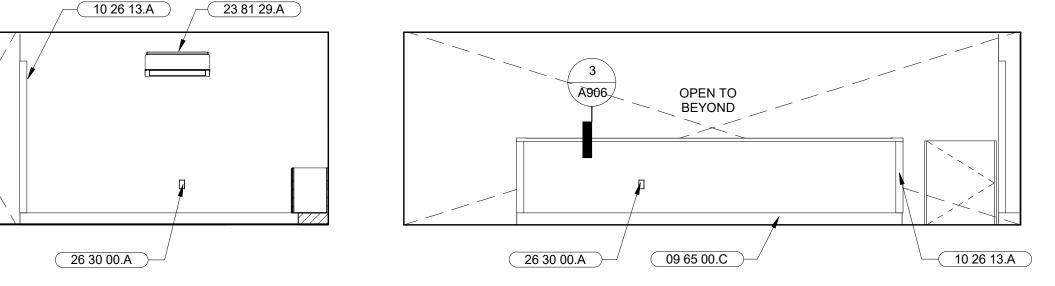
ENLARGED PLAN & INTERIOR ELEVATIONS



A605







12 DAYROOM 207 - NORTH SCALE: 1/4" = 1'-0"

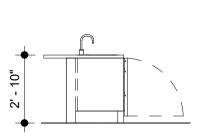
1 1 DAYROOM 207 - WEST

10 DAYROOM 207 - SOUTH SCALE: 1/4" = 1'-0"

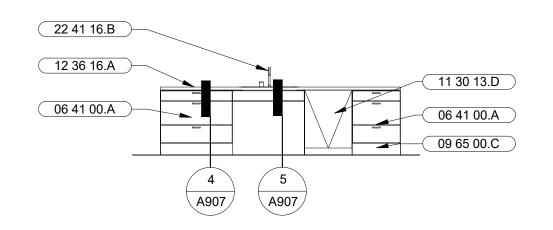
OPEN TO

BEYOND

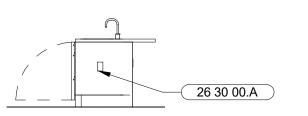
DAYROOM 207 - EAST SCALE: 1/4" = 1'-0"



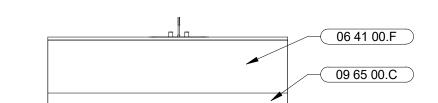
KITCHEN/DINING 206 - ISLAND NORTH SCALE: 1/4" = 1'-0"



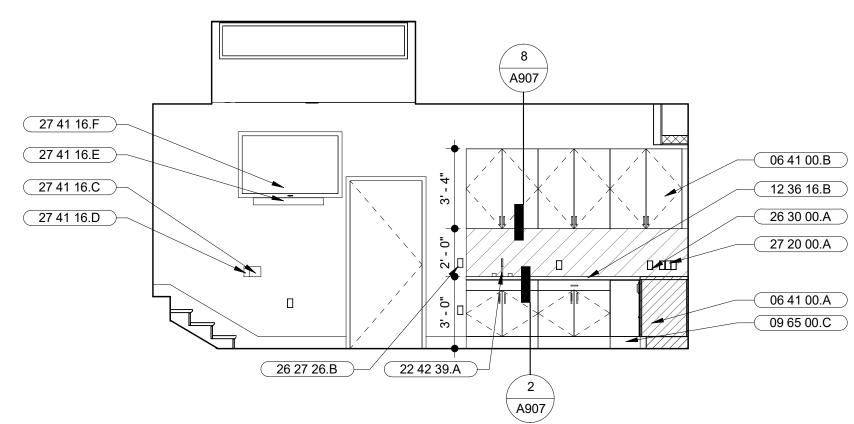
KITCHEN/DINING 206 - ISLAND WEST



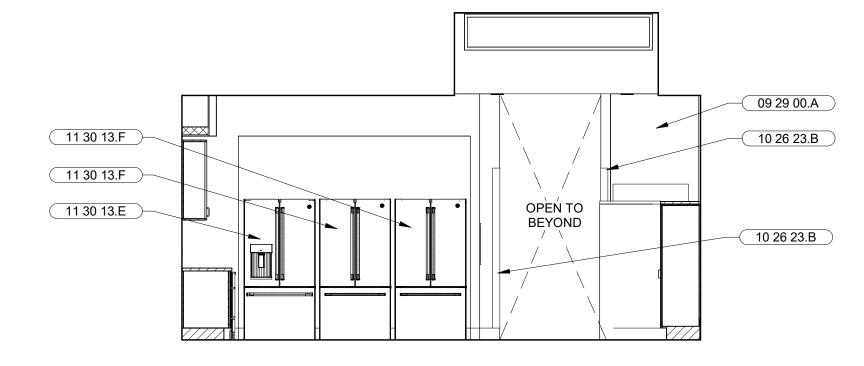
KITCHEN/DINING 206 - ISLAND SOUTH SCALE: 1/4" = 1'-0"



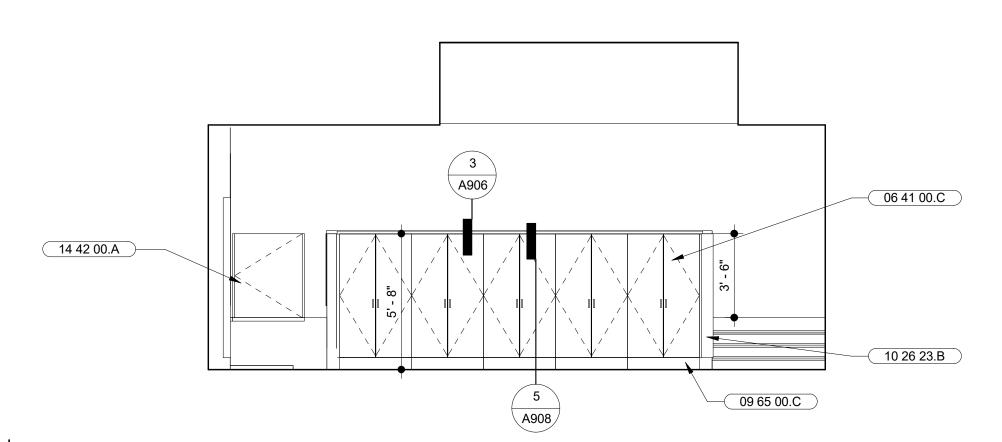
5 KITCHEN/DINING 206 - ISLAND EAST SCALE: 1/4" = 1'-0"



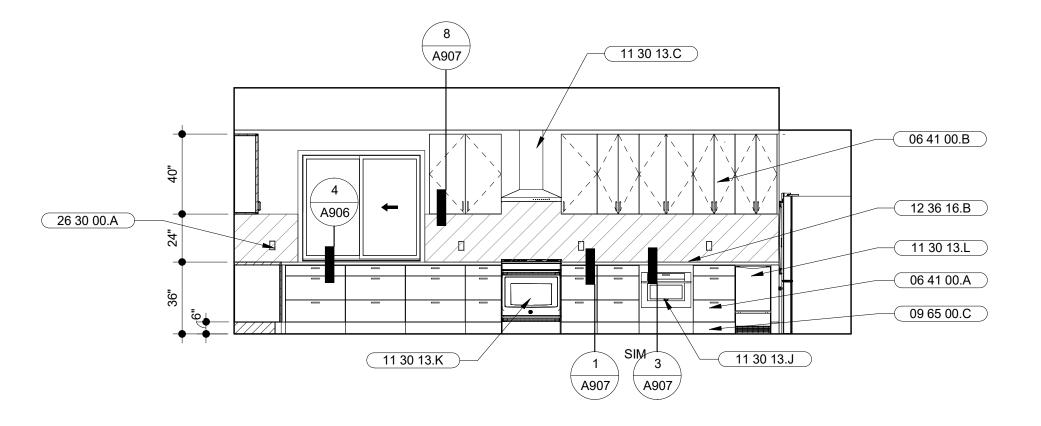
4 | KITCHEN/DINING 206 - NORTH SCALE: 1/4" = 1'-0"



KITCHEN/DINING 206 - SOUTH SCALE: 1/4" = 1'-0"



3 KITCHEN/DINING 206 - WEST SCALE: 1/4" = 1'-0"



KITCHEN/DINING 206 - EAST SCALE: 1/4" = 1'-0"

SHEET NOTES

1. ALL DIMENSIONS ARE TO FACE OF FINISH FOR REQUIRED CLEARANCES, U.O.N.

2. ALL SINKS AND COUNTERS MUST MEET THE ACCESSIBILITY REQUIREMENTS OF THE 2019 CBC CHAPTER 11B AS DETERMINED BY THE AUTHORITY HAVING JURISDICTION.

3. FOR ACCESSIBLE TOILET ACCESSORIES, TOILET MOUNTING, WATER CLOSET CLEARANCES, AND SHOWER CLEARANCES, SEE

4. PROVIDE BACKING AS REQUIRED FOR ALL WALL MOUNTED EQUIPMENT, CABINETS AND ACCESSORIES. SEE BACKING DETAIL

5. REFER TO APPLIANCE SCHEDULE FOR APPLIANCES, SEE A7XX

6. CONTRACTOR TO VERIFY DIMENSIONS OF APPLIANCES, FIXTURES, AND EQUIPMENT PRIOR TO CASEWORK FABRICATION. TYPICAL.

7. REFER TO FINISH SCHEDULE FOR FINISH MATERIALS, SEE A503

8. VERIFY TILE LAYOUT AND JOINTS WITH ARCHITECT PRIOR TO INSTALLATION.

9. FFE SHOWN FOR REFERENCE, OFCI

KEYNOTES

06 41 00.A BASE CABINETS, DOORS, DRAWERS, AND ADJUSTABLE

SHELVES
06 41 00.B UPPER CABINETS, DOORS, AND ADJUSTABLE SHELVES

06 41 00.C FULL HEIGHT CABINETS, LOCKABLE DOORS AND ADJUSTABLE SHELVES

06 41 00.F MATCHING CASEWORK WALL PANEL AT ISLAND

PLUMBING WALL

PLUMBING WALL

09 29 00.A GYPSUM BOARD
09 65 00.C RUBBER BASE, ACCESSORIES AND ATTACHMENTS

10 26 13.A STAINLESS STEEL CORNER GUARD 10 26 23.B STAINLESS STEEL U-GUARD

10 26 23.B STAINLESS STEEL U-GUAR

11 30 13.C EXHAUST HOOD OVER RANGE

11 30 13.D DISHWASHER
11 30 13 F REFRIGERATOR V

11 30 13.E REFRIGERATOR WITH WATER AND ICE DISPENSER 11 30 13.F REFRIGERATOR

11 30 13.J MICROWAVE

11 30 13.K INDUCTION AND CONVECTION RANGE

11 30 13.L ICE MAKER

12 36 16.A METAL COUNTERTOPS12 36 16.B METAL COUNTERTOPS WITH INTEGRATED

BACKSPLASH

12 36 23.A PLASTIC LAMINATE COUNTERTOPS

14 42 00.A ADA ACCESSIBLE WHEELCHAIR LIFT22 41 16.B ADA KITCHEN SINK, SEE PLUMBING DRAWINGS

22 42 39.A KITCHEN FAUCET, SEE PLUMBING DRAWINGS

23 81 29.A VRF INDOOR WALL MOUNTED UNIT

26 27 26.B SWITCH, SEE ELECTRICAL DRAWINGS
26 30 00 A RECEPTACLE SEE ELECTRICAL DRAWING

26 30 00.A RECEPTACLE, SEE ELECTRICAL DRAWINGS

27 20 00.A NETWORK DATA/VOICE DEVICE PLATE, SEE COMMUNICATION DRAWINGS

27 41 16.C A/V CONTROL BUTTON PANEL, SEE AUDIO/VISUAL DRAWINGS

27 41 16.D WALL PLATE PRESENTER INPUT, SEE AUDIO/VISUAL DRAWINGS

27 41 16.E LOUD SPEAKER SOUNDBAR, SEE AUDIO/VISUAL DRAWINGS

DRAWINGS

27 41 16.F FLAT PANEL DISPLAY, SEE AUDIO/VISUAL DRAWINGS

MARJANG

STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

CLIENT: KENSINGTON FIRE
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KENSINGTON, CA 94707

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EP: LIST ENGINEERING CO. 2 HARRIS CT STE A7

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351 8TH STREET SAN FRANCISCO, CA 94103

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ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26

SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

NO. DESCRIPTION DATE

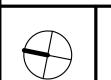
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ISSUED FOR BUILDING PERMIT 04/01/2022

JOB NO.

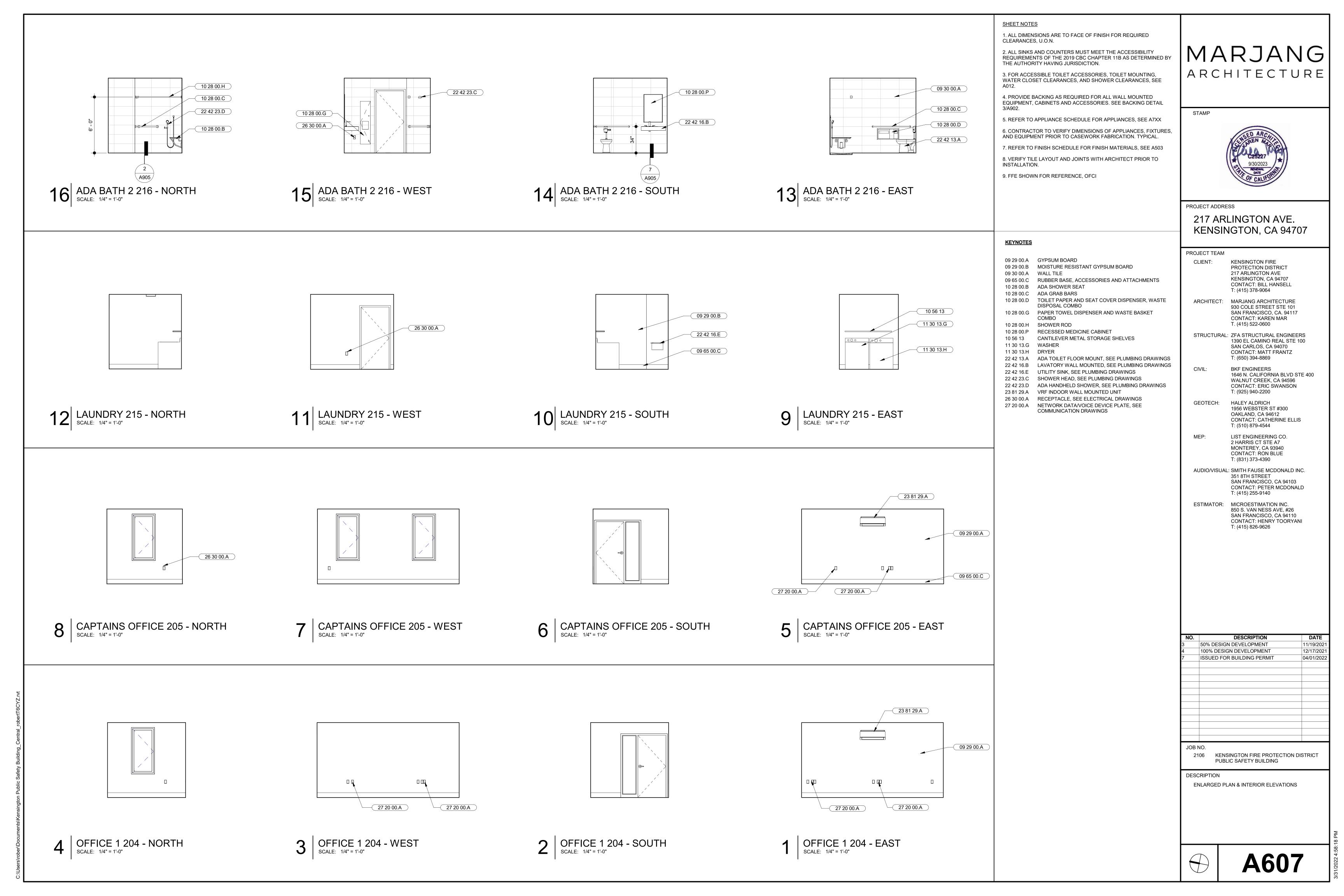
2106 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

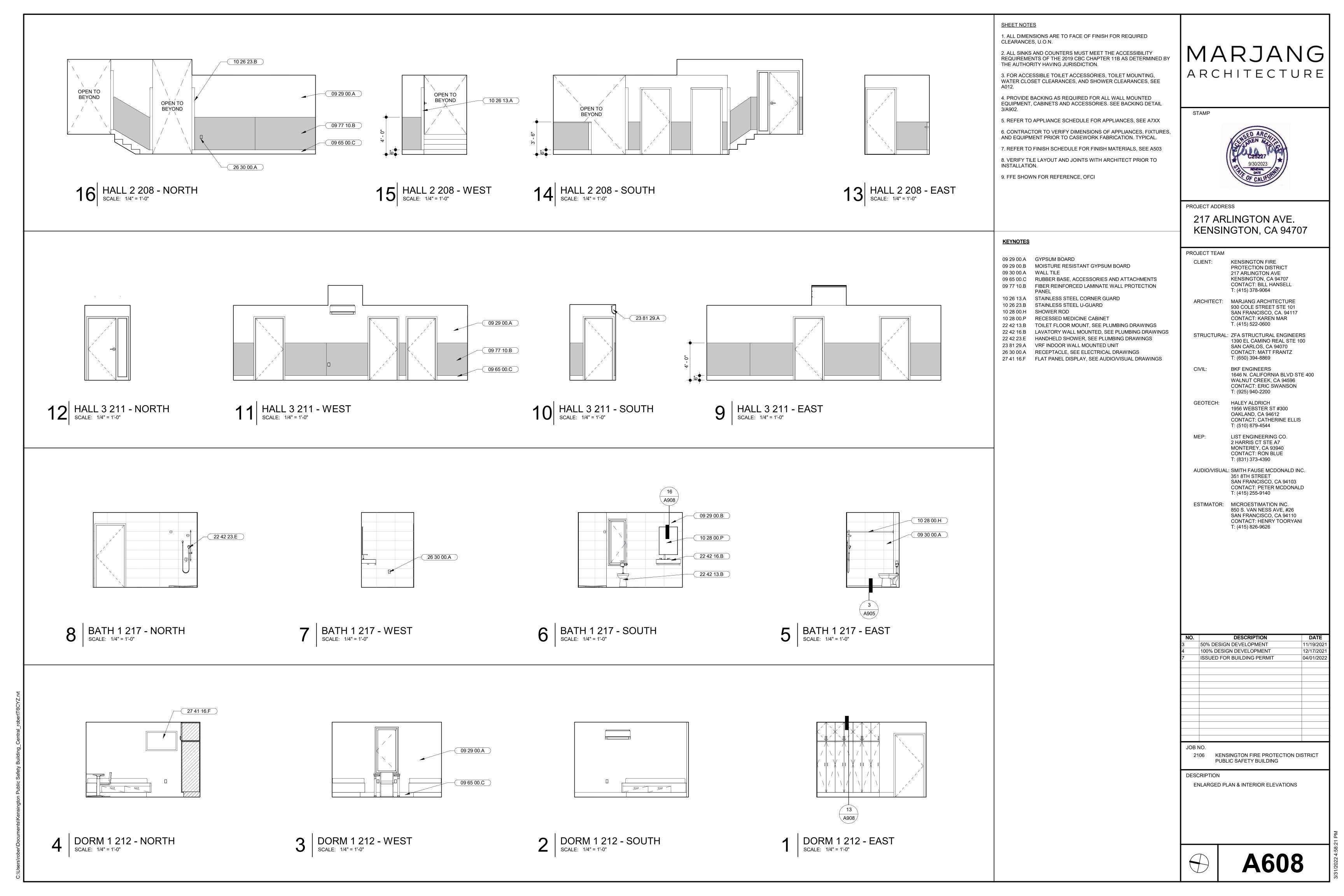
DESCRIPTION

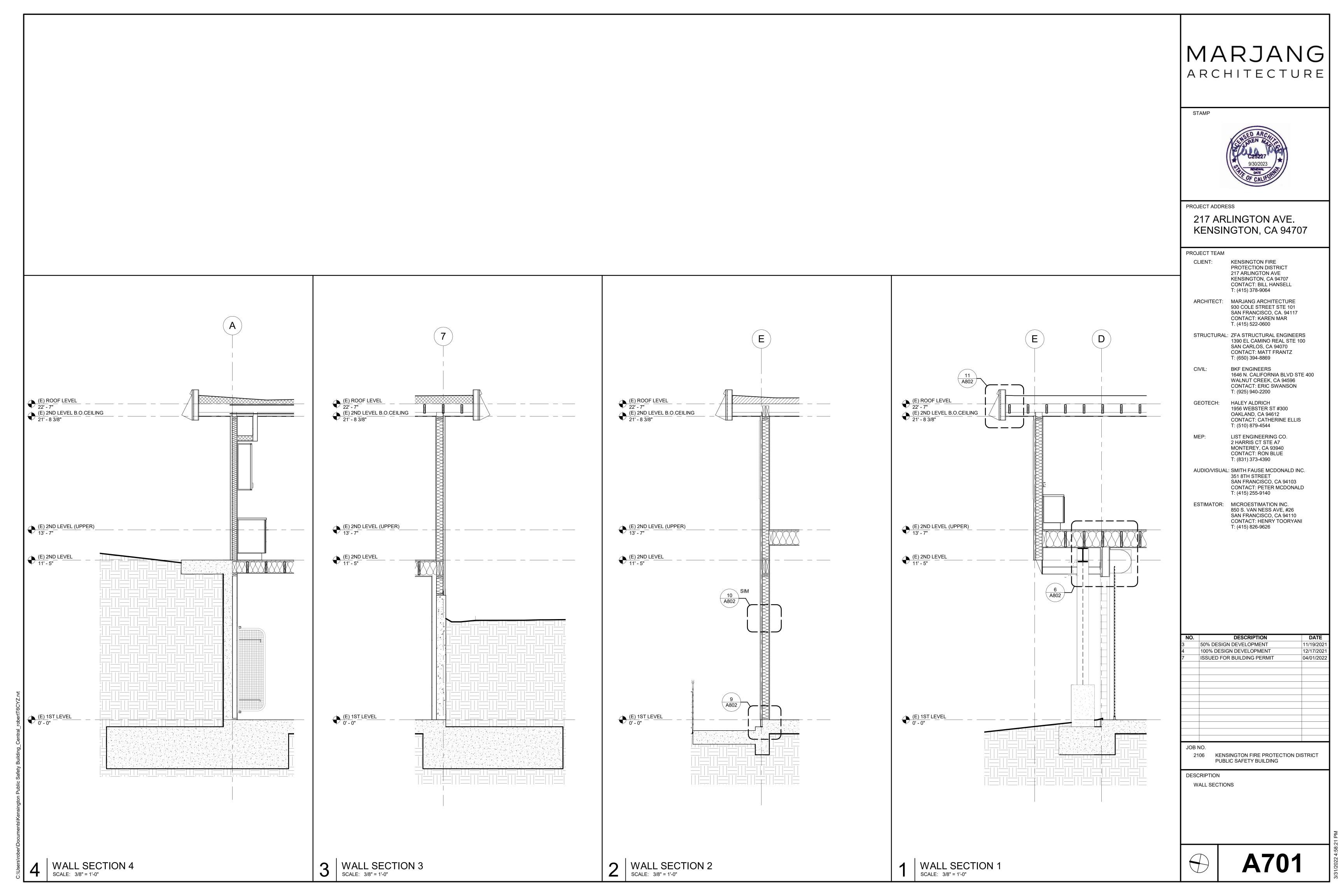
ENLARGED PLAN & INTERIOR ELEVATIONS

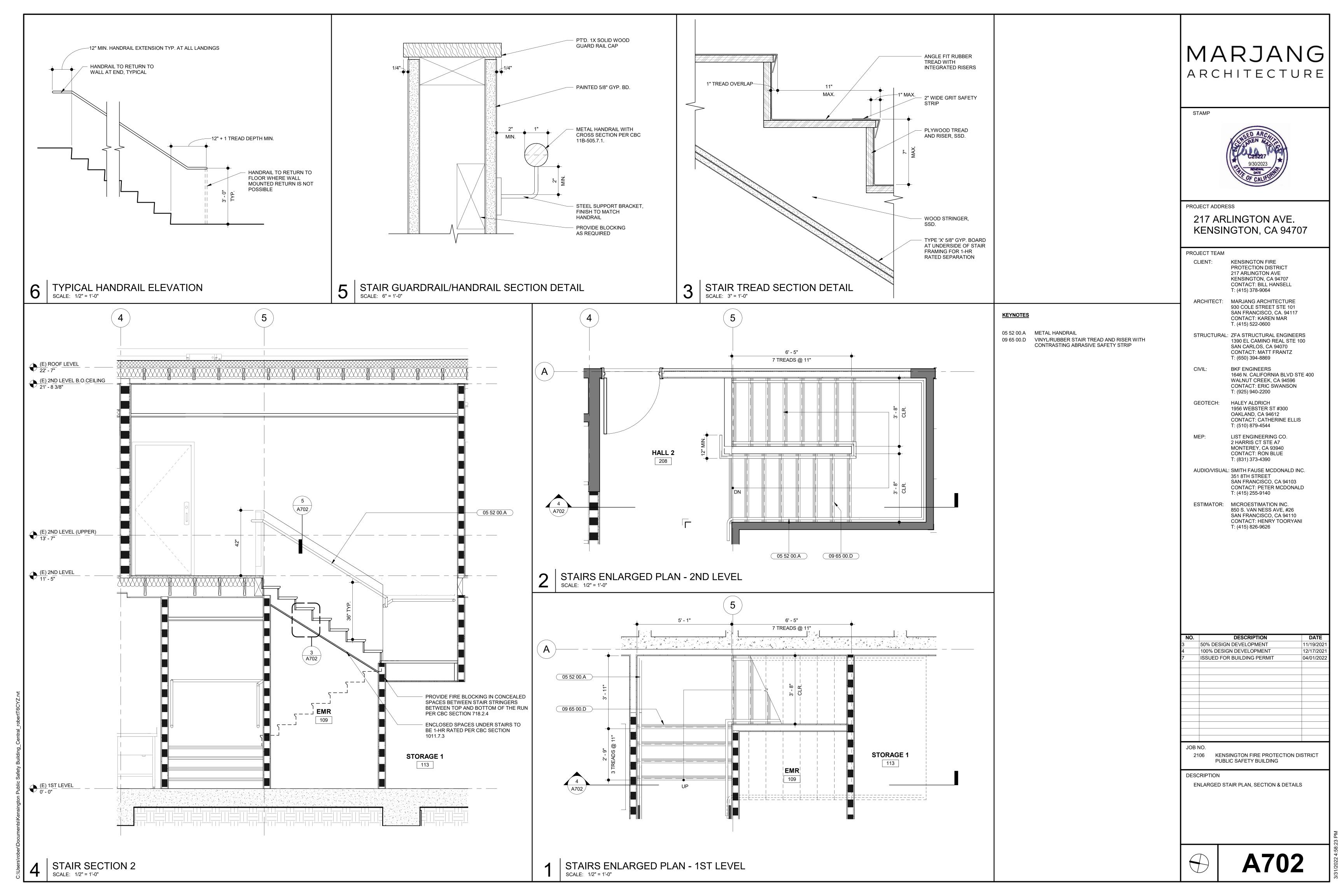


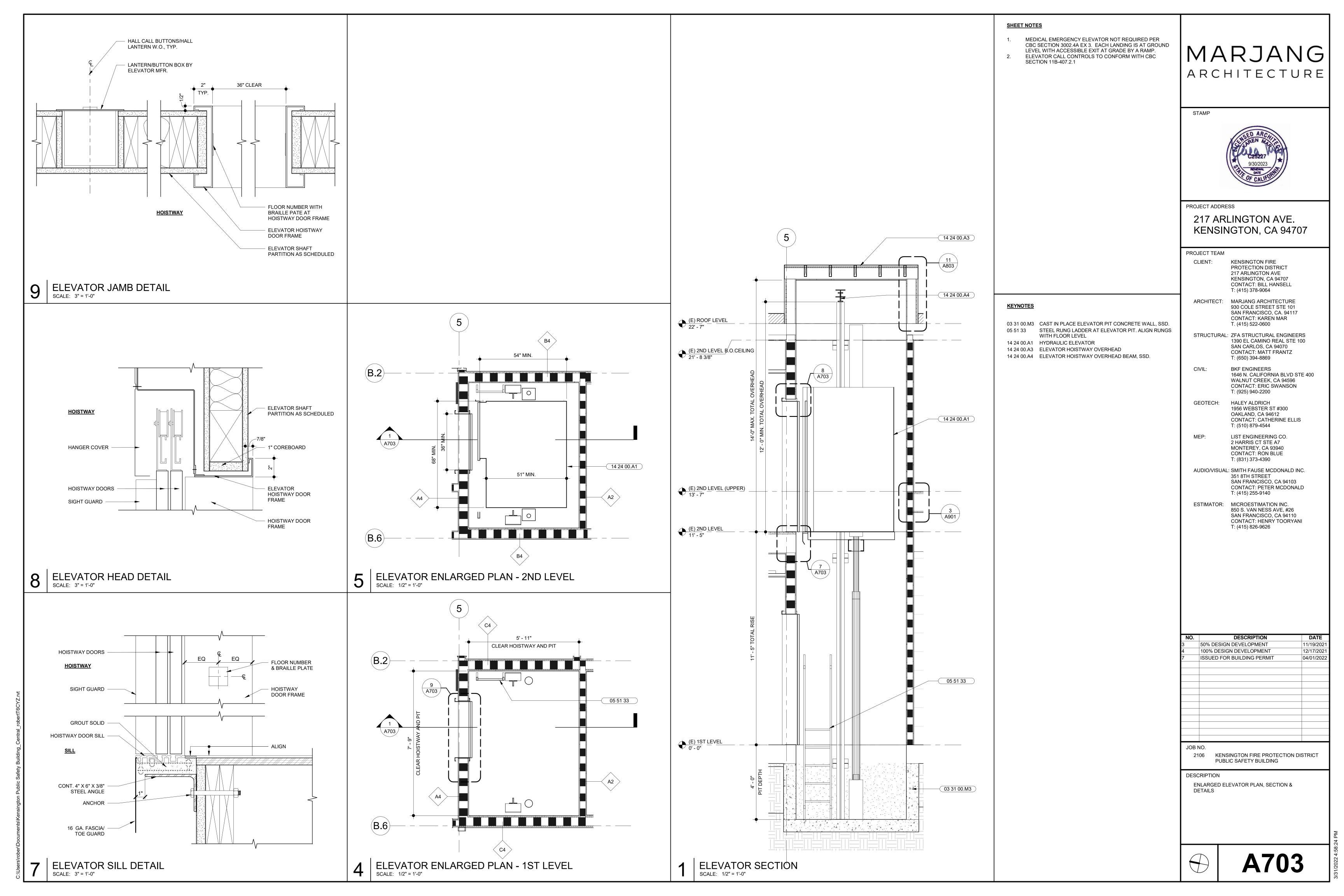
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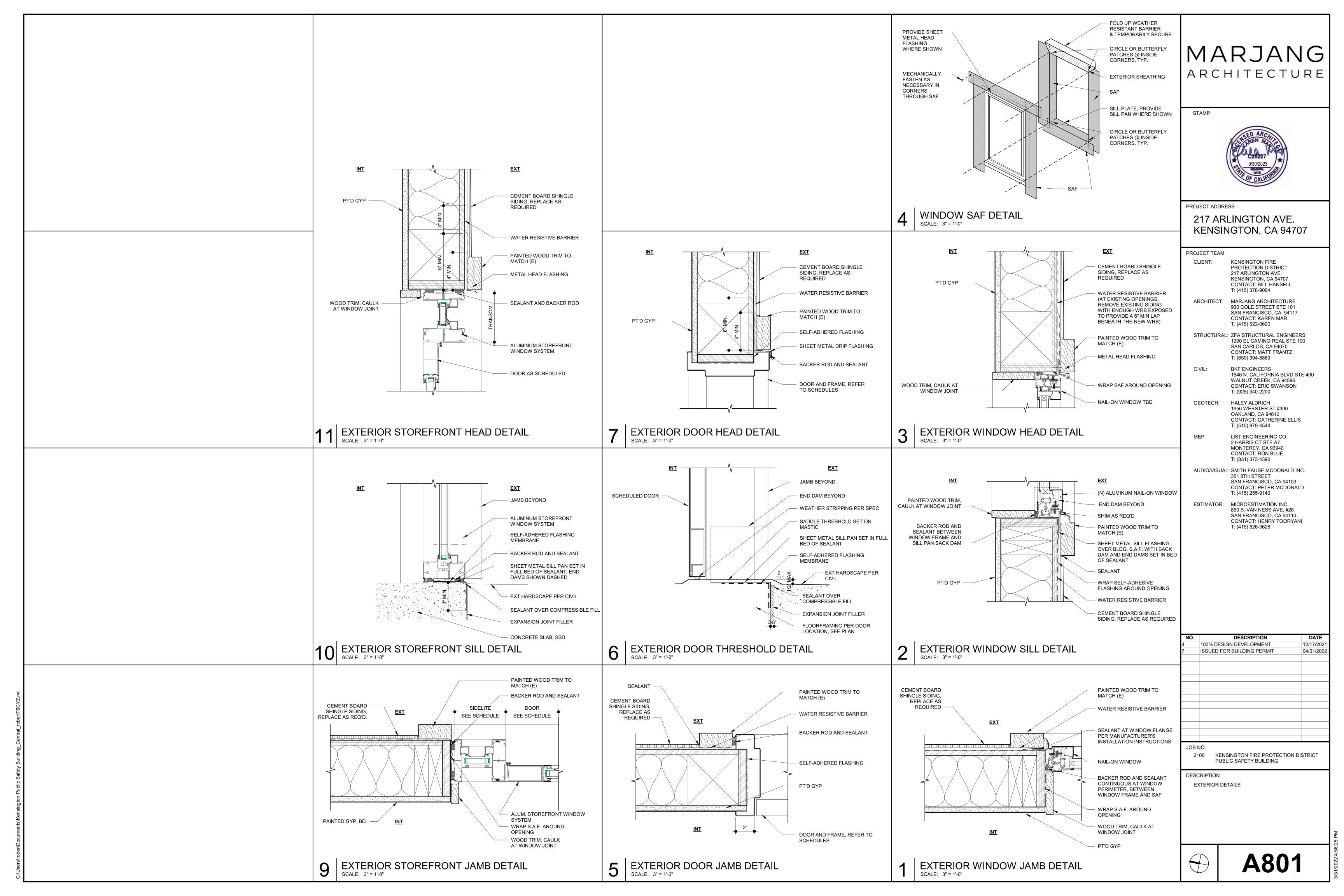


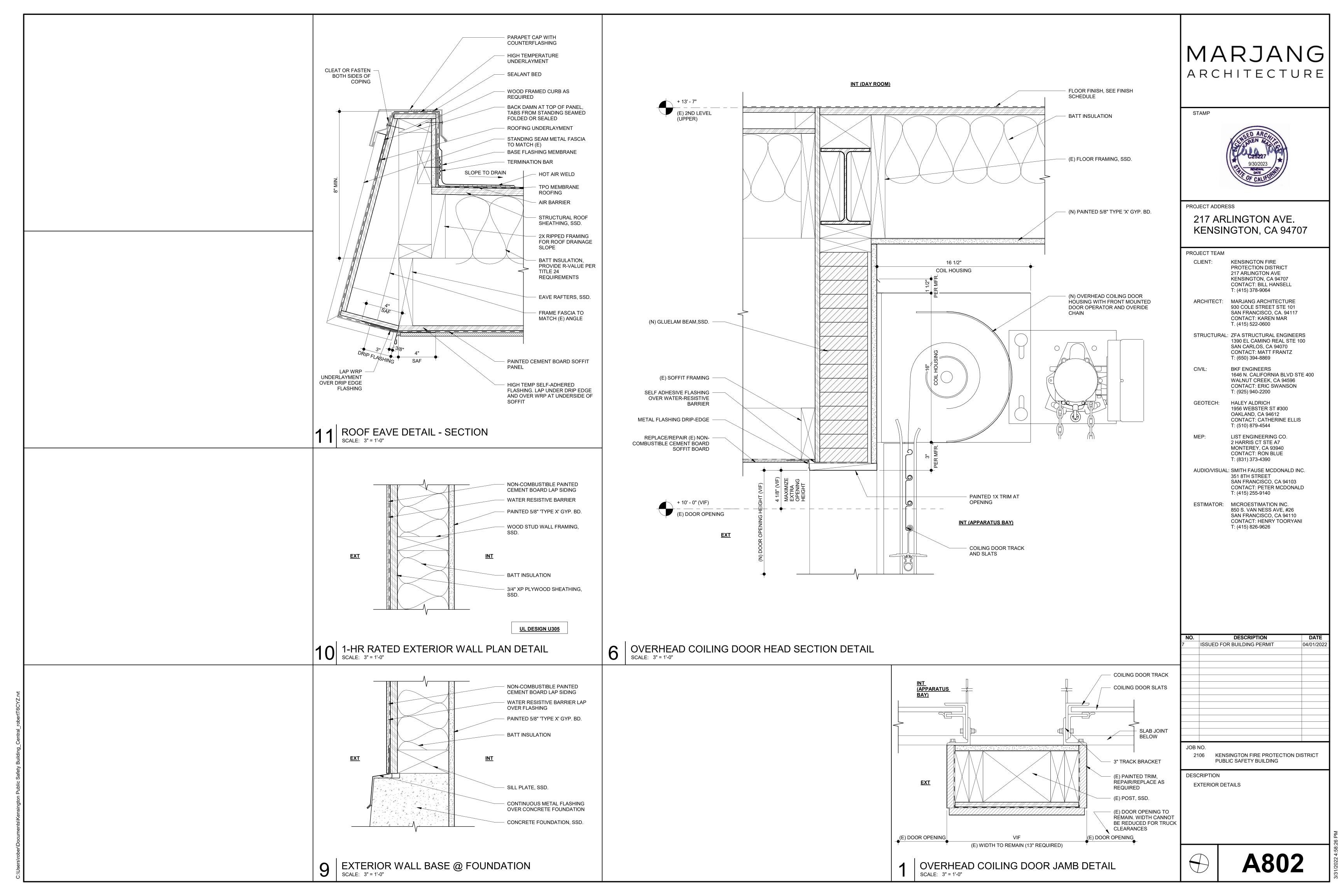


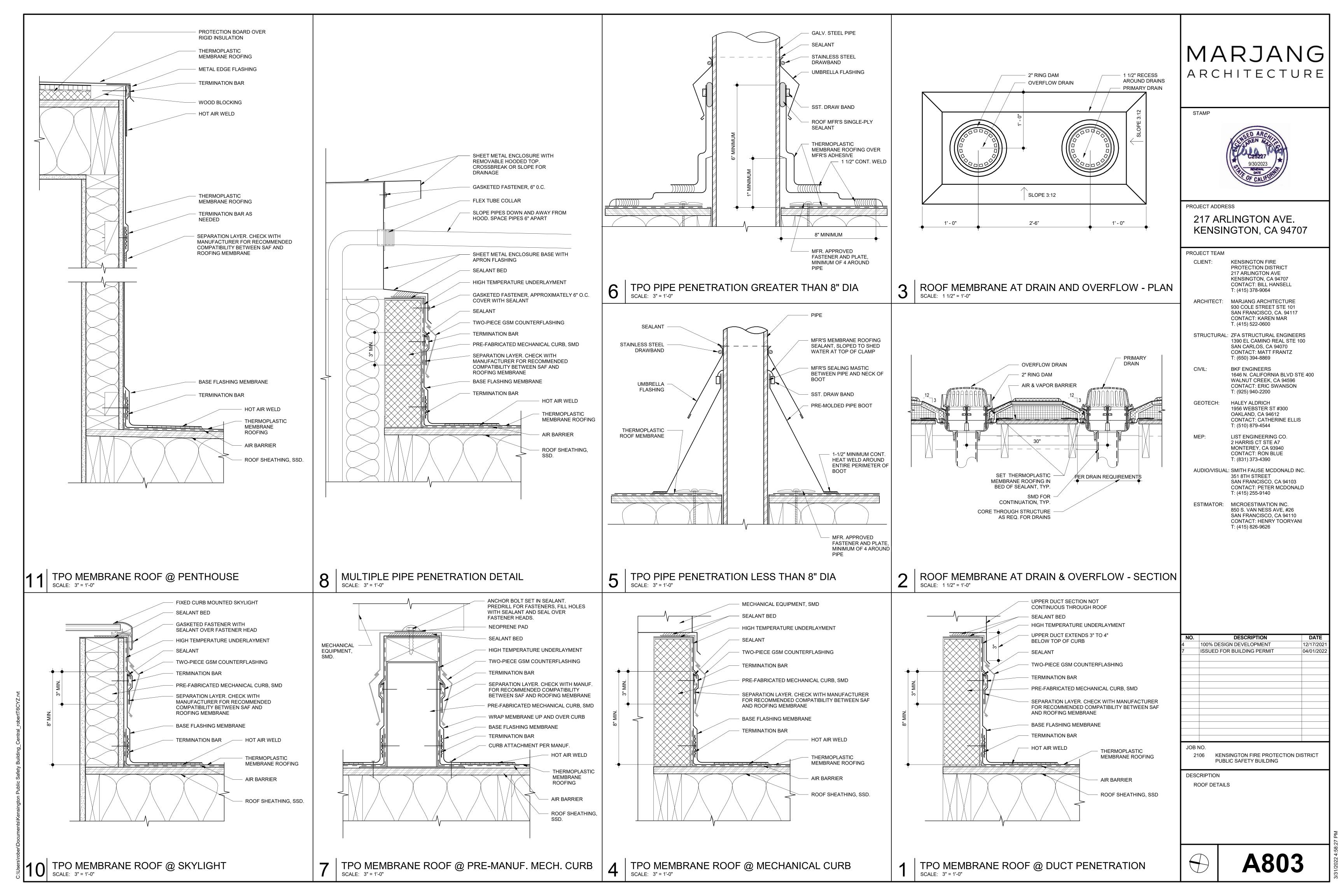


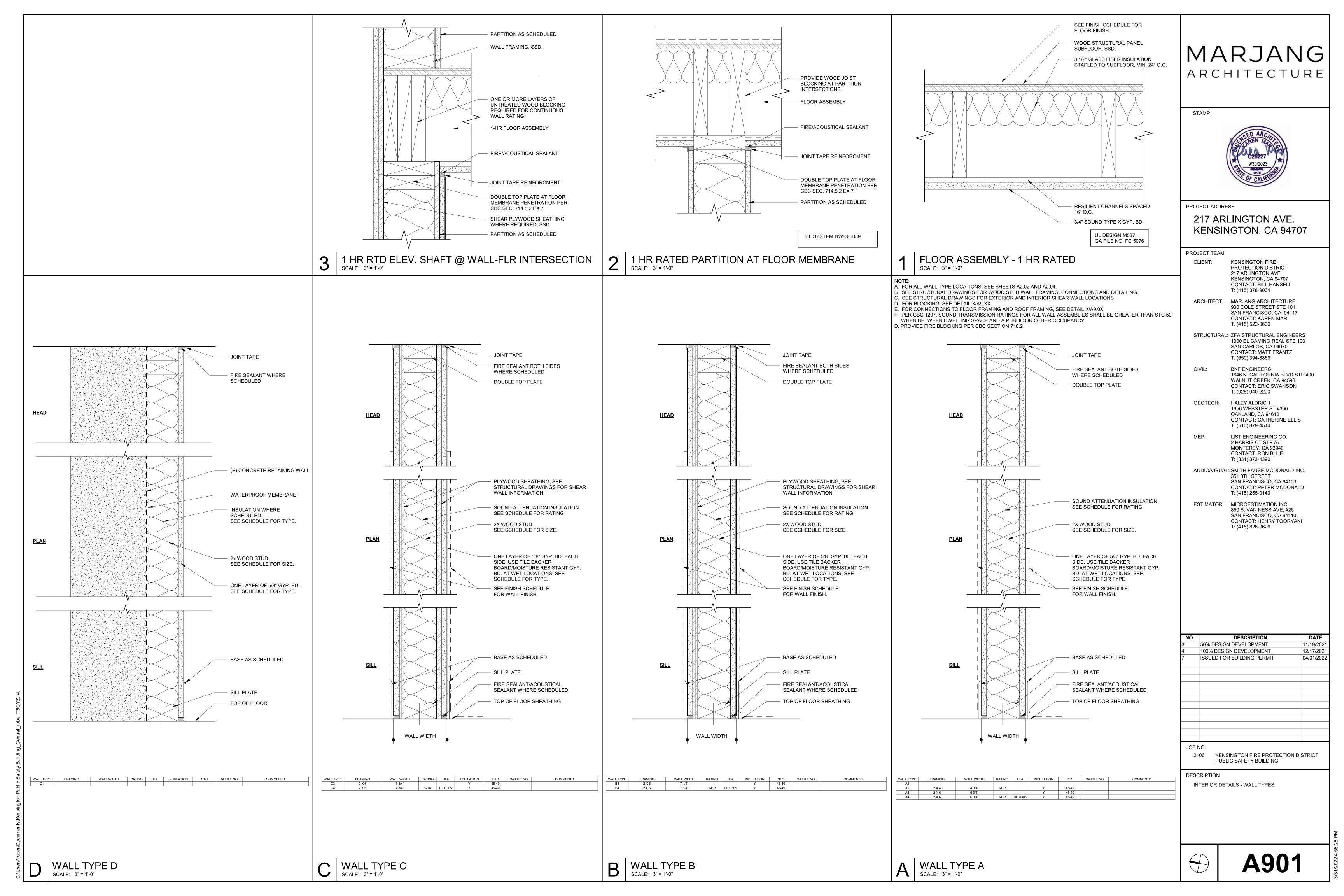


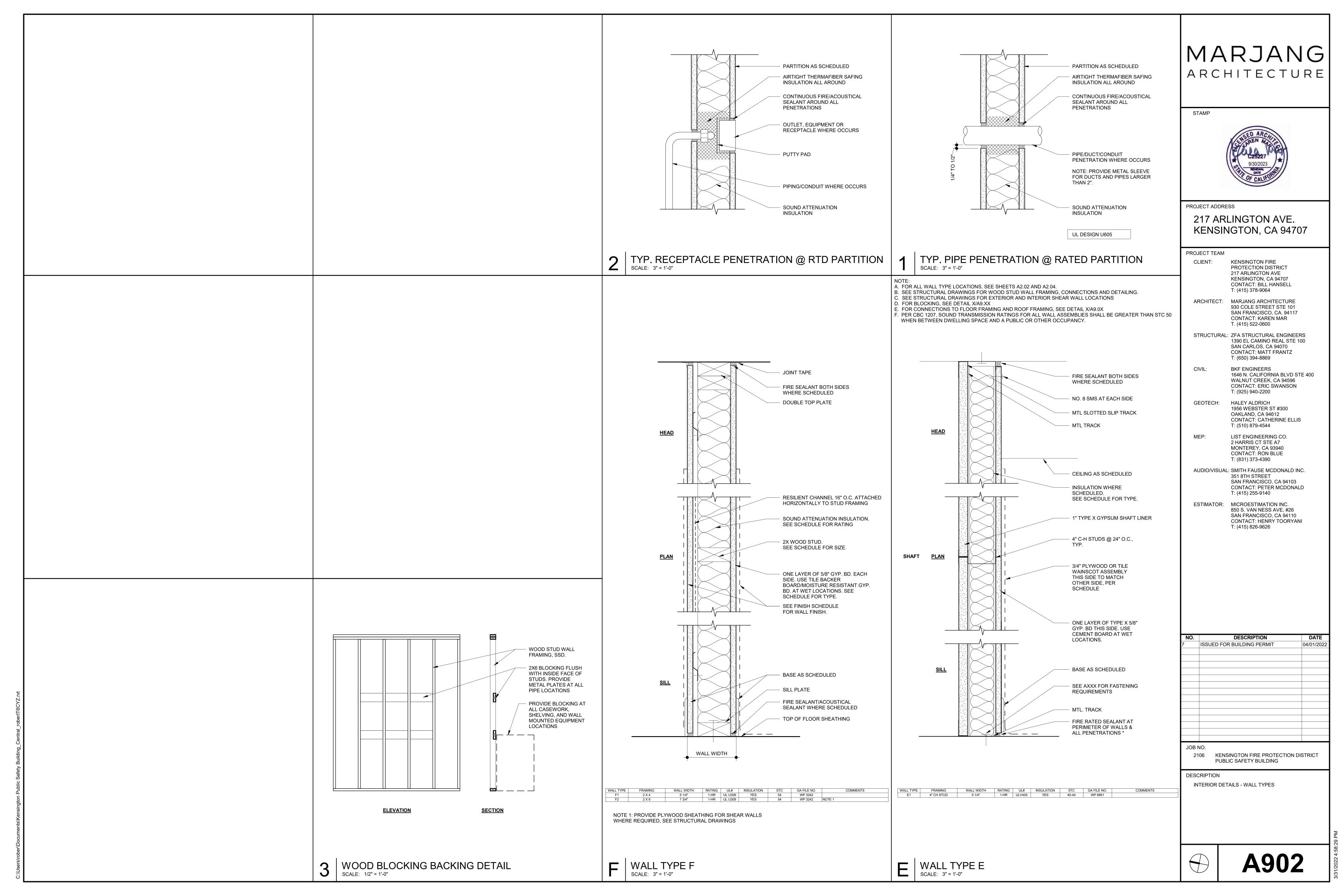
SHEET NOTES PLATFORM LIFT TO CONFORM WITH CBC SECTION 11B-410 2. FOR PLATFORM LIFT SIGNAGE, SEE SIGNAGE PLAN A013 MARJANG ARCHITECTURE PROJECT ADDRESS 217 ARLINGTON AVE. KENSINGTON, CA 94707 PROJECT TEAM KENSINGTON FIRE PROTECTION DISTRICT CLIENT: 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064 ARCHITECT: MARJANG ARCHITECTURE KITCHEN/DINING 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117 206 CONTACT: KAREN MAR T. (415) 522-0600 STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANTZ T: (650) 394-8869 **BKF ENGINEERS** 1646 N. CALIFORNIA BLVD STE 400 WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200 11' - 5" A.F.F. 2ND LEVEL HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS 60" MIN. CLR. LANDING T: (510) 879-4544 LIST ENGINEERING CO. CLEAR FLOOR SPACE 2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE T: (831) 373-4390 AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. PLATFORM LIFT GRAB BAR 351 8TH STREET SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD T: (415) 255-9140 PLATFORM LIFT OPERATOR TOWER ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 CONTROLS TO COMPLY WITH CBC SECTION 11B-309 REACH RANGES SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626 - CONTROLS TO COMPLY WITH CBC PLATFORM LIFT OPERATOR TOWER SECTION 11B-309 REACH RANGES PLATFORM LIFT GRAB BAR PLATFORM LIFT FLOOR SURFACE TO COMPLY WITH CBC SECTION 11B-302 DESCRIPTION 12' - 3 1/2" A.F.F. 2ND LEVEL 100% DESIGN DEVELOPMENT 12/17/2021 ISSUED FOR BUILDING PERMIT 04/01/2022 (UPPER) END DOORS AND GATES TO BE 32"
 CLEAR WIDTH MINIMUM PER CBC _1 1/4" MAX GAP SECTION 11B-410.6. GATES ON OPPOSITE ENDS SERVING 2 LANDINGS MAXIMUM PERMITTED TO BE SELF-CLOSING PER EXCEPTION 1. FINISH FLOOR DAYROOM JOB NO. 207 FINISH FLOOR 2106 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING (E) 2ND LEVEL 11' - 5" DESCRIPTION ENLARGED WHEELCHAIR LIFT PLAN SECTION, & 2 PLATFORM LIFT SECTION SCALE: 1" = 1'-0" PLATFORM LIFT ENLARGED PLAN

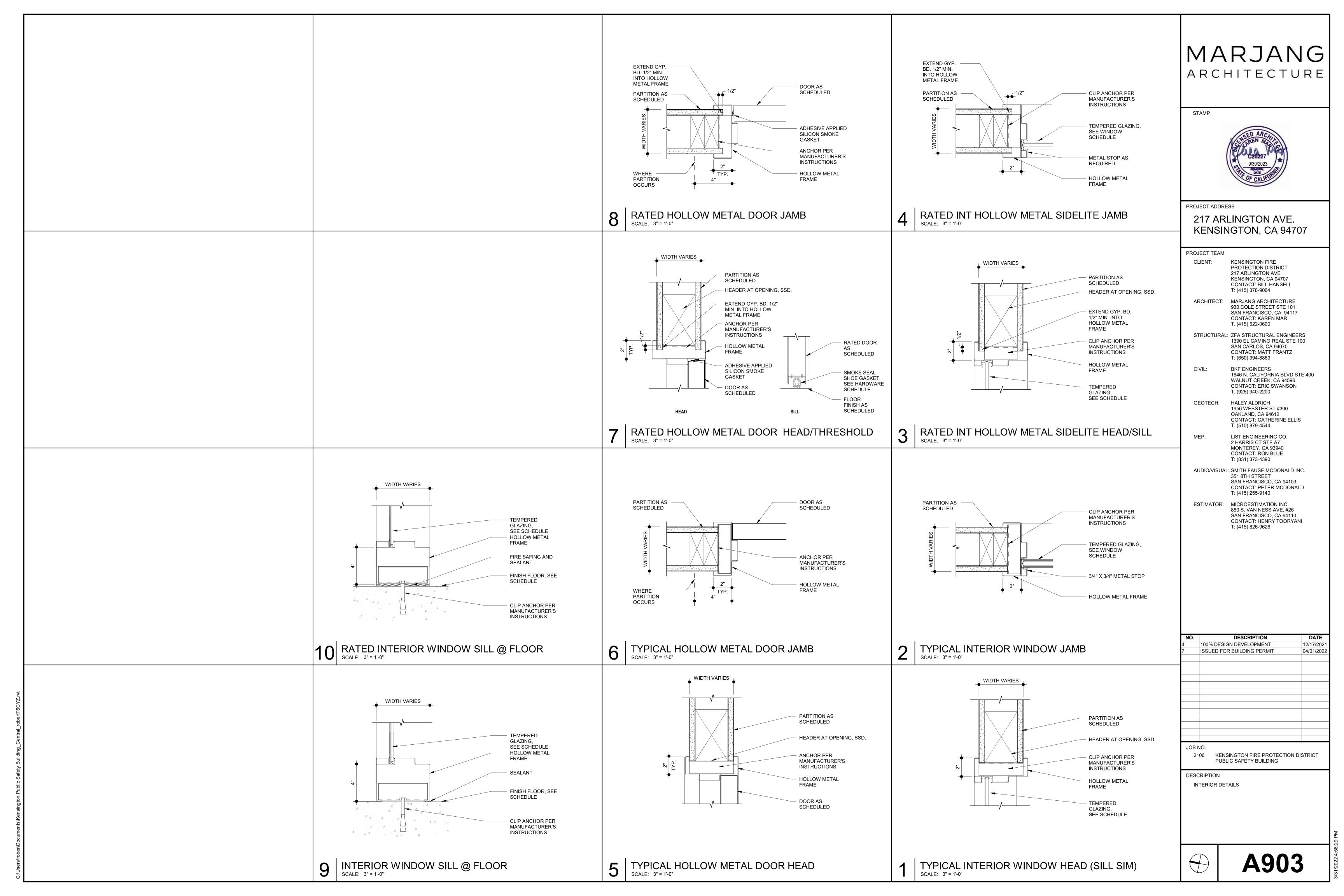


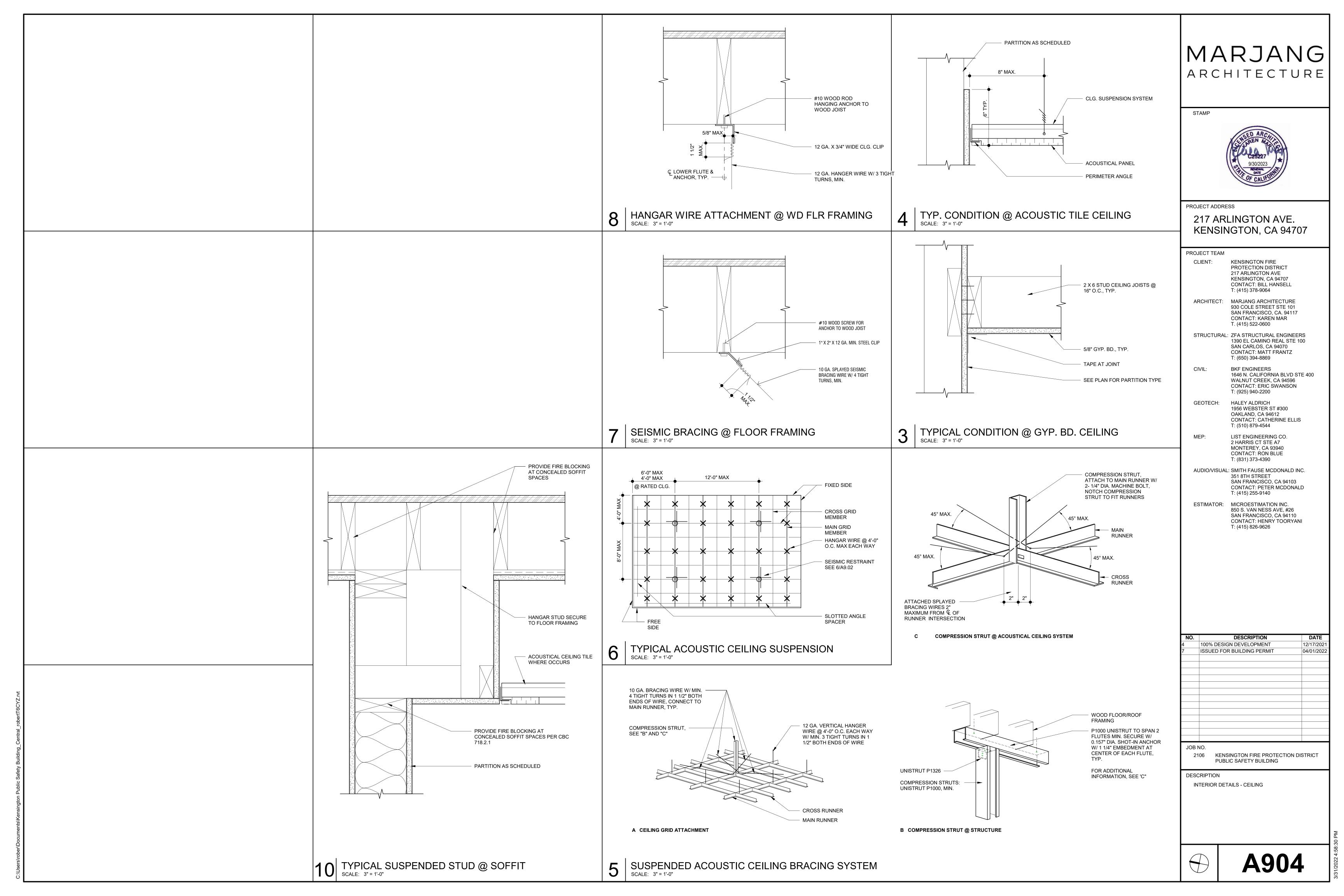


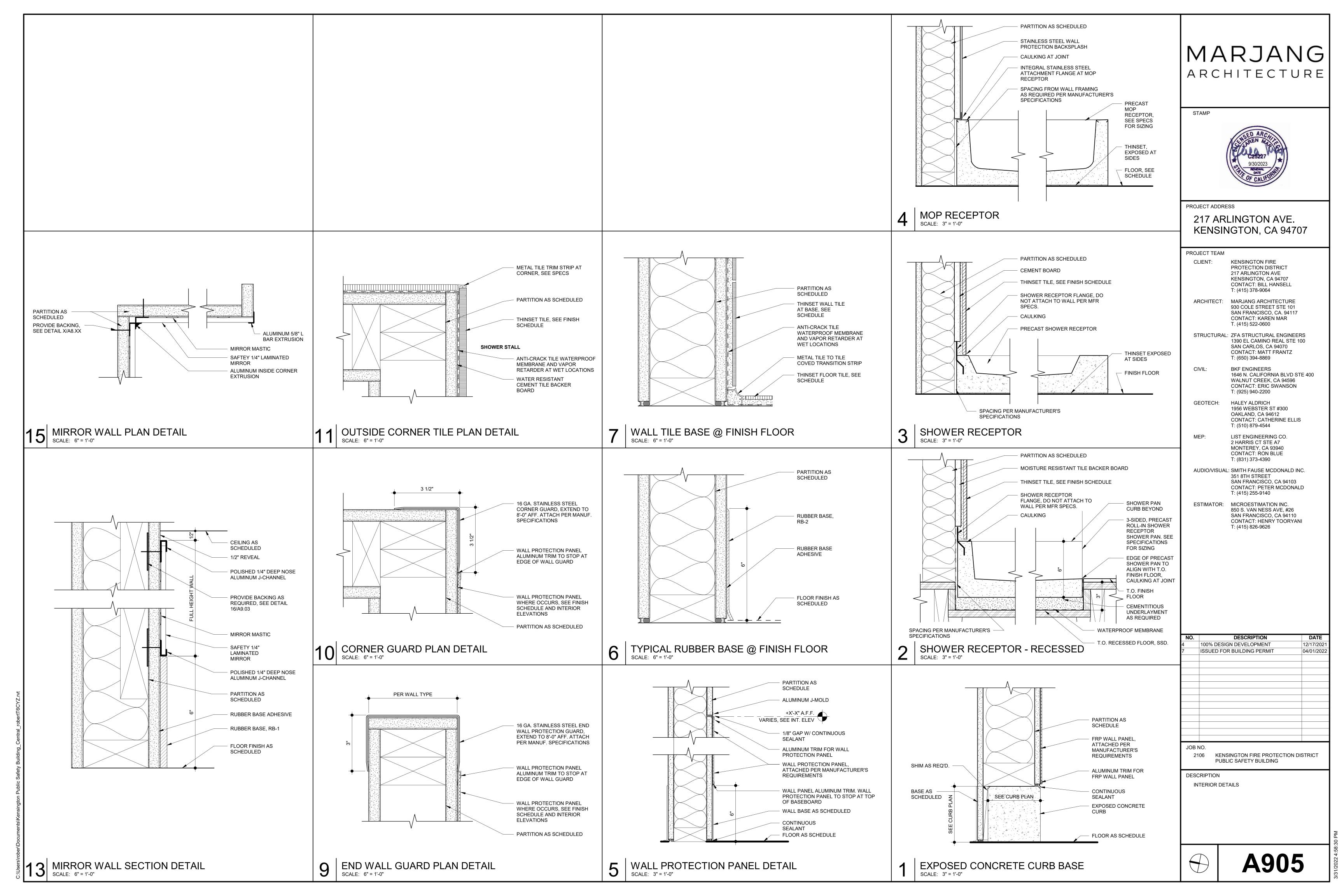


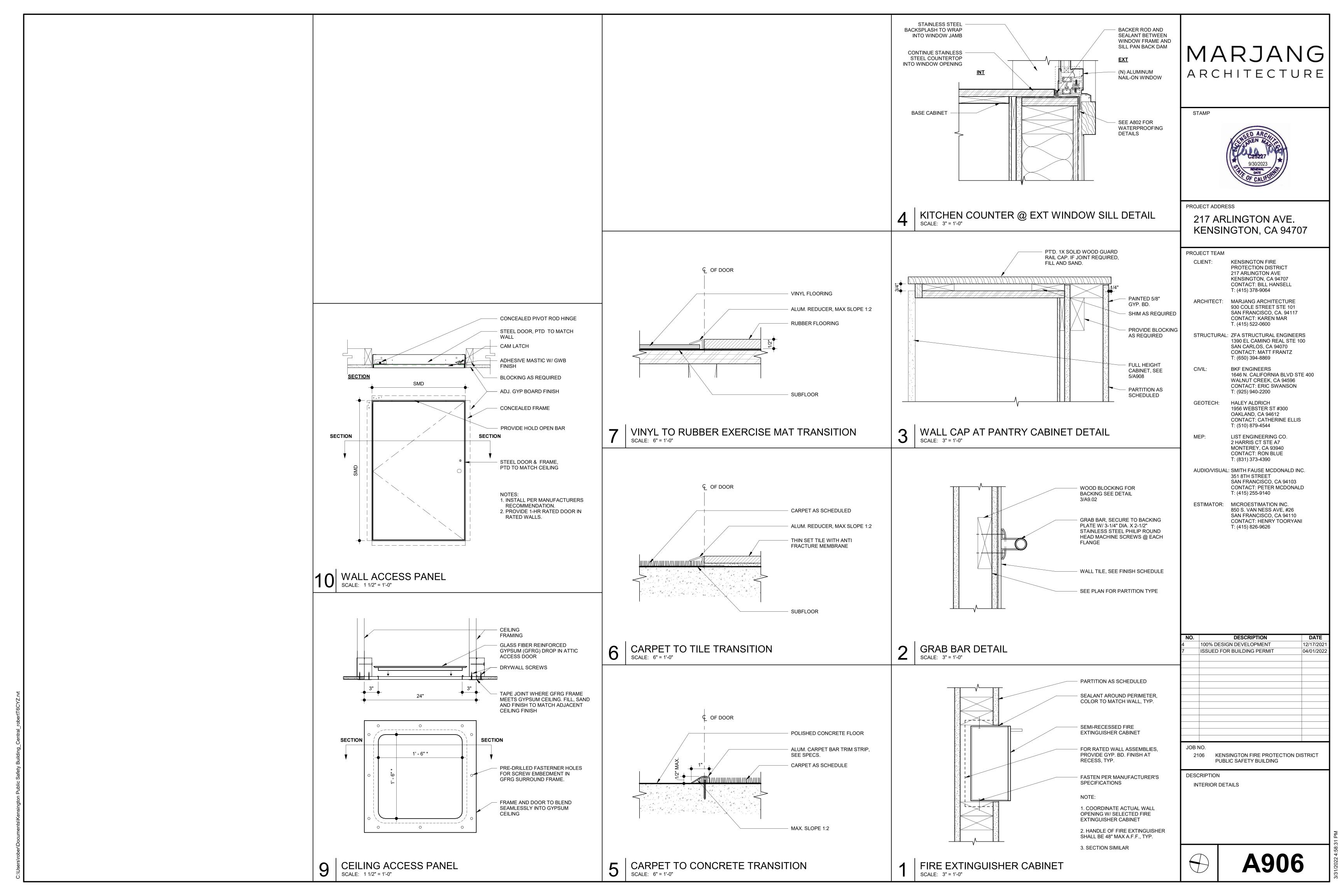


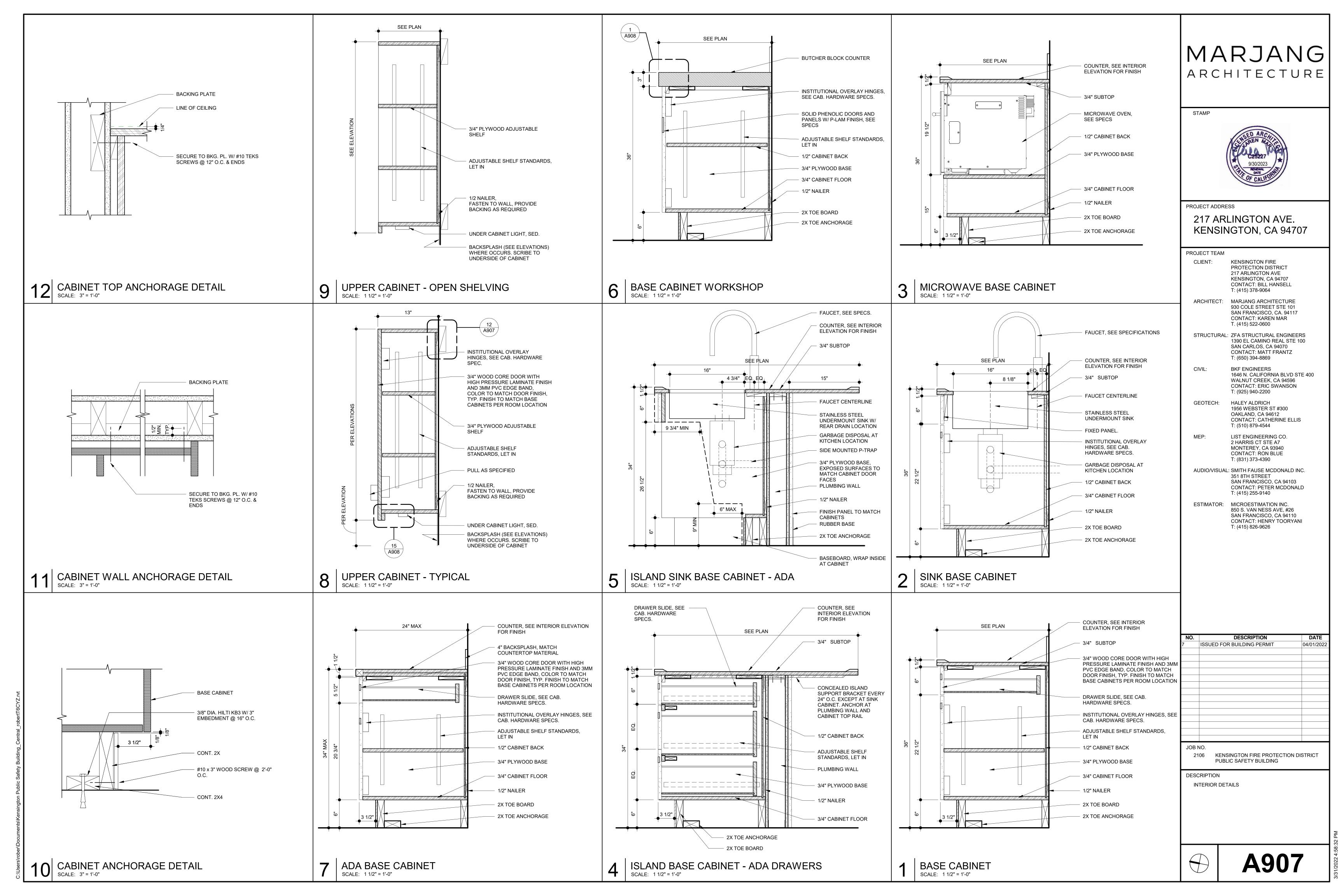


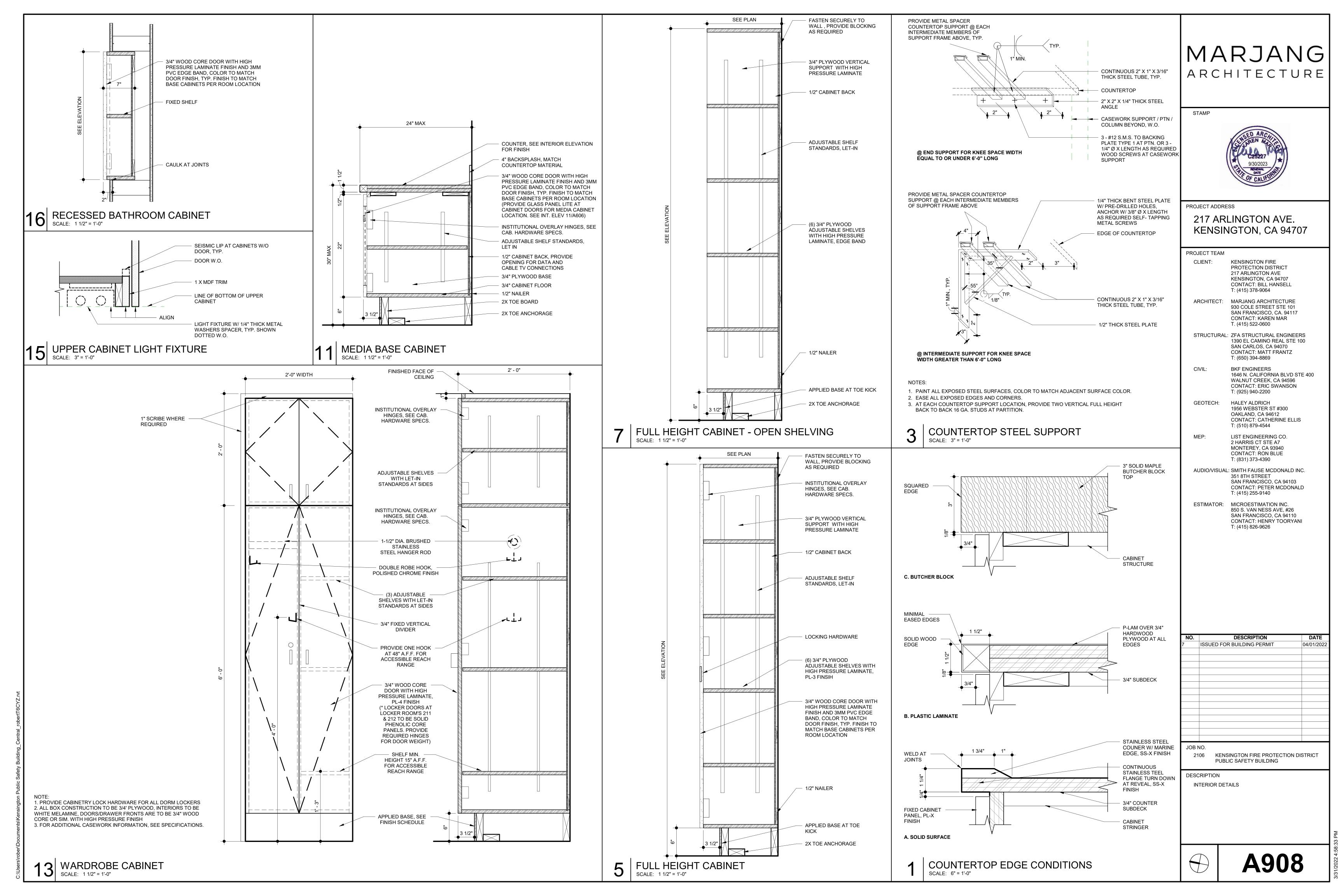












WOOD FRAMING NOTES

- 1. HEADERS, BEAMS, POSTS, TOP PLATE SPLICES, AND ETC., ARE PER 1/S103 AND 3/S103 WHERE NOT NOTED ON PLAN AND DETAILS.
- 2. ALL BEAMS AND JOISTS (EXCLUDING I JOISTS) SHALL BE SEAT CUT FOR FULL UNIFORM BEARING AT SUPPORTS, INCLUDING BEAM SEATS AND COLUMN CAPS.
- 3. THE GENERAL CONTRACTOR SHALL MEASURE GLULAM BEAM SIZES AND CAMBERS AS DELIVERED TO THE JOB SITE AND SHALL REPORT FINDINGS TO THE ENGINEER PRIOR TO ERECTION. PROVIDE 5,000 FT. RADIUS CAMBER ON ALL SIMPLE SPAN GLULAM BEAMS UNO. WHERE INDICATED ON PLAN, C = ¾" INDICATES MIDSPAN CAMBER IN INCHES.
- 4. 3½" AND 5½" WIDTHS MAY BE SUBSTITUTED FOR 3½" & 5½" WIDTHS. RESPECTIVELY, AT INDUSTRIAL APPEARANCE GRADE GLULAM MEMBERS UNO.
- 5. SEE 11/S103 FOR SHEATHING NAILING REQUIREMENTS. ALL NAILING NOT NOTED OR DETAILED OTHERWISE SHALL BE PER 10/S103. NAIL LENGTH TO BE SUFFICIENT TO MEET CBC PENETRATION REQUIREMENTS. NAILS INTO PRESSURE TREATED MATERIAL SHALL BE HOT DIP GALVANIZED. NAILS AT BORATE TREATED LUMBER MAY BE CLEAR ZINC COATED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AT EXTERIOR EXPOSURES.
- 6. EXTERIOR STUD WALL SHALL BE 2x6 @ 16"oc UNLESS NOTED OTHERWISE. INTERIOR BEARING WALLS AND SHEAR WALLS SHALL BE 2x6 @ 16"oc UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR OTHER INTERIOR WALL FRAMING SIZES. COORDINATE STUD AND PLATE SIZES WITH THE REQUIREMENTS OF THE SHEAR WALL SCHEDULE.
- 7. WOOD POST SIZES ARE TO MATCH BEAM AND STUD WIDTH, UNO. WHERE POST OCCURS ABOVE RAISED FLOOR, PROVIDE SOLID BLOCKING AT FLOOR FRAMING TO MATCH WIDTH OF POST. PEN PER C/S002 TO POSTS AT ALL EXTERIOR WALLS AND INTERIOR SHEAR WALLS. POSTS AT HOLDOWNS TO BE FULL HEIGHT AND PER <u>8/S103</u> .
- 8. FOR ROOF DRAINAGE, TOP OF FRAMING BETWEEN NOTED POINTS IS A STRAIGHT
- 9. ALL MECHANICAL SUPPLY AND RETURN OPENINGS TO BE BETWEEN FRAMING UNO.
- 10. HSS OR PIPE COLUMNS IN STUD WALLS ARE TO BE TRIMMED PER 6/S104. REFER TO PLANS AND DETAILS FOR OTHER REQUIREMENTS.
- 11. JOISTS AND RAFTERS ARE PER PLAN. UNLESS NOTED OTHERWISE, PROVIDE "LU" HANGER AT FLUSH FRAMING AND "HU" HANGER WHERE HANGER IS SHOWN SKEWED PER PLAN AND/OR HANGER SEAT IS INDICATED TO BE SLOPED. HANGER SIZE TO BE CORRECT FULL SIZE FOR JOIST SIZE (I.E. LU210 FOR 2x10). FILL ALL NAIL
- 12. PROVIDE SOLID BLOCKING @ 8'-0"oc MAX FOR ALL 2x14 REPETITIVE FRAMING.
- 13. PROVIDE ADDITIONAL JOIST BELOW ALL OR ADJACENT TO NON-STRUCTURAL WALLS PARALLEL TO FRAMING, UNO.
- 14. ROUND HOLES IN STEEL PLATES TO BE 1/16" OVERSIZE. SLOTTED HOLES IN STEEL PLATES SHALL BE 1/16" WIDER THAN THE BOLT DIAMETER AND HAVE A LENGTH OF 2 TIMES THE BOLT DIAMETER. THE DIRECTION OF THE SLOTTED LENGTH IS INDICATED ON THE DETAILS (VSH OR HSH). INSTALL BOLT AT THE CENTER LINE OF THE HOLE. BOLT HOLES IN WOOD SHALL BE ROUND AND 1/32 OVERSIZE. CUT OFF BOLT THREADED END FLUSH WITH NUT WHEN REQUIRED BY FINISHES AND 1" MAXIMUM FROM NUT OTHERWISE. PROVIDE STANDARD CUT WASHERS UNDER HEAD AND NUT WHERE BOLT BEARS ON WOOD. USE PLATE OR MALLEABLE IRON WASHERS AT EXPOSED CONDITIONS OR AS INDICATED.
- 15. ALL BOLTED OR NAILED STRAP CONNECTIONS SHALL HAVE AN EQUAL NUMBER OF BOLTS OR NAILS EACH SIDE OF THE SPLICE JOINT. THE FIRST BOLT OR NAIL FROM EACH SIDE OF THE SPLICED OR STRAPPED MEMBER SHALL BE EQUIDISTANT FROM THE SPLICE. STRAPS USING 16d NAILS ON 2x MATERIAL TO BE INSTALLED ON THE 1½" EDGE OF THE MEMBER.
- 16. THE CONTRACTOR SHALL VERIFY THAT THE MOISTURE CONTENT OF ALL FRAMING LUMBER AND SHEATHING MEET THE REQUIREMENTS OF THE SPECIFICATIONS AT THE TIME OF INSTALLATION AND AT CLOSE-IN. THE CONTRACTOR SHALL PROVIDE ALLOWANCE FOR DIFFERENTIAL SHRINKAGE BETWEEN FLOORS, ETC.

17. VENTING IS REQUIRED IN ENCLOSED FRAMING AREAS, SAD. DRILL BLOCKING AND

- LEDGERS AND PROVIDE SKIP BLOCKING AS DETAILED.
- 18. SAD FOR CEILING INFO. WHERE REQUIRED PROVIDE CEILING JOISTS PER 4/S104,
- 19. ALL SHEATHING SHALL HAVE 1/8" GAP AT ALL EDGES AND JOINTS. TYPICAL SHEATHING:
- A. FLAT ROOF SHEATHING (SLOPE 2:12 OR LESS): 19/32 " T&G APA RATED SHEATHING (40/20) EXP 1 WITH 10d @ 4"oc EDGES (PEN) AND 12"oc FIELD UNO ON PLANS. LAY PERPENDICULAR TO FRAMING MEMBERS. BLOCK EDGES WITH 2x4 LAID FLAT. NO PANELS LESS THAN 24" WIDE SHALL BE USED. STAGGER
- B. FLOOR SHEATHING: ²³/₃₂ " T&G APA RATED SHEATHING (48/24) EXP 1 WITH 10d @ 4"oc EDGES (PEN) AND 12"oc FIELD UNO ON PLANS. LAY PERPENDICULAR TO & GLUE TO FRAMING MEMBERS IMMEDIATELY PRIOR TO FULL NAILING (DO NOT SPOT NAIL). BLOCK EDGES WITH 2x4 LAID FLAT AS NOTED ON THE PLANS AND DETAILS. NO PANELS LESS THAN 24" WIDE SHALL BE USED. STAGGER SHEETS. ALTERNATE FASTENER: SIMPSON WSV #9x2" MIN SCREW (ICC ESR-1472). MIN 11/4" FRAMING/BLOCKING EMBEDMENT.

STEEL NOTES

- 1. COORDINATE TOP OF FOOTING ELEVATIONS AS DETERMINED BY THE CONTRACTOR PER C/S0.1.
- 2. TOP OF STEEL ELEVATIONS ARE TO BE DETERMINED BY THE CONTRACTOR BASED ON ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS.
- 3. ALL FRAMING AND CONNECTIONS ALONG GRID LINES OR OTHERWISE INDICATED AS (SFRS) ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM. TESTING AND INSPECTION OF FRAMING AND CONNECTIONS INDICATED AS SFRS SHALL MEET ALL REQUIREMENTS OF AISC 341 AND AWS D1.8. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 4. ALL BOLTS THAT ARE A PART OF THE SFRS ARE TO BE SLIP CRITICAL WITH CLASS A FAYING SURFACE PREPARATION, UNO.

, FOUNDATION NOTES

- ALLOWABLE (ASD) FOUNDATION DESIGN PRESSURES ARE:
 - SHALLOW FOOTINGS AT UNDISTURBED SOIL: DEAD LOAD + LIVE LOAD = 2,250 PSF DEAD LOAD + LIVE LOAD + LATERAL = 3,000 PSF
 - ALL SOILS WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND THE REQUIREMENTS OF THE GEOTECHNICAL REPORT NOTED BELOW, AND CHAPTER 18 OF THE CBC. ALL GRADE BEAMS AND SLABS SHALL BEAR ON FIRM, SCARIFIED AND COMPACTED, NATIVE SOILS OR SHALE AT OR EXCEEDING DEPTHS SHOWN ON THE DRAWINGS. SURFACES EXPOSED BY EXCAVATION SHOULD BE SCARIFIED TO A DEPTH OF 8 INCHES AND COMPACTED PER GEOTECHNICAL REPORT. CONTINUOUS FOOTINGS MUST BEAR ON SHALE. INCREASE FILL AND OR FOOTING DEPTH AS REQUIRED BY GEOTECHNICAL ENGINEER. ALL FOOTING EXCAVATIONS SHALL BE AS NEAT AS PRACTICABLE. MAXIMUM OVER EXCAVATION IN WIDTH SHALL BE LESS THAN 12 INCHES OR 25% OF FOOTING WIDTH, WHICH EVER IS LESS. 6 INCHES MAXIMUM PER SIDE. LARGER OVER-EXCAVATIONS IN WIDTH SHALL BE FILLED WITH ADDITIONAL REINFORCED CONCRETE AS DIRECTED BY THE ENGINEER, OR FORMWORK SHALL BE PROVIDED. OVER-EXCAVATIONS IN DEPTH MAY BE FILLED WITH LEAN CONCRETE OR COMPACTED APPROVED BACKFILL. ALL LOOSE SOILS SHALL BE REMOVED FROM EXCAVATIONS PRIOR TO

PLACEMENT OF REINFORCING OR CONCRETE. GEOTECHNICAL REPORT BY:

- HALEY & ALDRICH, INC. REPORT NO. 0201747-000 DATED: 11/29/2021
- HALEY & ALDRICH, INC. SUPPLEMENTAL GEOTECHNICAL RECOMMENDATIONS DATED: 03/17/2022
- 3. WHERE BOTTOM OF ADJACENT FOOTINGS ARE DIFFERENT PROVIDE STEPPED FOOTING PER 8/S101.
- USE 5/8" DIAMETER x 12" (18" AT CURBS) ANCHOR BOLTS (AB) AT 48"oc WHERE NOT OTHERWISE NOTED. MINIMUM EMBEDMENT INTO CONCRETE IS 7" (EXCLUDING CURB) UNLESS DETAILED OTHERWISE. ANCHOR BOLTS ARE TO BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. SEE SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS. MINIMUM TWO ANCHOR BOLTS PER SILL PIECE.
- TYPICAL SLAB: CONCRETE REINFORCED SLABS WITH THICKNESS AND REINFORCEMENT PER FOUNDATION PLAN OVER VAPOR RETARDER (PER SPECIFICATIONS) AND 6" THICK LAYER OF COMPACTED CLASS 2 AGGREGATE BASE ON SUBGRADE PER THE GEOTECHNICAL RECOMMENDATIONS, AND AS APPROVED BY THE GEOTECHNICAL ENGINEER. DO NOT DRIVE CONCRETE TRUCKS OR LARGE SCREED MACHINES ON VAPOR RETARDER WITHOUT ADDITIONAL BUFFER MATERIAL AND APPROVAL FROM THE STRUCTURAL ENGINEER.
- REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR DEPRESSED SLABS FOR ARCHITECTURAL FLOORING OR INSERTS, SLOPED SLABS TO DRAIN AND PIPES OR CONDUITS AT SLAB. SEE 7/S101 FOR PIPES AND CONDUITS.
- 7. PROVIDE CONTROL JOINTS PER 6/S101 (OR CONSTRUCTION/DOWEL JOINTS AT CONTRACTOR'S OPTION) AS SHOWN ON PLAN AND AS REQUIRED TO MEET A MAXIMUM SPACING IN FEET OF 3 TIMES THE SLAB DEPTH IN INCHES (FOR EXAMPLE 3x4" = 12'-0"oc MAX) AND 15'-0"oc MAX. INSTALL JOINTS TO DIVIDE SLAB INTO RECTANGULAR AREAS WITH LONG DIMENSION LESS THAN 1.5 x SHORT DIMENSION. INSTALL JOINTS AT FACE OF STUDS OF WALL WHERE POSSIBLE. SUBMIT JOINT LAYOUT PLAN FOR REVIEW PRIOR TO PLACEMENT.
- DRILLING FOR CAST IN PLACE CONCRETE PIERS REQUIRES OBSERVATION AND APPROVAL OF GEOTECHNICAL ENGINEER, ALL PIERS SHALL BE POURED IN ONE CONTINUOUS POUR WITH STEEL IN PLACE. ALL PIERS TO BE VIBRATED WHILE POURING CONCRETE.
- DO NOT UNDERCUT EXISTING FOUNDATIONS. NOTIFY ENGINEER FOR REVIEW AND POSSIBLE REVISIONS, IF EXISTING FOUNDATION CONDITIONS ARE NOT AS SHOWN.
- 10. TOP OF FOOTING ELEVATIONS TO BE DETERMINED BY THE CONTRACTOR BASED ON INFORMATION FROM THE CIVIL DRAWINGS, GEOTECHNICAL REPORT LANDSCAPE, ETC.

SPECIAL INSPECTION BY OWNERS , TESTING AGENCY

- SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED BY AN APPROVED AGENCY IN ACCORDANCE WITH CBC CHAPTER 17 AND THE STATEMENT OF SPECIAL INSPECTIONS AS REQUIRED BY CBC SECTIONS 1704.2.3 AND 1704.3 FOR BUILDING STRUCTURAL ELEMENTS SUMMARIZED AS FOLLOWS:
- 1. STRUCTURAL STEEL CONSTRUCTION PER CBC SECTIONS 1705.2, 1705.12.1, 1705.13.1, AND TABLE 1705.2.3 INCLUDING MATERIAL IDENTIFICATION, SHOP AND FIELD WELDING, AND INSTALLATION OF HIGH-STRENGTH BOLTS.
- CONCRETE CONSTRUCTION PER CBC SECTIONS 1705.3, AND TABLE 1705.3 INCLUDING FORMWORK, REINFORCING STEEL, CAST-IN-PLACE BOLTS, MIX DESIGNS, CONCRETE SAMPLES, AND PLACEMENT FOR ALL CONCRETE. REINFORCING DOWELS FROM FOOTINGS TO RETAINING WALLS SHALL BE INSPECTED PRIOR TO PLACEMENT OF FOOTING CONCRETE AND WALL GROUT OR CONCRETE. CONTINUOUS OR ISOLATED SPREAD FOOTINGS WITH DESIGN STRENGTH NO GREATER THAN 2500 PSI, NON-STRUCTURAL SLABS ON GRADE, AND EXTERIOR FLATWORK DO NOT REQUIRE SPECIAL INSPECTION PER CBC SECTION
- **WOOD CONSTRUCTION** PER CBC SECTIONS 1705.5, 1705.11.1, AND 1705.12.2 INCLUDING NAILING, BOLTING, AND ANCHORING OF ALL DRAG STRUTS; TOP PLATE SPLICES, LEDGER SPLICES, SIMPSON HARDWARE, BRACES, AND HOLDOWNS; AND NAILING, BOLTING, AND ANCHORING OF ALL SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS WHERE THE FASTENER SPACING OF THE SHEATHING IS 4" APART OR LESS.
- SOILS PER CBC SECTION 1705.6, TABLE 1705.6, AND THE APPROVED SOILS REPORT INCLUDING SUBGRADE PREPARATION, FOUNDATION BEARING MATERIALS AND DEPTH OF EXCAVATIONS, AND VERIFICATION, PLACEMENT AND TESTING OF CONTROLLED FILL.
- DRILLED CONCRETE PIER FOUNDATIONS PER CBC SECTION 1705.8, TABLE 1705.8 AND THE APPROVED SOILS REPORT INCLUDING DRILLING OPERATIONS, PIER SIZE AND EMBEDMENT, END BEARING STRATA CAPACITY, AND PLACEMENT OF REINFORCEMENT AND CONCRETE. ADDITIONAL INSPECTIONS FOR CONCRETE ARE REQUIRED PER CBC SECTION 1705.3, AND AS NOTED ABOVE.
- SPECIAL CASES PER CBC SECTION 1705.1.1 AND PRODUCT ICC REPORTS FOR ALL STRUCTURAL MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN THE CBC OR REFERENCED STANDARDS INCLUDING POST-INSTALLED ANCHOR BOLTS IN CONCRETE AND CMU, AND PRE-MANUFACTURED SHEAR PANELS AND BRACED FRAMES.

DESIGN CRITERIA

DESIGN CRITERIA: 2019 CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2 (CBC) AND 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC) FLOOR LIVE LOAD: 50 PSF (REDUCIBLE) 20 PSF (REDUCIBLE) ROOF LIVE LOAD:

UTURE SOLAR: 8 PSF RISK CATEGORY: <u>WIND DATA</u>: ULTIMATE WIND SPEED (3 SEC GUST) IN MPH: 102

WIND EXPOSURE: C INTERNAL WIND PRESSURE COEFFICIENT (GCPI) = ±0.18 COMPONENTS AND CLADDING DESIGN PRESSURES FOR SYSTEMS DESIGNED BY OTHERS SHALL COMPLY WITH THE "ASCE 7-16"

DESIGN STANDARD EARTHQUAKE DATA: SEISMIC IMPORTANCE FACTOR, I. 1.5 MAPPED SPECTRAL RESPONSE ACCELERATIONS: S_S = 2.277g; S₁ = 0.880g SITE CLASS: C

SPECTRAL RESPONSE COEFFICIENTS: $S_{DS} = 1.822g$; $S_{D1} = 0.821g$ SEISMIC DESIGN CATEGORY: F SEISMIC FORCE RESISTING SYSTEM(S): WOOD FRAMED SHEAR WALLS AND STEEL ORDINARY MOMENT FRAMES RESPONSE MODIFICATION FACTOR(S): R = 6.5, R=3.5 DESIGN BASE SHEAR: 68k (ASD)

SEISMIC RESPONSE COEFFICIENT(S), $C_S = 0.420$, $C_S = 0.781$ (ULTIMATE) ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE SEISMIC FORCES ARE REDUCED TO 75% OF CURRENT CODE PER CEBC

MODIFICATIONS TO EXISTING BEARING WALL LOCATIONS, NEW FLOOR SCOPE: AND ROOF FRAMING, FULL SEISMIC RETROFIT, ASSOCIATED FOUNDATION WORK, AND TENANT IMPROVEMENTS.

GENERAL NOTES

- 1. REFER TO SHEETS <u>S101</u>, <u>S102</u>, <u>S103</u>, <u>S104</u> AND <u>S105</u> FOR STANDARD DETAILS OF CONSTRUCTION. REFER TO THE PROJECT SPECIFICATIONS FOR MATERIALS AND METHODS.
- 2. BUILDING DIMENSIONS SHOWN ARE FOR GENERAL REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS (SAD) FOR ALL ACTUAL BUILDING DIMENSIONS, ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER SO CLARIFICATION CAN BE MADE PRIOR TO COMMENCING WORK.
- STRUCTURAL DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS AND FIT SHALL BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING
- 4. DETAILS NOT FULLY OR SPECIFICALLY SHOWN SHALL BE OF SAME NATURE AS OTHER SIMILAR CONDITIONS.
- 5. REFER TO ARCHITECTURAL DRAWINGS FOR SIDEWALK SLABS AND DIMENSIONS.
- 6. COORDINATION OF MECHANICAL, ELECTRICAL, PLUMBING, AND SITE UTILITY SYSTEMS WITH THE STRUCTURAL SYSTEM IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. USE DETAILS ON SHEETS \$101 THROUGH \$105. AT CONDITIONS WHERE THESE DETAILS DO NOT APPEAR TO APPLY, NOTIFY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION. AT CONDITIONS WHERE FIELD MODIFICATIONS OF MECHANICAL, ELECTRICAL, PLUMBING, OR SITE UTILITIES AFFECT STRUCTURAL SYSTEMS, NOTIFY STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- VERIFY WEIGHTS AND LOCATIONS OF MECHANICAL UNITS WITH MECHANICAL ENGINEER PRIOR TO PLACEMENT. UNITS VARYING OVER 10% IN WEIGHT SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION (MECHANICAL WEIGHTS SHOWN ARE MAXIMUM). CONTRACTOR TO VERIFY MECHANICAL UNIT SIZES AND WEIGHTS AS INSTALLED PRIOR TO INSTALLATION OF SPECIAL FRAMING TO ENSURE CORRECT PLACEMENT UNDER CURBS, ETC. SEE 7/S104
- 8. SHORING AND BRACING DESIGN, MATERIALS AND INSTALLATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR, AND SHALL BE ADEQUATE FOR ALL LOADS. LEAVE IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY AND UNTIL FINAL STRUCTURAL CONSTRUCTION IS COMPLETED. THE CONTRACTOR SHALL ENGAGE A LICENSED CIVIL OR STRUCTURAL ENGINEER TO PROVIDE SHORING.
- 9. SPECIAL INSPECTIONS ARE REQUIRED PER <u>D/S001</u> AND THE TESTING AND INSPECTION FORM.
- 10. VEHICULAR TRAFFIC, HEAVY EQUIPMENT AND MATERIAL STAGING SHALL NOT BE ALLOWED ADJACENT TO ANY RETAINING/BASEMENT WALL, NEW OR EXISTING WITHIN A HORIZONTAL DISTANCE EQUAL TO THE WALL HEIGHT MEASURED FROM THE BOTTOM OF FOOTING OR 5'-0" WHICHEVER IS GREATER, UNLESS APPROVED BY THE STRUCTURAL ENGINEER OR NOTED OTHERWISE. WITHIN THIS ZONE, ONLY HAND-OPERATED EQUIPMENT ("WHACKERS", VIBRATORY PLATES, OR PNEUMATIC COMPACTORS) SHALL BE USED TO COMPACT THE BACKFILL SOILS.
- 11. STRUCTURAL OBSERVATION PER CBC SECTION 1704.6 IS REQUIRED. NOTIFY ZFA FOR GENERAL ON SITE REVIEW OF:
- MINIMUM FOOTING SIZE AND REINFORCING STEEL. WOOD SHEAR WALLS, SHEAR PANELS AND FLOOR/ROOF DIAPHRAGMS INCLUDING NAILING, BOLTING, ANCHORAGE AND OTHER FASTENING TO OTHER
- COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM. STRUCTURAL WOOD FRAMING.
- NOTIFY ZFA FOR REVIEW PRIOR TO COVERING ABOVE LISTED WORK. PROVIDE 2 WORKING DAYS MINIMUM SCHEDULING NOTICE PRIOR TO REVIEW DATE.
- 12. SUBMIT ENGINEERING FOR DEFERRED APPROVAL ITEMS TO ARCHITECT/ENGINEER FOR REVIEW AND SUBMITTAL TO THE BUILDING DEPARTMENT FOR APPROVAL PRIOR TO FABRICATION. DEFERRED APPROVAL ITEMS SHALL BE DESIGNED AND DETAILED BY MANUFACTURER TO ACCOMMODATE HORIZONTAL AND VERTICAL MOVEMENTS AS NOTED IN STRUCTURAL DRAWINGS. GENERAL CONTRACTOR SHALL REVIEW AND APPROVE DIMENSIONS AND DETAILS SHOWN ON THE SHOP DRAWINGS PRIOR TO SUBMITTAL. MANUFACTURER TO PROVIDE DRAWINGS AND CALCULATIONS DESIGNED IN ACCORDANCE WITH THE CBC AND SPECIFICATIONS, PREPARED AND SIGNED BY A CALIFORNIA LICENSED CIVIL OR STRUCTURAL ENGINEER FOR THE FOLLOWING ITEMS, UNLESS NOTED OTHERWISE:
 - A. ELEVATOR STRUCTURAL DESIGN AND DRAWINGS OF ELEVATOR GUIDES, RAILS, SUPPORTS, ETC, SHALL BE PROVIDED BY THE ELEVATOR MANUFACTURER/SUPPLIER. CONFORM TO CAL OSHA REQUIREMENTS

SHEET INDEX S001 GENERAL NOTES AND SPECIFICATIONS S002 GENERAL NOTES AND SPECIFICATIONS S101 TYPICAL CONCRETE DETAILS S102 TYPICAL CONCRETE GRADE BEAM DETAILS S103 TYPICAL WOOD DETAILS S104 TYPICAL WOOD DETAILS S105 TYPICAL STEEL FRAMING DETAILS S201 FOUNDATION PLAN S202 | SECOND FLOOR FRAMING PLAN S203 ROOF FRAMING PLAN

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S401	FOUNDATION DETAILS
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ZFA STRUCTURAL ENGINEERS

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STAMP



PROJECT ADDRESS

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PROJECT TEAM

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CONTACT: RON BLUE

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI

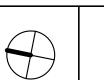
T: (415) 826-9626

NO.	DESCRIPTION	DAT
1	PRELIMINARY SCHEMATIC PRICING SET	9/27/20
3	50% DESIGN DEVELOPMENT	11/19/2
4	100% DESIGN DEVELOPMENT	12/17/2
5	PERMIT SUBMITTAL	4/01/20
JOB	NO.	

21479 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

GENERAL NOTES AND SPECIFICATIONS





- 1. PEN = PLYWOOD/OSB SHEATHING EDGE NAILING. BLOCK ALL UNSUPPORTED EDGES WITH 2x MATERIAL UNO. BLOCK EDGES WITH 3x MATERIAL WHERE NAILING IS 4"oc OR LESS. SEE 11/S103 FOR NAIL STAGGER AT ALL 3x
- 2. FIELD NAILING TO BE 12"oc UNO.
- 3. ALL SHEATHING NAILS TO BE COMMON WIRE. SEE E/S001 AND SPECIFICATIONS FOR OTHER NAIL REQUIREMENTS.
- 4. ALL EXTERIOR WALLS NOT DESIGNATED AS SHEAR WALLS ON PLANS TO HAVE SHEATHING AND PEN NAILING PER SHEAR WALL TYPE 'A'.
- 5. SHEAR WALL LENGTHS, WHERE NOTED, ARE MINIMUM. DO NOT LOCATE HOLDOWNS FROM THESE DIMENSIONS, SAD FOR ACTUAL WALL LENGTHS.
- 6. HOLDOWN REFERS TO SIMPSON STRONG TIE CO. HOLDOWNS. INSTALL HOLDOWNS AND REQUIRED POSTS PER 8/S103 AND 9/S103. SEE PLANS FOR OTHER REQUIREMENTS.
- 7. EDGE NAIL WALL SHEATHING TO STUDS OR POSTS WITH HOLDOWNS.
- 8. PORTIONS OF INTERIOR WALL SURFACES ADJACENT TO SPECIFIED SHEAR WALLS SHALL BE SHEATHED FOR THE FULL, UNINTERRUPTED LENGTH TO MATCH EXTERIOR WALLS OR WITH GYPSUM BOARD OF THE SAME THICKNESS TO PROVIDE AN EVEN WALL SURFACE FOR FINISH MATERIALS.
- 9. SHEAR WALLS MORE THAN ONE VERTICAL PANEL IN HEIGHT SHALL HAVE STAGGERED HORIZONTAL OR VERTICAL SPLICE JOINTS.
- 10. WHERE PANELS ARE APPLIED ON BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6"oc ON EITHER SIDE. PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3x OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED.
- 11. ANCHOR BOLTS (AB) FOR SHEAR WALLS SHALL INCLUDE STEEL PLATE WASHERS, A MINIMUM OF 0.229 INCH BY 3 INCHES SQUARE IN SIZE, BETWEEN THE SILL PLATE AND NUT. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE AB DIAMETER AND A SLOT LENGTH NOT TO EXCEED 13/4". PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. PLATE WASHER TO EXTEND WITHIN 1/2" OF SHEAR WALL SHEATHING UNO. PROVIDE OVERSIZED PLATE WASHER OR OFFSET AB AS REQUIRED. AT DOUBLE-SIDED SHEAR WALLS, STAGGER AB AS REQUIRED. AB TO BE PLACED A MINIMUM OF 4½" AND A MAXIMUM OF 12" FROM ENDS OF ALL SILL PLATES AND AT NOTCHES IN SILL PLATES.
- 12. NO OPENINGS ARE ALLOWED IN SHEAR WALLS UNLESS SHOWN ON THE STRUCTURAL PLANS. OPENINGS NOTED ARE PER6/S103. COORDINATE ANY OPENINGS NOT SHOWN WITH THE STRUCTURAL ENGINEER.

ADMINISTRATIVE REQUIREMENTS FOR ESSENTIAL SERVICE \ FACILITIES

THE ADMINISTRATIVE REQUIREMENTS SHALL BE MET IN ACCORDANCE WITH THE CALIFORNIA ADMINISTRATIVE CODE (CAC) CHAPTER 4; ARTICLES 1, AND 3 FOR NON-STATE OWNED OR STATE LEASED ESSENTIAL SERVICES BUILDINGS.

- 1. APPROVED PLANS AND SPECIFICATIONS PER CAC SECTION 4-207 APPROVED PLANS AND SPECIFICATIONS SHALL MEAN, PLANS, SPECIFICATIONS, ADDENDA AND CHANGE ORDERS WHICH HAVE BEEN DULY APPROVED BY THE APPROPRIATE ENFORCEMENT AGENCY PURSUANT TO SECTIONS 16013 AND 16016 OF THE HEALTH AND SAFETY CODE AND WHICH ARE IDENTIFIED BY A STAMP BEARING THE NAME OF THE ENFORCEMENT AGENCY. THE IDENTIFICATION NUMBER, THE DATE AND SIGNATURE OF THE QUALIFIED REVIEWER AS REQUIRED IN SECTION 16011 OF THE ESSENTIAL SERVICES BUILDING SEISMIC SAFETY ACT OF 1986 (ACT).
- 2. OBSERVATIONS OF WORK PER CAC SECTION 4-211 (a) THE OBSERVATION OF WORK OF CONSTRUCTION, RECONSTRUCTION, ALTERATION OR ADDITION SHALL BE UNDER THE GENERAL RESPONSIBLE CHARGE OF THE ARCHITECT, STRUCTURAL ENGINEER, CIVIL ENGINEER OR, UNDER CERTAIN CONDITIONS, A REGISTERED MECHANICAL OR ELECTRICAL ENGINEER FOR WORK INVOLVING ONLY THOSE RESPECTIVE BRANCHES OF ENGINEERING. A GEOTECHNICAL ENGINEER SHALL PROVIDE THE OBSERVATIONS FOR PLACEMENT OF FILLS AND SHALL SUBMIT A VERIFIED REPORT ATTESTING TO THE COMPLIANCE OF THE ENGINEERED FILL.
- 3. PROJECT INSPECTOR PER CAC SECTION 4-211 (b) THE OWNER MUST PROVIDE FOR AND REQUIRE COMPETENT, ADEQUATE AND CONTINUOUS INSPECTION OF ALL CONSTRUCTION WORK BY A PROJECT INSPECTOR APPROVED FOR EACH INDIVIDUAL PROJECT BY THE ENFORCEMENT AGENCY.
- 4. SPECIAL INSPECTION PER CAC SECTION 4-211 (c) SPECIAL INSPECTION BY INSPECTORS SPECIALLY APPROVED BY THE ENFORCEMENT AGENCY MAY BE REQUIRED PER THE STATEMENT OF SPECIAL INSPECTION FORM AND AS SUMMARIZED PER D/S0.1.
- 5. SUPERVISION OF CONSTRUCTION BY THE ENFORCEMENT AGENCY PER CAC SECTION 4-212 DURING THE CONSTRUCTION, RECONSTRUCTION, REPAIR, ALTERATION OF OR ADDITION TO ANY ESSENTIAL SERVICES BUILDING. THE ENFORCEMENT AGENCY AS PROVIDED IN THE ACT SHALL MAKE SUCH SITE VISITS AND OBSERVATIONS AS IN ITS JUDGMENT IS NECESSARY OR PROPER FOR ENFORCEMENT OF THE ACT AND THE PROTECTION OF THE SAFETY OF THE OCCUPANT OF THE BUILDING AND THE PUBLIC.
- 6. TESTING PER CAC SECTION 4-213 (a) GENERAL. TESTS OF MATERIALS ARE REQUIRED AS SET FORTH IN THE APPROVED PLANS AND SPECIFICATIONS AND IN PART 2, TITLE 24, CCR AND D/S0.1. A LIST OF ALL REQUIRED TESTS OF MATERIALS AND OF ALL REQUIRED SPECIAL INSPECTIONS SHALL BE PREPARED AND SUBMITTED BY THE ARCHITECT, STRUCTURAL ENGINEER, OR CIVIL ENGINEER IN GENERAL RESPONSIBLE CHARGE OF THE PROJECT AT THE TIME THE PLANS AND SPECIFICATIONS ARE STAMPED FOR IDENTIFICATION BY THE ENFORCEMENT AGENCY.
- 7. VERIFIED REPORTS PER CAC SECTION 4-214 ALL PARTIES DEFINED IN SECTION 4-214 SHALL SUBMIT VERIFIED REPORTS TO THE ENFORCEMENT AGENCY. THESE REPORTS SHALL STATE THAT THE WORK DURING THE PERIOD COVERED BY THE REPORT HAS BEEN PERFORMED AND MATERIALS HAVE BEEN USED AND INSTALLED IN EVERY MATERIAL RESPECT IN COMPLIANCE WITH THE DULY APPROVED PLANS AND SPECIFICATIONS.
- 8. CHANGES IN THE APPROVED PLANS AND SPECIFICATIONS PER CAC SECTION 4-215 ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS EXCEPT WHERE DOCUMENTS AUTHORIZING CHANGES HAVE BEEN SUBMITTED BY THE RESPONSIBLE ARCHITECT OR REGISTERED ENGINEER TO THE ENFORCEMENT AGENCY FOR REVIEW AND APPROVAL. THESE DOCUMENTS SHALL DESCRIBE THE AUTHORIZED CHANGES, SHOW THE INCREASE OR DECREASE IN THE CONTRACT COST INVOLVED AND SHALL CONTAIN THE SIGNATURES OF THE RESPONSIBLE ARCHITECT OR REGISTERED ENGINEER AND THE OWNER AND SHALL BEAR THE APPROVAL STAMP OF THE ENFORCEMENT AGENCY.
- 9. FINAL CERTIFICATION OF COMPLIANCE PER CAC SECTION 4-216 THE CERTIFICATION OF COMPLIANCE FOR THE ESSENTIAL SERVICES BUILDING SHALL BE ISSUED BY THE ENFORCEMENT AGENCY WHEN THE PROJECT HAS BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS AS TO SAFETY OF DESIGN AND CONSTRUCTION WITH SECTION 16000-16023 OF THE HEALTH AND SAFETY CODE (ESSENTIAL SERVICES BUILDING SEISMIC SAFETY ACT) AND WITH THE REQUIREMENTS OF THE CAC. THE CERTIFICATION OF COMPLIANCE WILL BE EVIDENCED BY A LETTER OR A CERTIFICATE OF OCCUPANCY EACH OF WHICH SHALL CONTAIN A STATEMENT THAT THE BUILDING DESIGN AND REVIEW OF THE WORK OF CONSTRUCTION HAVE BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 16000 THROUGH 16023 OF THE HEALTH AND SAFETY CODE AND OF PART 1, TITLE 24, CCR. THE CERTIFICATE OF COMPLIANCE WILL BE DIRECTED TO THE OWNER OF THE ESSENTIAL SERVICES BUILDING.
- 10. DUTIES PER CAC 4-217 THROUGH 4-220 EACH PARTY, AS DEFINED IN THESE SECTIONS, SHALL COMPLY WITH THE DUTIES STATED IN EACH SECTION.



(INFORMATION SHOWN IS FOR STRUCTURAL DESIGN REFERENCE ONLY. SEE THE PROJECT SPECIFICATIONS FOR ALL MATERIAL SPECIFICATIONS.)

CONCRETE 28-DAY MINIMUM DESIGN STRENGTH: F'_c = 3,000 PSI FOUNDATIONS F'_c = 3,000 PSI DRILLED PIERS

F'_c = 3,000 PSI INTERIOR SLAB ON GRADE REINFORCING STEEL:

ASTM A615 GRADE 60 OR A706 GRADE 60 ($F_v = 60,000 \text{ PSI}$)

STRUCTURAL STEEL (UNO): W SHAPES - ASTM A992 (Fy = 50,000 PSI) ANGLES, CHANNELS, AND PLATES - ASTM A36 (Fy = 36,000 PSI) RECTANGULAR HSS - ASTM A500 GRADE C (Fy = 50,000 PSI) ROUND HSS - ASTM A500 GRADE C (Fy = 46,000 PSI) PIPES - ASTM A53 GRADE B (Fy = 35,000 PSI)

FASTENERS: MACHINE BOLTS SHALL BE ASTM A307 GRADE A

HIGH STRENGTH BOLTS SHALL BE ASTM F3125 GRADE A325 OR F1852 UNO ANCHOR RODS SHALL BE ASTM F1554 GR 36 UNO ARC-WELDING ELECTRODES SHALL BE E70

WOOD BASE DESIGN STRESSES (UNO):

SAWN LUMBER MEMBER	SPECIES AND MINIMUM GRADE, UNO	F _b (PSI)	F _v (PSI)	E (PSI)
6x POSTS	DOUGLAS FIR - #1	1200	170	1.6x10 ⁶
6x BEAMS	DOUGLAS FIR - #1	1350	170	1.6x10 ⁶
4x POSTS & BEAMS	DOUGLAS FIR - #1	1000	180	1.7x10 ⁶
2x JOISTS, RAFTERS	DOUGLAS FIR - #2	900	180	1.6x10 ⁶
P MATERIAL	DOUGLAS FIR - #2	900	180	1.6x10 ⁶
2x STUDS	DOUGLAS FIR - #2	900	180	1.6x10 ⁶

GLUE-LAMINATED WOOD DESIGN STRESSES:

 $F_b = 2,400 \text{ PSI}, F_v = 265 \text{ PSI FOR SIMPLE SPAN BEAMS}.$

MANUFACTURED WOOD PRODUCTS:

LVL (JOISTS)	$F_b = 2,600 PSI$	E = 2.0x10° PSI
LSL (BLOCKING, LEDGERS)	$F_{b} = 1,700 \text{ PSI}$	$E = 1.3x10^6 PSI$
PSL (BEAMS, JOISTS)	$F_{b} = 2,900 \text{ PSI}$	$E = 2.2x10^6 PSI$
PSL (POSTS)	$F_c = 2,500 PSI$	$E = 1.8x10^6 PSI$
	(PARALLEL)	

FOR METAL CONNECTOR DESIGNATION REFER TO SIMPSON STRONG-TIE PER SPECIFICATIONS.

EXISTING CONSTRUCTION NOTES

- 1. IN PREPARING THE PROJECT PLANS, THE SOURCE OF INFORMATION WAS BASED ON THE EXISTING BUILDING PLANS PREPARED BY, JEFFRIES LYONS AND HILL ARCHITECTS, DATED SEPTEMBER 19, 1969, THE CONTRACTOR SHALL VERIFY ALL EXISTING JOB CONDITIONS, REVIEW THE PLANS AND VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ALL DISCREPANCIES AND EXCEPTIONS BEFORE PROCEEDING WITH ANY WORK. DRAWINGS FOR THE EXISTING CONSTRUCTION ARE AVAILABLE FOR REVIEW.
- 2. ALL WORK NOT INDICATED AS EXISTING (E) SHALL BE ASSUMED TO BE NEW (N).
- 3. ANY REMOVAL, CUTTING, DRILLING, ETC OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE. SMALL TOOLS SHALL BE USED IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE STRUCTURE. IF STRUCTURAL MEMBERS OR MECHANICAL, ELECTRICAL, OR ARCHITECTURAL ELEMENTS NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ARCHITECT/ENGINEER SHALL BE IMMEDIATELY NOTIFIED AND PRIOR APPROVAL SHALL BE OBTAINED BEFORE REMOVAL OF THE MEMBERS.
- 4. DO NOT OVER CUT EXISTING WOOD, CONCRETE, MASONRY OR OTHER WORK TO REMAIN. CUTS SHALL BE MADE NEATLY TO A CORNER, THEN ALTERNATE MEANS SHALL BE USED TO REMOVE REMAINING MATERIAL. CONTRACTOR IS RESPONSIBLE FOR REPAIR/REPLACEMENT OF OVER CUT MATERIAL AS DIRECTED BY THE ARCHITECT AND/OR ENGINEER.
- 5. EXISTING DAMAGED STRUCTURAL MEMBERS WHICH ARE UNCOVERED SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND REPAIR.
- 6. EXISTING CONCRETE SURFACE ABUTTING NEW CONCRETE SHALL BE ROUGHENED TO 1/4" AMPLITUDE AND THOROUGHLY CLEANED OF DUST, LOOSE AGGREGATE, LAITANCE, ETC.
- 7. EXISTING REINFORCING AND/OR STEEL EMBEDS THAT ARE EXPOSED DURING DEMOLITION SHALL BE WIRE-BRUSHED AND FOREIGN MATERIAL REMOVED PRIOR TO PLACEMENT OF NEW CONCRETE.
- 8. REMODELING REQUIRES ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS WHICH MAY NOT BE VERIFIABLE WITHOUT DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIONS OF THE STRUCTURE. THIS ANALYSIS DOES NOT MAKE ANY GUARANTEE TO THE ADEQUACY OF THE STRUCTURAL DESIGN OF THE EXISTING BUILDING NOT SPECIFICALLY ADDRESSED IN THE STRUCTURAL CALCULATIONS. ZFA SHALL NOT BE RESPONSIBLE FOR UNSATISFACTORY PERFORMANCE OF EXISTING PORTIONS OF THE STRUCTURE NOT SPECIFICALLY ADDRESSED IN THE CONSTRUCTION DOCUMENTS.
- 9. DIFFERENTIAL SETTLEMENT BETWEEN NEW AND EXISTING CONSTRUCTION AT REMODEL OR ADDITION FOUNDATION INTERFACES CAN BE EXPECTED. ZFA SHALL NOT BE RESPONSIBLE FOR UNSATISFACTORY PERFORMANCE RESULTING FROM THESE CONDITIONS.

ZFA STRUCTURAL ENGINEERS

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NO.	DESCRIPTION	DATE
1	PRELIMINARY SCHEMATIC PRICING SET	9/27/202
3	50% DESIGN DEVELOPMENT	11/19/20
4	100% DESIGN DEVELOPMENT	12/17/20
5	PERMIT SUBMITTAL	4/01/202

21479 KENSINGTON FIRE PROTECTION DISTRICT DESCRIPTION

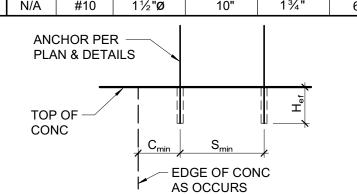
PUBLIC SAFETY BUILDING

GENERAL NOTES AND SPECIFICATIONS



(11)	SLAB BLOCKOUT
(14)	1" = 1'-0"

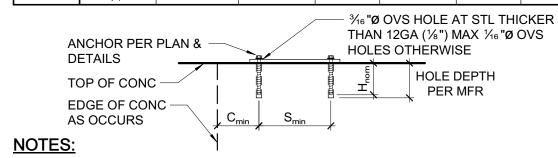
A	ADHES	IVE ANG	CHOR IN	2500 PSI	MIN CON	CRETE	
ADHESIVE	ANC	HOR	PILOT	MIN EMBED	MIN EDGE	MIN	MIN CONC
TYPE	THRD ROD	REBAR	HOLE	UNO H _{ef}	DISTANCE C _{min}	SPCG S _{min}	DEPTH H _{min}
	3/8 "Ø	#3	½ "Ø	3"	13/4"	3"	H _{ef} + 2½"
	½" ø	#4	5⁄8 "Ø	4"	1¾"	3"	H _{ef} + 31//8"
SIMPSON	5⁄8 "Ø	#5	3/4 "Ø	5"	13/4"	3"	H _{ef} + 3 ³ / ₄ "
SET-XP (ICC-ESR	3/4 "Ø	#6	7∕8 "Ø	6"	1¾"	3"	H _{ef} + 4 ³ / ₈ "
2508)	7∕8 "∅	#7	1"Ø	7"	1¾"	3"	H _{ef} + 4"
	1"Ø	#8	11/8 "ø	8"	1¾"	3"	H _{ef} + 5%"
	1¼"ø	#10	1% "ø	10"	2¾"	6"	H _{ef} + 6 1/8 "
	¾ " Ø	N/A	7∕ ₁₆ "Ø	3"	1¾"	1%"	
	N/A	#3	½ "Ø	3"	1¾"	11/8"	11 . 41/11
HILTI HIT-	½ "ø	N/A	%16 "Ø	4"	1¾"	2½"	H _{ef} + 1¼"
HY 200R	N/A	#4	5∕8 "Ø	4"	1¾"	2½"	
(ICC-ESR	5% "∅	#5	3 ⁄4"Ø	5"	1¾"	31/8"	H _{ef} + 1½"
3187)	3/4 "Ø	#6	7∕8 "Ø	6"	1¾"	3¾"	H _{ef} + 1 ³ / ₄ "
	7∕8 "ø	#7	1"Ø	7"	1¾"	4%"	H _{ef} + 2"
	1"Ø	#8	11/8 "ø	8"	1¾"	5"	H _{ef} + 21/4"
	N/A	#9	1¾" Ø	9"	1¾"	5%"	H _{ef} + 2 ³ / ₄ "
	1¼"ø	N/A	1¾"Ø	10"	1¾"	61/4"	□ l□ef ▼ ∠ 74
	N/A	#10	1½"ø	10"	1¾"	61/4"	H _{ef} + 3"



- NOTES:
- 1. INSTALL ADHESIVE ANCHORS PER MANUFACTURER'S INFORMATION AND ICC
- 2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING, AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
- 3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN DRILLING HOLES IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
- 4. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705 AND THE REQUIREMENTS OF THE ICC REPORTS. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND ADHESIVE INJECTION.

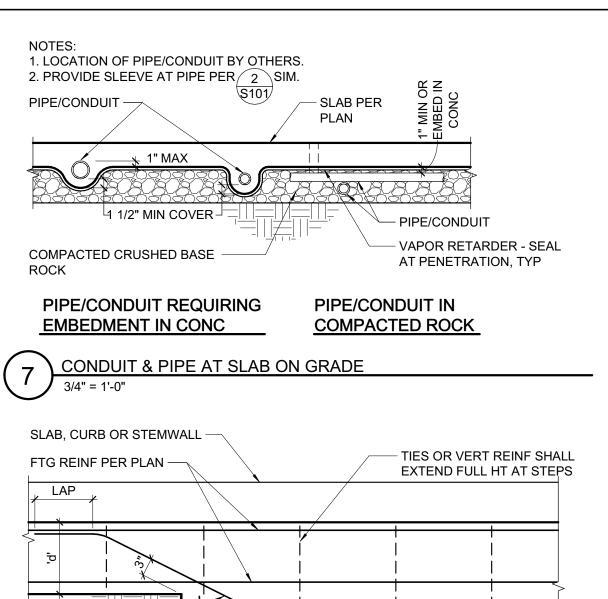


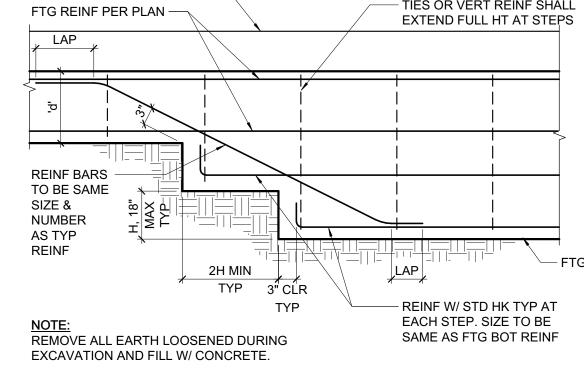
SCREW ANCHOR IN 2500 PSI MIN CONCRETE										
ANCHOR TYPE	ANCHOR AND PILOT HOLE DIA	MINIMUM EMBEDMENT H _{nom}	MINIMUM EDGE DIST C _{min}	MINIMUM SPCG S _{min}	MINIMUM CONCRETE THICKNESS H _{min}	MINIMUM INSTALL TORQUE (FT-LB)	MAXIMUN INSTALL TORQUE (FT-LB)			
	1/4"	1%"	1½"	1½"	31/4"	10	24			
OIMPOON	3/8"	2½"	13/4"	3"	4"	10	50			
SIMPSON TITEN HD	1/2"	31/4"	1¾"	3"	5"	10	65			
(ICC-ESR	5/8"	4"	13/4"	3"	6"	10	100			
2713)	3/4"	5½"	13/4"	3"	8¾"	20	150			
	1/4"	1%"	1½"	1½"	31/4"	10	18			
HILTI	3/8"	2½"	1½"	3"	4"	10	40			
KH-EZ (ICC-ESR	1/2"	3"	13/4"	3"	43/4"	10	45			
	5/8"	31/4"	13/4"	4"	5"	10	85			
3027)	3/4"	4"	1¾"	4"	6"	20	95			

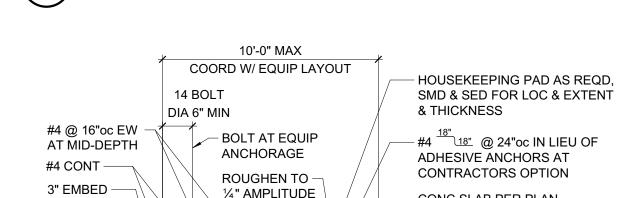


- 1. INSTALL SCREW ANCHORS PER MANUFACTURER'S INFORMATION AND ICC REPORT INSTRUCTIONS. SPECIAL INSPECTION IS REQUIRED PER SECTION 1705 OF THE CBC AND THE REQUIREMENTS OF THE ICC REPORTS. INSTALLED ANCHORS SHALL BRING CONNECTED PLIES INTO FIRM CONTACT, MEETING THE INSTALL TORQUE BUT NOT EXCEEDING THE MAXIMUM INSTALL TORQUE.
- 2. CONTRACTOR TO VERIFY MINIMUM EDGE DISTANCES, SPACING AND THICKNESS ARE IN ACCORDANCE W/ SCHEDULE PRIOR TO INSTALLING ANCHOR.
- 3. HOLES TO BE DRILLED W/ ROTARY DRILL ONLY. WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A REASONABLE CLEARANCE BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR. FILL ABANDONED HOLES W/ HIGH STRENGTH GROUT.
- 4. THE SPECIAL INSPECTOR SHALL PERFORM PERIODIC/CONTINUOUS INSPECTION IN ACCORDANCE WITH TABLE 1705.3. THE SPECIAL INSPECTOR SHALL INSPECT ANCHOR TYPE, ANCHOR DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, DRILL BIT DIAMETER, HOLE DEPTH, EDGE DISTANCE(S), ANCHOR SPACING(S), CONCRETE THICKNESS, AND TIGHTENING









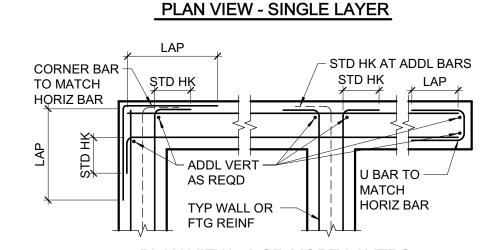
-#4 18" @ 24"oc IN LIEU OF ADHESIVE ANCHORS AT **CONTRACTORS OPTION** 1/4" AMPLITUDE - CONC SLAB PER PLAN AT ADHESIVE ANCHOR, SEE TYP SLAB REINF —— 2" MIN -- #4x ADHESIVE ANCHOR COVER AT — THICKEN SLAB AS REQD @ 24"oc TYP AT PERIMETER **ADHESIVE** ((3) MIN ES) ANCHOR

ROUGHEN JT TO EXPOSE REINF CONT THRU AGGREGATE TO 1/4" OR LAP PER (1) AMPLITUDE KEY FROM BEVELED 2x8

TYPICAL HOUSEKEEPING PAD AT SLAB ON GRADE

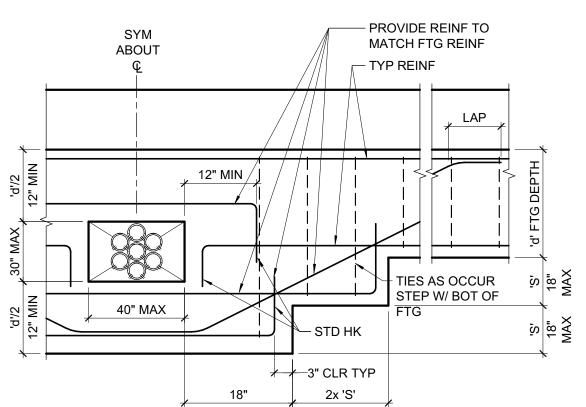
DO NOT LOCATE WITHIN 48" OF HOLDOWN OR COL LOCATION OF JOINTS TO BE SUBMITTED TO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PLACEMENT OF CONCRETE

STD – ADDL VERT — (2) ADDL -AS REQD VERT AS - CORNER BAR TO REQD MATCH HORIZ BAR ∤ TYP WALL OR $-\!\!\!-\!\!\!/$ $\perp\!\!\!\!\perp$ FTG REINF



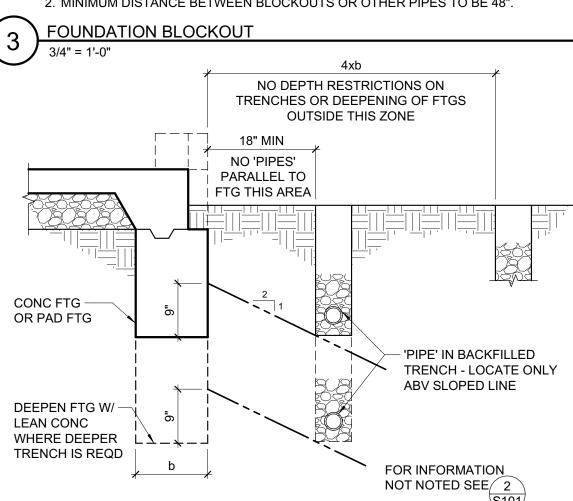
PLAN VIEW - 2 OR MORE LAYERS FOOTING REINFORCING AT CORNER AND INTERSECTION TO BE SIMILAR

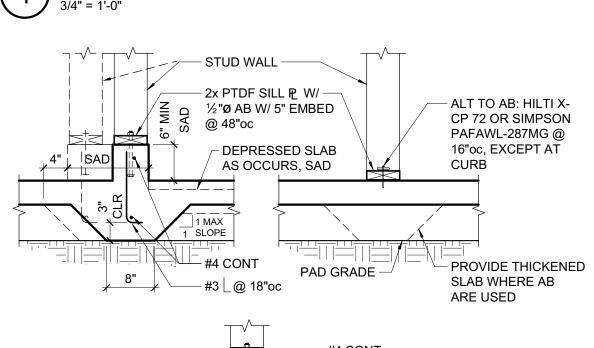
TYPICAL CORNER, INTERSECTION AND END REINFORCING



1. DO NOT LOCATE BLOCKOUT WITHIN 48" OF SHEAR WALL HOLD DOWN, IN FRAME FOUNDATIONS OR COLUMN PAD FOOTINGS.

2. MINIMUM DISTANCE BETWEEN BLOCKOUTS OR OTHER PIPES TO BE 48".

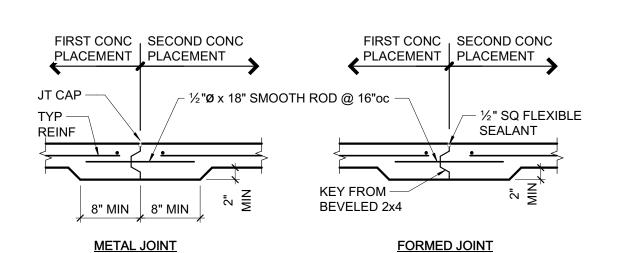




TRENCHING ADJACENT TO FOOTING

#4 CONT 4" EMBED AT ADHESIVE ANCHOR -#4x ∫ ADHESIVE ANCHOR @ 18"oc IN LIEU OF CIP DWL AT CONTRACTORS OPTION, SEE (S101) 2" MIN COVER AT ADHESIVE ANCHOR - ROUGHEN TO ¼" AMPLITUDE ALT CURB OPTION

NON-BEARING STUD WALL AT SLAB



- PLASTIC CJ OR - SAWCUT WITHIN 8 HOURS 1/8" MASONITE OR OF CONC PLACEMENT. ½" TOOLED JT FILLED USE JT SEALANT COMPOUND TO FILL CUT W/ FLEXIBLE SEALANT TYP SLAB ON GR TYP SLAB ON GR TYP REINF CONT THRU TYP REINF CONT THRU

SLAB ON GRADE JOINTS

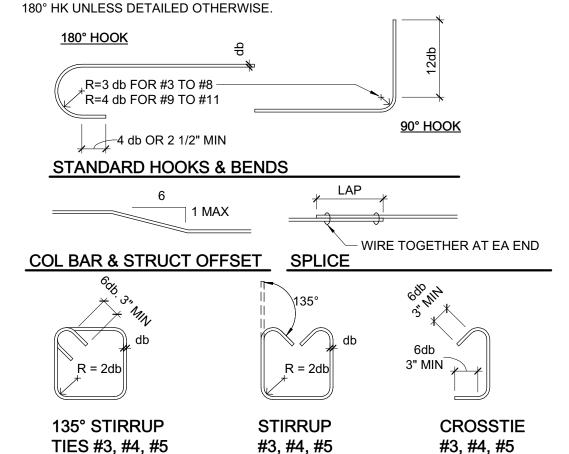
CONSTRUCTION/DOWEL JOINT

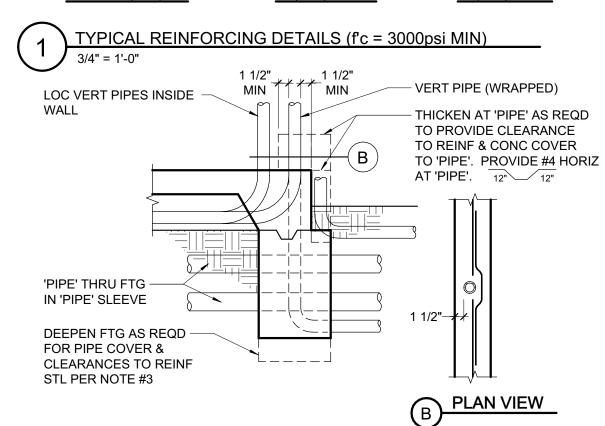
	MINIMUM BAR LAPS FOR REINFORCING STEEL CONCRETE STRENGTH: 3000 PSI OR GREATER - (STAGGER SPLICES)									
CONC	RETE STRENGT	H: 3000 P	SI OR GREATER	R - (STAGE	ER SPLICES)					
SIZE	LAP LENGTH	SIZE	LAP LENGTH	SIZE	LAP LENGTH					
#3	17"	#6	34"	#9	86"					
#4	24"	#7	56"	#10	105"					
#5	34" X	#8	70"	#11	126"					

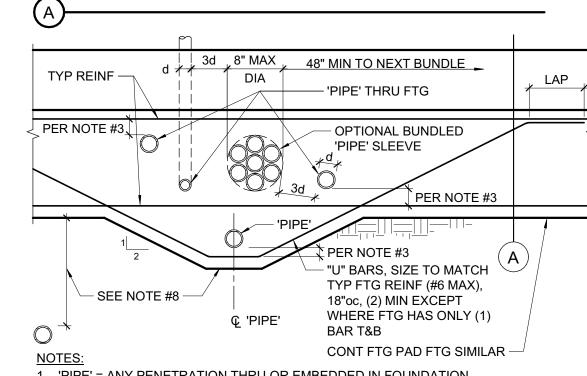
(CLASS B TOP BAR) BAR SPCG SHALL NOT BE LESS THAN 4x BAR DIA OR 4". * WHERE COVER NOT LESS THAN 1½", #5 LAP LENGTH = 28"

CONC COVER FOR REINF STL CAST AGAINST EARTH OR GR EXPOSED TO EARTH (FORMED) OR WEATHER #5 & SMALLER- -#6 & LARGER -NOT EXPOSED TO EARTH OR WEATHER #5 & SMALLER-#6 & LARGER, & ALL BM STIRRUPS, COL TIES & SPIRALS - - - - - 11/2"

ALL REINF SHALL EXTEND AS FAR AS POSSIBLE. WHERE BAR SPLICES ARE REQUIRED. BARS SHALL BE LAPPED PER SCHEDULE ABOVE UNLESS DETAILED OTHERWISE. WHERE REINF TERMINATES AT END OF MEMBER, REINF SHALL END IN A STD 90° OR







1. 'PIPE' = ANY PENETRATION THRU OR EMBEDDED IN FOUNDATION. 2. ALL PIPES THROUGH FOOTINGS TO BE WRAPPED OR SLEEVED AS FOLLOWS: a. SLEEVES: PROVIDE 1" MIN CLEAR ALL AROUND O.D. PIPE TO I.D. SLEEVE, UNO.

SEAL SLEEVE ENDS W/ MASTIC OR PLASTIC BITUMINOUS CEMENT. b. WRAPPED VERTICAL PIPES: PROVIDE 1/8" NOMINAL SHEET FOAM W/ (3) WRAPS MINIMUM, UNO. c. WRAPPED HORIZONTAL PIPES: PROVIDE 1/8" NOMINAL SHEET FOAM W/ (8)

d. UNDERGROUND FIRE LINES 4" AND LARGER: 1. SLEEVES: PROVIDE 2" MIN CLEAR ALL AROUND O.D. PIPE TO I.D. SLEEVE. SEAL ENDS PER ABOVE.

2. WRAPPED: PROVIDE 1/8" NOMINAL SHEET FOAM W/ (16) WRAPS MINIMUM. 3. WRAPPED AND SLEEVED PIPES SHALL HAVE 1½" MIN CLEAR TO REINF STEEL. MINIMUM CONCRETE COVER AT PIPES TO BE 3".

4. CLEARANCE BETWEEN 'PIPES' TO BE 3d MIN TYP W/ A MAXIMUM OF (8) PIPES PER 48". GROUPS OF PIPES MAY BE BUNDLED AS SHOWN, EXCEPT IN PAD FOOTINGS. 5. NO 'PIPE' TO RUN PARALLEL IN FOOTINGS, STEM OR CURB.

6. PVC CONDUIT ('PIPE') EMBEDDED IN CURB/STEM MAY BE WIRE TIED TO HORIZONTAL 7. NO HORIZONTAL PIPES ALLOWED THROUGH FOOTING WITHIN 2'-0" EACH SIDE OF

PROVIDE 18" MIN OF COMPACTED FILL ABOVE PIPES UP TO 12"Ø, FOR LARGER PIPES 8. INCREASE COMPACTED FILL DEPTH 1'-0" FOR EACH 6" INCREASE IN PIPE DIAMETER. OTHERWISE DEEPEN FOOTING AS SHOWN.

PIPES THRU FOOTING

HOLDOWNS OR STEEL COLUMNS.

WRAPS MINIMUM, UNO.

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PROJECT ADDRESS

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PROJECT TEAM

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HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS

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AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD T: (415) 255-9140

T: (831) 373-4390

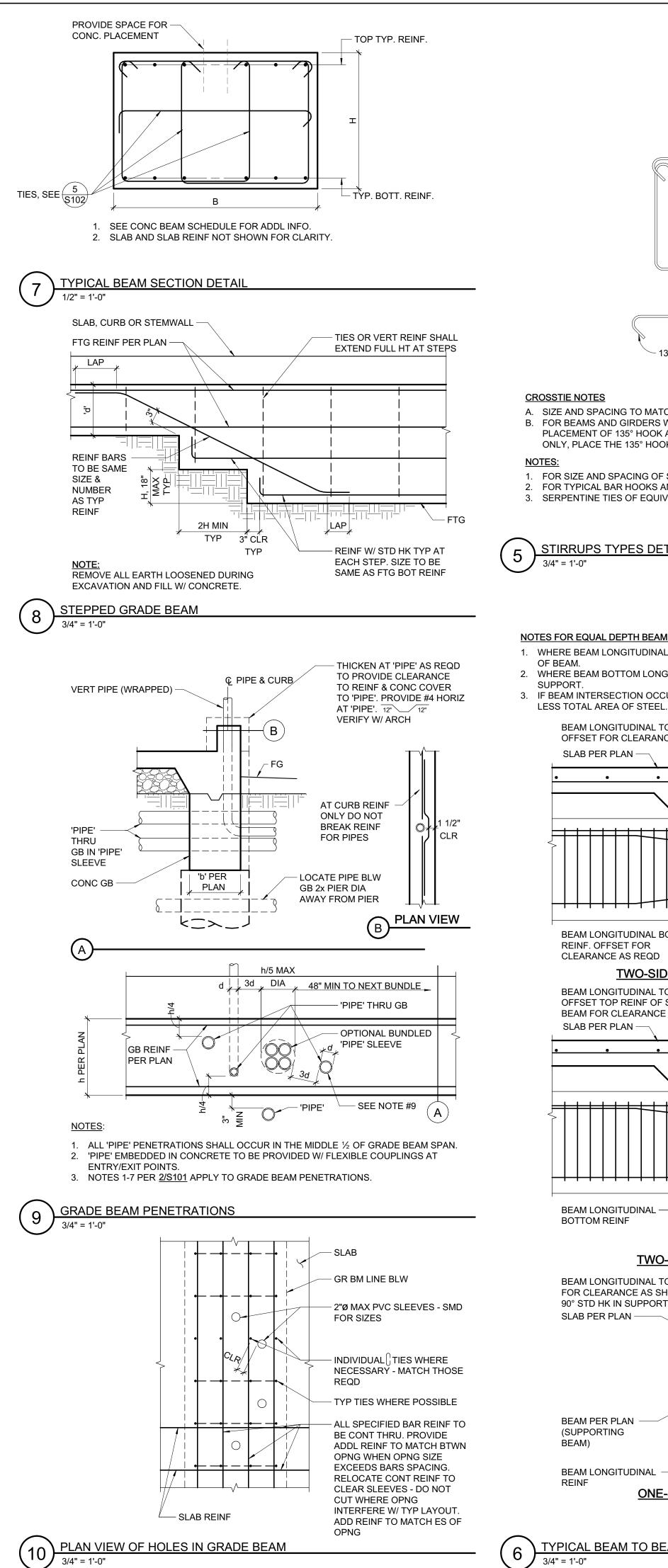
ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

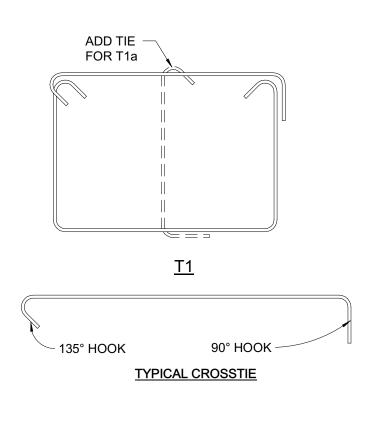
NO.	DESCRIPTION	DATE
1	PRELIMINARY SCHEMATIC PRICING SET	9/27/2021
3	50% DESIGN DEVELOPMENT	11/19/2021
4	100% DESIGN DEVELOPMENT	12/17/2021
5	PERMIT SUBMITTAL	4/01/2022
JOB 1	 NO.	
	470 KENGINGTON FIRE PROTECTION R	OTDIOT

21479 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

TYPICAL CONCRETE **DETAILS**



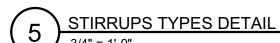


A. SIZE AND SPACING TO MATCH STIRRUPS OR TIES, TYP, UNO

B. FOR BEAMS AND GIRDERS WHERE SLAB OCCURS ON BOTH SIDES OF MEMBER, ALTERNATE PLACEMENT OF 135° HOOK AT EACH CONSECUTIVE CROSSTIE. WHERE SLAB OCCURS ON ONE SIDE ONLY, PLACE THE 135° HOOK ON THE SIDE WITHOUT SLAB AT EACH CONSECUTIVE CROSSTIE.

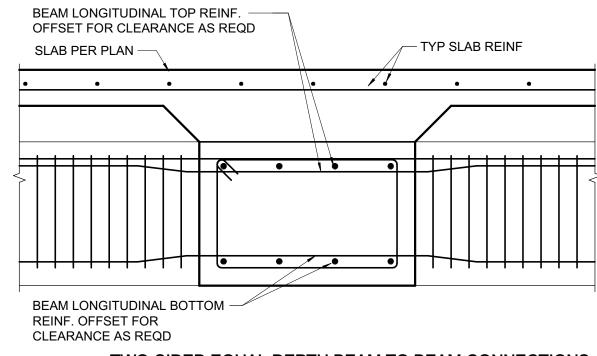
1. FOR SIZE AND SPACING OF STIRRUPS SEE SCHEDULE.

2. FOR TYPICAL BAR HOOKS AND BENDS SEE TYPICAL DETAILS. 3. SERPENTINE TIES OF EQUIVALENT CONFIGURATION ARE STRUCTURALLY ACCEPTABLE.

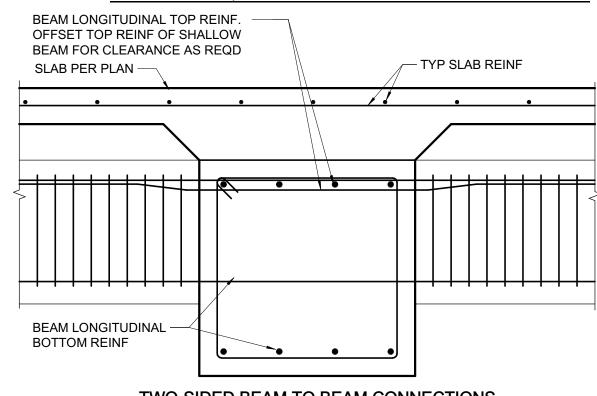


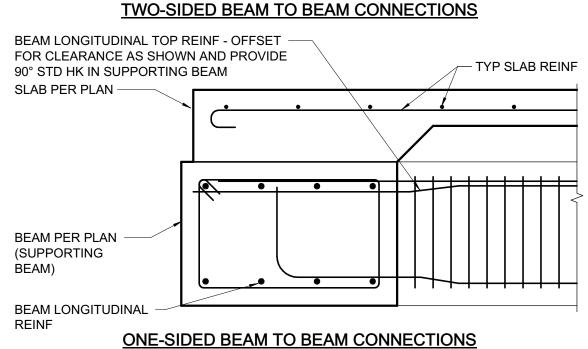
NOTES FOR EQUAL DEPTH BEAM CONNECTIONS:

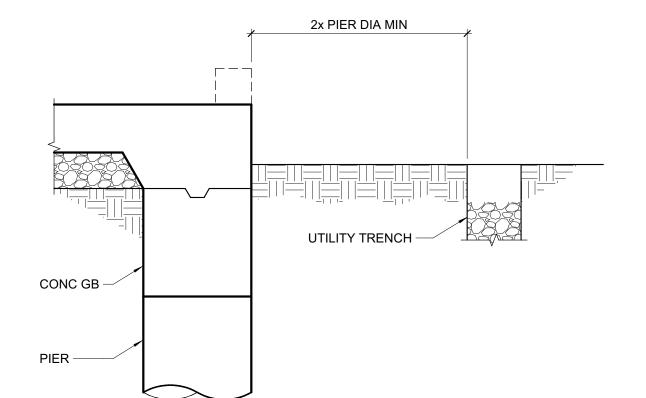
- 1. WHERE BEAM LONGITUDINAL TOP REINF CONFLICTS, OFFSET GROUP OF BARS CLOSEST TO MIDSPAN
- 2. WHERE BEAM BOTTOM LONGITUDINAL REINF CONFLICTS, OFFSET GROUP OF BARS CLOSEST TO
- 3. IF BEAM INTERSECTION OCCURS AT SAME LOCATION IN BOTH BEAMS OFFSET GROUP OF BARS WITH



TWO-SIDED EQUAL DEPTH BEAM TO BEAM CONNECTIONS







TRENCHING ADJACENT TO GRADE BEAM

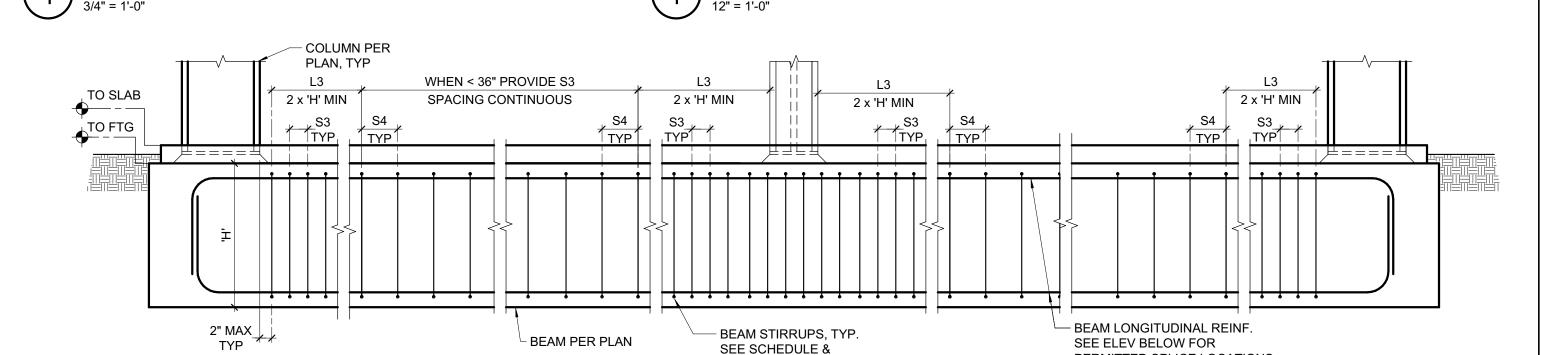
CONCRETE GRADE BEAM (GB) SCHEDULE													
			LON	IGITUDIN	IAL REINF	FORCEM	ENT	S ⁻	TIRRUPS	AND TIES	S		
MARK			ВОТ	воттом тор						SPAC	CING		
IVIARK	В	Н	TYP	ADD	TYP	ADD "A"	SIDE BARS	TYP	SIZE	S3	S4	LENGTH L ₃	REMARKS
GB24	24"	24"	(3)-#5	-	(3)-#5	-	-			12"	12"	FULL	
GB24A	24"	30"	(4)-#7	-	(4)-#7	-	-			6"	12"	5'	135° HK ES
GB30	30"	30"	(5)-#6	-	(5)-#6	-	-	T1	#4	12"	12"	FULL	
GB24B	24"	24"	(3)-#5	-	(3)-#5	-	-			6"	12"	4'	135° HK ES

PERMITTED SPLICE LOCATIONS

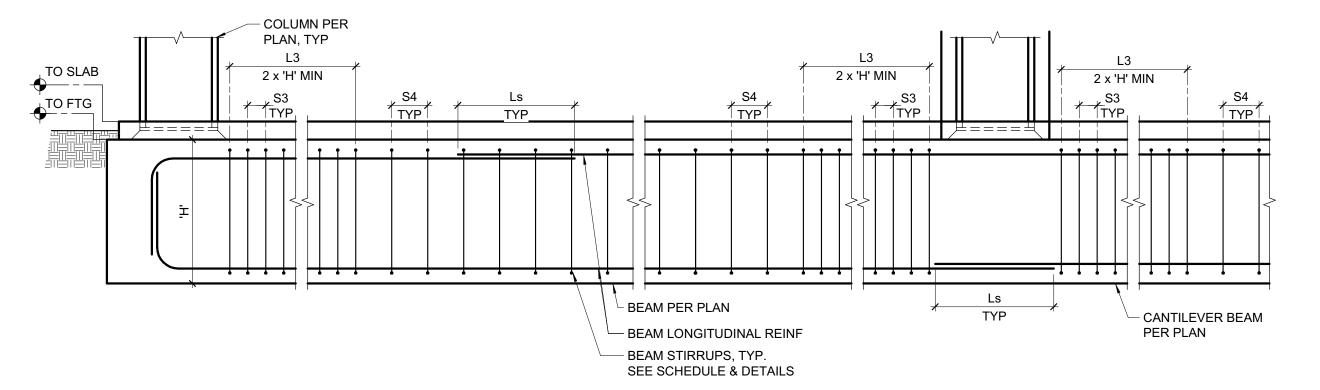
- 1. REFER TO DETAIL 2/S102, 7/S102, & 5/S102 FOR TYPICAL DEFENITION OF TERMS USED IN THIS TABLE.
- 2. ALL BEAM LONGITUDINAL REINF TO BE ASTM A706.

CONCRETE BEAM SCHEDULE

- 3. FOR TYPICAL GRAVITY COLUMN TO BEAM CONNECTION, SEE <u>5/S401</u>.
- 4. FOR TYPICAL BEAM TO BEAM INTERSECTION, SEE 6/S102



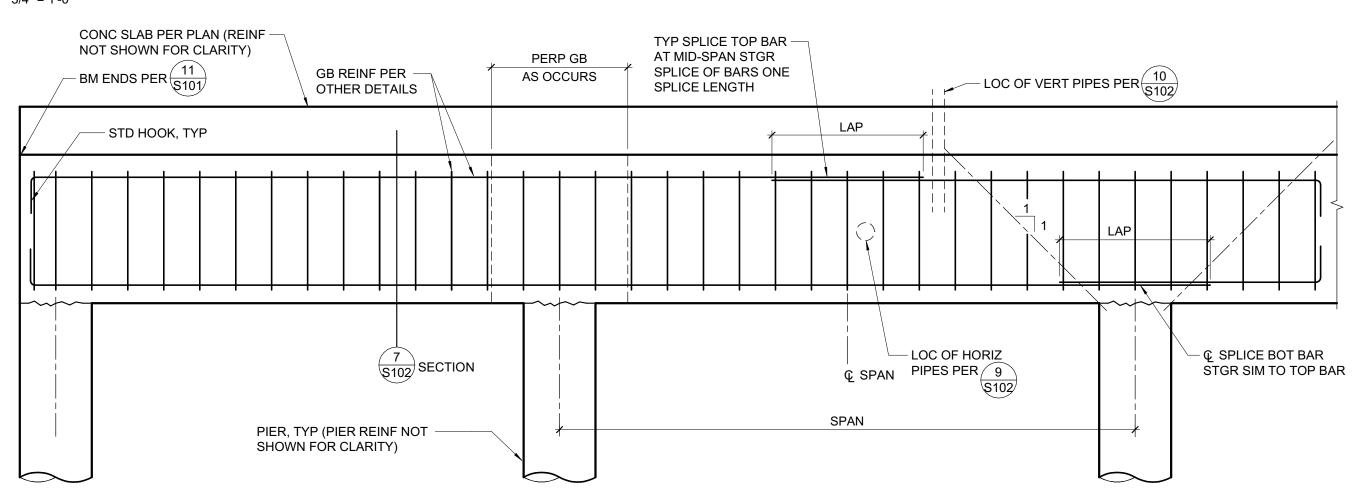
TYPICAL ELEVATION AT GRADE BEAM SUPPORTING GRAVITY COLUMN



TYPICAL GRADE BEAM ELEVATION

- 1. LAP TOP BEAM LONGITUDINAL BARS AT MIDSPAN & BOTTOM BARS OVER SUPPORTS. SEE 1/S101 FOR LAP LENGTHS.
- 2. BEAM LONGITUDINAL BARS TO BE TERMINATED WITH 90° STANDARD HOOK UNLESS DETAILED OTHERWISE. 3. WHERE BAR EXTENSIONS ARE NOTED IN PLAN OR IN OTHER SPECIFIC DETAILS THIS LENGTH GOVERNS.
- 4. COLUMN TIES AND LONGITUDINAL REINF TO EXTEND THROUGH BEAM COLUMN JOINT.





GRADE BEAM REINFORCING SPLICE DETAIL

ZFA STRUCTURAL ENGINEERS

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HALEY ALDRICH GEOTECH: 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS

LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE

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T: (415) 255-9140 ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26

SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

DESCRIPTION PRELIMINARY SCHEMATIC PRICING SET 9/27/2021 50% DESIGN DEVELOPMENT 11/19/2021 100% DESIGN DEVELOPMENT 12/17/2021 PERMIT SUBMITTAL 4/01/2022

21479 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

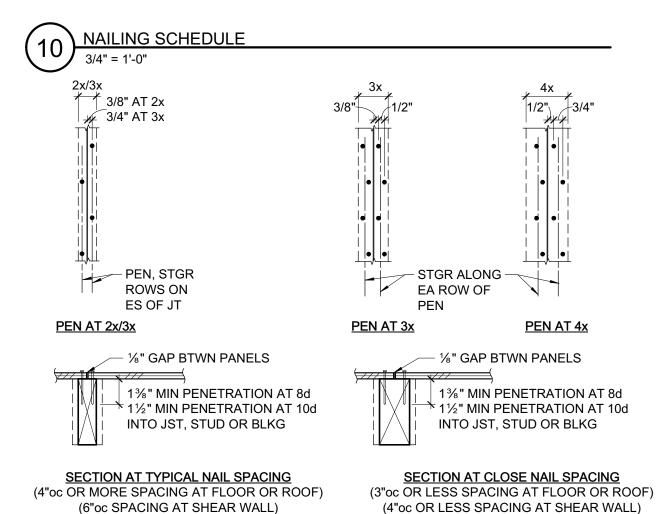
TYPICAL CONCRETE **GRADE BEAM DETAILS**

S102

2x BLKG AT ALL UNSUPPORTED -EDGES, 3x BLKG AS REQD PER AB TO OCCUR WITHIN SW SCHED AND WHERE SHTG MIDDLE THIRD OF SILL P., OCCURS ON ES OF WALL INCREASE P WASHER SIZE AS REQD 1/2" MAX CLR, P WASHER EDGE TO INSIDE FACE OF SILL P SIZE, AB SIZE, AND SHTG AB SPCG PER SW SCHED, GALV P WASHER MIN 0.229" x 3" SQ _____ **BOT OF WALL CONDITION** VARIES, SEE PLAN **SECTION**



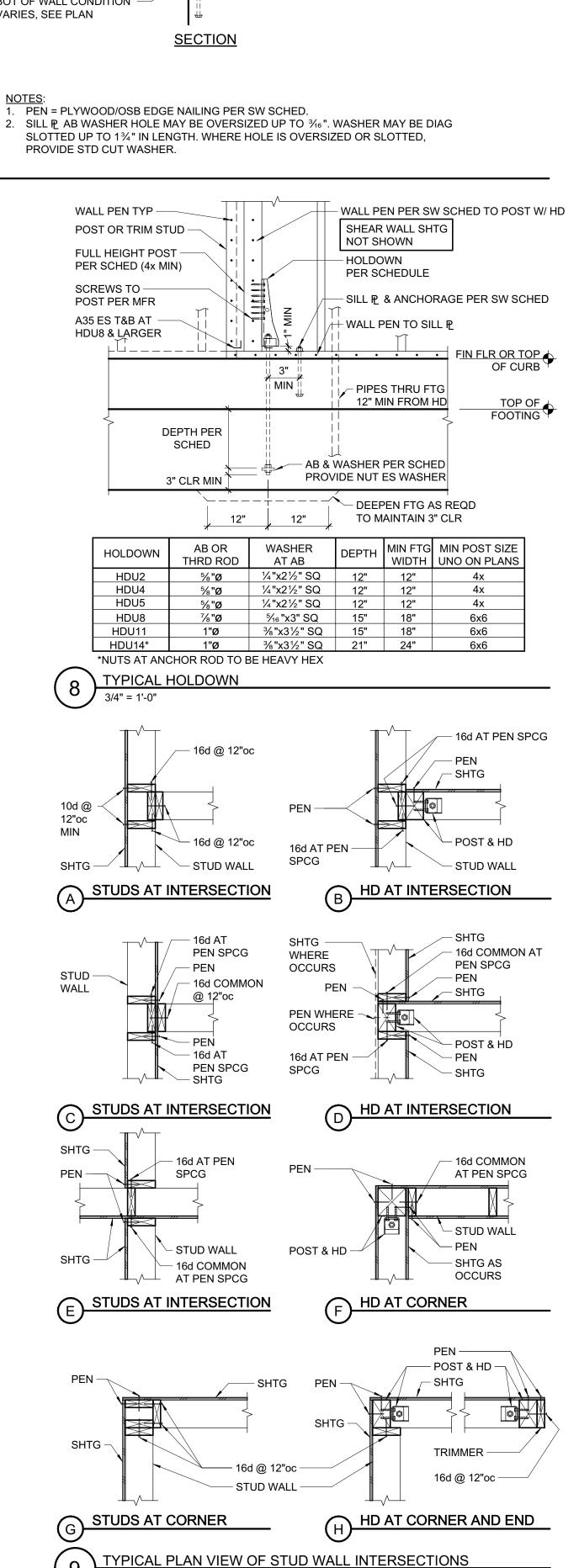
RIM JOIST TO TOP P, TOE NAIL	10d @ 6"oc
TRUSSES, JOISTS OR RAFTERS AT ALL BEARING POINTS TOE NAILS EACH SIDE	(2) 10d
TRUSSES, JOISTS OR RAFTERS TO SIDE OF STUDS	(2) Tuu
FIGURE (0) INCLUDING OF LESS	(3) 16d
EIGHT (8) INCH JOISTS OR LESS FOR EACH ADDITIONAL 4 INCHES OF DEPTH OF JOIST	(1) 16d
BLOCKING BETWEEN JOISTS OR RAFTERS:	(1) 10u
TO JOIST OR RAFTERS - TOE NAILS EA SIDE, EA END	(2) 10d
TO JOIST OR RAFTERS - TOE NAILS EA SIDE, EA END TO JOIST OR RAFTER BEARINGS - TOE NAILS EA SIDE	(2) 10d (2) 10d
DI OCKING DETWEEN CTUDE FACILEND TOE MAILS EA SIDE	(2) 10d OP (2) 16d
BLOCKING BETWEEN STUDS, EACH END TOE NAILS	(2) 100 OIX (2) 100
BRIDGING TO JOIST, TOE NAIL EACH END 2" SUBFLOOR TO JOIST OR GIRDER, BLIND & FACE NAIL	(2) 16d
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d @ 16"oc
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL TO THE TO SOLE PLATE TO JOIST OR BLOCKING AT	11111110000
DDACED WALL DANIELS	(3) 16d @ 16"oc
BRACED WALL PANELS TOP PLATE TO STUD, END NAIL	(0) 10d @ 10 00
STUD TO SOLE DI ATE TOE NAIL	(2) 10d
DOUBLE STUDS AT EXTERIOR WALLS, FACE NAIL	16d @ 24"oc
DOUBLE STUDS, FACE NAIL	100 @ 24 00 12"nc
DOUBLE STUDS AT EXTERIOR WALLS, FACE NAIL DOUBLE STUDS, FACE NAIL DOUBLE TOP PLATES, FACE NAIL TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	(3) 16d
CONTINUOUS HEADER, TWO PIECES 16d @ 16"oc /	ALONG FACH FDGE
DOLIDI E TOD DI ATE I AD AT CODNED	(3) 16d
DOUBLE TOP PLATE LAP AT CORNER CONTINUOUS HEADER TO STUD, TOE NAIL	(0) 10d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
CEILING JOIGTS, EALS OVERT ARTITIONS, FACE NAIL	(6) 16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	16d @ 12"oc
POST TO SILL/SOLE/TOP PLATE, EACH SIDE TOE NAIL	(4) 10d
1 001 TO GILL/OOLL/TOT I LATE, LACTISIDE TOE NAIL	(1) 100

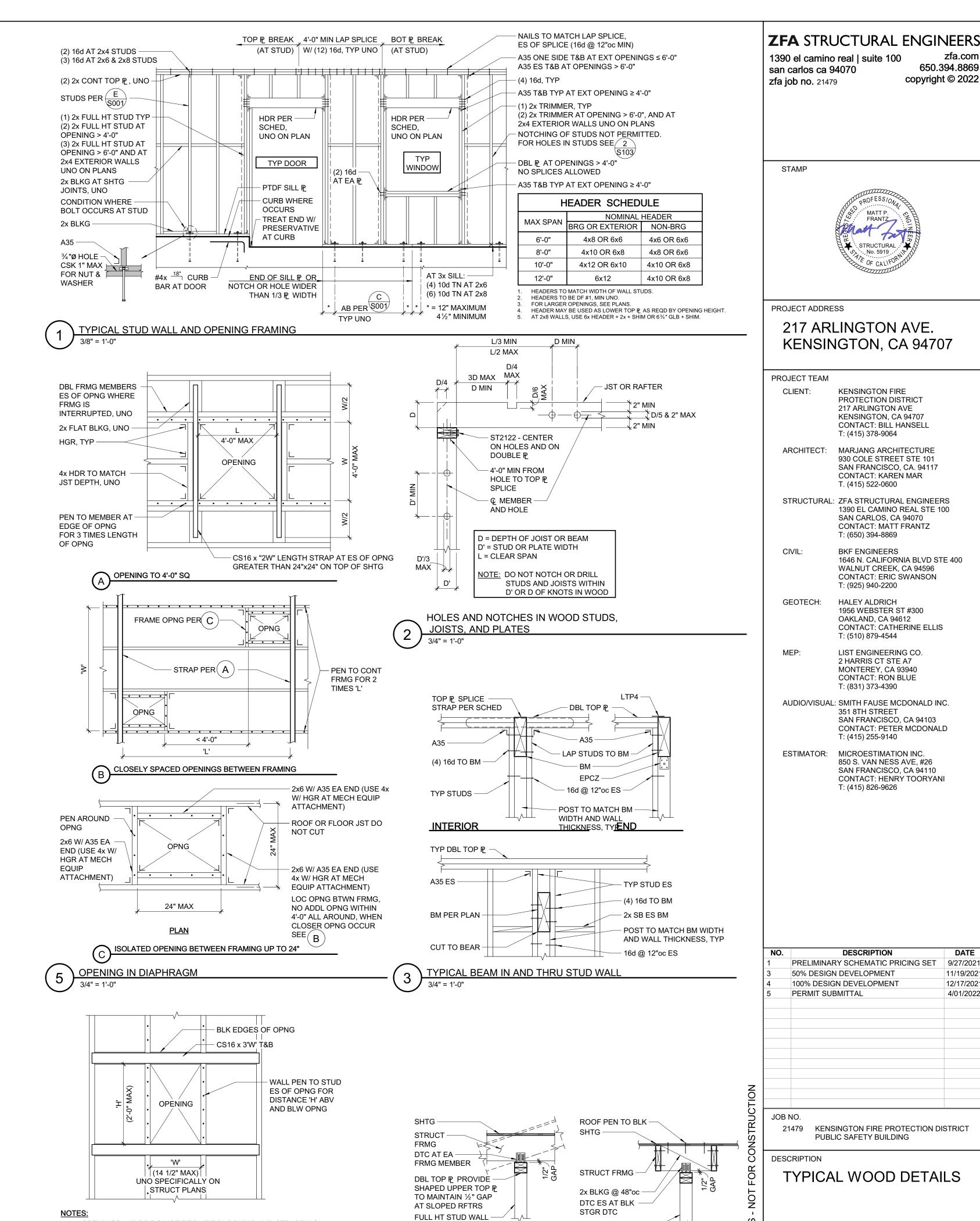


SHEATHING SHEETS ARE TO BE AS LARGE AS POSSIBLE. STAGGER SHEETS. JOINTS ARE TO BE CENTERED OVER BEARING. NAIL HEADS SHALL BE DRIVEN FLUSH W/ SHEATHING. MINIMUM SHEATHING SIZE IS 24" WIDTH x 48" LENGTH AT FLOOR AND ROOF, AND 12"x48" AT WALLS.

SHEATHING NAILING

1 1/2" = 1'-0"





OPENINGS < 6" SQ DO NOT REQUIRE BLOCKING AND STRAPPING.

4. FRAME OPENINGS PER 1/S103 WHERE STUDS ARE INTERRUPTED.

3. NO OPENINGS PERMITTED IN SHEAR WALL $\langle C \rangle$ OR HIGHER OR IN SHEAR WALLS LESS THAN 10'-0" LONG UNLESS SPECIFICALLY DETAILED ON

STRUCTURAL PLANS. CONTACT STRUCTURAL ENGINEER FOR ASSISTANCE.

NO ADDITIONAL OPENINGS WITHIN 4'-0" ALL AROUND.

SMALL OPENINGS IN SHEAR WALLS

3/4" = 1'-0"

S103

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HALEY ALDRICH

T: (510) 879-4544

PROTECTION DISTRICT

KENSINGTON, CA 94707

CONTACT: BILL HANSELL

MARJANG ARCHITECTURE

CONTACT: KAREN MAR

SAN CARLOS, CA 94070

CONTACT: MATT FRANTZ

WALNUT CREEK, CA 94596

CONTACT: ERIC SWANSON

1956 WEBSTER ST #300

CONTACT: CATHERINE ELLIS

SAN FRANCISCO, CA 94103

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SAN FRANCISCO, CA 94110

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351 8TH STREET

T: (415) 255-9140

T: (415) 826-9626

DESCRIPTION

PUBLIC SAFETY BUILDING

FULL HT

STUD WALL

PARALLEL

PERPENDICULAR

TYPICAL NON-STRUCTURAL STUD WALL DETAILS

INSTALL SLOT NAILS AT ¢ OF SLOT

W/ 1/16" GAP BTWN NAIL HEAD & CLIP

 $4)\frac{1}{3/4"=1'-0"}$

DATE

9/27/2021

11/19/2021

12/17/2021

4/01/2022

930 COLE STREET STE 101

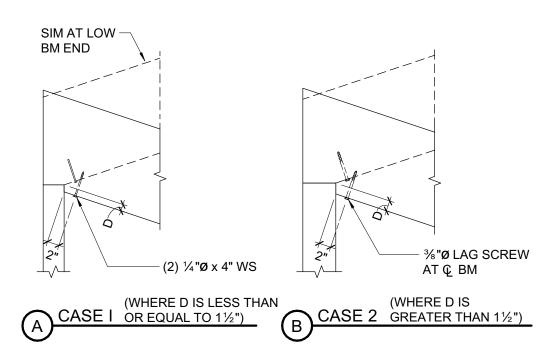
SAN FRANCISCO, CA. 94117

1390 EL CAMINO REAL STE 100

1646 N. CALIFORNIA BLVD STE 400

217 ARLINGTON AVE

NECHANICAL CURB DETAIL ABOVE 4x OR GLB

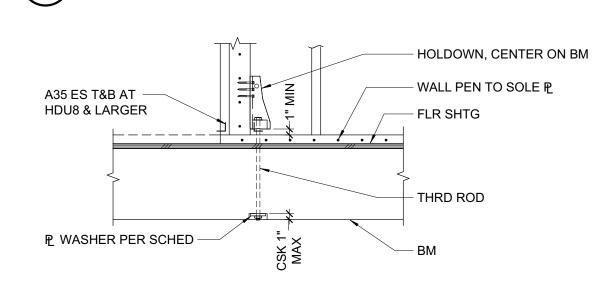


3/4" = 1'-0"

1. DO NOT OVERCUT NOTCHES OR SEAT CUTS. 2. D MAX = BEAM DEPTH/4 SEE OTHER DETAILS FOR ADDITIONAL NOTCH OR SEAT CUT SIZE INFORMATION.

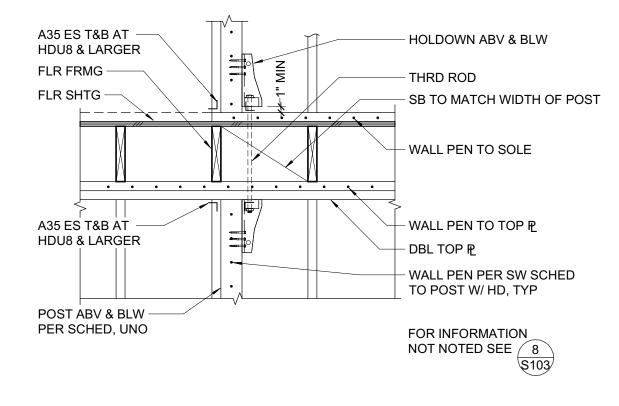
BEAM SEAT CUT/NOTCH REINFORCEMENT

3. MINIMUM LAG SCREW LENGTH = D + 2½".



HOLDOWN	₽ WASHER
HDU2	1/4"x21/2" SQ
HDU4	1/4"x21/2" SQ
HDU5	1/4"x21/2" SQ
HDU8	5⁄16 "x3" SQ
HDU11	5∕16 "x3" SQ
HD12	3/8"x31/2" SQ

TYPICAL HOLDOWN OVER BEAM

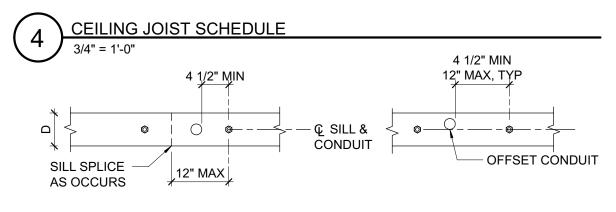


TYPICAL HOLDOWN FROM FLOOR TO FLOOR 10) TYPICAL 3/4" = 1'-0"

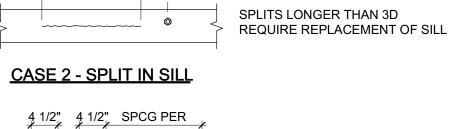
CEILING JOIST SCHEDULE HANGER IF MAX SPAN | JOIST SIZE LEDGER IF REQUIRED REQUIRED LU24 2x4 W/ (2) 16d @ 16"oc 9'-0" 2x4 @ 16"oc 12'-6" LU26 2x6 W/ (3) 16d @ 16"oc 2x6 @ 16"oc 14'-0" 2x8 @ 16"oc LU28 2x8 W/ (4) 16d @ 16"oc 19'-0" 2x10 @ 16"oc LU210 | 2x10 W/ (5) 16d @ 16"oc

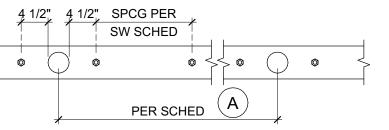
1.5D < L < 3D 4 1/2"

- 1. CEILING JOIST SCHEDULE IS BASED ON LL = 10 psf.
- 2. WHERE LEDGERS ARE NAILED THROUGH WALL SHTG, USE 20d NAILS IN LIEU OF 16d NAILS.
- PROVIDE MIDSPAN BLOCKING AT 2x10 JOISTS.

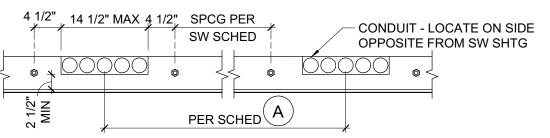


CASE 1 - SINGLE, CONDUIT DIAMETER ≤ D/3, MIN SPCG = 16"oc





CASE 3 - SINGLE, CONDUIT DIAMETER > D/3



CASE 4 - NOTCH FOR CONDUIT

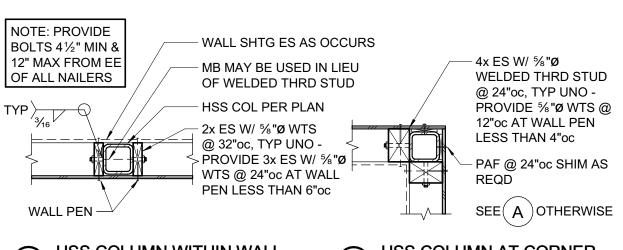
4 1/2"	14 1/2" 4 1/2" MAX	SPCG PER SW SCHED	*	
> 0 (ı	© >> ©	© >
		PER SCHI	ED A	

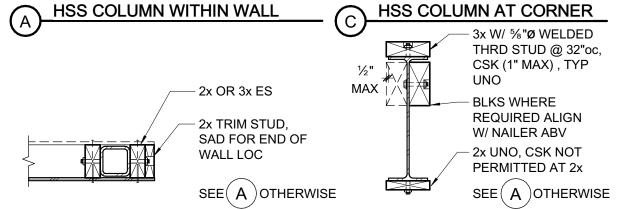
CASE 5 - MULTI CONDUIT, DIAMETER > D/3

SCHEDULE A					
	CASE 3	CASE 4	CASE 5		
$sw\langle A \rangle$	48"	32"	48"		
sw(B)	64"	48"	64"		
sw(C)	80"	64"	N/A		
SW(D)	N/A	N/A	N/A		

1. ALL PENETRATIONS THROUGH SHEAR WALL SILL PLATE SHALL CONFORM TO THE REQUIREMENTS OF THIS DETAIL OR BE REROUTED PRIOR TO INSTALLATION OF SILL. 2. PROVIDE ADDITIONAL ANCHOR BOLTS AS REQUIRED TO MEET INDICATED SPACINGS. ADDITIONAL ANCHOR BOLTS TO BE INSTALLED AT CENTERLINE OF SILL PLATE PER <u>13/S101</u> WHERE NECESSARY. AB DIA AS REQD BY SW

SCHED. HOLES IN PLATES AT 2x6 SHEAR WALLS





HSS COLUMN AT END OF WALL WIDE FLANGE NAILER (EDGE OF OPNG SIM) (CHANNEL & HSS SIM)

TYPICAL STEEL BEAM/COLUMN NAILERS

TOP PLATE SPLICE SCHEDULE MARK | LAP SPLICE (CASE 1) STRAP SPLICE (CASE 2) (12) 16d PER 4'-0" MIN LAP MSTC28 (22) 16d PER 4'-0" MIN LAP MSTC40 (26) 16d PER 6'-0" MIN LAP MSTC52 (32) 16d PER 6'-0" MIN LAP MSTC66 (36) 16d PER 8'-0" MIN LAP MSTC28 EA SIDE (44) 16d PER 8'-0" MIN LAP MSTC40 EA SIDE (50) 16d PER 10'-0" MIN LAP MSTC52 EA SIDE PROVIDE CONTINUOUS TOP PLATE. DO NOT SPLICE.

1. AT LAP SPLICES, SPACE NAILS @ 3"oc MIN (MAX 12"oc). STAGGER AT 2½" GAGE. 2. USE STRAP SPLICE WHERE BM INTERSECTS TOP P.

3. NAILS TO MATCH LAP SPLICE ES OF SPLICE (16d @ 12"oc MAX)

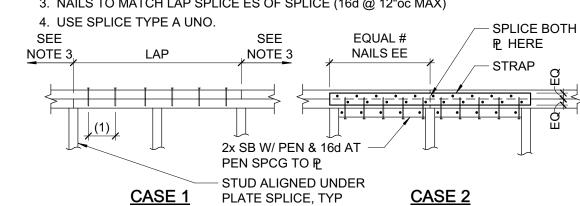
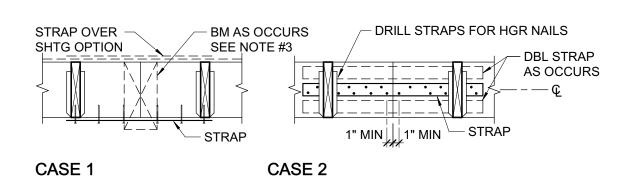
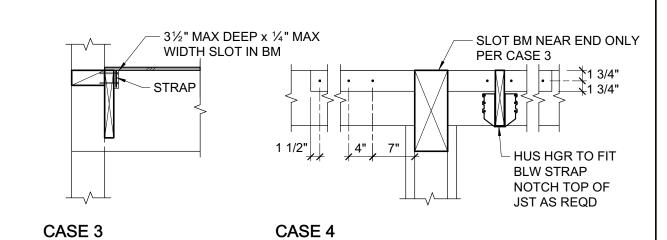


PLATE SPLICE, TYP TOP PLATE SPLICE SCHEDULE AND DETAILS

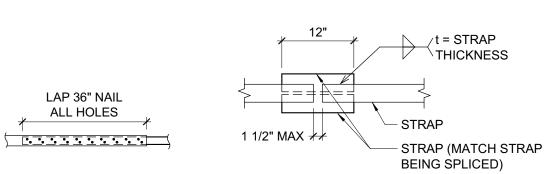
	LE	OGER SPLICE						
MARK	CASE	STRAP/PLATE	CASE	STRAP/PLATE	SPLICE NOTES: 1. PROVIDE 3x OR (2) 2x			
A	1	MSTA24	-		STUDS AT SPLICE			
B	1	MSTA30	-		2. ALL NAILS TO BE 10d			
©	2	MSTI48	3	MSTI60	NAIL ALL HOLES			
(D)	2	CMST14x5'-6"	3	CMST14x6'-0"	3. FOR CASE 1, SPLICE W. MSTA36 AT BM			
⟨ E ⟩	2	(2) MSTI48	4	配 1/4" W/ (6) 1"Ø MB ES OF SPLICE				
⟨ F ⟩	PROVI	IDE CONTINUOUS	R. DO NOT SPLICE.	4. USE SPLICE TYPE 'A' UNO				





EDGER OR RIM SPLICE SCHEDULE

NAILED LAP SPLICE

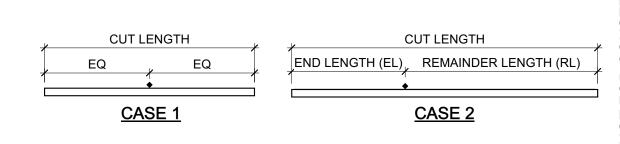


ALTERNATE - WELDED LAP SPLICE

	TIE STRAP SCHEDULE								
MADIC	MIN.		MAX (SE	MIN. END					
MARK	STRAP	NAILING ES OF ◆	CASE 1	CAS	SE 2	LENGTH			
		E3 OF •	CAGE 1	EL	RL	(EL)			
A	CS16	(10) 10d	10d @ 4"oc STGR	FILL ALL NAIL HOLES	10d @ 4"oc STGR	12"			
B	CS14	(13) 10d	10d @ 4"oc STGR	FILL ALL NAIL HOLES	10d @ 4"oc STGR	16"			
©	CMSTC16	(25) 10d	10d @ 3"oc STGR	FILL ALL NAIL HOLES	10d @ 3"oc STGR	24"			
(D)	CMST14	(33) 10d	10d @ 3½"oc STGR	FILL ALL NAIL HOLES	10d @ 3½"oc STGR	32"			
Œ	CMST12	(43) 10d	10d @ 3½"oc STGR	FILL ALL NAIL HOLES	10d @ 3½"oc STGR	48"			

1. CASE 1 APPLIES UNLESS END LENGTH (EL) IS NOTED ON PLANS. WHERE END LENGTH (EL) IS NOTED, SEE CASE 2.

2. AS REQUIRED, PROVIDE CLOSER NAIL SPACING TO MEET MINIMUM NAILING EACH SIDE OF ◆



3. LOCATE STRAPS OVER SHEATHING AND BLOCK UNDER STRAP W/ FLAT 2x6 (2x4 AT CS16/CS14) WHERE NO FRAMING OCCURS, UNO.

4. SEE PLANS FOR STRAP LENGTHS, LOCATIONS AND DETAILS, UNO. 5. SPLICE STRAPS AS SHOWN WHERE LENGTH PER PLAN EXCEEDS AVAILABLE PRODUCT LENGTH

3/4" = 1'-0"

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CONTACT: RON BLUE

CONTACT: PETER MCDONALD T: (415) 255-9140

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

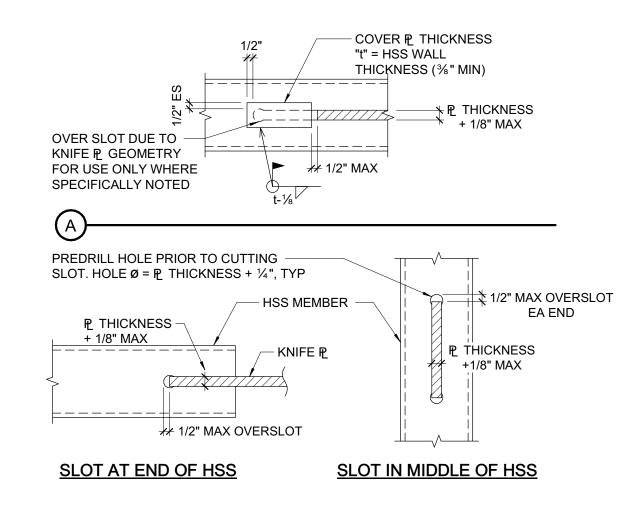
NO.	DESCRIPTION	DATE
1	PRELIMINARY SCHEMATIC PRICING SET	9/27/202
3	50% DESIGN DEVELOPMENT	11/19/202
4	100% DESIGN DEVELOPMENT	12/17/202
5	PERMIT SUBMITTAL	4/01/202

21479 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

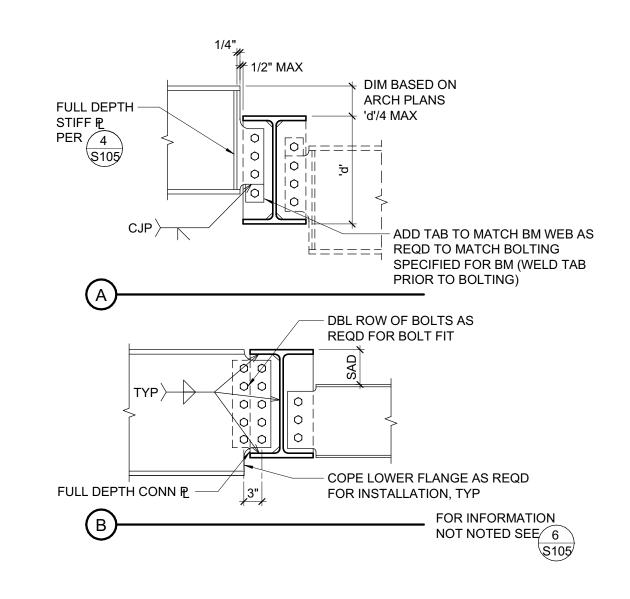
DESCRIPTION

TYPICAL WOOD DETAILS

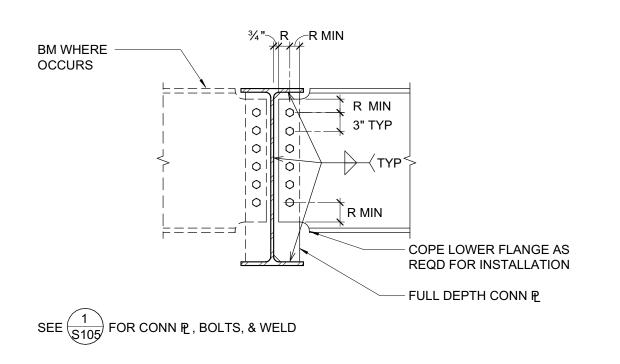
TYPICAL CAP PLATE



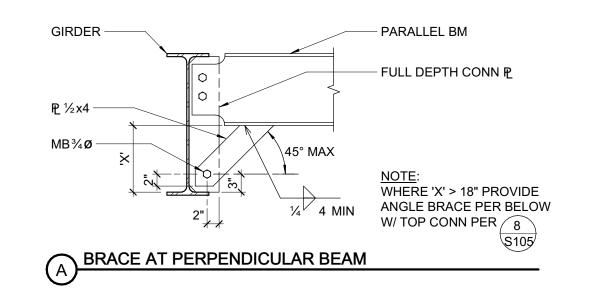
TYPICAL SLOTTED HSS FOR GUSSET CONNECTION

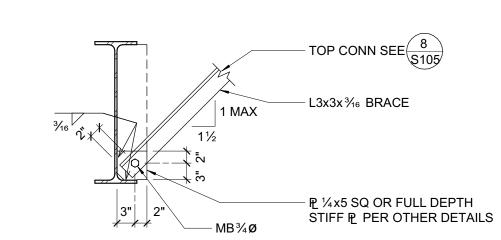


TYPICAL BEAM TO BEAM CONNECTIONS 3/4" = 1'-0"

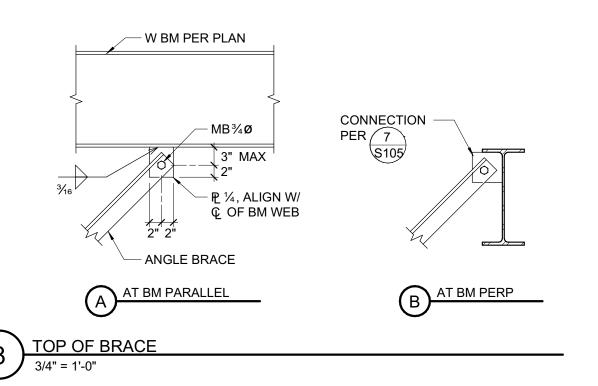


TYPICAL FULL DEPTH BEAM TO BEAM CONNECTION





TYPICAL BEAM BOTTOM FLANGE BRACE
3/4" = 1'-0"

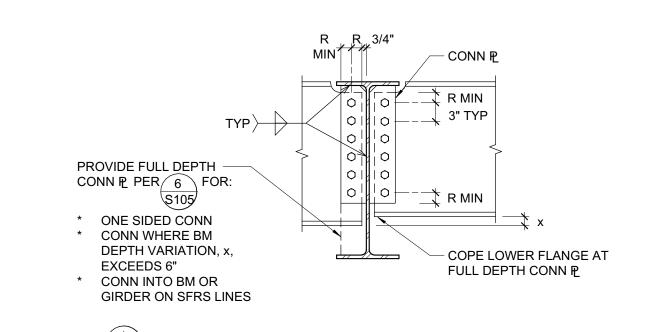


BEAM DEPTH NO. BOLTS CONN. PLATE WELD PER ROW SIZE W8, W10 ⁵/₁₆" ₽% W12 5/₁₆" ₽%

1. R = 1¾" SEE TYP CONNECTION DETAILS. BOLT SPACING AND EDGE DISTANCE SHALL CONFORM TO AISC SPECIFICATIONS.

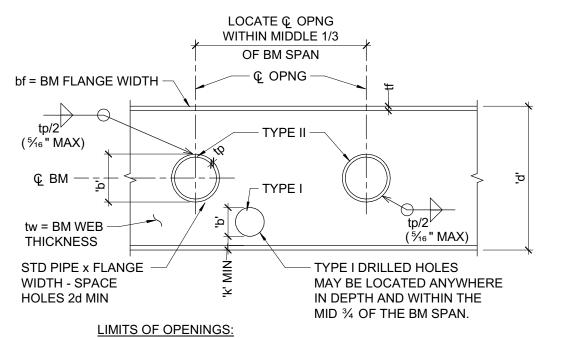
- 2. HIGH STRENGTH BOLTS (HSB) ARE GRADE A325-N UNO. PREPARE MATING SURFACES & TIGHTEN "SNUG TIGHT" AS DEFINED IN THE SPECIFICATIONS. AT LINES MARKED "SFRS" (SEISMIC FORCE RESISTING SYSTEM) HSB AND MATING SURFACES ARE SLIP CRITICAL CLASS A, UNO.
- 3. USE ASTM A36 CONNECTION PLATES, UNO.
- 4. A COMPLETE PENETRATION BEVEL WELD MAY BE SUBSTITUTED FOR THE FILLET WELDS SPECIFIED.
- 5. HOLE SIZE = BOLT SIZE + $\frac{1}{16}$ " (BOLT SIZE + $\frac{1}{8}$ " FOR 1"Ø AND LARGER BOLTS). SHORT SLOTTED HOLES (+ 1/16" VERT, + 1/4" HORIZ) MAY BE SUBSTITUTED (EXCEPT AS NOTED) ROUND HOLES ARE REQUIRED AT SFRS CONNECTIONS.

1/8 "Ø HIGH STRENGTH BOLT (HSB) CONNECTION SCHEDULE



TYPICAL BEAM TO BEAM CONNECTION

SEE $\frac{1}{(S105)}$ FOR CONN P., BOLTS, & WELD

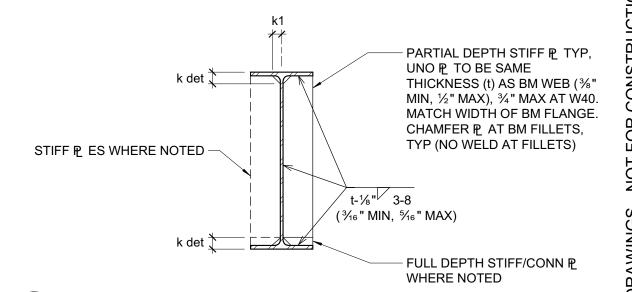


TYPE I: b = 1/5d MAXSPACED A MINIMUM OF 2d APART TYPE II:b = 2/3d MAX SPACED A MINIMUM 2d APART

1. PROVIDE HOLES IN BEAMS ONLY WHERE SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.

2. DO NOT TORCH CUT OPENINGS ON SITE. TORCH CUT OPENINGS MADE IN SHOP TO BE GROUND SMOOTH. NO OVERCUTS OF ANY TYPE ALLOWED WITHOUT REPAIR.





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LIST ENGINEERING CO.

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ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

DESCRIPTION DATE PRELIMINARY SCHEMATIC PRICING SET 9/27/2021 11/19/2021 50% DESIGN DEVELOPMENT 12/17/2021 100% DESIGN DEVELOPMENT PERMIT SUBMITTAL 4/01/2022

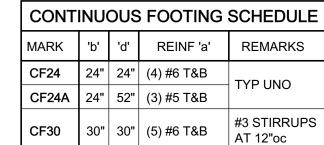
JOB NO.

21479 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

TYPICAL STEEL FRAMING DETAILS

S105



15'-11"

HDU2 -

CF30

14" ELEVATOR PIT

REMOVE PORTION
OF (E) FOOTING AT
S40

5 YTYP AT HSS. S401/HOLDOWN

8" CONCRETE SLAB ON GRADE W/ #4 @ 16"oc EW

T&B, TYP

NOTE: CONTRACTOR TO SHORE EXISTING STRUCTURE ABOVE PRIOR TO UNDERPINNING OF EXISTING FOUNDATIONS. INSTALL NEW FOUNDATIONS ON EACH SIDE OF THE EXISTING FOOTINGS IN SEPARATE SEQUENCES TO AVOID SETTLEMENT OF EXISTING FOUNDATIONS.

CONTRACTOR TO SUBMIT SEQUENCING PLAN TO SEOR FOR REVIEW PRIOR TO ANY EXCAVATIONS.

SLAB W/ #5 @

ELEVATOR PIT

16"oc EW T&B

ELEVATOR

CONCRETE GRADE BEAM (GB) SCHEDULE														
			LONGITUDINAL REINFORCEMENT					STIRRUPS AND TIES			S			
MADK			ВОТ	ТОМ	TC)P				SPA	CING			
MARK	В	В Н	TYP	ADD	TYP	ADD "A"	SIDE BARS	TYP	SIZE	S3	S4	LENGTH L3	REMARKS	
GB24	24"	24"	(3)-#5	-	(3)-#5	-	-			12"	12"	FULL		
GB24A	24"	30"	(4)-#7	-	(4)-#7	-	-	_,		6"	12"	5'	135° HK ES	
GB30	30"	30"	(5)-#6	-	(5)-#6	-	-	T1	T1	#4	12"	12"	FULL	
GB24B	24"	24"	(3)-#5	-	(3)-#5	-	-			6"	12"	4'	135° HK ES	

(E) 4" CONCRETE

SLAB ON GRADE

STEP CF TO BOTTOM

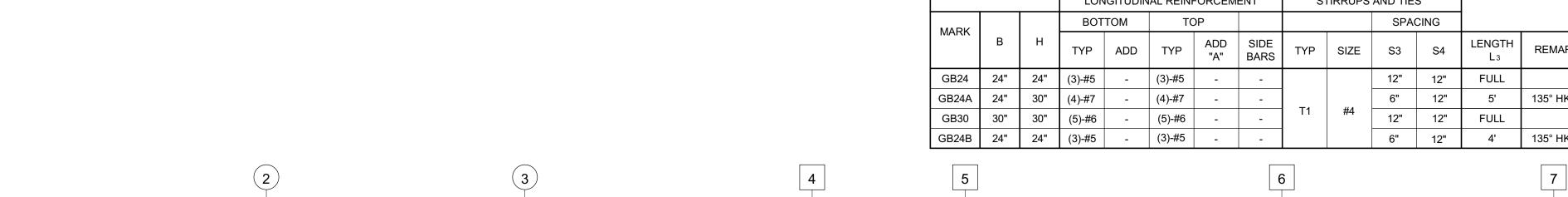
/OF ELEVATOR PIT PER

6 TYP AT

S401 WALLS

PARTITION

(E) WOOD STUD WALL TO REMAIN, PROVIDE BRACING DURING CONSTRUCTION



7'-8 1/4"

- HDU2

(E) CONCRETE

CÚRB AND FTG

TO REMAIN, SAD

14'-5 1/4"

VIF, TYPICAL

EXTRACTOR

HOLDOWN

POSTS ALONG

GRID 4 PER 3

(E) 5'-0" SQ x — 1'-3" FOOTING,

(E) W12x58-

CONCRETE

CONCRETE

CURB, SAD

SAD

CURB PER / 8 \

1010# MAX

13'-8"

14 TYP AT HD AT (E) S401 RETAINING WALL

- HDU4

FOUNDATION PLAN NOTES:

1. REFER TO SHEETS <u>S001</u>, <u>S101</u>, <u>S102</u>, <u>S103</u>, <u>S104</u> AND <u>S105</u> FOR GENERAL NOTES AND TYPICAL DETAILS. THE FOLLOWING DETAIL REFERENCES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL GENERAL NOTES AND TYPICAL DETAIL SHEETS NOTED ABOVE ARE APPLICABLE AND SHALL BE FOLLOWED.

2. DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

3. SEE DETAILS FOR CURB LOCATIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES. PROVIDE LONGER ANCHOR BOLTS AT CURBS PER C/S001.

4. ALL EXTERIOR WALLS NOT DESIGNATED AS SHEAR WALLS ON PLANS (INCLUDING WALLS ADJACENT TO SEISMIC GAPS) SHALL BE SHEATHED AS SHEAR WALL TYPE 'A' PER SHEAR WALL SCHEDULE, UNO.

5. PLUMBING AND ELECTRICAL CONDUIT AND GROUND STRAP SHALL NOT BE LAID WITHIN FOUNDATIONS. NO UTILITY PIPES OR CONDUITS SHALL BE LOCATED THRU COLUMN FOOTINGS OR FRAME FOOTINGS. NO PIPES OR CONDUITS THRU SILL PLATES SHALL BE WITHIN 12" OF HOLDOWN BOLTS. NO MECHANICAL, ELECTRICAL, OR PLUMBING OPENINGS SHALL BE LOCATED IN SHEAR WALLS UNLESS SHOWN AND DETAILED ON THE STRUCTURAL DRAWINGS. NO VERTICAL OR HORIZONTAL PIPES OR CONDUITS SHALL BE LOCATED THROUGH STEEL FRAMES, STEEL COLUMNS, OR STEEL BASE PLATES. PROVIDE FURRING AND/OR THICKENED CONCRETE WHERE REQUIRED TO CLEAR UTILITY SYSTEMS. NOTIFY STRUCTURAL ENGINEER/ARCHITECT PRIOR TO ANY INSTALLATION NOT CONFORMING TO THESE DETAILS.

PIPES THROUGH FOOTINGS SHALL BE PER 2/S101 AND 3/S101.

PIPES PARALLEL TO FOOTINGS SHALL BE PER 4/S101

PIPES AT SLAB ON GRADE SHALL BE PER 7/S101.

PIPES THROUGH WOOD FRAMING SHALL BE PER 2/S103 AND 5/S104.

6. ELEVATION OF THE TOP OF FINISHED SLAB = 0'-0", UNLESS NOTED OTHERWISE.

7. TYPICAL STRUCTURAL WALL BLOCKING FOR ALL GRAB BAR, HANDRAIL, SHOWER SEAT AND OTHER ARCHITECTURAL (A), MECHANICAL (M), ELECTRICAL (E), PLUMBING (P) ATTACHMENTS SHALL BE 4x MINIMUM x WALL WIDTH STUD BLOCKS WITH A34 TOP AND BOTTOM, EACH END TYPICAL.

PLAN LEGEND						
SYMBOL	REFERENCE DETAIL	DESCRIPTION				
	<u>1/S103</u>	INDICATES STRUCTURAL WALL.				
A 10'-0"	7/S103 C/S002	INDICATES SHEAR WALL TYPE AND MINIMUM WALL LENGTH. SYMBOL LOCATION INDICATES SHEATHED FACE OF WALL UNLESS NOTED OTHERWISE.				
\boxtimes	<u>E/S001</u>	INDICATES WOOD POST.				
⊠•	<u>8/S103</u>	INDICATES POST WITH HOLDOWN. POSTS WITH HOLDOWN ARE FULL HEIGHT FROM SILL TO TOP PLATE.				
0, 🗆 , 📘	<u>6/S104</u>	INDICATES STEEL COLUMN.				
		INDICATES FOUNDATION.				
CF24		INDICATES CONTINUOUS FOOTING SIZE AND REINFORCING PER SCHEDULE.				
GB24		INDICATES GRADE BEAM SIZE AND REINFORCING PER SCHEDULE.				
		INDICATES STEP IN ELEVATION, SEE ARCHITECTURAL DRAWINGS.				
88		INDICATES GRIDLINE AT FACE OF STUD.				
88)—		INDICATES GRIDLINE AT CENTERLINE OF COLUMN				
1 (53.1)		INDICATES ELEVATION.				
		INDICATES EXISTING FOUNDATION.				
		INDICATES EXISTING FRAMING.				
		HATCHED REGION INDICATES NEW SLAB ON GRADE.				
	<u>1/S402</u>	INDICATES 24"Ø x 17'-0" MIN DRILLED CONCRETE PIER.				
		INDICATES EXISTING CONCRETE PIER TO REMAIN.				

SHEAR WALL SCHEDULE								
0,47				AN	CHORA	GE		DEMARKO
SW	APA RATED SHEATHING	NAILING (DEN)	%"ø B0	OLT FDN	A	AT FRAMING	3	REMARKS
	SHEATHING	(PEN)	2x SILL	3x SILL	16d	A35	SDS *	
$\langle A \rangle$	¹⁵ / ₃₂ " (32/16) EXP 1	10d @ 6"oc	32"oc	48"oc	6"oc	24"oc	16"oc	
$\langle B \rangle$	¹⁵ / ₃₂ " (32/16) EXP 1	10d @ 4"oc	24"oc	32"oc	4"oc	16"oc	10"oc	3x MIN AT
(C)	¹⁵ / ₃₂ " (32/16) EXP 1	10d @ 3"oc	16"oc	24"oc	3"oc	8"oc	8"oc	ALL ADJOINING
\bigcirc	¹⁵ ⁄ ₃₂ " (32/16) STRUC 1	10d @ 2"oc	-	16"oc	(2) ROWS @ 4"oc	8"oc	6"oc	PANEL EDGES
(E)	¹⁵ / ₃₂ " (32/16) STRUC 1 BOTH SIDES	10d @ 2"oc	-	12"oc	(2) ROWS @ 2"oc	6"oc	(2) ROWS @ 6"oc	

* 2x SILL: SDS¼x4½". 3x SILL: SDS¼x6". FOR SDS @ 6"oc OR LESS, PROVIDE 4x BLKG BLW.

ZFA STRUCTURAL ENGINEERS

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STAMP



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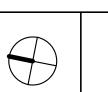
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DESCRIPTION	DAIL
PRELIMINARY SCHEMATIC PRICING SET	9/27/2021
50% DESIGN DEVELOPMENT	11/19/2021
100% DESIGN DEVELOPMENT	12/17/2021
PERMIT SUBMITTAL	4/01/2022

21479 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

FOUNDATION PLAN





FOUNDATION PLAN

HDU8 -

(E) 5'-0" SQ

FOOTING

(E) RETAINING

B.2

B.8

14'-5 1/2"

13'-0"

(E) CONCRETE

(E) 7" CONCRETE

SLAB ON GRADE

()9" CONCRETE SLAB ON)

GRADE W/ #4 @ 16"oc EW

T&B AT APPARATUS BAYS

TRENCH DRAIN,

√(E) FOOTING,

- Ç OF (E) COLUMNS = Ç OF GRADE

BEAMS. TYP AT APPARATUS BAY

STEPPED GB TO PIER

(E) W12x58-

CORBEL PER 8

RETAINING WALL

LEDGER SPLICE SCHEDULE								
MARK	CASE	STRAP/PLATE	CASE	STRAP/PLATE				
A	1	MSTA24	-					
B	1	MSTA30	-					
¢	2	MSTI48	3	MSTI60				
D	2	CMST14x5'-6"	3	CMST14x6'-0"				
Œ	2	(2) MSTI48	4	P. 1/4" W/ (6) 1"Ø MB ES OF SPLICE				
⟨F⟩	PROVIDE CONTINUOUS LEDGER. DO NOT SPLICE.							

HDU2

PROVIDE BLKG

BELOW BEARING

DBL 2x10

2x BLKG -

DBL 2x10

(E) W33x118

4x10 JOIST

- 2x4 STUDS @ 16"oc

51/8 x 221/2 GLB BLW

(E) W8x17

∫ (E) W12x40

51/x12 GLB

4x10

DBL JOIST

4x10 JOIST

HUCQ-SDS

2x4 STUDS @

SECOND FLOOR FRAMING PLAN

EA END

51/8x221/₂ GLB BLW

(E) W12x40

51/8 x 12 GLB

DBL JOIST

DBL 2x10

- 2x BLKG

DBL 2x10

STGD-

KITCHEN !

__CABINET_

- SISTER ON JOIST TO

MATCH (E) JOIST W/

1/4 "Øx3" SDS @ 6"oc

DBL 2x10

SISTER ON JOIST TO MATCH . (E) JOIST W/ ¼"øx3" SDS @ 6"oc STGD, TYP AT JOIST TO

BE STRENGTHENED

__6x10__

6x10 JOIST

51/8 x 221/2 GLB BLW

(E) W8x17

岗 (E) W12x40 │

(E) 51/4 x111/4 GLB

__HUCQ-SDS

EA END

OPEN

HD12 -

\$603

S603 SIM, OH

4x14 HDR

- HATCHED REGION

TO BE INFILLED

INDICATES (E) WINDOW 2

51/8 x 251/2 GLB

(2) HD7B -/

1050 LB(_

(2) HD7B -

MAX\\$60

TOP PLATE SPLICE SCHEDULE						
MARK	LAP SPLICE (CASE 1)	STRAP SPLICE (CASE 2)				
Α	(12) 16d PER 4'-0" MIN LAP	MSTC28				
В	(22) 16d PER 4'-0" MIN LAP	MSTC40				
С	(26) 16d PER 6'-0" MIN LAP	MSTC52				
D	(32) 16d PER 6'-0" MIN LAP	MSTC66				
Ш	(36) 16d PER 8'-0" MIN LAP	MSTC28 EA SIDE				
F	(44) 16d PER 8'-0" MIN LAP	MSTC40 EA SIDE				
G	(50) 16d PER 10'-0" MIN LAP	MSTC52 EA SIDE				
H PROVIDE CONTINUOUS TOP PLATE. DO NOT SPLICE.						

	TIE STRAP SCHEDULE						
MADIC	CTDAD	MIN.	MAX (S	MIN. END			
MARK	STRAP	NAILING ES OF *	CASE 1	CAS	LENGTH		
			071021	EL RL		(EL)	
A	CS16	(10) 10d	10d @ 4"oc STGR	FILL ALL NAIL HOLES	10d @ 4"oc STGR	12"	
$^{\circ}$	CS14	(13) 10d	10d @ 4"oc STGR	FILL ALL NAIL HOLES	10d @ 4"oc STGR	16"	
0	CMSTC16	(25) 10d	10d @ 3"oc STGR	FILL ALL NAIL HOLES	10d @ 3"oc STGR	24"	
(D)	CMST14	(33) 10d	10d @ 3½"oc STGR	FILL ALL NAIL HOLES	10d @ 3½"oc STGR	32"	
E	CMST12	(43) 10d	10d @ 3½"oc STGR	FILL ALL NAIL HOLES	10d @ 3½"oc STGR	48"	

(E) WOOD STUD WALL

BRACING DURING

CONSTRUCTION

TO REMAIN, PROVIDE

HDU2

__4x10__

4x BLOCK

HATCHED REGION INDICATES (E)

4x12 HDR

(E) WOOD STUD WALL

TO REMAIN, PROVIDE

BRACING DURING

CONSTRUCTION

(N) WINDOW

OPENING

WINDOW TO BE INFILLED

AND STRAP

51/4 x 18 GLB [-191/4"]

- FLOOR SHTG PER S001

NOTE #19B

1. CASE 1 APPLIES UNLESS END LENGTH (EL) IS NOTED ON PLANS. WHERE END LENGTH (EL) IS NOTED, SEE CASE 2.

- DTT2Z AT ADJACENT

ADHESIVE ANCHOR

-STAIR

OPENING

HDU11 \$403 D F \$603

6x12

ELEVATOR

4x12 HDR

- HATCHED REGION

TO BE INFILLED

INDICATES (E) WINDOW

HDU5

STRAP AT JOIST ALIGNED WITH

ELEVATOR GUIDE RAIL

DBL JOIST

HDU8

2x12 JOISTS @ 16"oc, TYP

4x12 HDR

OPEN :

JOIST at 4'-0"oc W/ 1/2 "Ø

2. AS REQUIRED, PROVIDE CLOSER NAIL SPACING TO MEET MINIMUM NAILING EACH SIDE OF ◆ .

⊣HTT4 W/ (18) #10 x1½" SD TO 📐

╎W/ ¼" x2" SQ ℙ WASHER AT

GUIDE RAIL

JOIST AND % "Ø MB TO BM, CSK

JOIST ALIGNED WITH ELEVATOR

2x12 JOISTS

[-3"] @ 16"oc

TYP AT

INTERIOR

WALLS

_2x12 JOIST: _

- DBL JOIST

- 4x BLOCK AND STRAP

9'-3"

HDU5

4x12 HDR

PARTITION \$602

FRAMING PLAN NOTES:

- 1. REFER TO SHEETS <u>S001</u>, <u>S103</u>, <u>S104</u> AND <u>S105</u> FOR GENERAL NOTES AND TYPICAL DETAILS. THE FOLLOWING DETAIL REFERENCES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL GENERAL NOTES AND TYPICAL DETAIL SHEETS NOTED ABOVE ARE APPLICABLE AND SHALL BE FOLLOWED.
- 2. DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- 3. MECHANICAL, ELECTRICAL AND PLUMBING PENETRATIONS THROUGH WALLS, ROOFS OR FLOORS SHALL BE PER REFERENCES BELOW UNLESS SHOWN AND DETAILED OTHERWISE ON THE STRUCTURAL PLANS. NOTIFY ARCHITECT/ENGINEER PRIOR TO ANY INSTALLATION NOT CONFORMING TO THESE DETAILS.

PENETRATIONS THROUGH SHEAR WALLS SHALL BE PER 6/S103.

PENETRATIONS THROUGH FLOORS/ROOFS SHALL BE PER 5/S103.

- 4. ALL EXTERIOR WALLS NOT DESIGNATED AS SHEAR WALLS ON PLANS (INCLUDING WALLS ADJACENT TO SEISMIC GAPS) SHALL BE SHEATHED AS SHEAR WALL TYPE 'A' PER SHEAR WALL SCHEDULE, UNLESS NOTED OTHERWISE.
- 5. ELEVATIONS ON PLANS AND DETAILS "+ ARE TO HEIGHTS ABOVE FINISHED GROUND FLOOR ELEVATION REFERENCE 0'-0". COORDINATE TOP OF FRAMING AND LEDGER HEIGHTS AS REQUIRED TO PROVIDE ROOF SLOPES AS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- 6. TYPICAL STRUCTURAL WALL BLOCKING FOR ALL GRAB BAR, HANDRAIL, SHOWER SEAT AND OTHER ARCHITECTURAL (A), MECHANICAL (M), ELECTRICAL (E), PLUMBING (P) ATTACHMENTS SHALL BE 4x MINIMUM x WALL WIDTH STUD BLOCKS WITH A34 TOP AND BOTTOM, EACH END TYPICAL.

		PLAN LEGEND
SYMBOL	REFERENCE DETAIL	DESCRIPTION
	<u>1/S103</u>	INDICATES STRUCTURAL WALL.
====	<u>1/S103</u>	INDICATES STRUCTURAL WALL ABOVE.
A 10'-0"	7/S103 C/S002	INDICATES SHEAR WALL TYPE AND MINIMUM WALL LENGTH. SYMBOL LOCATION INDICATES SHEATHED FACE OF WALL UNLESS NOTED OTHERWISE.
	<u>E/S001</u>	INDICATES WOOD POST.
⊠•	<u>10/S104</u>	INDICATES POST WITH HOLDOWN. POSTS WITH HOLDOWN ARE FULL HEIGHT FROM SILL TO TOP PLATE.
O, 🗆 , <u> </u>	<u>6/S104</u>	INDICATES STEEL COLUMN.
31/8 x12 GLB C=1"	<u>E/S001</u>	INDICATES GLULAM BEAM SIZE AND CAMBER. WHERE NO CAMBER IS SPECIFIED SEE WOOD FRAMING NOTES FOR TYPICAL GLULAM BEAM CAMBER.
<u></u>	<u>11/S103</u>	INDICATES PANEL EDGE NAILING ALONG FULL LENGTH OF MEMBER.
E	E/S001	INDICATES HANGER.
		INDICATES LEDGER. SEE PLAN FOR SIZE AND ANCHORAGE.
88		INDICATES GRIDLINE AT FACE OF STUD.
88)—		INDICATES GRIDLINE AT CENTERLINE OF COLUMN.
1 S3.1		INDICATES ELEVATION.
MU 1,000#]	<u>7/S104</u>	INDICATES APPROXIMATE LOCATION, SIZE AND MAXIMUM WEIGHT OF MECHANICAL UNIT. SEE MECHANICAL DRAWINGS FOR ANCHORAGE AND ADDITIONAL INFORMATION.
		INDICATES STEP IN ELEVATION, SEE ARCHITECTURAL DRAWINGS.
		INDICATES EXISTING FRAMING.
A	<u>1/S104</u>	INDICATES TOP PLATE SPLICE. SPLICE TYPE SHALL OCCUR ALONG THE ENTIRE LENGTH OF THE WALL, UNO. PROVIDE SPLICE TYPE 'A' IF NOT NOTED ON PLANS.
A	<u>2/\$104</u>	INDICATES LEDGER/RIM SPLICE. SPLICE TYPE SHALL OCCUR ALONG THE ENTIRE LENGTH OF THE WALL, UNO. PROVIDE SPLICE TYPE 'A' IF NOT NOTED ON PLANS.
A 4'-0"	<u>3/S104</u>	INDICATES TIE STRAP. SEE SCHEDULE FOR STRAP, NAILING AND LENGTH.

			I LAN LLOCIND
	SYMBOL	REFERENCE DETAIL	DESCRIPTION
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	⊠ •	<u>10/S104</u>	INDICATES POST WITH HOLDOWN. POSTS WITH HOLDOWN ARE FULL HEIGHT FROM SILL TO TOP PLATE.
	O, □, <u>T</u>	<u>6/S104</u>	INDICATES STEEL COLUMN.
В	3%x12 GLB C=1"	E/S001	INDICATES GLULAM BEAM SIZE AND CAMBER. WHERE NO CAMBER IS SPECIFIED SEE WOOD FRAMING NOTES FOR TYPICAL GLULAM BEAM CAMBER.
	<u></u>	<u>11/S103</u>	INDICATES PANEL EDGE NAILING ALONG FULL LENGTH OF MEMBER.
.2	E	<u>E/S001</u>	INDICATES HANGER.
			INDICATES LEDGER. SEE PLAN FOR SIZE AND ANCHORAGE.
	88 —		INDICATES GRIDLINE AT FACE OF STUD.
	88)—		INDICATES GRIDLINE AT CENTERLINE OF COLUMN
.6	1 \$3.1		INDICATES ELEVATION.
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.8			INDICATES STEP IN ELEVATION, SEE ARCHITECTURAL DRAWINGS.
			INDICATES EXISTING FRAMING.
	A	<u>1/S104</u>	INDICATES TOP PLATE SPLICE. SPLICE TYPE SHAL OCCUR ALONG THE ENTIRE LENGTH OF THE WALL UNO. PROVIDE SPLICE TYPE 'A' IF NOT NOTED ON PLANS.
	Â	<u>2/S104</u>	INDICATES LEDGER/RIM SPLICE. SPLICE TYPE SHALL OCCUR ALONG THE ENTIRE LENGTH OF THE WALL, UNO. PROVIDE SPLICE TYPE 'A' IF NOT NOTED ON PLANS.
D	A 4'-0"	<u>3/S104</u>	INDICATES TIE STRAP. SEE SCHEDULE FOR STRAP, NAILING AND LENGTH.

SHEAR WALL SCHEDULE								
٧	ADA DATED	NIAH INIC	ANCHORAGE					DEMARKO
٧	APA RATED SHEATHING	NAILING (PEN)	%"Ø BOLT FDN		AT FRAMING			REMARKS
	SHEATHING	(PEN)	2x SILL	3x SILL	16d	A35	SDS *	
\langle	¹⁵ / ₃₂ " (32/16) EXP 1	10d @ 6"oc	32"oc	48"oc	6"oc	24"oc	16"oc	
\setminus	¹⁵ / ₃₂ " (32/16) EXP 1	10d @ 4"oc	24"oc	32"oc	4"oc	16"oc	10"oc	3x MIN AT
$\langle \cdot \rangle$	¹⁵ / ₃₂ " (32/16) EXP 1	10d @ 3"oc	16"oc	24"oc	3"oc	8"oc	8"oc	ALL ADJOINING PANEL EDGES
\langle	¹⁵ / ₃₂ " (32/16) STRUC 1	10d @ 2"oc	-	16"oc	(2) ROWS @ 4"oc	8"oc	6"oc	
\rangle	¹⁵ / ₃₂ " (32/16) STRUC 1 BOTH SIDES	10d @ 2"oc	-	12"oc	(2) ROWS @ 2"oc	6"oc	(2) ROWS @ 6"oc	

* 2x SILL: SDS¼x4½". 3x SILL: SDS¼x6". FOR SDS @ 6"oc OR LESS, PROVIDE 4x BLKG BLW.

ZFA STRUCTURAL ENGINEERS

1390 el camino real | suite 100 650.394.8869 san carlos ca 94070 copyright © 2022 **zfa job no.** 21479

STAMP



PROJECT ADDRESS

217 ARLINGTON AVE.

KENSINGTON, CA 94707	

PROJECT TEAM CLIENT:

KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL

T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117

CONTACT: KAREN MAR T. (415) 522-0600

T: (650) 394-8869

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANTZ

> **BKF ENGINEERS** 1646 N. CALIFORNIA BLVD STE 400 WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON

HALEY ALDRICH GEOTECH: 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS

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T: (510) 879-4544 LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940

CONTACT: RON BLUE

T: (831) 373-4390 AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET

SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD T: (415) 255-9140

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

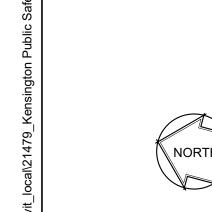
).	DESCRIPTION	DAT
	PRELIMINARY SCHEMATIC PRICING SET	9/27/2
	50% DESIGN DEVELOPMENT	11/19/2
	100% DESIGN DEVELOPMENT	12/17/2
	PERMIT SUBMITTAL	4/01/2

21479 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

SECOND FLOOR FRAMING PLAN

S202



B.2

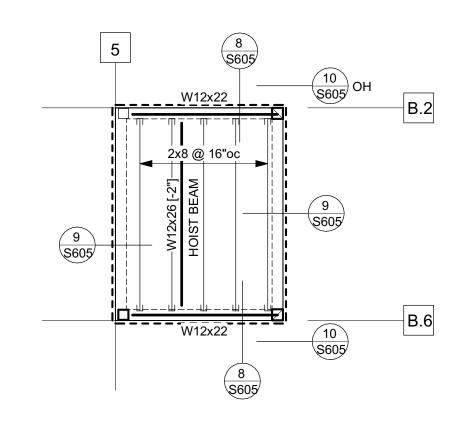
B.6

2x4 STUDS

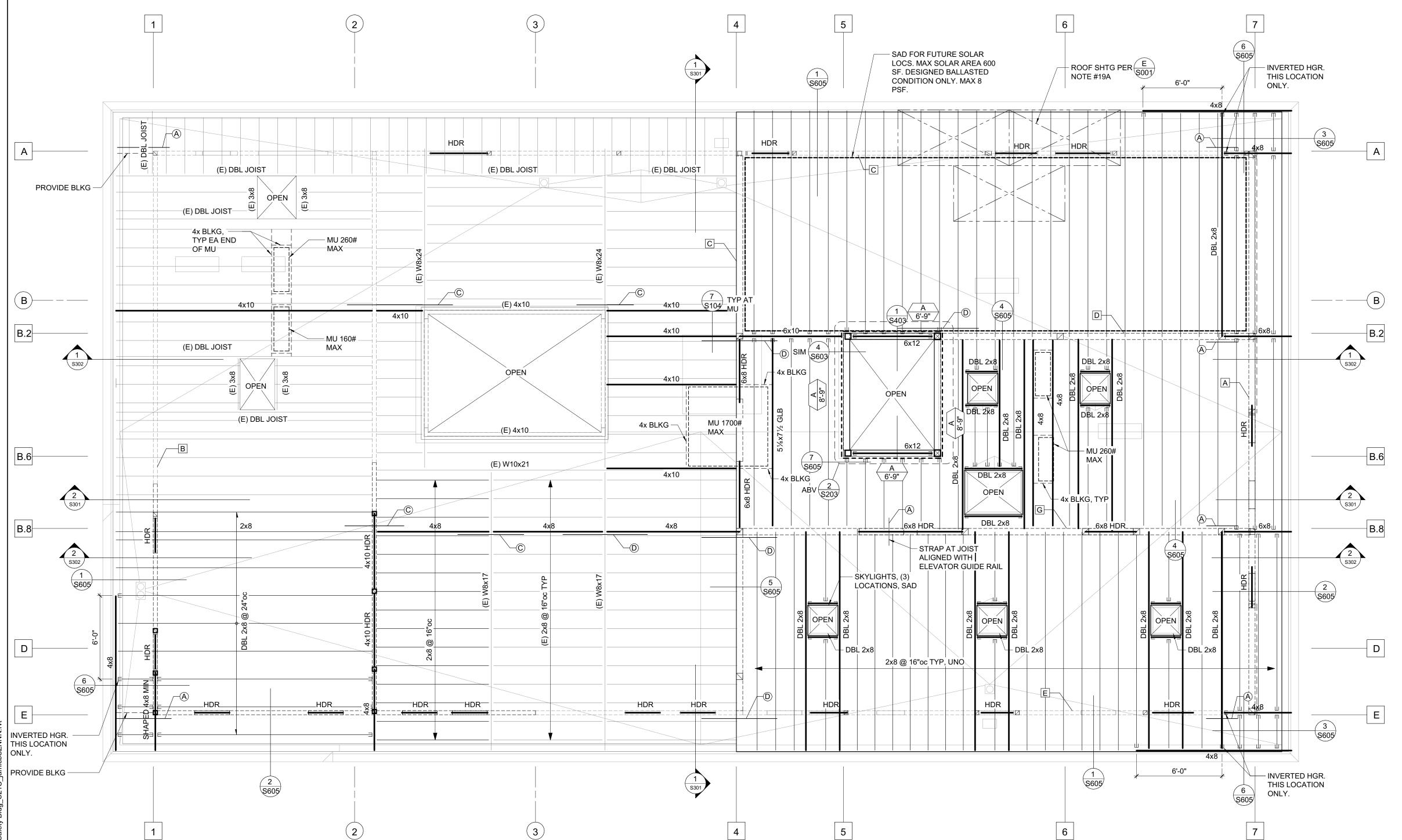
(E) DIAGONAL

BRACE, VIF, TYP

@ 16"oc



HIGH ROOF FRAMING PLAN 1/4" = 1'-0"



FRAMING PLAN NOTES:

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A 4'-0"	<u>3/S104</u>	INDICATES TIE STRAP. SEE SCHEDULE FOR STRAP, NAILING AND LENGTH.

ZFA STRUCTURAL ENGINEERS

1390 el camino real | suite 100 zfa.com san carlos ca 94070 650.394.8869 zfa job no. 21479 copyright © 2022

STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON. CA 94707

KENSINGTON, CA 94707	
PRO IECT TEAM	_

ROJECT TEAM

CLIENT: K

KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

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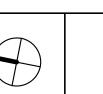
O.DESCRIPTIONDATEPRELIMINARY SCHEMATIC PRICING SET9/27/202150% DESIGN DEVELOPMENT11/19/2021100% DESIGN DEVELOPMENT12/17/2021PERMIT SUBMITTAL4/01/2022

JOB NO. 21479 KE

21479 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

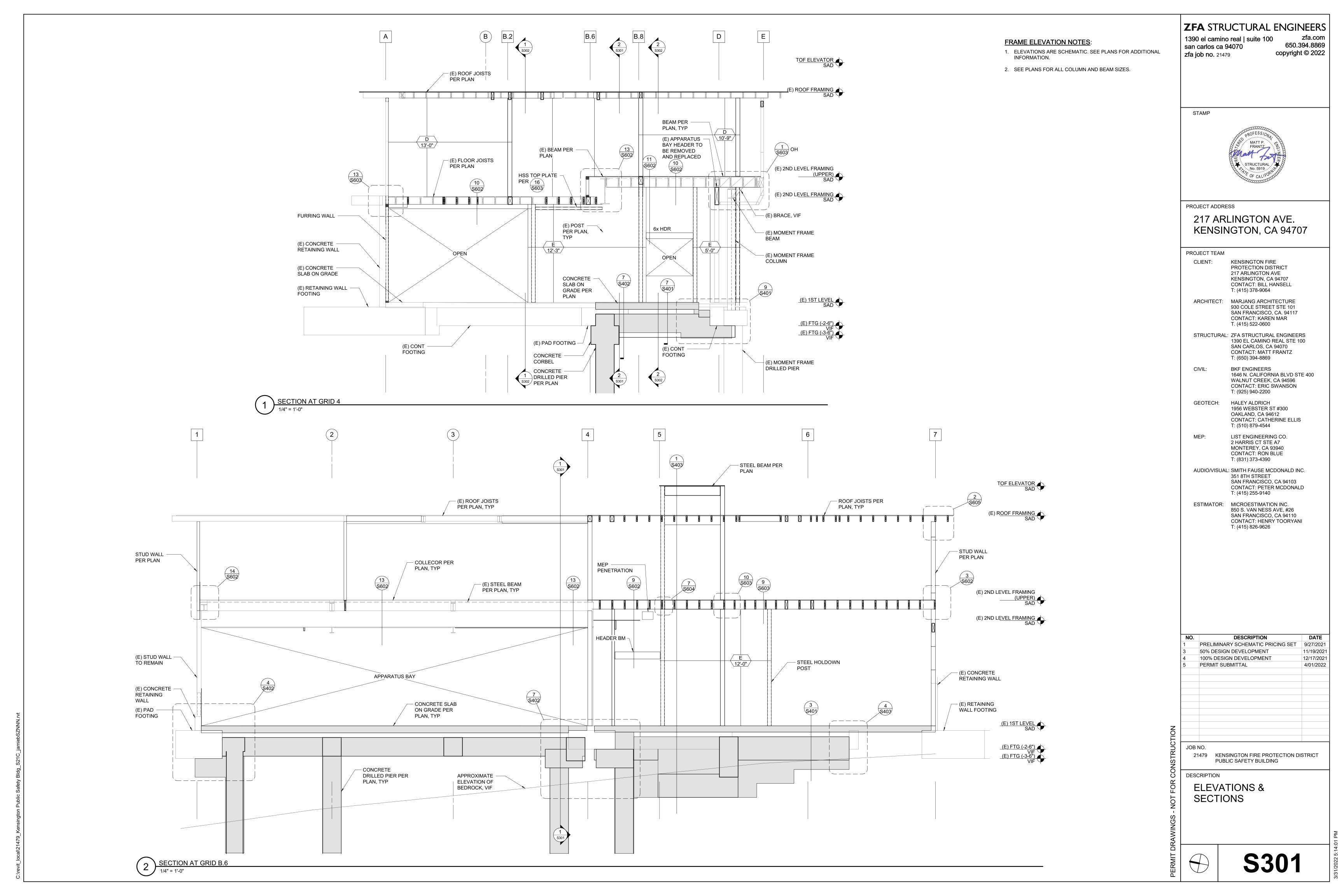
ROOF FRAMING PLAN

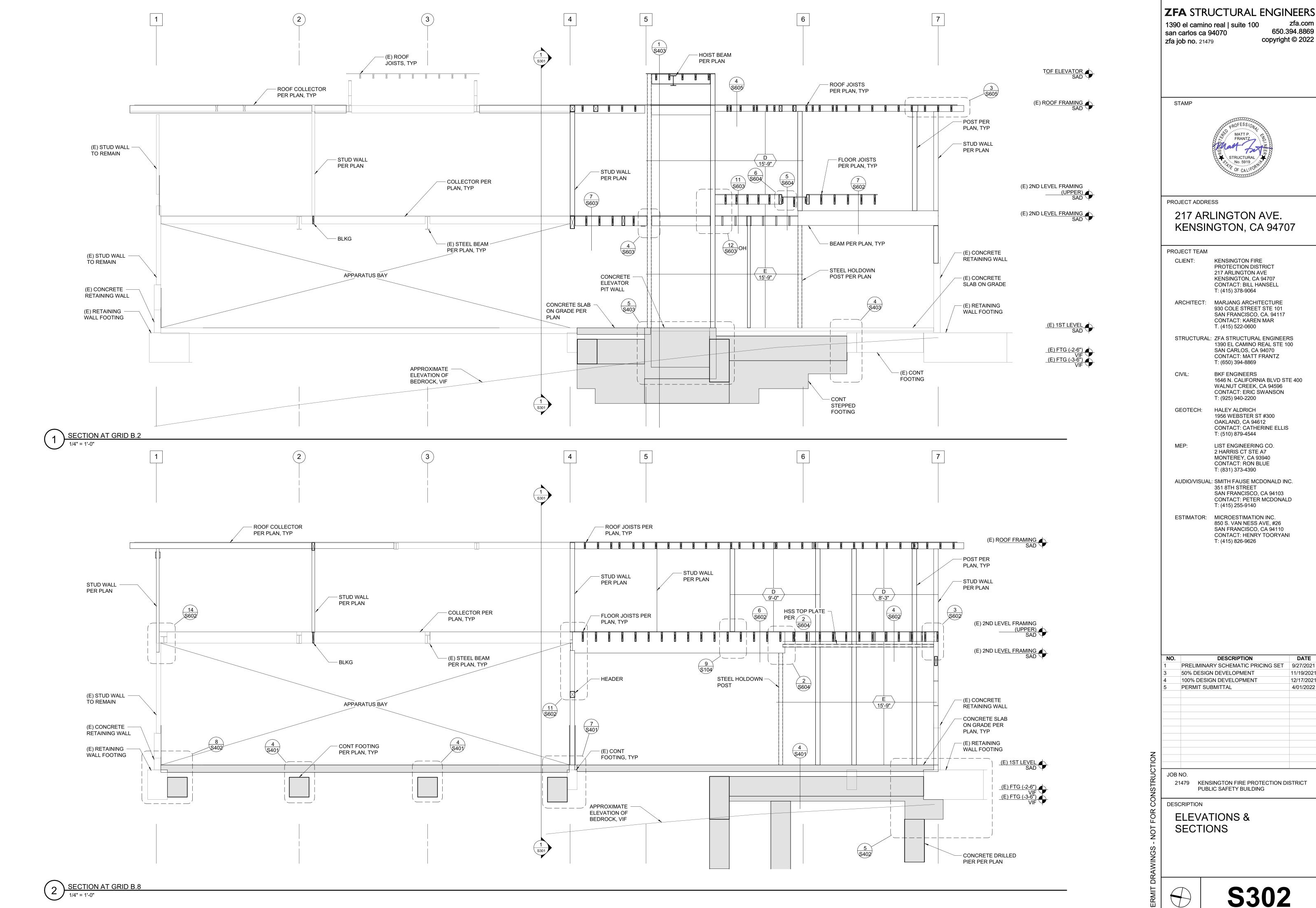


S203

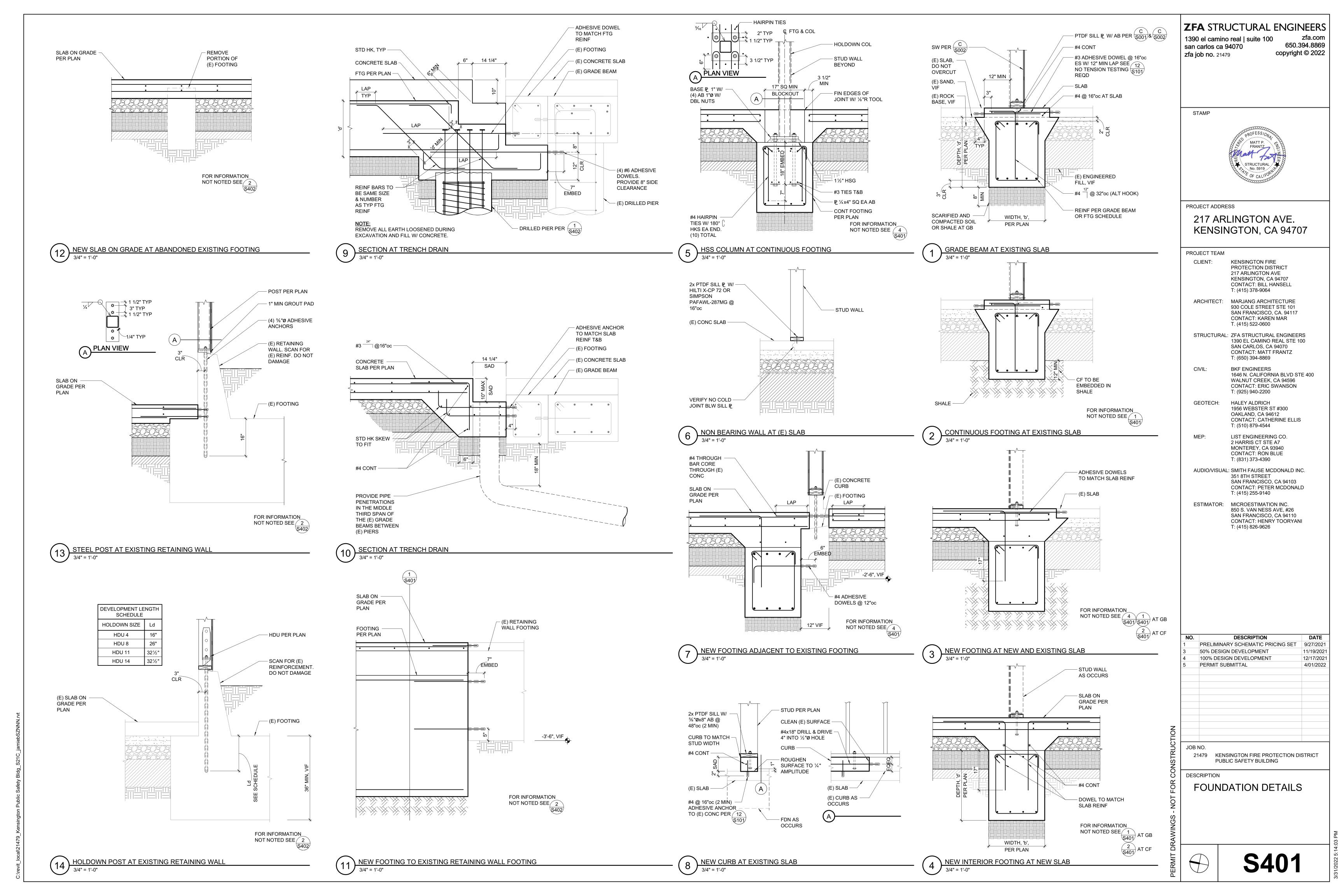
ROOF FRAMING PLAN

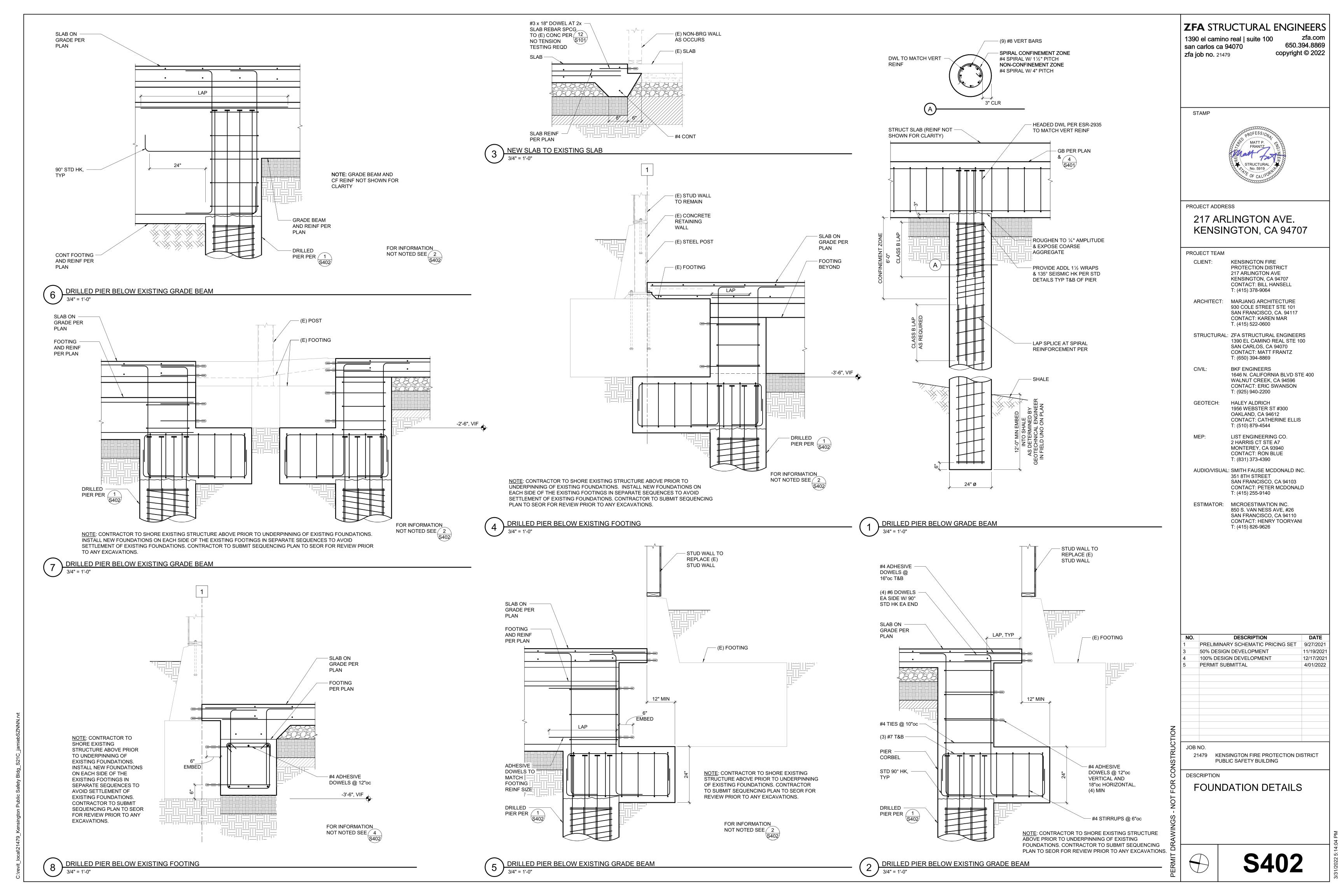
1/4" = 1'-0"

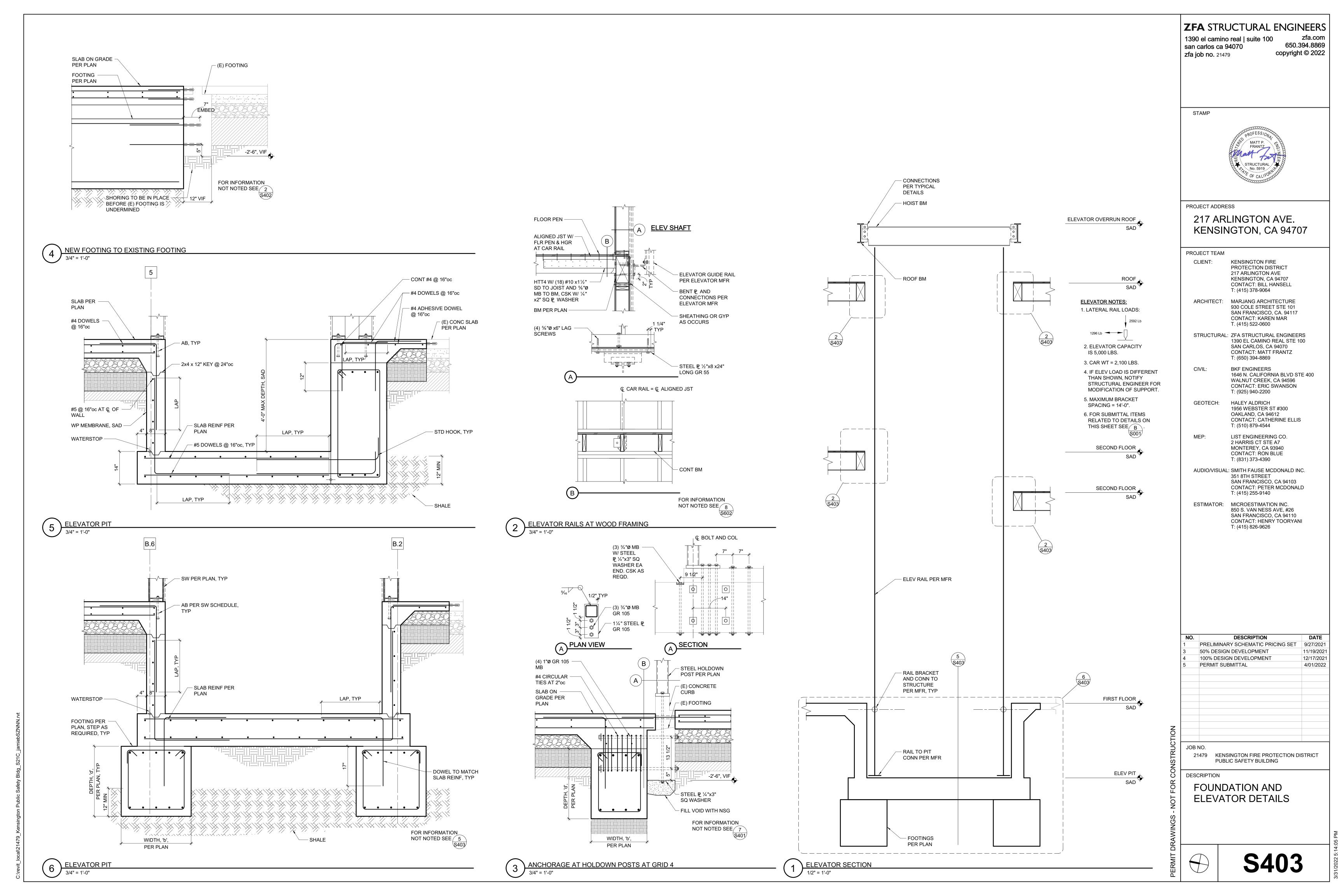


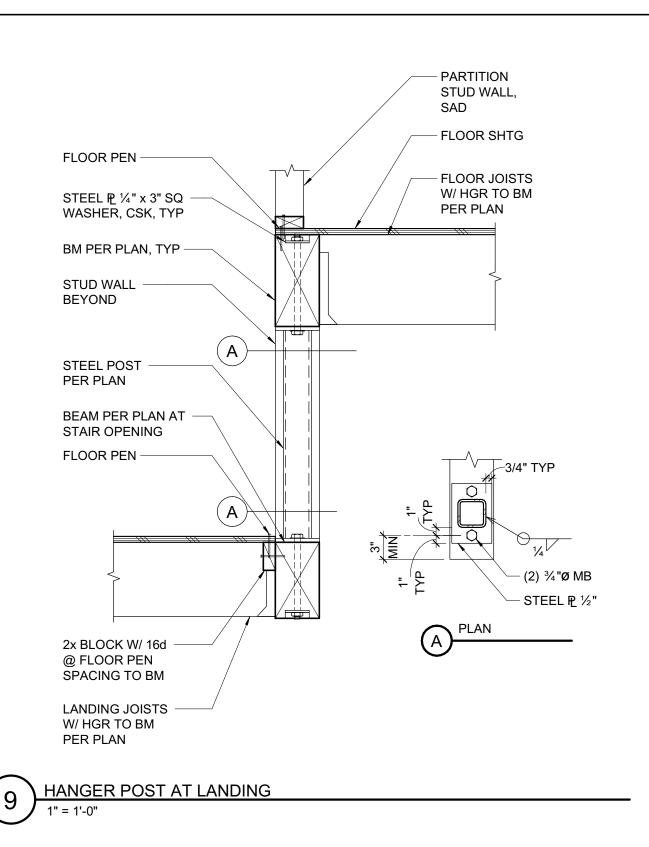


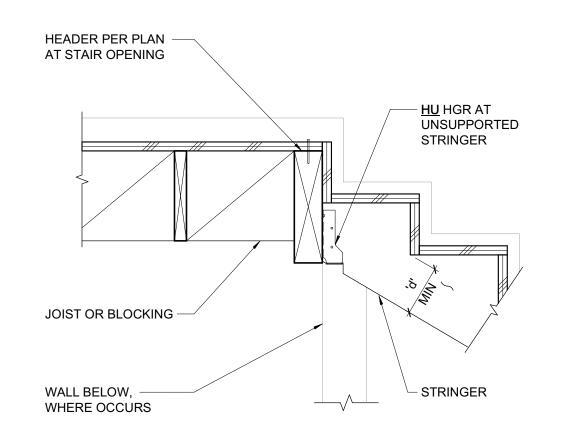
9/27/2021 11/19/2021 12/17/2021 4/01/2022



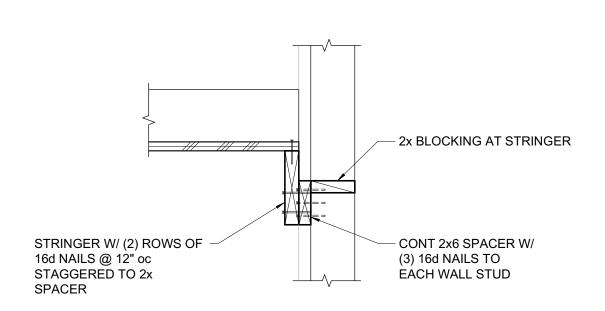




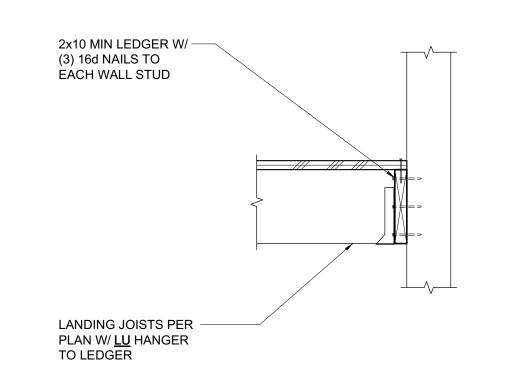




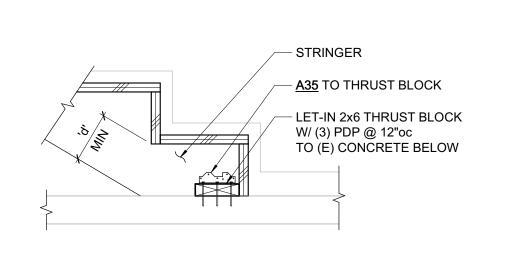




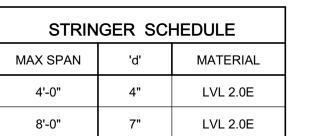








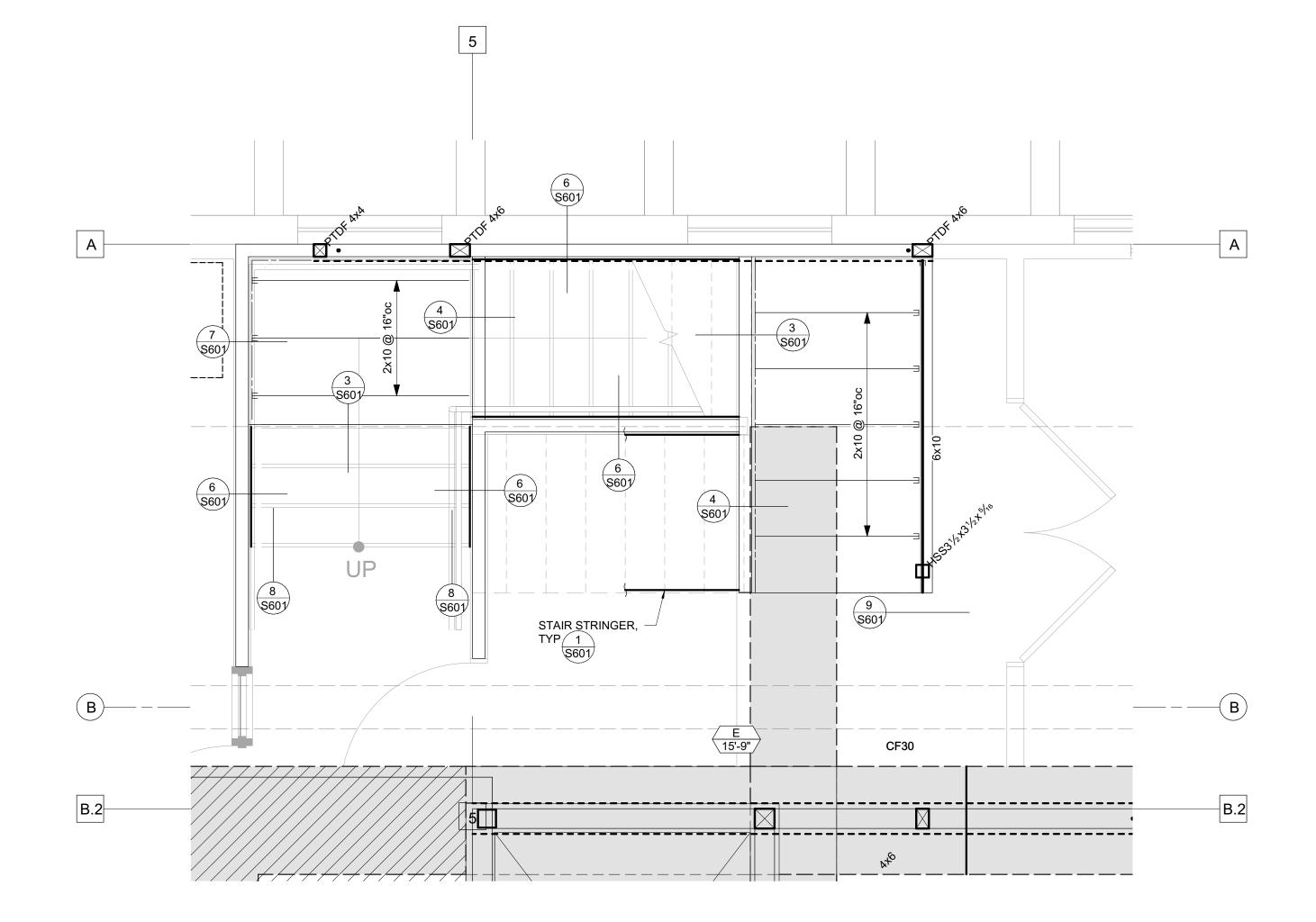
	STRINGER AT EXISTING CONCRETE
$(^{\circ})$	STRINGER AT EXISTING CONCRETE 1" = 1'-0"



OTES:

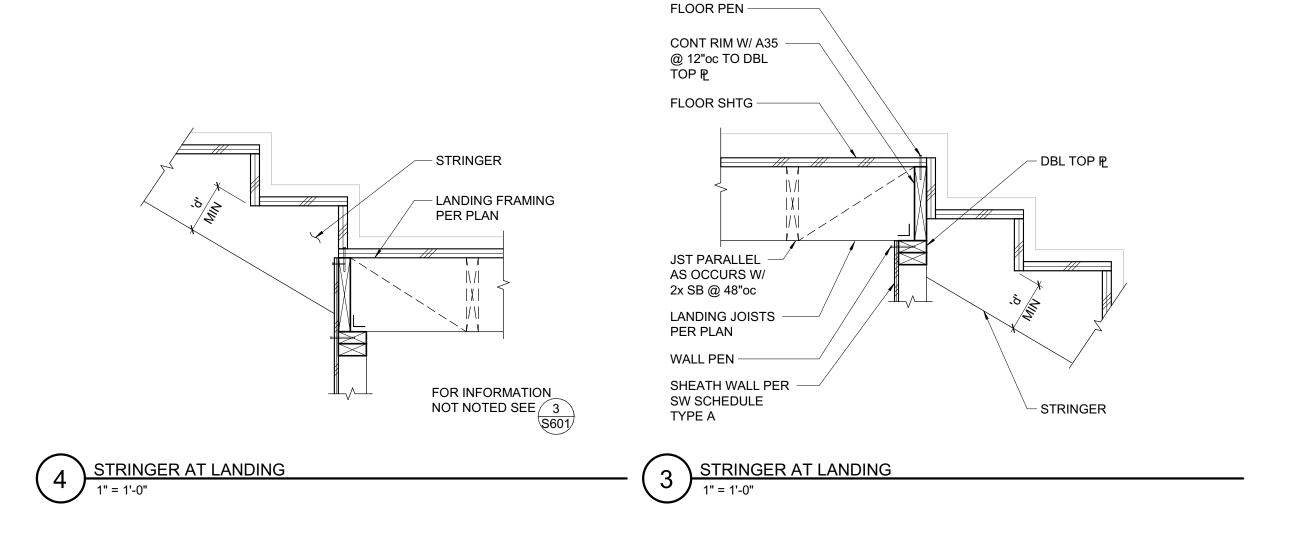
- 1. MIN SIZES UNLESS LARGER DIMENSIONS SHOWN ON PLANS.
- 2. STRINGERS AT EACH SIDE OF EACH STAIR, (2) STRINGERS MIN.
- 3. SPAN = LENGTH OF STRINGER.4. ALTERNATE FRAMING DETAILS AND CONFIGURATIONS ARE ACCEPTABLE
- ONLY IF APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
 5. SAD FOR RISE:RUN DIMENSIONS.
- 5. SAD FOR RISE:ROIN DIMENSIONS.6. SAD FOR TREAD AND FINISH INFORMATION.

1 TYPICAL STAIR FRAMING





STAIR LANDING PLAN 1/2" = 1'-0"



ZFA STRUCTURAL ENGINEERS

STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

CIVIL:

CLIENT: KENSINGTON FIRE
PROTECTION DISTRICT
217 ARLINGTON AVE
KENSINGTON, CA 94707
CONTACT: BILL HANSELL
T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE
930 COLE STREET STE 101
SAN FRANCISCO, CA. 94117
CONTACT: KAREN MAR

T. (415) 522-0600 STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100

BKF ENGINEERS

SAN CARLOS, CA 94070 CONTACT: MATT FRANTZ T: (650) 394-8869

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GEOTECH: HALEY ALDRICH
1956 WEBSTER ST #300
OAKLAND, CA 94612
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MEP: LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET SAN FRANCISCO, CA 94103

CONTACT: PETER MCDONALD T: (415) 255-9140

CONTACT: RON BLUE T: (831) 373-4390

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

NO. DESCRIPTION DATE

1 PRELIMINARY SCHEMATIC PRICING SET 9/27/2021

3 50% DESIGN DEVELOPMENT 11/19/2021

4 100% DESIGN DEVELOPMENT 12/17/2021

5 PERMIT SUBMITTAL 4/01/2022

JOB NO.

21479 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

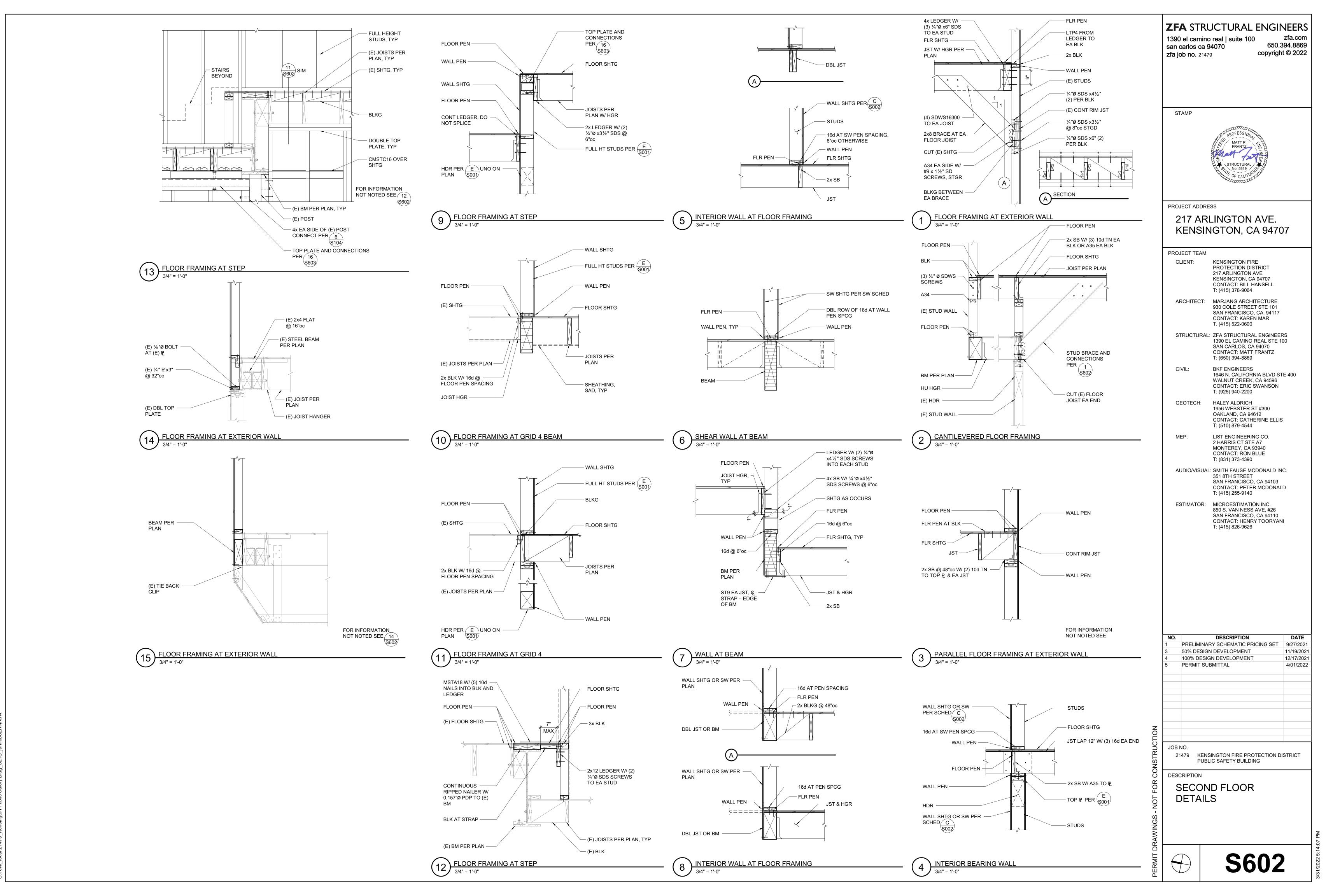
DESCRIPTION

SCRIPTION

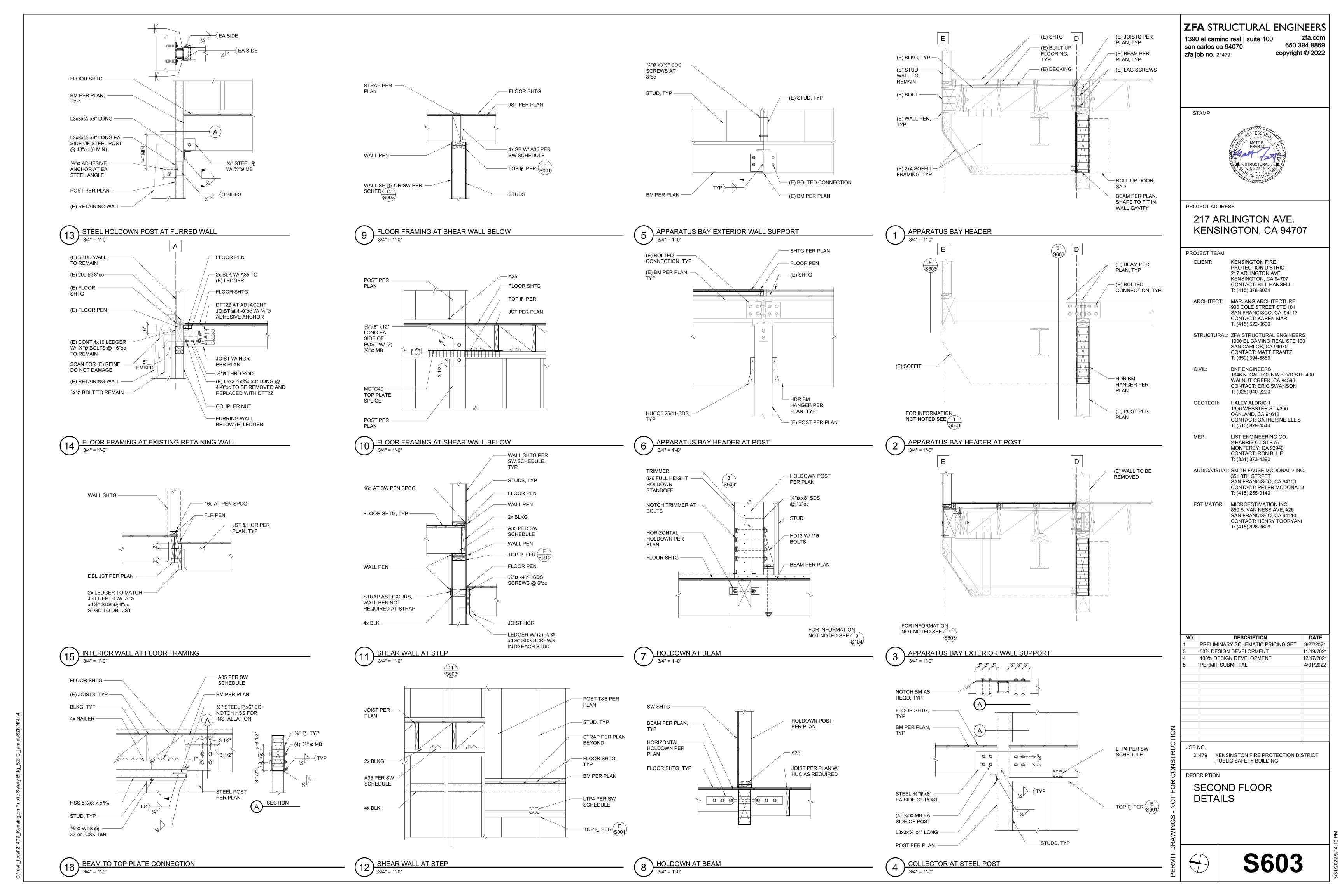
STAIR FRAMING DETAILS

 \oplus

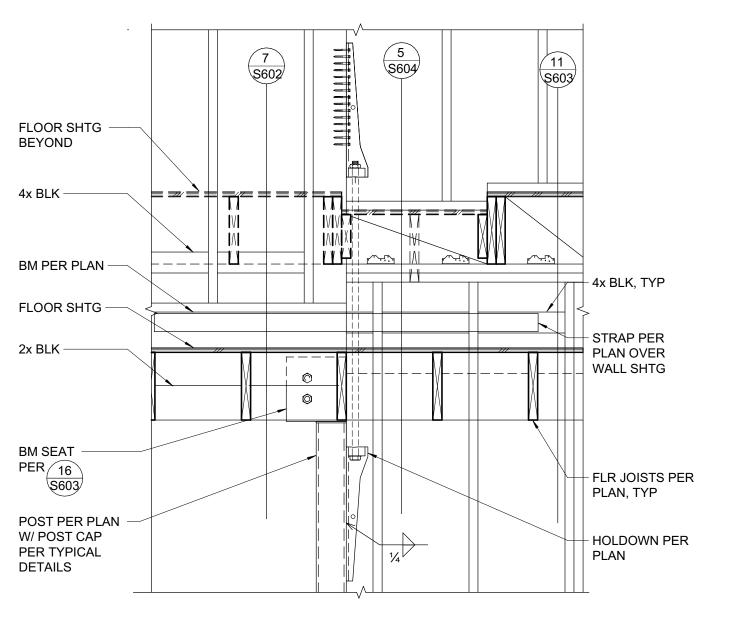
S601



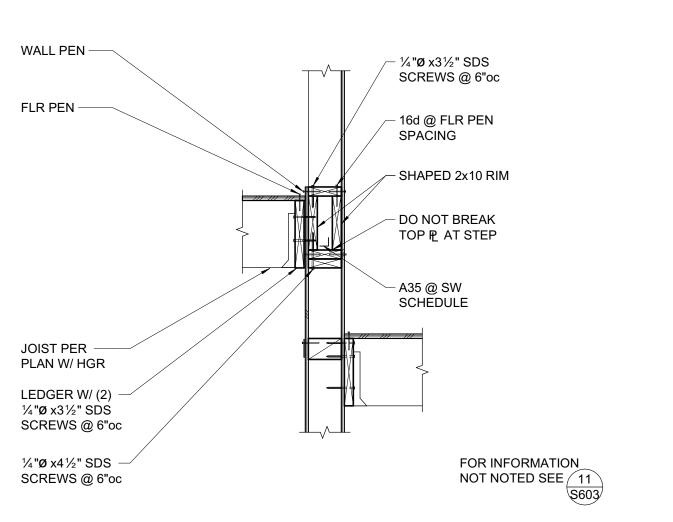
C. ravit Jose 121479 Kensington Buhlis Sefety Blds S216 ismiehS7NNN n



 $7) \frac{\text{COLLECTOR AT STEEL POST}}{3/4" = 1'-0"}$



ackslash BEAM TO STEEL POST AT SHEAR WALL



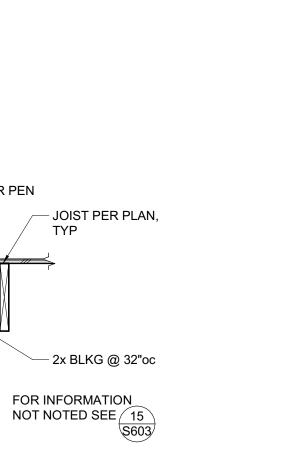
SHEAR WALL AT STEP

3/4" = 1'-0"

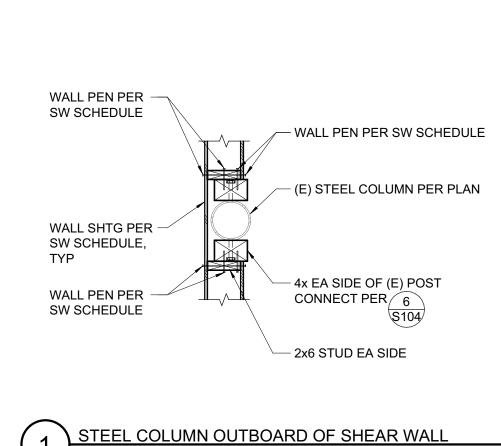
WALL AS OCCURS

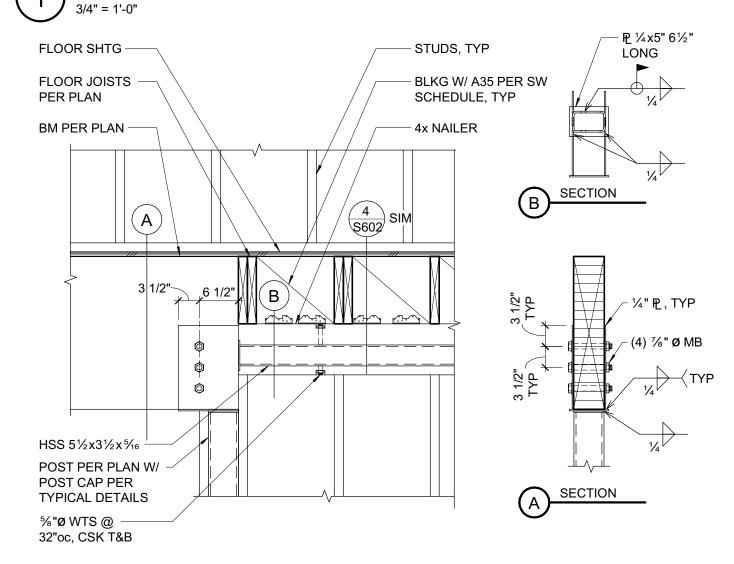
2x8 W/ 1/4 "Ø x41/2" SDS

@ 6"oc STGD TO DBL



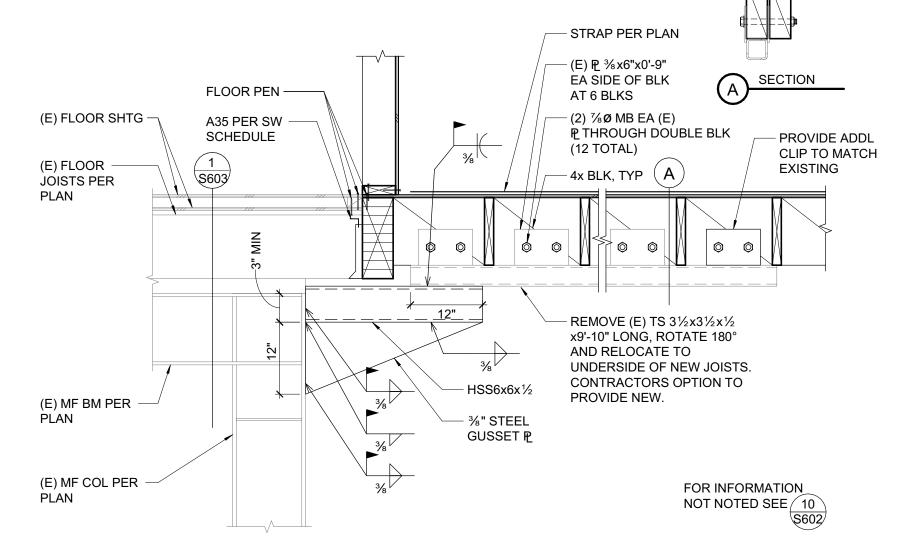
\ INTERIOR WALL AT FLOOR FRAMING STEP 3/4" = 1'-0"





BEAM TO STEEL POST AT SHEAR WALL

3/4" = 1'-0"

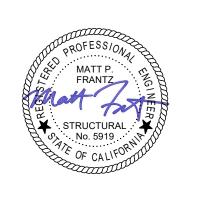


(3) COLLECTOR AT MOMENT FRAME

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PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

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KENSINGTON FIRE PROTECTION DISTRICT CLIENT: 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

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T: (925) 940-2200 HALEY ALDRICH 1956 WEBSTER ST #300

OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS T: (510) 879-4544 LIST ENGINEERING CO.

CONTACT: RON BLUE T: (831) 373-4390 AUDIO/VISUAL: SMITH FAUSE MCDONALD INC.

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2 HARRIS CT STE A7

MONTEREY, CA 93940

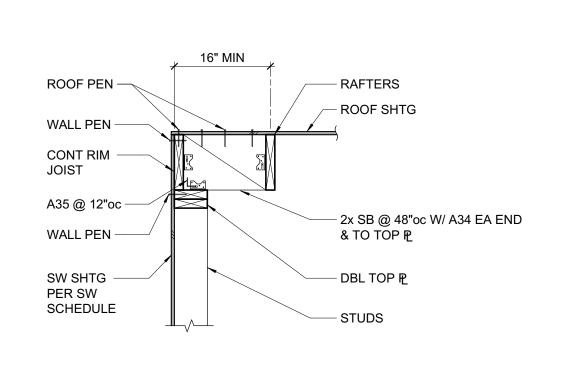
ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

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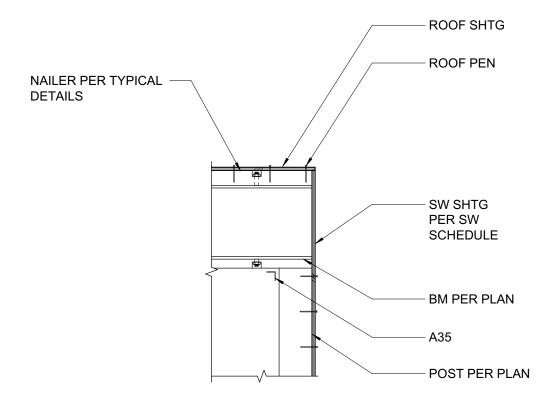
DESCRIPTION

SECOND FLOOR **DETAILS**

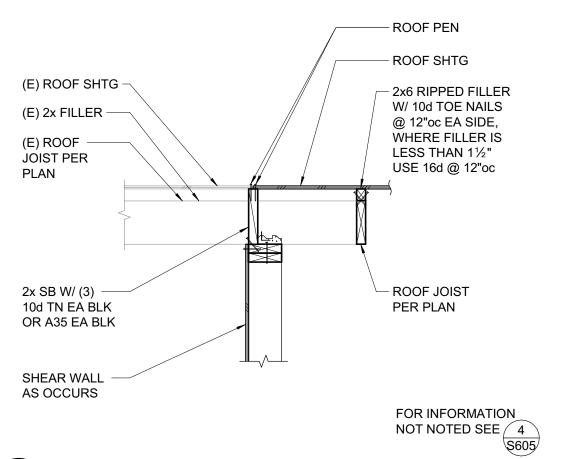
S604



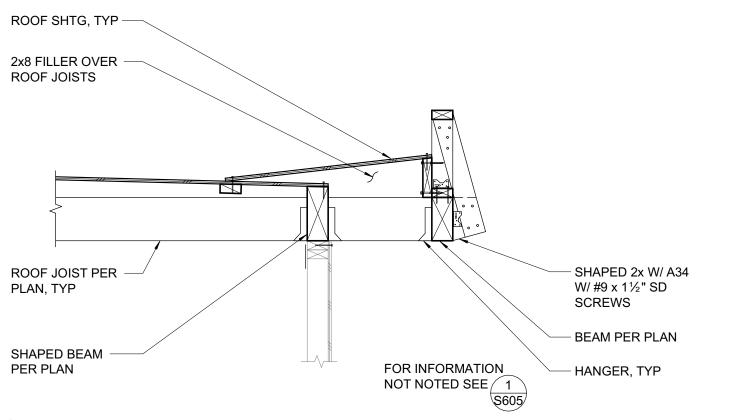
\ PARALLEL FRAMING AT EXTERIOR WALL



(10) ELEVATOR OVERRUN BEAM

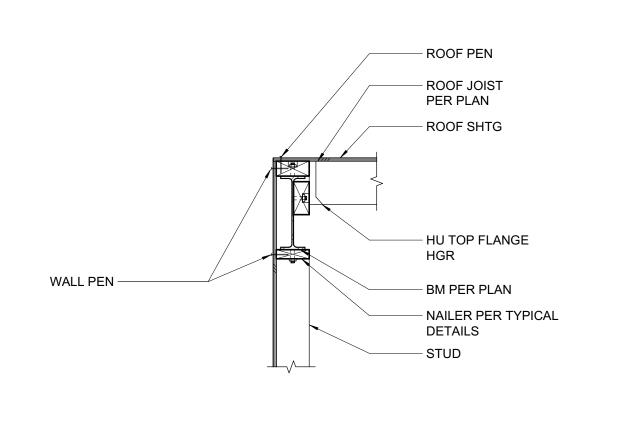


(5) INTERIOR WALL AT GRID 4 3/4" = 1'-0"

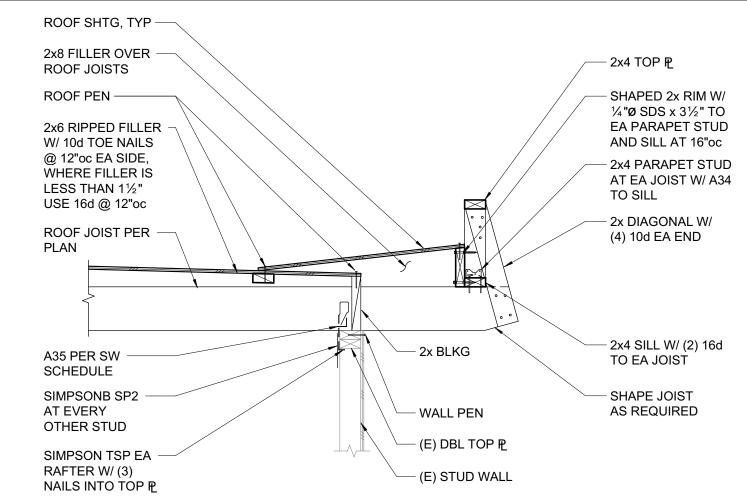


\ ROOF OVERHANG FRAMING (6) $\frac{1}{3/4}$ = 1'-0" SPLIT NAILER AS REQUIRED FOR STRAP INSTALLATION ROOF PEN ----- 2x6 RIPPED 1 ROOF SHTG, FILLER PER (S605) TYP TYP CS14 STRAP -BM PER PLAN, ROOF JOISTS PER PLAN O O O O 2x BLK ALIGNED WITH HSS ROOF JOIST W/ 1/4 "Øx 3" SDS SCREWS TO EA STUD AND POST FOR INFORMATION NAILER NOT NOTED SEE 7 POST PER PLAN

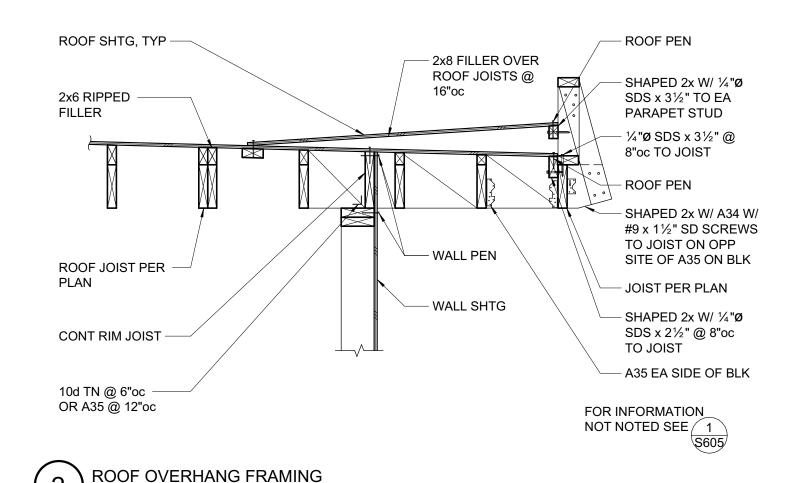
COLLECTOR AT STEEL POST



(8) ELEVATOR OVERRUN BEAM

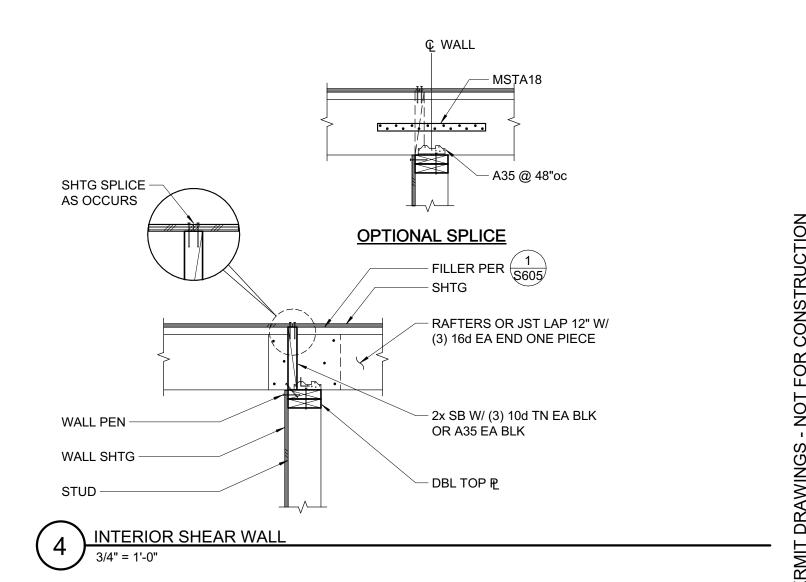


ROOF OVERHANG FRAMING



3/4" = 1'-0" INVERTED HGR PER PLAN - HGR, TYP STRAP PER PLAN -BEAM PER PLAN BLK, TYP -- SIMPSON H6 - DBL TOP ₽, TYP POST PER PLAN STUD, TYP — FOR INFORMATION NOT NOTED SEE 2

ROOF OVERHANG FRAMING



ZFA STRUCTURAL ENGINEERS

zfa.com

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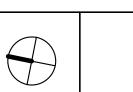
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DESCRIPTION

ROOF DETAILS



S605

CODE	DESCRIPTION	LOCATION	SIZE	MAX CFM	MAX SP	NECK SIZE	BLADE SPACING	BLADE DEFLECTION	MTG	PN	MFR	REMARKS
SD-1	SUPPLY DIFFUSER	MEETING	10' LONG, 1" SLOT WIDTH	370	0.02"	10"			CEILING	FT-10 - 2-SLOT	TITUS	HIGHTHROW W/ TITUS PLENUM, 1.
SR-1	SUPPLY REGISTER	MULTIPLE	8" x 6"	60	0.02"		3/4"	35	WALL	301RL	TITUS	1.
SR-2	SUPPLY REGISTER	MULTIPLE	12" x 6"	120	0.02"		3/4"	35	WALL	301RL	TITUS	1.
SR-3	SUPPLY REGISTER	EXERCISE	18" x 6"	190	0.02"		3/4"	35	WALL	301RL	TITUS	1.
SR-4	SUPPLY REGISTER	KITCHEN	24" x 12"	600	0.02"		3/4"	35	WALL	301RL	TITUS	1.
SR-5	SUPPLY REGISTER	DORM	8" x 6"	50	0.02"		3/4"	35	FLOOR	301RL	TITUS	1.
RG-1	RETURN GRILLE	KITCHEN	18" x 14"	485	0.02"		3/4"	35	WALL	350RL	TITUS	1.
EG-1	EXHAUST GRILLE	ASSEMBLY BAY	24" x 4"	140	0.02"		3/4"	0	SIDE OF DUCT	S300FS	TITUS	PROVIDE WITH AIR SCOOP DAMPER, 1.
EG-2	EXHAUST GRILLE	ASSEMBLY BAY	18" x 8"	280	0.03"		3/4"	0	BOTTOM OF DUCT	S300FS	TITUS	PROVIDE WITH AIR SCOOP DAMPER, 1.
EG-3	EXHAUST GRILLE	ASSEMBLY BAY	42" x 18"	1500	0.02"		3/4"	0	BOTTOM OF DUCT	350RS	TITUS	1.
EG-4	EXHAUST GRILLE	MULTIPLE	12" x 12"	60	0.01"	6"			CEILING	PAR	TITUS	1.
EG-5	EXHAUST GRILLE	MEETING	24" X10"	450	0.02"		3/4"	35	WALL	350RL	TITUS	1.
EG-6	EXHAUST GRILLE	MULTIPLE	8" x 6"	30	0.01"		3/4"	35	WALL	350RL	TITUS	1.
EG-7	EXHAUST GRILLE	KITCHEN	18" x 12"	405	0.02"		3/4"	35	WALL	350RL	TITUS	1.
EG-8	EXHAUST GRILLE	MULTIPLE	18" x 6"	190	0.02"		3/4"	35	WALL	350RL	TITUS	1.
EG-9	EXHAUST GRILLE	LAUNDRY	12" x 8"	50	0.01"		3/4"	35	WALL	350RL	TITUS	1.
TG-1	TRANSFER GRILLE	MULTIPLE	12" x 12"	50	0.01"	6"			CEILING	PAR	TITUS	1.
TG-2	TRANSFER GRILLE	MULTIPLE	14" × 6"	50	0.01"		3/4"	35	WALL	350RL	TITUS	1.
TG-3	TRANSFER GRILLE	MULTIPLE	18" x 10"	100	0.01"		3/4"	35	WALL	350RL	TITUS	1.

NOTES:

1. SEE ARCH PLAN FOR COLOR AND FINISH.

FIRE DAN	MPER SCHEDULE									
CODE	MFR	MODEL	CFM MAX	DUCT SIZE	WIDTH IN.	HEIGHT IN.	VELOCITY FPM	LEAKAGE CLASS	PRESSURE DROP (IN.)	COMMENTS
FD-1	RUSKIN	FD-60	30	6	8	10	500	1	0.04	1., 2.
FD-2	RUSKIN	FSD-60M	120	8	12	10	500	1	0.02	1., 2.
FD-3	RUSKIN	FD-60	100	8	12	10	500	1	0.02	1., 2.
FD-4	RUSKIN	FD-60	850	SEE PLAN	16	16	500	1	0.02	1., 2.
FD-5	RUSKIN	FSD-60M	190	8	12	12	500	1	0.02	1., 2.
FD-6	RUSKIN	FD-60	360	10	12	12	700	1	0.07	1., 2.
FD-7	RUSKIN	FSD-60M	405	12	12	12	760	1	0.08	1., 2.

NOTES:

1. 1-1/2 HR RATED DAMPER.

2. SEE DETAIL 11 AND 12/M601 FOR DETAIL

LOUVER S	SCHEDULE							
CODE	LOCATION	SIZE (IN)	FREE AREA SQ IN	CFM	PRESS. DROP	P/N	MFG.	REMARKS
EH-1	ROOF	26"L x 26"W x 16"H	-	2400	0.04	WRH	GREENHECK	2.
DL-1	ASSEMBLY BAY	-	1150	2,400	0.1	-	-	1.
DL-2	ASSEMBLY BAY	-	360	750	0.1	_	_	1.

NOTES:

1. SEE ARCHITECTURAL PLAN.

2. PROVIDE ROOF CURB AND BDD.

SYMBOLS & ABBREVIATIONS (MECHANICAL)

EC ELECTRICAL CONTRACTOR

⊠вт

BYPASS TIMER

			ENTERING DRY DUI D
Q	CENTER LINE	EDB	ENTERING DRY BULB
CD	CONDENSATE DRAIN	EOD	EXTENT OF DEMOLITION
		ETR	EXISTING TO REMAIN
Ø	DIAMETER	EWB	ENTERING WET BULB
	EXHAUST, RETURN, SUPPLY	EWT	ENTERING WATER TEMPERATURE
	AIR DUCT (EXISTING)	°F	DEGREES FAHRENHEIT
		FC	FLEXIBLE CONNECTION
	EXHAUST, RETURN, SUPPLY	FD	FIRE DAMPER
	AIR DUCT (NEW)	FLA	FULL LOAD AMPS
	EXTENT OF DEMOLITION	FSD	FIRE SMOKE DAMPER
		FT.HD.	FEET HEAD
	EXHAUST DUCT	FTR	FLUE THRU ROOF
	UP, DOWN, PENE & DEMO	GC	GENERAL CONTRACTOR
•	FIRE/SMOKE DAMPER	GPM	GALLONS PER MINUTE
		HP	HORSE POWER
	FIRE DAMPER	KW	KILOWATTS
•	POINT OF CONNECTION	LBS	POUNDS
	P/T PLUG	LWT	LEAVING WATER TEMPERATURE
		MBH	1,000 BTU/HR
	RETURN OR EXHAUST AIR	MC MC	MECHANICAL CONTRACTOR
	RETURN DUCT		
	UP, DOWN, PENE & DEMO	(N)	NEW
	ODEED CONTROL OWITCH	NIC	NOT IN CONTRACT
\$	SPEED CONTROL SWITCH	NTS	NOT TO SCALE
X	SPIN-IN EXTRACTOR/DAMPER	OBD	OPPOSED BLADE DAMPER
V	SUPPLY DUCT	OSA	OUTSIDE AIR
	UP, DOWN, PENE & DEMO	OSAD	OUTSIDE SUPPLY AIR DUCT
		PC	PLUMBING CONTRACTOR
	SUPPLY OR OUTSIDE AIR	PENE	PENETRATION
\bigcirc	THERMOSTAT at + 48"	PD	PRESSURE DROP
	TO BE DEMOVED	PH	PHASE
-X X X	TO BE REMOVED	POC	POINT OF CONNECTION
	TRANSFER AIR	P/N	PART NUMBER
	TURNING VANES	PRV	PRESSURE REDUCING VALVE
1		PSI	POUNDS PER SQUARE INCH
	VOLUME DAMPER	P/T	PRESSURE / TEMPERATURE
		RA	RETURN AIR
AD	ACCESS DOOR	RAD	RETURN AIR DUCT
AFF	ABOVE FINISH FLOOR	(RL)	RELOCATE
AL	ACOUSTICALLY LINED	RPM	REVOLUTIONS PER MINUTE
	ACCESS PANEL	SA	SUPPLY AIR
AP		SAD	SUPPLY AIR DUCT
BD	BALANCING DAMPER	SD	SUPPLY DIFFUSER
BDD	BACKDRAFT DAMPER	SP	STATIC PRESSURE
BHP	BRAKE HORSE POWER	SS	STAINLESS STEEL
BJ	BETWEEN JOIST	STD	STANDARD
BTU	BRITISH THERMAL UNIT	TAD	TRANSFER AIR DUCT
C.	CONDUIT	TV	TURNING VANES
CA	COMBUSTION AIR	TYP	TYPICAL
CD	CONDENSATE DRAIN	UCD	UNDERCUT DOOR
CFM	CUBIC FEET PER MINUTE	UON	UNLESS OTHERWISE NOTED
DEMO	DEMOLITION	V	VOLT
CHWS	CHILLED WATER SUPPLY	VD VD	VOLUME DAMPER
CHWR	CHILLED WATER RETURN	VIF	VERIFY IN FIELD
DL	DOOR LOUVER	W/	WITH
(E)	EXISTING	WC WC	WATER COLUMN
EAD	EXHAUST AIR DUCT		
		WT	WEIGHT
		W/O	WITH OUT

GENERAL MECHANICAL NOTES

- ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2019 CALIFORNIA MECHANICAL CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA BUILDING CODE, NATIONAL FIRE PROTECTION CODES, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING THE 2019 CALIFORNIA ENERGY CONSERVATION STANDARDS OF TITLE 24.
- 2. LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES ARE DETAILED ON THE ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM ELEVATIONS.
- LOCATION OF ALL ROOF OPENINGS AND THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT SUPPORTS ARE DETAILED ON THE STRUCTURAL AND ARCHITECTURAL PLANS.
- 4. PLATFORMS, CURBS AND FLASHING FOR EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS. COORDINATE THE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORT FOR THE FURNISHED EQUIPMENT.
- 5. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- 6. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED, AND TESTED IN ACCORDANCE WITH THE APPLICABLE SMACNA STANDARDS.
- 7. DUCTWORK SHALL BE INSULATED WITH 2" FIBERGLASS INSULATION AND ALL SERVICE JACKET. PROVIDE 1" ACOUSTICAL LINER WHERE SHOWN ON PLANS. DUCT DIMENSIONS ON PLANS ARE NET CLEAR INTERIOR.
- 8. MANUAL DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES AND REGISTERS.
- 9. ALL EQUIPMENT, DUCTS, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.
- 10. PIPES AND DUCTWORK SHALL BE SUPPORTED AND BRACED PER SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS."
- 11. EXPOSED PIPING ALLOWED ONLY WHERE INDICATED. PROVIDE ESCUTCHEONS IN FINISHED AREAS.
- 12. PROVIDE ROUGH-IN AND FINAL CONNECTIONS FOR EQUIPMENT PROVIDED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EQUIPMENT.
- 13. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED BY AN APPROVED MATERIAL AS PRESCRIBED IN CBC SECTION 714.
- 14. REFER TO STRUCTURAL DRAWING FOR LOCATIONS OF BEAMS, SHEAR WALLS AND MEMBERS. ALL DRILLING OF STRUCTURAL BEAMS AND MEMBERS TO BE COORDINATED WITH THE STRUCTURAL ENGINEER. ALL HOLES SHALL BE MINIMUM SIZE AND APPROVED BY STRUCTURAL ENGINEER PRIOR
- 15. FIELD VERIFY LOCATION AND SIZE OF ALL EXISTING PIPING, DUCTWORK AND EQUIPMENT PRIOR TO FABRICATION OF ANY NEW WORK.
- 16. STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36. BOLTS SHALL CONFORM TO ASTM A-307. FABRICATION, ERECTION, WELDING AND PAINTING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS. ALL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.
- 17. DUCTWORK VISIBLE THROUGH DIFFUSERS AND REGISTERS SHALL BE PAINTED FLAT BLACK.
- 18. INSULATION MATERIAL SHALL MEET THE STATE QUALITY STANDARD PER SECTION 120.4 OF THE 2019 CALIFORNIA ENERGY CODE (CEC).
- 19. DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 118 CFC
- 20. ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTION 120.3 AND TABLE 120.3-A.

DRAWING INDEX

M006

MECHANICAL TITLE SHEET

MECHANICAL SCHEDULES

TITLE-24 DOCUMENTS
TITLE-24 DOCUMENTS
TITLE-24 DOCUMENTS
TITLE-24 DOCUMENTS

MECHANICAL ROOF PLAN
MECHANICAL DETAILS

MECHANICAL GROUND FLOOR PLAN
MECHANICAL SECOND FLOOR PLAN

MECHANICAL SYSTEM SCHEMATIC DIAGRAM

- 21. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTIONS 112 AND 122 CEC.
- 22. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS OF SECTIONS 111-113, 115, AND 120-129 CEC.

DRAWING DESCRIPTION

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Job No. 21025.00

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AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD

CONTACT: HENRY TOORYANI

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ESTIMATOR: MICROESTIMATION INC.
850 S. VAN NESS AVE, #26
SAN FRANCISCO, CA 94110

T: (415) 826-9626

ISSUED FOR BUILDING PERMIT	04-01-22

DESCRIPTION

MECHANICAL TITLE SHEET

M001

VRF OUTDOOR UNIT SCHEDULE LOCATION NOMINAL CAPACITY | CAPACITY (BTUH) MCA MOCP ELECT EFFICIENCY REFRIGERANT CONTROL WEIGHT SIZE PART NUMBER MFG REMARKS MARK DESCRIPTION TONS COOLING HEATING V/PH EER/SEER (LBS) LxWxH(IN) OU-1 HEAT RECOVERY VRF CONDENSER ROOF 60,000 64,000 25 40 230/1 10/18.9 R-410A THERMOSTAT 260 37-13/32" x 13" x 54-11/32" ARUB060GSS4 LG 1, CONNECT TO BC-1 HEAT RECOVERY VRF CONDENSER ROOF 230/1 10/18.9 R-410A THERMOSTAT 37-13/32" x 13" x 54-11/32" ARUB060GSS4 LG 1, CONNECT TO BC-2 OU-2 5 60,000 64,000 25 40 260 THERMOSTAT ARUB060GSS4 1, CONNECT TO BC-3 OU-3 HEAT RECOVERY VRF CONDENSER ROOF 60,000 64,000 25 40 230/1 10/18.9 R-410A 260 37-13/32" x 13" x 54-11/32" LG 5 ARUN024GSS4 OU-4 HEAT PUMP VRF CONDENSER ROOF 27,000 20 230/1 10.7/17 R-410A THERMOSTAT 159 37-13/32" x 13" x 32-27/32" LG 24,000 30

1. SERVICE VALVES, DISCONNECT, SEA COAST COATING , ROOF CURB, INSULATED REFER PIPING.

MARK	DESCRIPTION	AREA SERVES	DCV	CAPACITY (BTUH) CLG	T HEATING	CFM	OSA CFM	ESP (IN)	MCA MOCP		CONTROL	SOUND dBA	WEIGHT (LBS)	SIZE (IN)	PART NO.	MFG	REMARKS
U-1	4-WAY CASSETTE (2x2)	LOBBY	-	5,500	6,100	265	60	- (114)	0.25 15	230/1	THERMOSTAT	29	36	22-7/16" x 22-7/16" x 8-7/16"	ARNU053TRD4	LG	1., 2., CONNECT TO BC-1
IU-2	4-WAY CASSETTE (2x2)	STAFF	_	5,500	6,100	265	30	-	0.25 15	230/1	THERMOSTAT	29	36	22-7/16" x 22-7/16" x 8-7/16"	ARNU053TRD4	LG	1., 2., CONNECT TO BC-1
IU-3	4-WAY CASSETTE (3x3)	ADMINISTRATION	-	7,500	8,500	459	40	-	0.71 15	230/1	THERMOSTAT	29	66.6	33-1/16" x 33-1/16" x 9-11/16"	ARNU073TNA4	LG	1., 2., CONNECT TO BC-1
IU-4	4-WAY CASSETTE (3x3)	MEETING	-	9,600	10,900	477	80	-	0.71 15	230/1	THERMOSTAT	29	66.6	33-1/16" x 33-1/16" x 9-11/16"	ARNU093TNA4	LG	1., 2., CONNECT TO BC-1
IU-5	WALL MOUNT	MEETING	-	12,300	13,600	300	-	-	0.31 15	230/1	THERMOSTAT	37	20.2	32-5/16" x 12-1/8 x 7-9/16"	ARNU123SJR4	LG	2., CONNECT TO BC-1
IU-6	4-WAY CASSETTE (2x2)	HALL 1	-	5,500	6,100	265	50	-	0.25 15	230/1	THERMOSTAT	29	36	22-7/16" x 22-7/16" x 8-7/16"	ARNU053TRD4	LG	1., 2., CONNECT TO BC-1
IU-7	4-WAY CASSETTE (2x2)	HALL 2	_	5,500	6,100	265	50	-	0.25 15	230/1	THERMOSTAT	29	36	22-7/16" x 22-7/16" x 8-7/16"	ARNU053TRD4	LG	1., 2., CONNECT TO BC-2
IU-8	WALL MOUNT	DORM 1	_	5,500	6,100	240	-	-	0.31 15	230/1	THERMOSTAT	30	20.2	32-5/16" x 12-1/8 x 7-9/16"	ARNU053SJR4	LG	2., CONNECT TO BC-2
IU-9	WALL MOUNT	DORM 2	-	5,500	6,100	240	-	-	0.31 15	230/1	THERMOSTAT	30	20.2	32-5/16" x 12-1/8 x 7-9/16"	ARNU053SJR4	LG	2., CONNECT TO BC-2
IU-10	WALL MOUNT	DORM 3	_	5,500	6,100	240	-	-	0.31 15	230/1	THERMOSTAT	30	20.2	32-5/16" x 12-1/8 x 7-9/16"	ARNU053SJR4	LG	2., CONNECT TO BC-2
IU-11	WALL MOUNT	HALL 3	-	5,500	6,100	240	-	-	0.31 15	230/1	THERMOSTAT	30	20.2	32-5/16" x 12-1/8 x 7-9/16"	ARNU053SJR4	LG	2., CONNECT TO BC-2
IU-12	WALL MOUNT	EXERCISE	_	15,400	17,100	371	-	-	0.31 15	230/1	THERMOSTAT	42	20.2	32-5/16" x 12-1/8 x 7-9/16"	ARNU153SJR4	LG	2., CONNECT TO BC-2
IU-13	WALL MOUNT	DAYROOM	-	7,500	8,500	254	-	-	0.31 15	230/1	THERMOSTAT	32	20.2	32-5/16" x 12-1/8 x 7-9/16"	ARNU073SJR4	LG	2., CONNECT TO BC-3
IU-14	WALL MOUNT	DAYROOM	-	7,500	8,500	254	-	-	0.31 15	230/1	THERMOSTAT	32	20.2	32-5/16" x 12-1/8 x 7-9/16"	ARNU073SJR4	LG	2., CONNECT TO BC-3
IU-15	WALL MOUNT	CAPTAIN'S OFFICE	-	5,500	6,100	240	-	-	0.31 15	230/1	THERMOSTAT	30	20.2	32-5/16" x 12-1/8 x 7-9/16"	ARNU053SJR4	LG	2., CONNECT TO BC-3
IU-16	WALL MOUNT	OFFICE 1	-	5,500	6,100	240	-	-	0.31 15	230/1	THERMOSTAT	30	20.2	32-5/16" x 12-1/8 x 7-9/16"	ARNU053SJR4	LG	2., CONNECT TO BC-3
IU-17	MID STATIC DUCTED	KITCHEN	-	24,200	27,300	600	115	0.59	2.00 15	230/1	THERMOSTAT	51	59	37" x 29" x 11"	ARNU243M1A4	LG	2., 3., 4., CONNECT TO BC-
IU-18	WALL MOUNT	IT/ELEC	-	24,200	25,600	537	-	-	0.65 15	230/1	THERMOSTAT	46	29.5	39-5/16" x 13-9/16" x 3-3/8"	ARNU243SKR4	LG	2., 5., CONNECT TO OU-4
				EACH PORT	SUM OF PORTS												
BC-1	6-Branch Unit	1ST FLOOR		60,000	230,000	_			0.27	230/1		38	68	31-1/4" x 18-15/16" x 8-5/8"	PRHR063A	LG	3,
BC-2	6-Branch Unit	DORMS, HALL 2&3, Exercise		60,000	230,000				0.27	230/1		38	68	31-1/4" x 18-15/16" x 8-5/8"	PRHR063A	LG	3.
BC-3	6-Branch Unit	OFFICES, KITCHEN, DAYROOM		60,000	230,000				0.27	230/1		38	68	31-1/4" x 18-15/16" x 8-5/8"	PRHR063A	LG	3.

NOTES:

NOTES:

- 1. PROVIDE OUTSIDE AIR INTAKE KIT (PTVK430) AND FLEXIBLE CONNECTIONS TO AIR DUCT.
- 2. EC TO PROVIDE DISCONNECT TO UNIT. PROVIDE CONDENSATE PUMP TO EACH INDOOR UNIT IF IT IS NOT ALREADY AVAILABLE.
- 3. PROVIDE SECONDARY DRAIN PAN W/ WATER DETECTION ALARM THAT SHUTS OFF UNIT IF ACTIVATED.
- 4. PROVIDE FLEXIBLE CONNECTIONS TO AIR DUCTS.
- 5. COOLING ONLY. DISABLE HEATING FUNCTION.

DIANT HEATER												
DESCRIPTION	LOCATION	HIGH INPUT BTUH	LOW INPUT BTUH	GAS PIPE	AMP	ELECT	CONTROL	WEIGHT	SIZE	PART NUMBER	MFG	REMARKS
				CONNECTION		V/PH		(LBS)	L x W x H (IN)			
INFRARED GAS HEATER	ASSEMBLY BAY	35,000	24,000	1/2" NPT	0.1	120/1	MANUAL TIMER	55	48" x 12" x 10"	RSW35-N2	STERLING	1.
INFRARED GAS HEATER	ASSEMBLY BAY	35,000	24,000	1/2" NPT	0.1	120/1	MANUAL TIMER	55	48" x 12" x 10"	RSW35-N2	STERLING	1.
INFRARED GAS HEATER	ASSEMBLY BAY	35,000	24,000	1/2" NPT	0.1	120/1	MANUAL TIMER	55	48" x 12" x 10"	RSW35-N2	STERLING	1.
INFRARED GAS HEATER	ASSEMBLY BAY	35,000	24,000	1/2" NPT	0.1	120/1	MANUAL TIMER	55	48" x 12" x 10"	RSW35-N2	STERLING	1.
INFRARED GAS HEATER	ASSEMBLY BAY	35,000	24,000	1/2" NPT	0.1	120/1	MANUAL TIMER	55	48" x 12" x 10"	RSW35-N2	STERLING	2.
INFRARED GAS HEATER	ASSEMBLY BAY	35,000	24,000	1/2" NPT	0.1	120/1	MANUAL TIMER	55	48" x 12" x 10"	RSW35-N2	STERLING	2.
	DESCRIPTION INFRARED GAS HEATER	DESCRIPTION INFRARED GAS HEATER ASSEMBLY BAY INFRARED GAS HEATER INFRARED GAS HEATER ASSEMBLY BAY	DESCRIPTION LOCATION HIGH INPUT BTUH INFRARED GAS HEATER ASSEMBLY BAY 35,000 INFRARED GAS HEATER ASSEMBLY BAY 35,000	DESCRIPTION LOCATION HIGH INPUT BTUH LOW INPUT BTUH INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000	DESCRIPTION LOCATION HIGH INPUT BTUH LOW INPUT BTUH CONNECTION INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT	DESCRIPTION LOCATION HIGH INPUT BTUH LOW INPUT BTUH GAS PIPE CONNECTION INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1	DESCRIPTION LOCATION HIGH INPUT BTUH LOW INPUT BTUH GAS PIPE CONNECTION AMP ELECT CONNECTION INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1	DESCRIPTION LOCATION HIGH INPUT BTUH LOW INPUT BTUH GAS PIPE CONNECTION AMP ELECT V/PH CONTROL INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER	DESCRIPTION LOCATION HIGH INPUT BTUH LOW INPUT BTUH GAS PIPE CONNECTION AMP CONTROL V/PH ELECT CONTROL V/PH WEIGHT (LBS) INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55	DESCRIPTION LOCATION HIGH INPUT BTUH LOW INPUT BTUH GAS PIPE CONNECTION AMP CONNECTION ELECT CONTROL WEIGHT (LBS) SIZE L x W x H (IN) INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 48" x 12" x 10" INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 48" x 12" x 10" INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 48" x 12" x 10" INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 48" x 12" x 10" INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 48" x 12" x 10" INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 48" x 12" x 10"	DESCRIPTION LOCATION HIGH INPUT BTUH LOW INPUT BTUH CONNECTION CONNECTION V/PH CONTROL WEIGHT SIZE PART NUMBER CONNECTION V/PH CONTROL WEIGHT SIZE PART NUMBER CONNECTION V/PH CONNECTION V/PH CONNECTION V/PH CONTROL WEIGHT SIZE PART NUMBER CONNECTION V/PH CONNECTION V/PH CONTROL WEIGHT SIZE PART NUMBER CONNECTION V/PH CONNECTION V/PH CONTROL WEIGHT SIZE PART NUMBER CONNECTION V/PH CONNECTION CONNECTION	DESCRIPTION LOCATION HIGH INPUT BTUH LOW INPUT BTUH GAS PIPE CONNECTION AMP CONNECTION ELECT CONTROL VIPH (LBS) WEIGHT SIZE LX W X H (IN) PART NUMBER MFG INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 48" x 12" x 10" RSW35-N2 STERLING INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 48" x 12" x 10" RSW35-N2 STERLING INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 48" x 12" x 10" RSW35-N2 STERLING INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 48" x 12" x 10" RSW35-N2 STERLING INFRARED GAS HEATER ASSEMBLY BAY 35,000 24,000 1/2" NPT 0.1 120/1 MANUAL TIMER 55 48" x 12" x 10" RSW35-N2 STERLING <t< td=""></t<>

NOTES:

- 1. PROVIDE HEAT SHEILD AND MOUNTING. CEILING MOUNT HORIZONTALLY. INSTALL PER MANUFACTURER INSTRUCTIONS W/ MANUFACTURER RIGID HANGING BRACKETS. FOR EACH HEATER, ROOM EXHAUST TO BE AT LEAST 4 CFM/ 1000 BTUH INPUT.
- 2. PROVIDE HEAT SHEILD AND MOUNTING. WALL MOUNT AT 30 DEGREES. INSTALL PER MANUFACTURER INSTRUCTIONS W/ MANUFACTURER RIGID HANGING BRACKETS. FOR EACH HEATER, ROOM EXHAUST TO BE AT LEAST 4 CFM/ 1000 BTUH INPUT.

ENERGY REC	COVERY VENTILATOR																	
CODE	DESCRIPTION	LOCATION	EXHAUST	OUTSIDE AIR	EA	OSA	EA	OSA	MCA	MOP	ELECT	EMERGENCY	CONTROL	SIZE	WEIGHT	PART	MFG	REMARKS
			CFM	CFM	ESP	ESP	HP	HP			V/PH	POWER		L x W x H (IN)	(LBS)	NO.		
ERV-1	AIR TO AIR HEAT EXCHANGER	ROOF	1,475	1,535	1"	1"	1.5	2	29.0	35	208/1	YES	SEE NOTE 2.	68-1/4" x 68-1/4" x 66-1/4"	1,980	RERV 1533	SPINNAKER	1., 2., 3., 4.
NOTES:																		

- HEAT WHEEL, FAN VFDs, DISCONNECT, OSA DAMPER, BACKDRAFT DAMPER, 2" DEFLECTION SPRING ISOLATORS AT FANS, FLANGES, FLEX AND TRANSISTIONS AT DUCT CONNECTIONS, ROOF CURB. MERV 13 FILTER ON OSA, UL-1812, DIRTY FILTER SENSOR. BALANCE TO AIRFLOWS ON PLANS.

 FREQUENCY

 63 HZ

 125 HZ

 250 HZ

 500 HZ

 1 KHZ

 2 KHZ

 4 KHZ

 8 KHZ

 SOUND POWER LEVEL (DB) @ FREQUENCY

 95

 100

 93

 88

 84

 82

 79

 76
- 2. FANS AND HEAT WHEEL TO RUN CONTINUOUSLY. OSA DAMPER TO CLOSE WHEN ERV IS OFF.
- WRAP ERV WITH SOUND DEADENING MATERIAL (MANUFACTURER: PIPE AND DUCT LAGGING. MODEL: B-10 LAG/QFA-9. 2 LB BARRIER WITH 2" THICK FIBERGLASS DECOUPLER). WEIGHT INCLUDED IN ERV.
- PROVIDE SOUND ATTENUATOR SA-1 AT OUTSIDE SUPPLY AIR INLET AND SOUND ATTENUATOR SA-2 AT EXHAUST OUTLET OF ERV. WRAP SOUND ATTENUATORS W/ SOUND DEADENING MATERIAL (PIPE AND DUCT LAGGING B-10 LAG/QFA-9).

CODE	MANUFACTURER/ MODEL	DIMENSION	PRESSURE	WEIGHT		SOUND TRANSMISSION LOSS (DB) AT FREQUE				T FREQUEN	ICY (HZ)				
			DROP		31.5 HZ	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ		
	PIPE AND DUCT LAGGING/ B-10 LAG/QFA-9	-	-	2 LB/SQFT	-	ı	21	24	29	41	54	68	-		
SA-1	IAC ACOUSTICS/ 3LFL	20" x 14" x 36"	0.05"	34 LB	0	4	7	13	17	17	11	11	10		
SA-2	IAC ACOUSTICS/ 3LFL	13" x 12" x 36"	0.17"	21 LB	0	4	8	13	19	20	12	11	9		

FAN SCHED	ULE												
CODE	MFR	MODEL	CFM	ESP IN	FAN	ELECTRICAL			SIZE (IN)	WEIGHT (LBS)	AREAS SERVED	SONES	COMMENTS
				(IN)	RPM	ВНР	HP	V/PH		(LB)			
EF-1	CAPTIVEAIRE	SIF18DD-HE	2,400	0.5"	1105	0.470	1	208/3	28" x 28" x 38"	265	ASSEMBLY BAY	8.9	1., 2., 3.

NOTES

- 1. MOTOR STARTER, DISCONNECT, 2" DEFLECTION SPRING ISOLATORS, FLEX CONNECTIONS, BDD, BELT GUARD, MOUNTING BRACKETS
- 2. RUN CONTINUOUSLY.
- 3. 3-PHASE FAN WITH VFD THAT ACCEPTS SINGLE PHASE INPUT.



STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA, 94707

PROJECT TEAM

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CIVIL:

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NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	04-01-22
JOB	NO.	

DESCRIPTION

MECHANICAL SCHEDULES

M002

(See Table H) (See Table I) (See Table J) (See Table K) (See Table L) COMPLIES This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form. This table includes remarks made by the permit applicant to the Authority Having Jurisdiction. his table demonstrates compliance for prescriptive roof assembly requirements in §140.3(a)1B for new construction or additions, or §141.0(b)2Biii for alterations, 01 Indicate roof types included in the project: 🛛 Framed 🔲 SIPS 🔲 Span Deck & Concrete 🖂 Metal Panels 🗀 Metal Building Include Framed Roof Assemblies in Area-Weighted Average U-factor Calculation 1 Exception to Roof Insulation Requirements in §141.0(b)2Biji (Alts. Only) Occupancy Type Relocatable 1 CZ Nonresidential/ Relocatable 1 CZ Nonresidential/ Relocatable 1 CZ Nonresidential/ Relocatable 1 CZ Registration Date/Time: Registration Provider: Energysoft Report Generated: 2022-03-09 14:15:23 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601

217 Arlington Ave. Date Prepared

Relocatable Public School Building for use in

Registration Date/Time:

217 Arlington Ave. Date Prepared

Floors

Report Version: 2019.1.003

Schema Version: rev 20200601

Doors

all climate zones Occupancy: E

05 # of Stories (Habitable Above Grade)

7 Total Unconditioned Floor Area (ft²)

height of at least 15 ft.¹

☑ I Roof Assembly

Project includes unconditioned enclosed space(s) > 5,000 ft² under a roof with a ceiling

High-Rise Residential

Occupancy: R-2 / R-3

Component Types

Daylighting Spaces >

5.000ft²

Walls

Floors

Walls

Floors

Walls

06 Total Conditioned Floor Area (ft²)

Kensington Public Safety Building Report Page: (Page 3 of 15) 217 Arlington Ave. Date Prepared: 3/9/2022 Nonresidential/ Relocatable 1 CZ Nonresidential/ new code roof Roof Relocatable 1 CZ Nonresidential/ code roof 2 Roof Relocatable 1 CZ Cavity How Design Roof Type & U-factor was isulation pe erformance Thermal U-factor per Design Net Area³ ft Frame Materia Depth Design Design Unit determined per JA4 Roof JA4 Tables 0.0 15.0 0.082 Wood U-factor 0.0809 Other Roof 0.0 15.0 U-factor 0.082 per Software 0.0809 Other per JA4 Roof 0.0 15.0 U-factor 0.082 570 JA4 Tables Wood er Software/ 0.0809 Other per JA4 Roof JA4 Tables Wood 15.0 U-factor 0.082 per Software/ 0.0809 Other per JA4 Roof 30.0 0.0 0.034 130 JA4 Tables Wood U-factor per Software, 0.0339 Other per JA4 30.0 Roof JA4 Tables U-factor 0.034 Wood 0.0339 Other Registration Provider: Energysoft Registration Number: Registration Date/Time:

STATE OF CALIFORNIA

CALIFORNIA ENERGY COMMISSION

3227

1570

Hotel/Motel Guest Rooms

Exterior Doors

Fenestration/Glazing Doors

1

Fenestration/ Glazing Doors

Exterior Doors NA. for Alts.

Exterior Doors

Fenestration/ Glazing Doors

Registration Provider: Energysoft

Report Generated: 2022-03-09 14:15:23

CALIFORNIA ENERGY COMMISSION

Compliance Results

CALIFORNIA ENERGY COMMISSION

NRCC-ENV-I

Project Address:

(Page 2 of 15)

3/9/2022

Occupancy: R-1

(Page 1 of 15

3/9/2022

Envelope Component Approach CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-ENV-E Project Name: Kensington Public Safety Building Report Page: (Page 4 of 15 Project Address: 217 Arlington Ave. Date Prepared

F. ROOF ASSEMBLY SCHEDULE Tag/Plan Detail Roof Type & Frame Spa Thermal U-factor was U-factor per Design Net Area³ ft rformance rame Material Depth Design Design Performance determined Unit per JA4 JA4 Tables 15.0 0.082 U-factor Wood 0.0809 Other OOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal building roofs may not be combined with other of types. The area-weighted compliance option is not available for alterations demonstrating compliance with R-values in Table 141.0-C. If "R-value" is shown in cell 13 as the Thermal Performance Unit, the R-value shown here is for continuous insulation per Table 141.0-C. Roof area minus any fenestration/skylight area Structural Insulated Panels (SIPS) Roof/Ceiling Assemblies section does not apply to this project Span Deck And Concrete Roof Assemblies s section does not apply to this project Metal Panel Assemblies is section does not apply to this project. letal Building Roof Assemblies is section does not apply to this project. rea-Weighted Average U-factor Compliance Calculation for Framed/ SIPs/ Span Deck & Concrete/ Metal Panel Roofs 04 Area-weighted U-factor for Roof Type mpliance Results Using Area-Weighted Roof Type Total Area of Roof Type (ft²) Calculation Option Designed 593291200777831793|0.07495930967428293 2057 Framed 87457462 50218765 Total for all Roof Types: 0.076 0.075 2057 COMPLIES

Registration Date/Time: Registration Provider: Energysoft Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-03-09 14:15:23 Schema Version: rev 20200601

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a-Weighted Average U-factor Compliance Calculation for Metal Building Roof

F. ROOF ASSEMBLY SCHEDULE his section does not apply to this project.

G. RATED ROOFING MATERIAL (COOL ROOF) his table demonstrates compliance with prescriptive roof material requirements in §140.3(a)1A for new construction or additions, or §141.0(b)2B for alterations. 03 04 10 06 Designed Material J-factor o Detail ID Name/Description Roof Material Status Occupancy Type Material Performance Performance Reflectance 0.1 Reflectance 0.1 Solar Reflectance To Be Determine 0.85 mittance I 0.75 Emittance Relocatable 1 CZ (Aged)/ Emittance 0.63 Reflectance 0.63 Nonresidential/ Solar Reflectance new code To Be Determined 0.75 Emittance mittance 0.85 Relocatable 1 CZ (Aged)/ Emittance

H. WALL ASSEMBLY SCHEDULE This table demonstrates compliance with prescriptive wall assembly requirements in §140.3(a)2 and §140.3(a)3 for new constructions or additions, or mandatory wall assembly equirements in $\S141.0(b)1B$ for alterations. Framed □Mass (new only) □Concrete Sandwich Panel (new only) □SIPS 01 Indicate wall types included in the project:1 Metal Panels | Metal Building | Spandrel/Curtain Wall Straw Bale Log Home (new only) FOOTNOTES: Wall types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table. ☐ Calculate Area-Weighted Average U-factor for Metal Framed Walls¹ Include Wood Framed Walls in Area-Weighted Average U-factor Calculation¹

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1. WALL ASSEMBLY SCHEDULE How Design Cavity Continuous Thermal Tag/Plan Detail rame Material, Occupancy & Thermal U-factor per Design U-factor was Location sulation per | Insulation per | Performance | Spacing & Depth Status Design Design Unit Performance determined per JA4 SW Exterior Nood 1/2" gyp 16 0.0 per U-factor 0.11 A4 Tables Exterior wall Relocatable 1 Software/ CZ: New per JA4 NW Exterior 0.0 0.11 per Exterior wall U-factor Relocatable Software/ Other per JA4 SW Exterior ood 1/2" gyp 16 0.0 0.11 elocatable 1 Exterior wall U-factor Software/ Other per JA4 Nood 1/2" gyp 16 Exterior Wall 0.0 U-factor 0.11 Relocatable 1 Exterior wall Software/ CZ: New per JA4 **NE Exterior** 0.11 0.0 U-factor Relocatable 1 A4 Tables Exterior wall Software/ CZ: New Other per JA4 Wood 1/2" gyp 16 0.0 U-factor 0.11 per JA4 Tables Exterior Wall Relocatable 1 Exterior wall 0.11 Software/ CZ: New

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CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-ENV-E Kensington Public Safety Building Report Page: Project Name: (Page 7 of 15) Project Address: 3/9/202 217 Arlington Ave. Date Prepared

. WALL ASSEMBLY SCHEDULE Cavity How Design rame Material, ng/Plan Detail Area³ Performanc Thermal J-factor per Design -factor was ulation per nsulation per Spacing & Depth Status Design Unit Design Performance per JA4 SW Exterior ood 1/2" gyp 16' JA4 Tables 0.0 U-factor 0.11 telocatable 1 Exterior wall Software/ Other per JA4 NW Exterior ood 1/2" gyp 16' per JA4 Tables R 11 0.0 U-factor 0.11 Relocatable 1 Exterior wall Software/ Other per JA4 **NE Exterior** ood 1/2" gyp 16 R 11 0.0 0.11 JA4 Tables U-factor Relocatable 1 Exterior wall Wall Software/ CZ: New Other per JA4 **NE Exterior** ood 1/2" gyp 16 0.11 Relocatable 1 JA4 Tables Exterior wall R 11 0.0 U-factor Software/ CZ: New Other per JA4 **NE Exterior** ood 1/2" gyp 16 per JA4 Tables R 11 0.0 U-factor 0.11 Relocatable 1 Exterior wall Software, CZ: New Other per JA4 ood 1/2" gyp 16 per JA4 Tables Exterior wall R 11 0.0 U-factor 0.11 E Exterior Wall Relocatable 1 Software/ CZ: New Other

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CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE (Page 8 of 15 Kensington Public Safety Building Report Page: 3/9/202 Project Address: 217 Arlington Ave. Date Prepared

H. WALL ASSEMBLY SCHEDULE How Design Cavity Thermal Required rame Material, Tag/Plan Detail Occupancy & Thermal U-factor was sulation per Insulation per Performance U-factor per Design Status Spacing & Depth Design Design determined Unit Performanc NE Exterior ood 1/2" gyp 16 R 11 0.0 0.11 JA4 Tables Relocatable 1 Exterior wall U-factor Wall Software/ Other per JA4 NW Exterior ood 1/2" gyp 16' Relocatable 1 JA4 Tables Exterior wall R 11 0.0 U-factor 0.11 Wall (skylight) Software Other per JA4 /ood 1/2" gyp 16' E Exterior Wal Relocatable 1 JA4 Tables R 11 0.0 U-factor 0.11 Exterior wall (skylight) Software/ CZ: New per JA4 ood 1/2" gyp 16 R 11 0.0 U-factor 0.11 JA4 Tables Exterior wall Relocatable 1 Software/ Other per JA4 ood 1/2" gyp 16 per R 11 0.0 U-factor 0.11 Relocatable 1 JA4 Tables Exterior wall Software/ CZ: New Other per JA4 W Exterior ood 1/2" gyp 16' per 0.0 Relocatable 1 JA4 Tables Exterior wall R 11 U-factor 0.11 Software/ CZ: New Other

Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-03-09 14:15:23 Schema Version: rev 20200601

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> CERTIFICATE OF COMPLIANCE NRCC-ENV-Project Name: (Page 9 of 15) Kensington Public Safety Building Report Page: Project Address: 3/9/202 217 Arlington Ave. Date Prepared

I. WALL ASSEMBLY SCHEDULE How Design Cavity Continuous Thermal Thermal U-factor per Design Area U-factor was Location sulation per | Insulation per | Performance | Spacing & Depth Status Design Design Unit Performance determined per JA4 **NW Exterior** Vood 1/2" gyp 16 per JA4 Tables 0.0 U-factor 0.11 Exterior wal Relocatable 1 Software/ CZ: New Other per JA4 NW Exterior R 11 per JA4 Tables 0.0 U-factor 0.11 Exterior wal Relocatable 1 Software/ Other per JA4 NW Exterior ood 1/2" gyp 16 per 0.11 lelocatable 1 JA4 Tables Exterior wall 0.0 U-factor Software/ CZ: New Other per JA4 **NE Exterior** ood 1/2" gyp 16' JA4 Tables R 11 0.0 U-factor 0.11 lelocatable 1 Exterior wall Software/ CZ: New OOTNOTES: If any individual assembly is non-compliant, assemblies may show compliance using an area-weighted calculation. Metal framed walls may not be combined with other

vall types. Wood framed walls are combined with SIPS, spandrel & curtain, metal panel and straw bale wall types. The area-weighted compliance option is not available for alteration: onstrating compliance with R-values in Table 141.0-C.

 2 If "R-value" is shown in cell 10 as the Thermal Performance Unit, the R-value shown here is for cavity insulation per $\S141.0(b)1B$. ³ Wall area minus any fenestration area

Mechanical Consultants 2 Harris Court Suite A7, Monterey, CA 93940 Telephone (831) 373-4390 / Facsimile (831) 373-6522 www.listengineering.com © LEC 2021 Job No. 21025.00

STAMP

PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA, 94707

PROJECT TEAM CLIENT: KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELI T: (415) 378-9064

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NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	04-01-22

DESCRIPTION TITLE 24 DOCUMENTS

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CALIFORNIA ENERGY COMMISSION

Envelope Component Approach

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H. WALL ASSEMBLY SCHEDULE									
Area-Weighted Average U-factor Compliance Calculation for Wood Framed/ SIPs/ Spandrel/ Curtain/ Metal Panel/ Straw Bale Wall Types									
01	02	03	04	05					
Wall Type	Total Area of Wall Type (ft²)	Area-weighted U-fa	actor for Wall Type	Compliance Results Using Area-Weighted					
wan rype	lotal Alea of Wall Type (it)	Required	Designed	Calculation Option					
Framed	2409	0.11	0.11						
Total for all Wall Types:	2409	0.11	0.11	COMPLIES					

I. FLOOR ASSEMBLY SCHEDULE

This section does not apply to this project.

J. EXTERIOR DOOR SCHEDULE

This table demonstrates compliance with prescriptive exterior door requirements in §140.3(a)7 for new construction or additions. Doors which are being replaced (alterations) do not need to be documented in this table because there are no Title 24, Part 6 requirements that apply. Exterior doors separate conditioned space from unconditioned space or from ambient air. Doors that are more than one-half glass in area are considered Glazed Doors and should be documented on Table K with fenestration per Table B.

01	02	03	04	03	00	O	,
Tag/Plan Detail ID	Name/Description	Occupancy Type	Door Type	Door Insulation	Maximum Allowed U-factor	U-factor per Desig	
	Metal Door	Nonresidential/Relocatable 1 CZ	Swinging	Any other wood door	0.7	per JA4	0.7
	Insulated Door	Nonresidential/Relocatable 1 C7	Swinging	Any other wood door	0.11	ner IA4	0.102

K. FENESTRATION AND GLAZED DOOR SCHEDULE

This table demonstrates compliance with prescriptive fenestration requirements in §140.3(a)5 for new constructions or additions, or §140.1(b)2A for alterations. Exterior doors that are more than one-half glass in area are considered Glazed Doors and should be documented on this table with fenestration. 01 Indicate fenestration types included in the project: Vertical (alterations) Vertical (new) Skylights Glazed Doors (new only)

FOOTNOTES: Floor types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be

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licked above and compliance demonstrated within this table.

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

☑ Calculate Area-Weighted Average U-factor for Vertical Fenestration and Glazed Doors¹

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K. FENESTRATION AND GLAZED DOOR SCHEDULE

02	\boxtimes	Calculate Area-W	eighted Average (R)SH	IGC for Vertical Fe	nestra	ation and Glazed Doors ¹										
03	×	Calculate Area-W	eighted Average VT fo	r Vertical Fenestra	ition a	and Glazed Doors ¹										
ertical Fene	stration And Gl	lazed Doors- U-factor, So	lar Heat Gain Coefficio	ent (RSHGC/ SHG	C), Vis	sible Transmittance (VT)										
04	05	06	07	08		09	10	11	12	13						
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	(R)SHGC Compliance Method	VT Compliance Method	ce Calculation Method for Performance Values per Design ²		Product Performance Unit	Required Product Performance	Product Performance per Design	Area						
	Operable	Nonresidential/		Table		NFRC Certified	U-factor (max)	0.46	0.46							
Window	window	Relocatable 1 CZ : New	Table 140.3-B/C/D	140.3-B/C/D		Overhang used for RSHGC	(R)SHGC (max)	0.22	0.22	1 12						
				, ,		Overnang used for KSHGC	VT (min)	0.32	0.5	1						
	Operable	Nonresidential/		Table		NFRC Certified	U-factor (max)	0.46	0.46							
Window	window	Relocatable 1 CZ : New	Table 140.3-B/C/D	140.3-B/C/D	Overhang used for RSHGC		(R)SHGC (max)	0.22	0.22	36						
							VT (min)	0.32	0.5							
	Operable	Nonresidential/		Table		NFRC Certified	U-factor (max)	0.46	0.46							
Window	window	Relocatable 1 CZ : New	Table 140.3-B/C/D	140.3-B/C/D								Overhang used for RSHGC	(R)SHGC (max)	0.22	0.22	9
						Overnang used for Kande	VT (min)	0.32	0.5	1						
	Operable	Nonresidential/		Table		NFRC Certified	U-factor (max)	0.46	0.46							
Window	window	Relocatable 1 CZ : New	Table 140.3-B/C/D	140.3-B/C/D		Overhang used for RSHGC	(R)SHGC (max)	0.22	0.22	36						
						Overhang used for Kande	VT (min)	0.32	0.5	<u>l </u>						
	Operable	Nonresidential/		Table		NFRC Certified	U-factor (max)	0.46	0.46							
Window	window	Relocatable 1 CZ : New	Table 140.3-B/C/D	140.3-B/C/D		Overhang used for RSHGC	(R)SHGC (max)	0.22	0.22	1 9						
						Overnang used for KSHGC	VT (min)	0.32	0.5	1						
	Operable	Nonresidential/		Table		NFRC Certified	U-factor (max)	0.46	0.46							
Window	window	Relocatable 1 CZ : New	Table 140.3-B/C/D	140.3-B/C/D	Overhang used for RSHGC		(R)SHGC (max)	0.22	0.22	3:						
						Overhalig used for NSHGC	VT (min)	0.32	0.5	1						

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K. FENESTRATION AND GLAZED DOOR SCHEDULE

ertical Fene	stration And GI	azed Doors- U-factor, So	lar Heat Gain Coefficie	ent (RSHGC/ SHGC	C), Vis	ible Transmittance (VT)				
04	05	06	07	08		09	10	11	12	13
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	(R)SHGC Compliance Method	VT Compliance Method	Peri	Calculation Method for formance Values per Design ²	Product Performance Unit	Required Product Performance	Product Performance per Design	Area ft
	Operable	Nonresidential/		Table		NFRC Certified	U-factor (max)	0.46	0.46	
Window	window	Relocatable 1 CZ : New	Table 140.3-B/C/D	140.3-B/C/D		Overhang used for RSHGC	(R)SHGC (max)	0.22	0.22	18
					1	Overnang used for KondC	VT (min)	0.32	0.5	
	Operable	Nonresidential/		Table		NFRC Certified	U-factor (max)	0.46	0.46	
Window	window	Relocatable 1 CZ : New	Table 140.3-B/C/D	140.3-B/C/D		Out the second fee DCLICC	(R)SHGC (max)	0.22	0.22	16
						Overhang used for RSHGC	VT (min)	0.32	0.5	
	0	Non-cidential/		T-1-1-		NFRC Certified	U-factor (max)	0.46	0.46	
Window	Operable window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D	П	6 1 16 551100	(R)SHGC (max)	0.22	0.22	16
						Overhang used for RSHGC	VT (min)	0.32	0.5	
	Onenable	Non-side-skiel/		Table		NFRC Certified	U-factor (max)	0.46	0.46	
Window	Operable window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	Table 140.3-B/C/D		lo la la prince	(R)SHGC (max)	0.22	0.22	12
						Overhang used for RSHGC	VT (min)	0.32	0.5	
	Operable	Nonresidential/		Table		NFRC Certified	U-factor (max)	0.46	0.46	
Window	window	Relocatable 1 CZ : New	Table 140.3-B/C/D	140.3-B/C/D		Overalle and the DCHCC	(R)SHGC (max)	0.22	0.22	12
				, ,		Overhang used for RSHGC	VT (min)	0.32	0.5	
	Operable	Nonracidantia!/		Table		NFRC Certified	U-factor (max)	0.46	0.46	
Window	Operable window	Nonresidential/ Relocatable 1 CZ : New	Table 140.3-B/C/D	140.3-B/C/D		Out the second fee DCLICS	(R)SHGC (max)	0.22	0.22	50
						Overhang used for RSHGC	VT (min)	0.32	0.5	

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Envelope Component Approach CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E Project Name: Kensington Public Safety Building Report Page: (Page 13 of 15) Project Address 217 Arlington Ave. Date Prepared:

ical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT) Product Product Required Calculation Method for Occupancy & Status Product Performance Detail ID Type Performance Values per Design Performance per Design NFRC Certified U-factor (max) 0.46 0.46 Operable Nonresidential/ Table 140.3-B/C/D Window 0.22 0.22 (R)SHGC (max) Relocatable 1 CZ : Ne 140.3-B/C/D window Overhang used for RSHGC VT (min) 0.32 0.5 NFRC Certified U-factor (max) 0.46 0.46 Nonresidential/ Operable Window Table 140.3-B/C/D 0.22 (R)SHGC (max) 0.22 140.3-B/C/D window Relocatable 1 CZ: Ne Overhang used for RSHGC VT (min) 0.32 NFRC Certified 0.46 0.46 U-factor (max) Operable Nonresidential/ Table 140.3-B/C/D Window (R)SHGC (max) 0.22 0.22 window telocatable 1 CZ : Ne 140.3-B/C/D Overhang used for RSHGC 0.32

FOOTNOTES: If any individual fenestration product is non-compliant, products may show compliance using an area-weighted calculation. Chromogenic glazing is not included in rrea-weighted calculations. Area-weighted calculation shown in separate area-weighted table below. ²The NA6 Default Calculation can only be used for buildings with less than 200ft² of site built glazing. If the project has greater than 200ft², the only options for determining fenestration

Overhangs must extend past the left and right window the same distance as the depth of the overhang or greater to show an affect on the RSHGC. If an overhang does not meet this quirement, the affect of the overhang will be ignored.

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Projecting includes casement and awning windows.

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VT (min) 0.32

0.5

values are NFRC Certification or the Default Tables in 110.6.

. FENESTRATION AND GLAZED DOOR SCHEDULE

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K. FENESTRATION AND GLAZED DOOR SCHEDULE

Envelope Component Approach

	AN THE MANAGEMENT OF COMMISSION OF COMMISSIO			
ea-Weighted Average U-factor,	SHGC, VT Compliance Calculation for V	ertical Fenestration And Glaze	d Doors	
01	02	03	04	05
Product Performance Unit	T-+- A 6 T+	Compliance Results Using Area-Weighted		
Product Performance Offic	Total Area of Fenestration (ft²)	Required	Designed	Calculation Option
U-Factor	307	0.46	0.46	COMPLIES
(R)SHGC	307	0.22	0.22	COMPLIES
VT	307	0.32	0.5	COMPLIES

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L. DAYLIGHT IN LARGE ENCLOSED SPACES This section does not apply to this project

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at

Field Inspector Yes Form/Title Pass Fail NRCI-ENV-01-E - Must be submitted for all buildings

N. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCA-ENV-02-F must be submitted for all new, added or altered fenestration.

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/. Indivudals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NA7.3.1 Field Inspector Form/Title

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STATE OF CALIFORNIA **Envelope Component Approach**

Address: 2 Harris Ct, Suite A7,

Registration Number:

City/State/Zip: Monterey, Ca 93940

CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-ENV-I Project Name: Kensington Public Safety Building Report Page: (Page 15 of 15) Project Address: 217 Arlington Ave. Date Prepared: 3/9/202

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete Documentation Author Name: umentation Author Signature: List Engineering Company EA/ HERS Certification Identification (if applicable) City/State/Zip: RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:

The information provided on this Certificate of Compliance is true and correct.

I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requireme of Title 24, Part 1 and Part 6 of the California Code of Regulations

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

License: M23440

831-373-439

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. ponsible Designer Name: Ron Blue oonsible Designer Signature: Company: List Engineering Company Date Signed 2022-03-09

STATE OF CALIFORNIA

Mechanical Systems CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE NRCC-MCH-E This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations. Project Name: Kensington Public Safety Building Report Page: (Page 1 of 18) Project Address: 3/9/202 217 Arlington Ave. Date Prepared:

A. GENERAL INFORMATION 04 Total Conditioned Floor Area 1 Project Location (city) Kensington 3227 02 Climate Zone 05 Total Unconditioned Floor Area 1570 03 Occupancy Types Within Project: 06 # of Stories (Habitable Above Grade) ■ Non-refrigerated Warehouse (S) Retail (M) ☐ Hotel / Motel Guest Rooms (R-1) ☐ School (E) ☐ Healthcare Facility (I) ☐ High-Rise Residential (R-2/R-3) ☐ Relocatable Class Bldg (E) ☑ Other (write in) See Table J

B. PROJECT SCOPE

his table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or §141.0(b)2 for alterations. Air System(s Wet System Components Dry System Components ★ Heating Air System ☐ Water Economizer ☐ Air Economizer Pumps ☑ Cooling Air System ☐ Electric Resistance Heat Mechanical Control: ☐ System Piping Mechanical Controls (existing to remain, alter ☐ Cooling Towers Ductwork (existing to remain, altered or new) or new) ☐ Chillers ☐ Boilers Zonal Systems/ Terminal Boxes

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C. COMPLIANCE RESULTS Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance System Summary Controls Pumps Ventilatio §110.1, §110.2, §120.3, Controls §140.4(k) §140.4(c), §120.1 §110.2(e)2 Compliance Results §110.2, §120.2, §140.4(I) §140.4(e) §140.4 See Table F) (See Table M) (See Table H) (See Table I (See Table J) (See Table K) (See Table L) (See Table G DOES NOT COMPLY Yes

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Mandatory Measures Compliance (See Table Q for Details

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a). <u>[40.4(b)</u> and <u>§140.4(k)</u> or <u>§141.0(b)2</u> for alterations Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters) 05 06 07 08 09 10 11 Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b) Heating Output^{2,3} Cooling Output^{2,3} Load Calculations^{3,4} Smallest Size Name or Item Equipment Category per | Equipment Type per Tables 110.2 / Ti Available¹ Tables 110.2 Sensible §140.4(a) 'er Design Rated Heating Heating Cooling Per Design (kBtu/h) (kBtu/h) Output (kBtu/h) Load (kBtu/h) Load (kBtu/h) (kBtu/h) NA: Load 39.68 Variable Refrigerant Flow 61.15 60.8 51.07 VRF heat pump, air cooled Controls NA: Load 42.77 60.73 50.74 Variable Refrigerant Flow VRF heat pump, air cooled 61.15 Controls NA: Load 63.87 OU-3 Variable Refrigerant Flow VRF heat pump, air cooled 59.95 52.79 Controls OU-4 (Cooling NA: Load Variable Refrigerant Flow 11.91 VRF heat pump, air cooled Controls

¹FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(a). Healthcare facilities are excepted.

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²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).

Mechanical Consultants 2 Harris Court Suite A7, Monterey, CA 93940 Telephone (831) 373-4390 / Facsimile (831) 373-6522 www.listengineering.com © LEC 2021 Job No. 21025.00

STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA, 94707

PROJECT TEAM CLIENT: KENSINGTON FIRE

PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR T. (415) 522-0600

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 **CONTACT: MATT FRANTZ**

> T: (650) 394-8869 **BKF ENGINEERS** 1646 N. CALIFORNIA BLVD STE 400 WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON

T: (925) 940-2200 GEOTECH: HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS T: (510) 879-4544

MEP: LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE T: (831) 373-4390

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD T: (415) 255-9140

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

DESCRIPTION DATE SSUED FOR BUILDING PERMIT 04-01-22

DESCRIPTION

JOB NO.

TITLE 24 DOCUMENTS

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COMPLIES

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP) 04 Heating Mode Cooling Mode Name or Iten Size Category Efficiency Efficiency (Btu/h) Condition Efficiency Uni Required per Required per Tables 110.2 Tables 110.2 Title 20 Title 20 7.7 OU-1 <65,000 HSPF 10.45 SEER 13.0 17.7 °Fwb OSA 7 °Fdb/ 43 OU-2 <65,000 7.7 10.45 17.7 HSPF SEER 13.0 °Fwb OSA 7 °Fdb/ 43 17.7 OU-3 <65,000 HSPF 10.45 SEER 13.0 °Ewb OSA 17 °Fdb/ 43 OU-4 (Cooling <65,000 HSPF 10.45 SEER 13.0 °Fwb OSA only)

G. PUMPS

This section does not apply to this project.

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H. FAN SYSTEMS & AIR ECONOMIZERS

exempt from these requirements and do not need to be included in Table H. Designed per <u>§140.4(e)</u> and OU-1 NA: Special OA filtration System Fan Type: Constant Volume Name: Controls: 01 03 06 n Power Pressure Drop Adjustment - Table 140.4-B Fan Name Maximum Design Supply Airflow Fan Function Design HP esign Airflow through Item Tag (CFM)

This table is used to demonstrate compliance with prescriptive requirements found in \$140.4(c), \$140.4(e) and \$140.4(m) for fan systems. Fan systems serving only process loads are

Device Device (CFM) Exhaust 630 BHP BHP Exhaust Exhaust BHP Exhaust BHP 1 BHP Exhaust Maximum System Fan Total System Design

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H. FAN SYSTEMS & AIR ECONOMIZERS Designed per §140.4(e) and NA: Special OA filtration Constant Volume OU-2 System Fan Type: 01 08 n Power Pressure Drop Adjustment - Table 140.4-E Fan Name o Maximum Design Supply Airflow Fan Function Design HP Design Airflow through Item Tag (CFM) Device Device (CFM) 490 BHP Exhaust 0 EF 1 BHP 0 Exhaust BHP Exhaust BHP Exhaust Exhaust BHP BHP Exhaust kimum System Fan Total System Design Total System Design Supply Airflow (CFM): esigned per <u>§140.4(e)</u> a OU-3 NA: Special OA filtration System Fan Type: Constant Volume Name: 01 06 an Power Pressure Drop Adjustment - Table 140.4-B Fan Name o Maximum Design Supply Airflow Fan Function Design HP esign Airflow through Item Tag (CFM) Device (CFM) Exhaust 445 BHP 0 Exhaust BHP Exhaust 1 0 BHP 0 Exhaust BHP Total System Design Maximum System Fan Total System Design Supply Airflow (CFM): Power (B)HP:

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H. FAN SYSTEMS & AIR ECONOMIZERS

System Name:	OU-4 (Cooling only)	Econon	nizer:¹	NA: <=54 kBtu/h cooling	244.0	Economizer Desig		d per <u>§140.4(e)</u> and (m)	System Fan Type:	Constant Volume
01	02		03	04		05 06		06	07	08
Fan Name or				Maximum Design Supply Airflow					Fan Power Pressure Drop Adjustment - Table	
Item Tag	Fan Functio	n	Qty	(CFM)	- · · · · · · · · · · · · · · · · · · ·		nit ²	Design HP	Device	Design Airflow through Device (CFM)
Total Syst	tem Design Supply A	irflow (CF	M):	0		ystem De: (B)HP:	sign	0	Maximum System Fan Power (B)HP:	0

¹ FOOTNOTES: Computer room economizers must meet requirements of $\underline{§140.9(a)}$ and will be documented on the NRCC-PRC-E document.

² The unit used for HP must be consistent for all fans within a system.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in \$110.2 and \$120.2 and prescriptive controls in \$140.4(f) and (n) or requirements in \$141.0(b)2E for altered space conditioning systems.

ъ		2000			HAV			200000	19.55
	01	02	03	04	05	06	07	08	09
	System Name	System Zoning	Conditioned Floor Area Being Served (ft ²)	Thermostats \$110.2(b) & (c) ¹ , \$120.2(a)or \$141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per <u>§140.4(n)</u>
	OU-1	Multi-zone w/ DDC to zone	<= 25,000 ft ²	EMCS	NA: 7 day per <u>§120.2(e)1</u>	4 Hour Timer	EMCS	NA: Alteration	NA: Alteration Project
	OU-2	Multi-zone w/ DDC to zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
	OU-3	Multi-zone w/ DDC to zone	<= 25,000 ft ²	Setback	Auto Timer Switch	4 Hour Timer	EMCS	Included	Provided
	OU-4 (Cooling only)	Multi-zone w/ DDC to zone	<= 25,000 ft ²	EMCS	NA: 7 day per §120.2(e)1	4 Hour Timer	EMCS	NA: Alteration	NA: Alteration Project

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I. SYSTEM CONTROLS

EXCEPTION 1 to §140.4(f)

¹FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d);

I. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)3B for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventialtion systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.

Check this box if the project included Nonresidential or Hotel/Motel spaces

Check this box if the project included new or altered high-rise residential dwelling units.

Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

	04		05				06	(07	
		System Desi	an OA CEM	CEM		Dosign		Air Filtration per §120.1(c) and §141.0(b)		
System Name	OU-1	Airfle		579	System Design Transfer Air CFM		0	Provided per <u>§120.1(c)</u> (NR and Hotel/Motel))		
08	09	10	11	12	13	14	15	16		
	Mechanical Ventila	tion Required per <u>§120.1(c)3</u> ³				Exh.	Vent per <u>§120.1(c)4</u>			
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	A Required Provided per Desig		DCV or Sensor Controls per <u>§120.1(d)3</u> , <u>§120.1(d)5</u> , and <u>§120.1(e)3</u> ⁶		
Staff +	Office space	222		3	45	0	30	DCV	NA: Not required per §120.1(d)3	
Restroom	Office space	222		3	45		30	Occ Sensor	NA: Not required space type	

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J. VENTILATIO	ON AND INDOOR AIR QUALITY								
Administratio	Office chase	253		2	30	0	40	DCV	NA: Not required per §120.1(d)3
n	Office space	255		Z	30	U	40	Occ Sensor	NA: Not required space type
Mastina	Lastura hall (fixed assta)	390		30	450	0	450	DCV	NA: Not required per §120.1(d)3
Meeting	Lecture hall (fixed seats)	390		30	450	U	450	Occ Sensor	NA: Not required space type
Lobby	Corridor	115		0	0	0	60	DCV	NA: Not required per §120.1(d)3
LODBY	Corridor	115		U		U	60	Occ Sensor	NA: Not required space type
Hall 1	Corridor	190			28.5	0	50	DCV	NA: Not required per §120.1(d)3
Hall I	Corridor	190			28.5	U	50	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				579	18	Ventilation for this S	System Complies?	Yes
	04		05				06		07
		System Desi	an OA CEM		System	Dosign		Air Filtration per §12	0.1(c) and §141.0(b)2
System Name	OU-2	Airflo		361	Transfer		0		<u>120.1(c)</u> (NR and /Motel))
08	09	10	11	12	13	14	15		16
	Mechanical Ventila	tion Required	per <u>§120.1(c</u>)	3 ³		Exh. \	Vent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM		ntrols per <u>§120.1(d)3,</u> and <u>§120.1(e)3</u> ⁶
Dorm 1	All others	148		2	45	0	50	DCV	NA: Not required per §120.1(d)3
Dorm 1	All others	148		3	45	U	50	Occ Sensor	NA: Not required space type

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 CALIFORNIA ENERGY COMMISSION

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J. VENTILATIO	ON AND INDOOR AIR QUALITY								
Dorm 2	All others	148		3	45	0	50	DCV	NA: Not required per §120.1(d)3
DOMI 2	All others	140		3	45	U,	50	Occ Sensor	NA: Not required space type
Dorm 3	All others	148		3	45	0	50	DCV	NA: Not required pe §120.1(d)3
DOM: 3	All others	140		5	45	O,	50	Occ Sensor	NA: Not required space type
Hall 3 + Bath 1 + Bath 2 +	All others	305		3.1816816	45	0	100	DCV	NA: Not required pe §120.1(d)3
Laundry	All others	303		8168168	45	O O	100	Occ Sensor	NA: Not required space type
Hall 2	Corridor	250			37.5	0	50	DCV	NA: Not required pe §120.1(d)3
Hall Z	Corridor	250			37.5	U	50	Occ Sensor	NA: Not required space type
Exercise	Gym/ sports arena (play area)	282		5	75	0	190	DCV	NA: Not required pe §120.1(d)3
Exercise	Gynny sports arena (piay area)	202		3	/3	U.	190	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				361	18	Ventilation for this S	System Complies?	Yes
	04		05		06		06		07
		System Desi	gn OA CEM	00000000	System Design		Air Filtration per §12	0.1(c) and §141.0(b)2	
System Name	OU-3	Airfl	200 C	345	Transfer		0		<u>120.1(c)</u> (NR and /Motel))
08	09	10	11	12	13	14	15		16
	Mechanical Ventila	tion Required	per §120.1(c)3 ³		Exh.	Vent per §120.1(c)4		

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Min OA

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Provided per Desig

of

Floor Area

heads/

state of california

Mechanical Systems

Space Name

ot item Tag

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· · · · · · · · · · · · · · · · · · ·	N AND INDOOR AIR QUALITY								
Kitchen	Kitchenettes	570		3	45	171	115	DCV	NA: Not required po §120.1(d)3
Kitchen	Ritcheriettes	370		3	45	1/1	113	Occ Sensor	NA: Not required space type
Day Room	Break room	480		3	45	0	240	DCV	NA: Not required p §120.1(d)3
Day ROOM	break room	460		3	45	U	240	Occ Sensor	NA: Not required space type
Captain's	Office space	130		2	30	O	60	DCV	NA: Not required po §120.1(d)3
Office	Office space	150		, Z ,	30	O	00	Occ Sensor	NA: Not required space type
Office	Office Office space 130 2	2	30	0	30	DCV	NA: Not required po §120.1(d)3		
Office	Office space	150		2	30	Ü	30	Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				345	18	Ventilation for this S	System Complies?	Yes
	04		05				06	()7
		System Desi	gn ∩Δ CFM		System	Dosign		Air Filtration per §120	0.1(c) and §141.0(b)2
System Name	OU-4 (Cooling only)	Airfle		0	Transfer		0	OF MINISTER SHOWING SHAPE SHAPE	<u>.20.1(c)</u> (NR and Motel))
08	09	10	11	12	13	14	15	1	L6
	Mechanical Ventila	tion Required	per <u>§120.1(c</u>)	<mark>3</mark> 3		Exh. '	Vent per <u>§120.1(c)4</u>		
Space Name ot item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people ⁵	Required Min OA CFM	Required Min CFM	Provided per Design CFM	the state of the s	trols per <u>§120.1(d)3,</u> nd <u>§120.1(e)3</u> ⁶
IT/ Elec +	All others	215		0	0	0	0	DCV	NA: Not required p §120.1(d)3
Storage	All others	215		0		0	0	Occ Sensor	NA: Not required space type

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J. VENTILATION AND INDOOR AIR QUALITY

17 Total System Required Min OA CFM 0

1 FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

² Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

³ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

⁴ See Standards Tables 120.1-A and 120.1-B.

⁵ For lecture halls with fixed seating, the expects

⁵ For lecture halls with fixed seating, the expected number of occupants shall be shall be determined in accordance with the California Building Code.

⁶ §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation.

Examples of spaces which require lighting occupancy sensors include offices $250 ft^2$ or smaller, multipurpose rooms less than $1,000 ft^2$, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by $\underline{\$130.1(c)}$.

K. TERMINAL BOX CONTROLS

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L. DISTRIBUTION (DUCTWORK and PIPING)

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

This section does not apply to this project.

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(I) for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct systems:

OU-1

Duct leakage testing triggered for these systems?

No

11

No

The scope of the project includes only duct systems serving healthcare facilities

12

No

Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.

13

Yes

The space conditioning system serves less than 5,000 ft² of conditioned floor area.

14

No

The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:

Outdoors

In a space directly under a roof that has a U-factor greater than the u-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)1B or if the roof has fixed vents or openings to the outside/ unconditioned spaces

In an unconditioned crawl space

Schema Version: rev 20200601

Registration Date/Time: Registration Provider: Energysoft

Report Version: 2019.1.003 Report Generated: 2022-03-09 14:15:23

Ventilation for this System Complies?

Yes

List Engineering
Mechanical Consultants

2 Harris Court Suite A7, Monterey, CA 93940
Telephone (831) 373-4390 / Facsimile (831) 373-6522
www.listengineering.com © LEC 2021
Job No. 21025.00

STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA, 94707

PROJECT TEAM
CLIENT:

CIVIL:

DCV or Sensor Controls per §120.1(d)3,

§120.1(d)5, and §120.1(e)3 6

KENSINGTON FIRE
PROTECTION DISTRICT
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SAN FRANCISCO, CA. 94117

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STRUCTURAL: ZFA STRUCTURAL ENGINEERS
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BKF ENGINEERS
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GEOTECH: HALEY ALDRICH
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MEP: LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE T: (831) 373-4390

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD T: (415) 255-9140

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI

T: (415) 826-9626

NO. DESCRIPTION DATE

ISSUED FOR BUILDING PERMIT 04-01-22

JOB NO.

DESCRIPTION
TITLE 24 DOCUMENTS

M005

Registration Date/Time:

Report Version: 2019.1.003

Kensington Public Safety Building Report Page:

217 Arlington Ave. Date Prepared:

Form/Title

Systems To Be Field Verified

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

NRCI-MCH-01-E - Must be submitted for all buildings

applicable) since testing activities overlap.

applicant should move this form to "Yes".

NRCA-MCH-04-A - Air Distribution Duct Leakage

NRCA-MCH-07-A Supply Fan Variable Flow Controls NRCA-MCH-08-A Valve Leakage Test

NRCA-MCH-11-A Automatic Demand Shed Controls

NRCA-MCH-10-A Hydronic System Variable Flow Controls

NRCA-MCH-09-A Supply Water Temperature Reset Controls

NRCA-MCH-05-A - Air Economizer Controls

These documents must be provided to the building inspector during construction and can be found online at

These documents must be provided to the building inspector during construction and can be found online at

https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title

NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically

NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note:

MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if

move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit

NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to $\S120.1(c)3$) can vary outside

ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration

https://www.energy.ca.gov/title24/2019standards/2019 compliance documents/Nonresidential Documents/NRCI/

Registration Number:

STATE OF CALIFORNIA

NRCC-MCH-E

Project Name:

Project Address:

Yes

Mechanical Systems

CERTIFICATE OF COMPLIANCE

Mechanical Systems CERTIFICATE OF COMPLIANCE Project Name: Kensington Public Safety Building Report Page: 217 Arlington Ave. Date Prepared O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE NRCA-MCH-12-A FDD for Packaged Direct Expansion Units NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance IRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy System DX AC Systems are included in teh scope permit applicant should move this form to 'Yes". NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External melt, Ice Harvester, Brine, Ice-Slurry, Eutecti Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should nove this form to 'Yes". NRCA-MCH-16-A Supply Air Temperature Reset Controls NRCA-MCH-17-A Condenser Water Temperature Reset Controls NRCA-MCH-18-A Energy Management Control Systems NRCA-MCH-19-A Occupancy Sensor Controls NRCA-MCH-20 Multi-Family Ventilation NRCA-MCH-21 Multi-Family Envelope Leakage P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Provider's registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019 compliance documents/Nonresidential Documents/NRCV/ Form/Title NRCV-MCH-04-H Duct Leakaage Test NOTE: Must be completed by a HERS Rater NRCV-MCH-24 Enclosure Air Leakaage Worksheet NOTE: Must be completed by a HERS Rater NRCV-MCH-27 High-rise Resdential NOTE: Must be completed by a HERS Rater NRCV-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater Registration Number: Registration Date/Time: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601

STATE OF CALIFORNIA

STATE OF CALIFORNIA

NRCC-MCH-E

Mechanical Systems

CERTIFICATE OF COMPLIANCE

Project Name: Kensington Public Safety Building Report Page: (Page 17 of 18) 217 Arlington Ave. Date Prepared Q. MANDATORY MEASURES DOCUMENTATION LOCATION This table is used to indicate where mandatory measures are documented in the plan set or construction documentation Plan sheet or construction document location ompliance with Mandatory Measures documented through MCH Mandatory Measures Note Block M-Sheets Registration Provider: Energysoft Registration Number: Registration Date/Time: Registration Provider: Energysoft Report Generated: 2022-03-09 14:15:23 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-03-09 14:15:23 Schema Version: rev 20200601 STATE OF CALIFORNIA **Mechanical Systems** CALIFORNIA ENERGY COMMISSION CALIFORNIA ENERGY COMMISSION NRCC-MCH-E CERTIFICATE OF COMPLIANCE NRCC-MCH-E NRCC-MCH-(Page 15 of 18). (Page 18 of 18) Project Name: Kensington Public Safety Building Report Page: 3/9/202 3/9/20 Project Address: 217 Arlington Ave. Date Prepared DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. nentation Author Name: cumentation Author Signature: nature Date: List Engineering Company Pass Fail 4/ HERS Certification Identification (if applicable) RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California The information provided on this Certificate of Compliance is true and correct. Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, Field Inspector plans and specifications submitted to the enforcement agency for approval with this building permit application. Pass Fail I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the pull provides to the building owner at occupancy. nsible Designer Name Ron Blue mpany: List Engineering Company 022-03-09 Address: 2 Harris Ct, Suite A7, License: M23440 Phone: 831-373-4390 City/State/Zip: Monterey, Ca 93940



STAMP

CALIFORNIA ENERGY COMMISSION

NRCC-MCH-E

(Page 16 of 18)

Field Inspector

Registration Provider: Energysoft

Report Generated: 2022-03-09 14:15:23

CALIFORNIA ENERGY COMMISSION

NRCC-MCH-

3/9/202



PROJECT ADDRESS

217 ARLINGTON AVE.

KENSINGTON,	CA,	94707
ROJECT TEAM		

CLIENT: KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR T. (415) 522-0600

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ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

DESCRIPTION DATE SSUED FOR BUILDING PERMIT 04-01-22

JOB NO.

DESCRIPTION TITLE 24 DOCUMENTS

Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-03-09 14:15:23 Schema Version: rev 20200601

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20200601

Report Generated: 2022-03-09 14:15:23

Registration Provider: Energysoft

- 1. PENETRATIONS NOT ALLOWED ON SHEAR WALLS. COORDINATE WITH STRUCTURAL.
- DEMOLISH ALL (E) MECHANICAL EQUIPMENT AND DUCTING, EXCEPT (E) VEHICLE ENGINE EXHAUST EXTRACT SYSTEM.
- 3. PROTECT AND RETAIN (E) VEHICLE ENGINE EXHAUST EXTRACTION SYSTEM.



STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA, 94707

PROJECT TEAM

CLIENT:

KENSINGTON FIRE
PROTECTION DISTRICT
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KENSINGTON, CA 94707
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AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET

T: (831) 373-4390

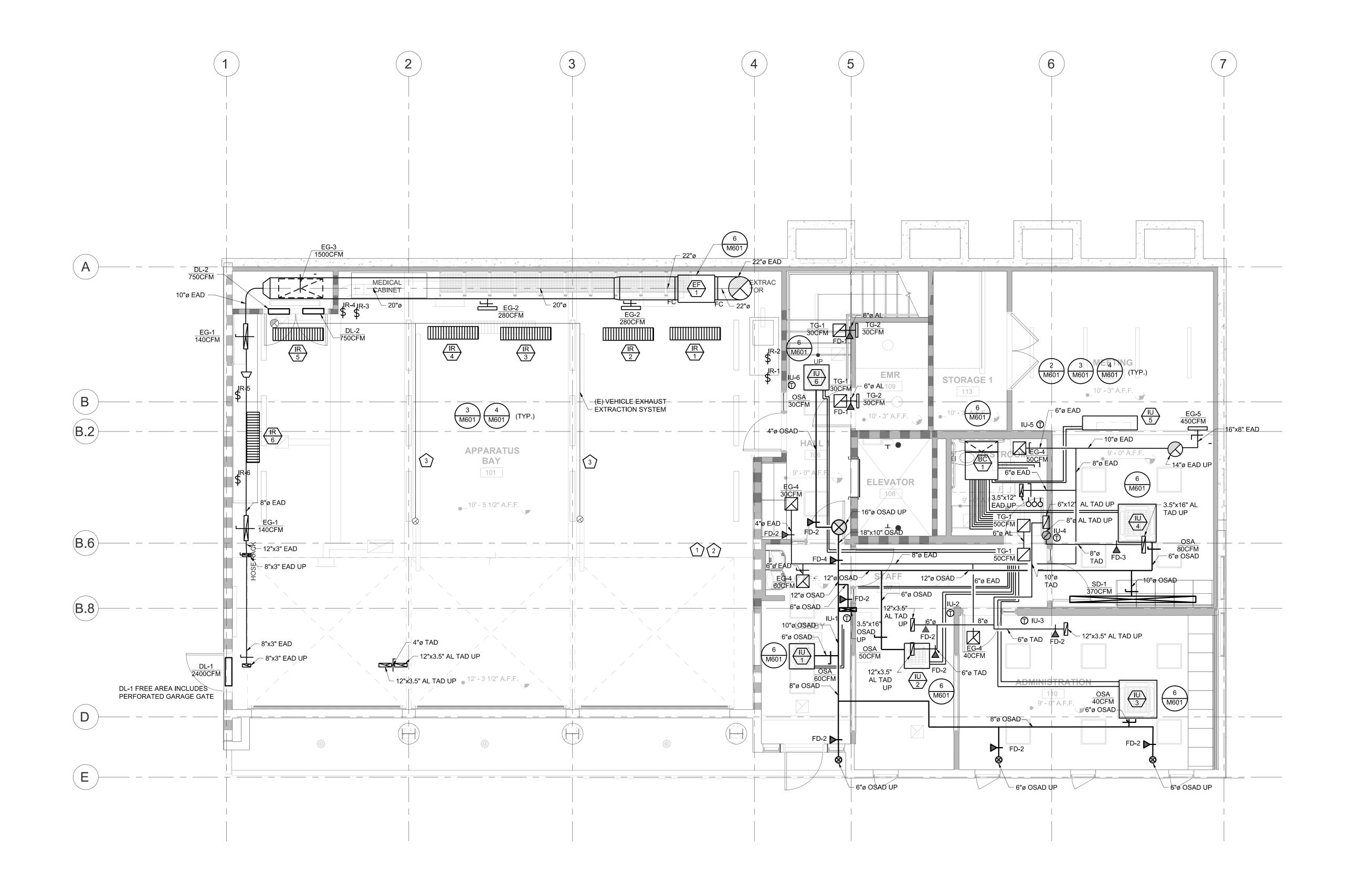
351 8TH STREET
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ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

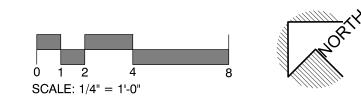
NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	04-01-22
<u> </u>		
JOB N	NO.	

DESCRIPTION

MECHANICAL GROUND
FLOOR PLAN







- COORDINATE WITH STRUCTURAL BEFORE PENETRATING SHEAR WALLS.
- 2. DEMOLISH ALL (E) MECHANICAL EQUIPMENT AND DUCTING, EXCEPT (E) VEHICLE ENGINE EXHAUST EXTRACT SYSTEM.
- 3. PROTECT AND RETAIN (E) VEHICLE ENGINE EXHAUST EXTRACTION SYSTEM



STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA, 94707

PROJECT TEAM

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AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET SAN FRANCISCO, CA 94103

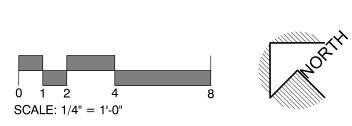
CONTACT: PETER MCDONALD T: (415) 255-9140

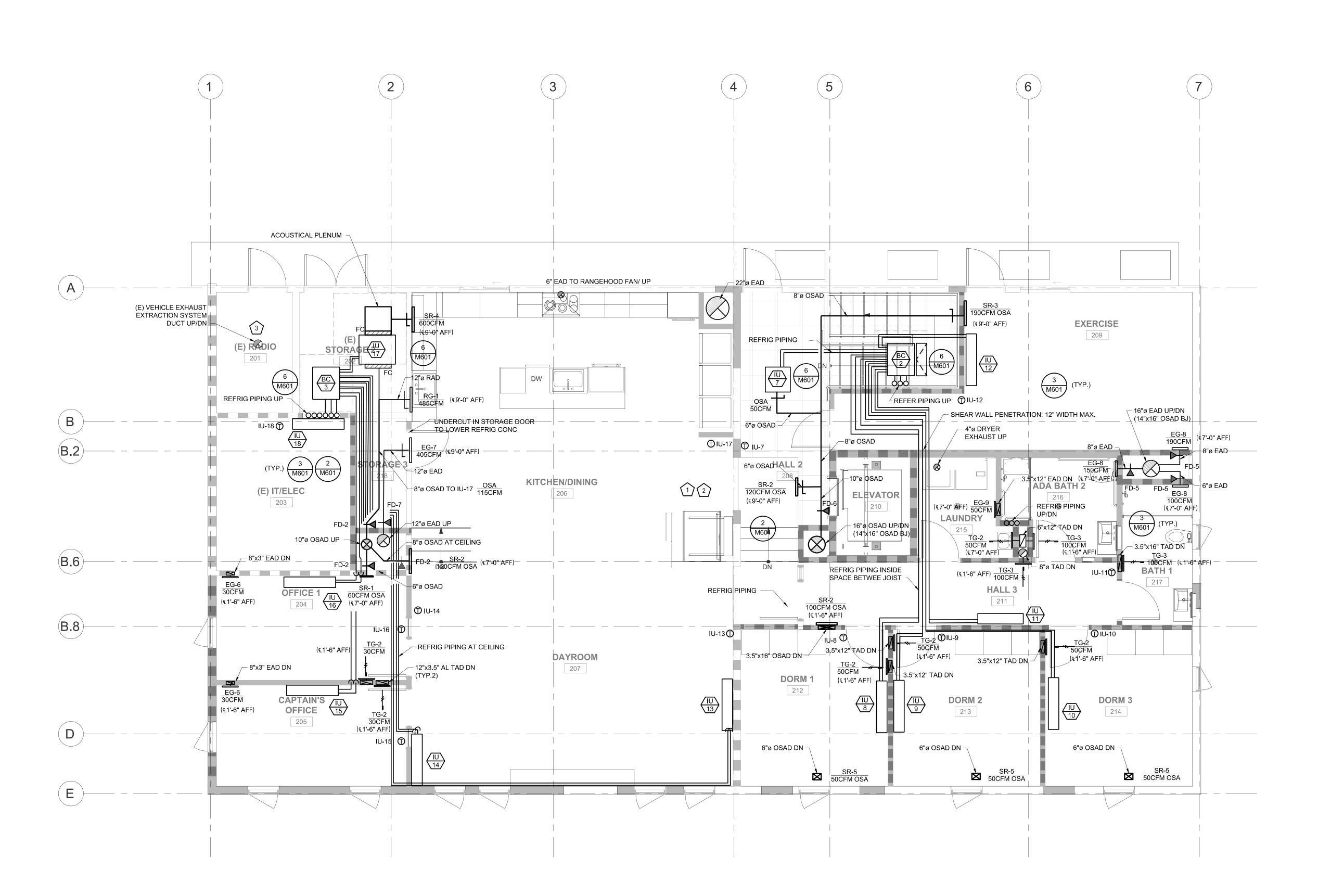
ESTIMATOR: MICROESTIMATION INC.
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NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	04-01-22

DESCRIPTION

MECHANICAL SECOND
FLOOR PLAN





SHEET NOTES

- DEMOLISH ALL (E) MECHANICAL EQUIPMENT AND DUCTING, EXCEPT (E) VEHICLE ENGINE EXHAUST EXTRACT SYSTEM.
- 2. PROTECT AND RETAIN (E) VEHICLE ENGINE EXHAUST EXTRACTION
- 3. REPLACE (E) EXHAUST FAN FOR VEHICLE ENGINE EXHAUST EXTRACTION SYSTEM W/ (N) EF. EF TO MATCH (E) FAN CAPACITY. VIF. COVER EF W/ SOUND DEADENING MATERIAL.



STAMP



PROJECT ADDRESS

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PROJECT TEAM

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CONTACT: RON BLUE

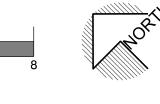
351 8TH STREET
SAN FRANCISCO, CA 94103
CONTACT: PETER MCDONALD
T: (415) 255-9140

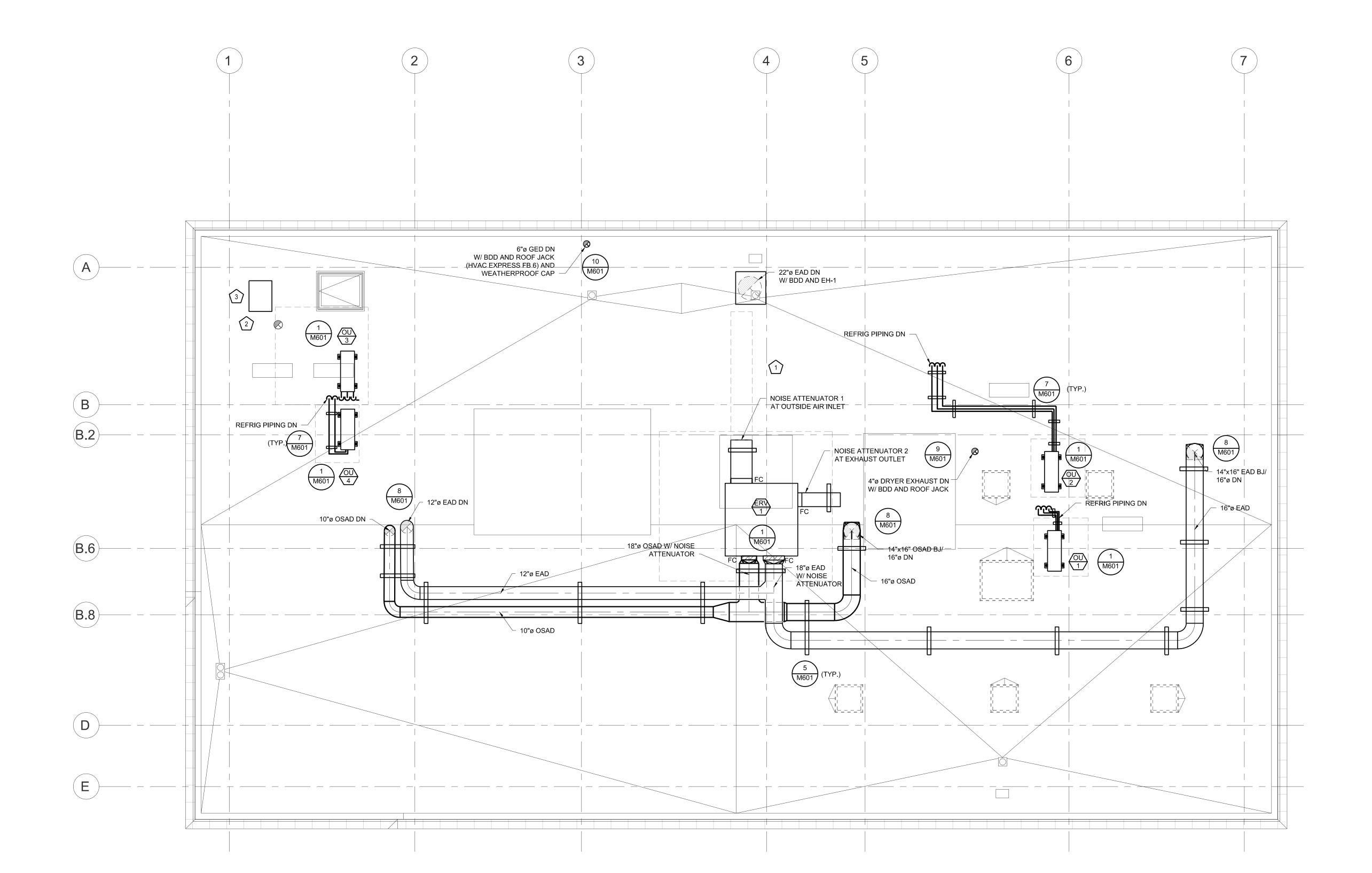
ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	04-01-22
JOB I	NO.	

DESCRIPTION

MECHANICAL ROOF PLAN







ITEM DESCRIPTION

- ACTUATOR (LOCATION MAY VARY) DAMPER MAY BE SUPPLIED WITHOUT ACTUATOR INSTALLED. UL LISTED FIRE DAMPER **ACTUATORS MAY BE FIELD** INSTALLED IF PROPERLY LABELED. SEE ACTUATOR INSTALLATION INSTRUCTIONS FOR FIELD MOUNTING OF DAMPER
- ACTUATORS. 2. OPTIONAL FIRESTAT OR SWITCH 3. AUXILIARY OPERATING JACK
- SHAFT
- 4. DAMPER OVER CENTER LOCK
- SLEEVE 7. CAULKING MATERIAL (MAY BE ON EITHER SIDE OF DAMPER FRAME)
- 8. PFMA OR CONVENTIONAL MOUNTING ANGLES 9. S-JOINT/DUCT MATE, SLEEVE TO
- DUCT 10. SMOKE DETECTOR WITHIN 5'

M601 / NO SCALE

DESCRIPTION

BE FIELD INSTALLED IF PROPERLY

LABELED. SEE ACTUATOR

ACTUATORS.

5. OVER CENTER LOCK

4. DAMPER.

6. SLEEVE

ANGLES.

FIELD MOUNTING OF DAMPER

2. OPTIONAL FIRESTAT OR SWITCH.

7. CAULKING MATERIAL (MAY BE ON

BRANCHING BETWEEN SMOKE

DETECTOR AND DAMPER.

EITHER SIDE OF DAMPER FRAME).

BEFORE ANY BRANCHING SMOKE/FIRE DAMPER- HORIZONTAL

┌6" (152) MIN.

TYP.

16" (406) MAX.

FIRE SMOKE DAMPER CONTROL SEQUENCE OF OPERATION FOR FIRE SMOKE DAMPERS

- SUPPLY APPROPRIATE PNEUMATIC OR ELECTRICAL POWER TO DAMPER. (240VAC OR 120VAC)
- 2. DAMPER BLADES ARE OPEN WHEN POWER IS APPLIED.

─1" (25) MIN.

TYPICAL

DAMPER

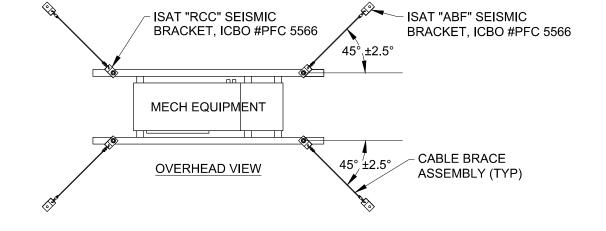
OVERLAP ON

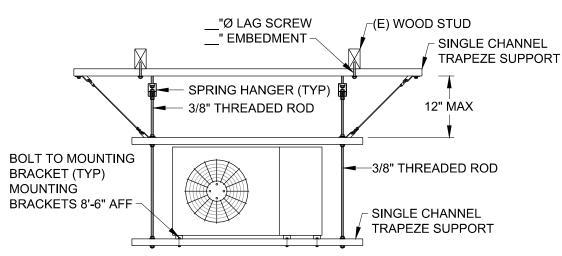
ALL SIDES OF

FIRE/SMOKE DAMPER IN SUPPLY DUCT WILL CLOSE UPON LOSS OF POWER AND/OR SMOKE DETECTION SIGNAL FROM AIR DUCT SMOKE DETECTOR LOCATED IN THE SUPPLY DUCT OF EACH MECHANICAL UNIT. FIRE/SMOKE DAMPERS IN CEILING RETURN AIR PLENUM WALLS SHALL CLOSE WHEN RESPECTIVE AREA SMOKE DETECTOR IS ACTIVATED. INTERLOCK WILL ALSO SHUT DOWN MECHANICAL UNITS. INTERFACE WITH SUPPLY FAN PRESSURE OR FLOW SWITCH TO CLOSE DAMPERS WHEN UNIT IS NOT IN OPERATION. WHEN POWER IS RESTORED

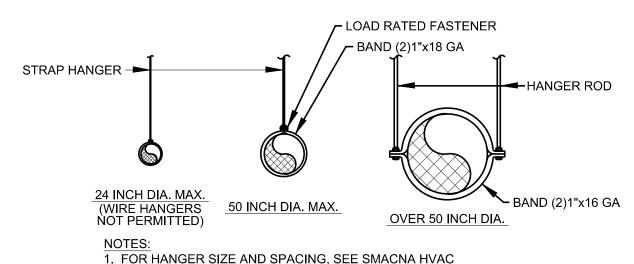
DAMPER WILL AUTOMATICALLY RE-OPEN.

- DAMPER WILL CLOSE IF TEMPERATURE EXCEED 165°F (TEMPERATURE RATING OF THERMAL DISK). THE DAMPER WILL NOT RE-OPEN UNTIL THE THERMAL DISC HEAT SENSOR IS RESET. THE THERMAL RESET BUTTON ALLOWS THE DAMPER TO BE RESET FROM OUTSIDE THE SLEEVE.
- THE SMOKE DAMPER RESPONSE TIMES SHALL MEET THE REQUIREMENTS OFCBC SECTION
- WHERE SMOKE DETECTORS DEPENDENT UPON A MINIMAL AIR VELOCITY TO OPERATE ARE INSTALLED IN
- DUCT FOR THE ACTUATION OF THE SMOKE DAMPER, THE SMOKE DAMPERS SHALL BE CONNECTED SUCH THAT WHEN THERE IS NO AIR MOVEMENT THROUGH THE DUCT, THE SMOKE DAMPER SHALL CLOSE.
- SMOKE DETECTORS, ESPECIALLY THE SAMPLING TUBE TYPE, ARE DEPENDENT UPON AIR FLOW TO MOVE SMOKE INTO THE DETECTORS' SAMPLING CHAMBER. WHEN AIR HANDLING UNITS ARE SHUT DOWN IT IS IMPORTANT THAT ALL SMOKE DAMPERS IN THE DUCT SYSTEM SERVED BY THAT AIR HANDLER, CLOSE. THIS WILL ENSURE THE SMOKE TIGHT INTEGRITY OF THE FIRE AD SMOKE BARRIER SEPARATIONS AT THE DUCT PENETRATION IS MAINTAINED.





BLOWER COIL/FAN MOUNTING DETAIL



- MINIMUM HANGER SIZES FOR ROUND DUCT TABLE 5-2. 2. FOR UPPER ATTACHMENT TO BUILDING SEE SMACNA
- 3. FOR BRACING AND OTHER SEISMIC REQUIREMENT SEE GUIDELINES MECHANICAL SYSTEMS AND PLUMBING. ALSO REFER TO NATIONAL UNIFORM SEISMIC INSTALLATION.

HVAC FIG. 5-2, FIG. 5-3, AND FIG 5-4, FOR LOWER SUPPORTS



SEE SMACNA HVAC FIG. 5-5.

1. ACTUATOR (LOCATION MAY VARY). - 1/4" (6) MIN. DAMPER MAY BE SUPPLIED WITHOUT OVERLAP ON ALL SIDES OF DAMPER-ACTUATOR INSTALLED. RUSKIN'S UL LISTED FIRE DAMPER ACTUATORS MAY DUCT-INSTALLATION INSTRUCTIONS FOR 3. AUXILLARY OPERATING JACK SHAFT. 8. PFMA OR CONVENTIONAL MOUNTING 9. S-JOINT/DUCT MATE, SLEEVE TO DUCT. 10. SMOKE DETECTOR WITHIN 5' WITHOUT 11 SMOKE/FIRE DAMPER- VERTICAL



- 1. SUPPLY APPROPRIATE ELECTRICAL POWER TO DAMPER. (240VAC OR 120VAC)
- DAMPER BLADES ARE OPEN WHEN POWER IS APPLIED.
- FIRE/SMOKE DAMPER IN SUPPLY DUCT WILL CLOSE UPON LOSS OF POWER AND/OR SMOKE DETECTION SIGNAL FROM AIR DUCT SMOKE DETECTOR LOCATED MINIMAL IN THE SUPPLY DUCT OF EACH MECHANICAL UNIT. FIRE/SMOKE DAMPERS IN CEILING RETURN AIR
- PLENUM WALLS SHALL CLOSE WHEN RESPECTIVE AREA SMOKE DETECTOR IS ACTIVATED. INTERLOCK WILL ALSO SHUT DOWN MECHANICAL UNITS. INTERFACE WITH SUPPLY FAN PRESSURE OR FLOW SWITCH TO CLOSE DAMPERS WHEN UNIT IS NOT IN OPERATION. WHEN POWER IS RESTORED DAMPER WILL AUTOMATICALLY RE-OPEN.

DUCTWORK-

DRAWBAND-

ELASTONIERIC SEALANT

PRE FAB 18GA CURB

WITH 3/4" PLYWOOD

TOP AND 20GA GAL. SHEET METAL CAP-

BUILT UP ROOF

B-LINE SERIES

C6 OR EQUAL

COUNTER FLASHING COLLAR-

LAP (N) ROOFING

PATCH 12" MIN.

ALL AROUND

NO SCALE

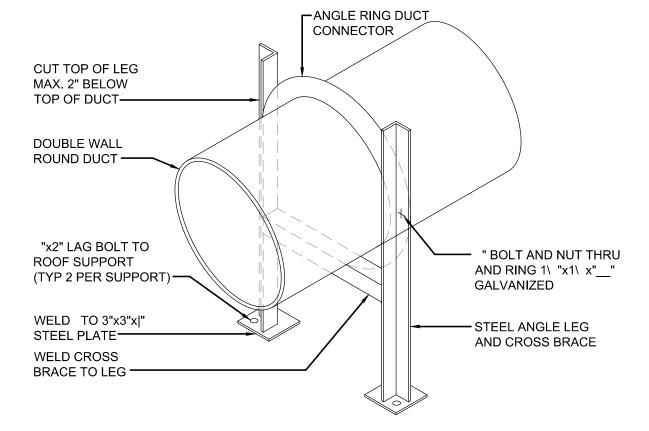
ROOF -

- 4. DAMPER WILL CLOSE IF TEMPERATURE EXCEED 165°F (TEMPERATURE RATING OF THERMAL DISK). THE DAMPER WILL NOT RE-OPEN UNTIL THE THERMAL DISC HEAT SENSOR IS RESET. THE THERMAL RESET BUTTON ALLOWS THE DAMPER TO BE RESET FROM OUTSIDE THE
- THE SMOKE DAMPER RESPONSE TIMES SHALL MEET THE REQUIREMENTS OFCBC SECTION 905.14
- WHERE SMOKE DETECTORS DEPENDENT UPON A
- AIR VELOCITY TO OPERATE ARE INSTALLED IN DUCT FOR THE ACTUATION OF THE SMOKE DAMPER, THE SMOKE DAMPERS SHALL BE CONNECTED SUCH THAT WHERE THERE IS NO AIR MOVEMENT THROUGH THE DUCT, THE SMOKE DAMPER SHALL CLOSE.
- SMOKE DETECTORS, ESPECIALLY THE SAMPLING TUBE TYPE, ARE DEPENDENT UPON AIR FLOW TO MOVE SMOKE INTO THE DETECTORS' SAMPLING CHAMBER. WHEN AIR HANDLING UNITS ARE SHUT DOWN IT IS IMPORTANT THAT ALL SMOKE DAMPERS IN THE DUCT SYSTEM SERVED BY THAT AIR HANDLER, CLOSE. THIS WILL ENSURE THE SMOKE TIGHT INTEGRITY OF THE FIRE AD SMOKE BARRIER SEPARATIONS AT THE DUCT PENETRATION IS MAINTAINED.

-USE B-LINE CHANNEL

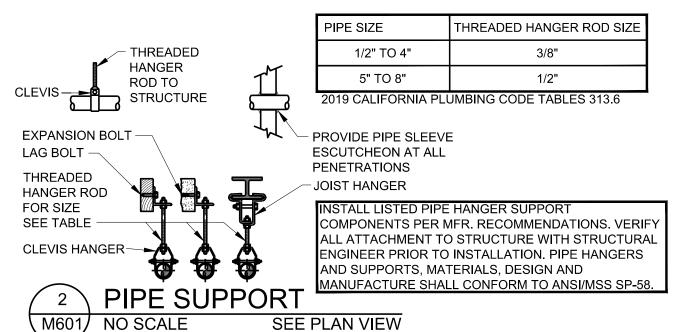
OR EQUAL

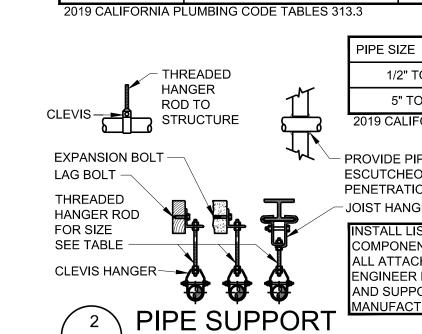
AND CLAMPING SYSTEM

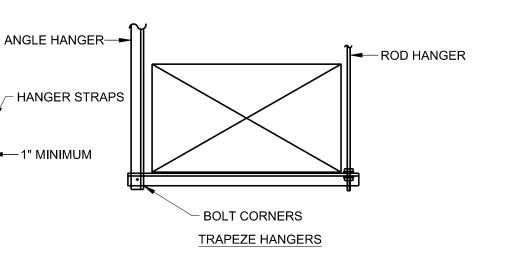




HANGERS AND PIPING SUPPORTS SIZE OF PIPE (INCH) | SPACING OF SUPPORTS (FEET) TYPE OF JOINT COPPER TUBE & PIPE 1-1/2" & SMALLER EACH FLOOR, NOT TO SOLDERED OR 2" AND LARGER EXCEED 10' BRAZED 2019 CALIFORNIA PLUMBING CODE TABLES 313.3

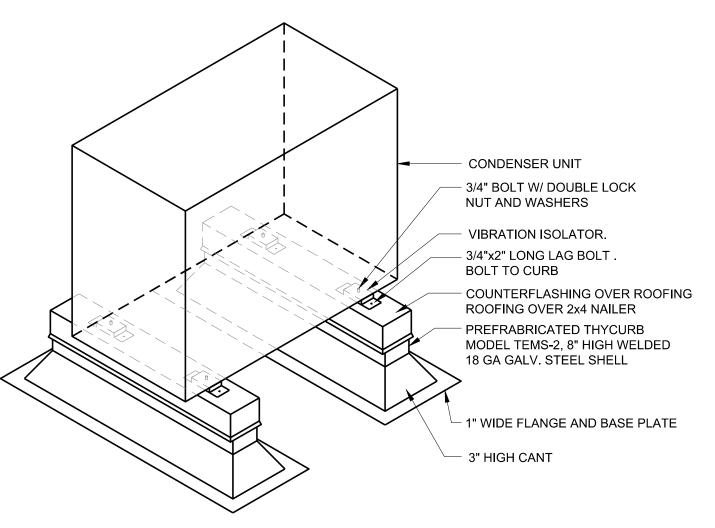




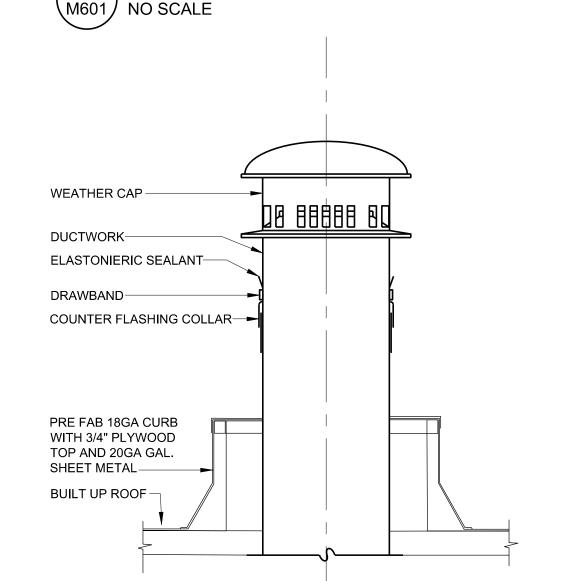


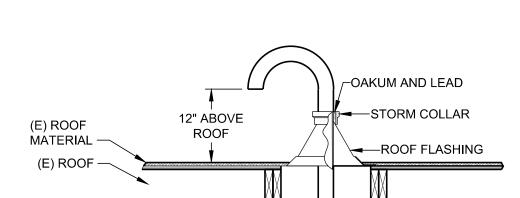
- ----- 60" MAX.------HANGER STRAPS SCREWS-STRAP HANGERS
- 1. FOR HANGERS SIZE AND SPACING, SEE SMACNA HVAC RECTANGULAR DUCT HANGERS MINIMUM SIZE TABLE 5-1.
- 2. FOR UPPER ATTACHMENT TO BUILDING, SEE SMACNA HVAC FIG. 5-2, FIG. 5-3, AND FIG. 5-4 WITH SPECIFIC BUILDING STRUCTURAL ENGINEER APPROVAL. FOR LOWER HANGER ATTACHMENTS, SEE SMACNA HVAC FIG. 5-5.
- 3. FOR BRACING AND OTHER SEISMIC REQUIREMENTS, SEE GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS & PLUMBING PIPING SYSTEMS PUBLISHED BY SMACNA AND PPIC AS APPROVED BY OFICE OF STATE ARCHITECT 10/32/82, OSHPD PRE-APPROVED R0010. ALSO REFER TO NATIONAL UNIFORM SEISMIC INSTALLATION GUIDELINES (NUSIG) 1991 AS APPROVED BY OFFICE OF THE CALIFORNIA STATE ARCHITECT, OSHPD PRE- APPROVED R0215.

RECTANGULAR DUCT SUPPORTS M601/ NO SCALE



ROOFTOP EQUIPMENT SUPPORT DETAIL

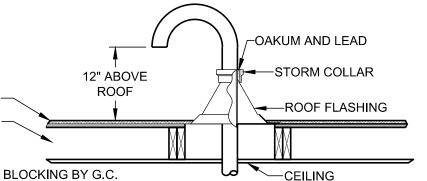




ROOF JACK/ CAP DETAIL



NO SCALE



ROOF SUPPORT FOR PIPING NO SCALE

DUCT THRU ROOF DETAIL

M601

List Engineering

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217 ARLINGTON AVE.

KENSINGTON, CA, 94707

KENSINGTON FIRE

PROTECTION DISTRICT

KENSINGTON, CA 94707

CONTACT: BILL HANSELL

930 COLE STREET STE 101

SAN FRANCISCO, CA. 94117

1390 EL CAMINO REAL STE 100

1646 N. CALIFORNIA BLVD STE 400

CONTACT: KAREN MAR

SAN CARLOS, CA 94070

CONTACT: MATT FRANTZ

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AUDIO/VISUAL: SMITH FAUSE MCDONALD INC.

351 8TH STREET

T: (415) 255-9140

T: (415) 826-9626

DESCRIPTION

SSUED FOR BUILDING PERMIT

JOB NO.

DESCRIPTION

MECHANICAL DETAILS

DATE

04-01-22

ESTIMATOR: MICROESTIMATION INC.

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T. (415) 522-0600

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BKF ENGINEERS

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STRUCTURAL: ZFA STRUCTURAL ENGINEERS

ARCHITECT: MARJANG ARCHITECTURE

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Mechanical Consultants

Job No. 21025.00

STAMP

PROJECT ADDRESS

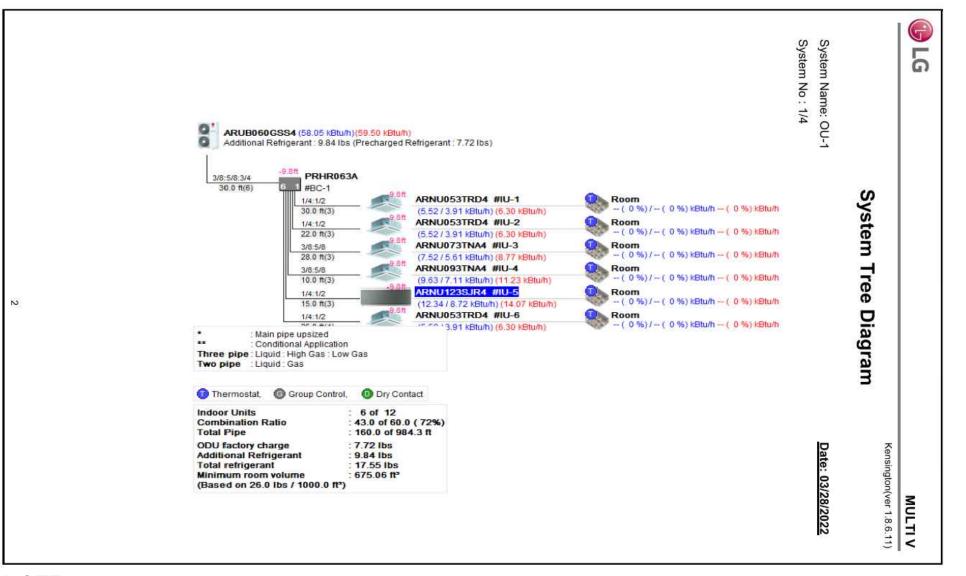
PROJECT TEAM

CLIENT:

CIVIL:

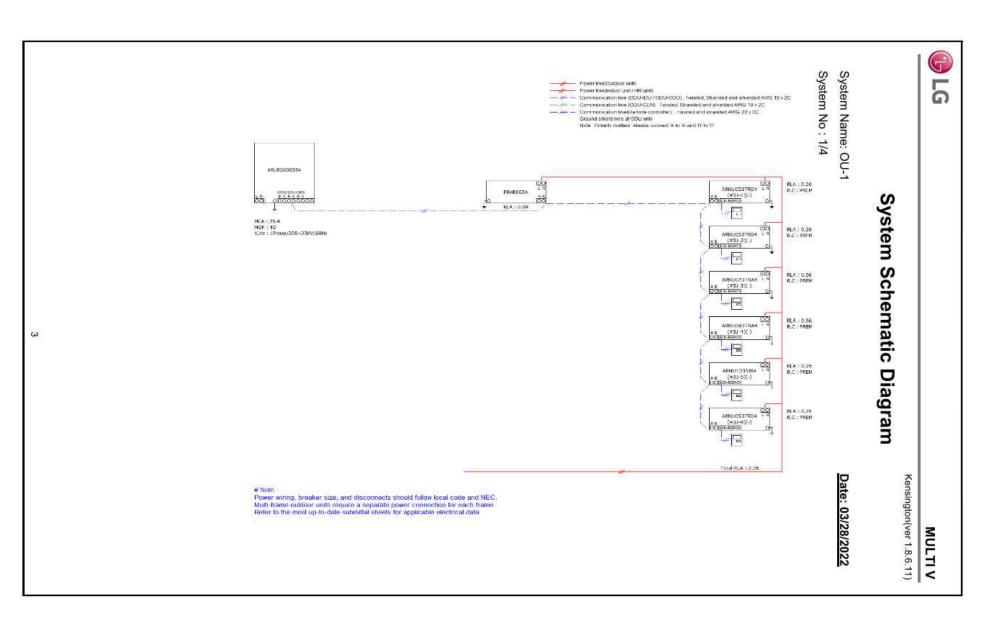
MEP:

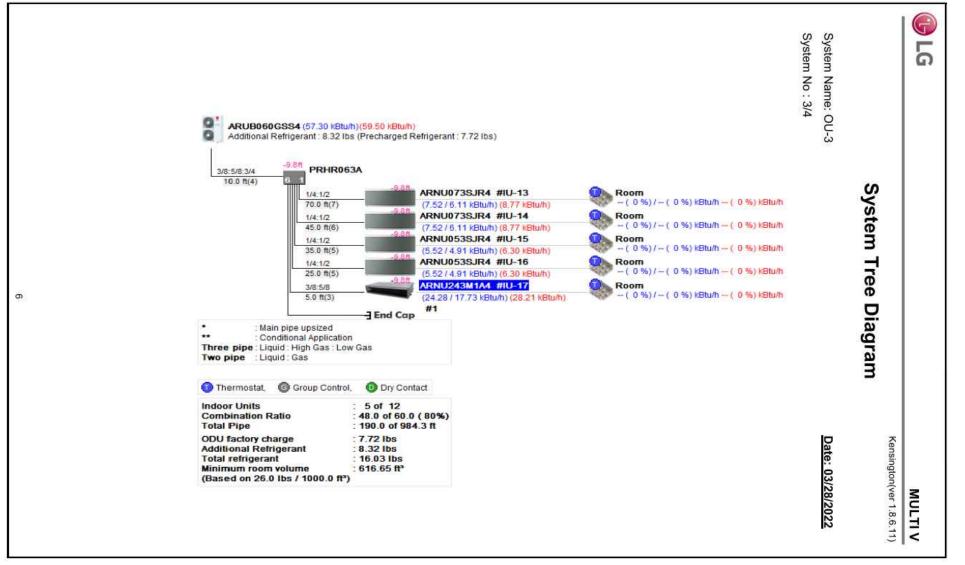
GEOTECH:



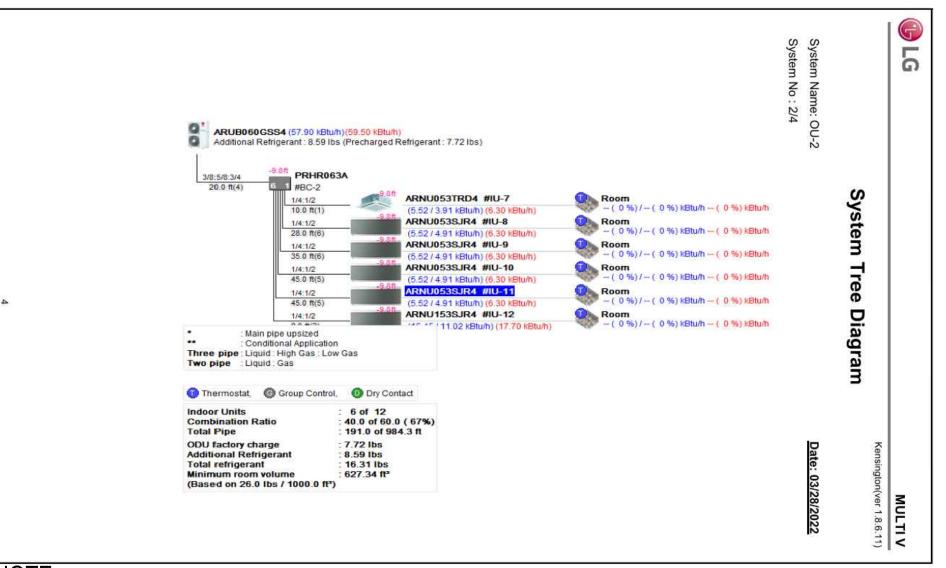
LG ARU80606554 ARNIOSSTRO1 LN RLC: PREM PRHROGRA A AMBINISTINA AS (1920) # Note: Power wring, breaker size, and disconnects should follow local code and NEC. Multi-trame outdoor units require a separate power connection for each frame. Refer to the most up-to-date submittal sheets for applicable electrical data.

- 1. CONTRACTOR TO FIELD VERIFY REFRIGERANT PIPING LENGTH AND UPDATE VRF SOFTWARE.
- 2. CONTRACTOR TO VERIFY TOTAL REFRIGERANT CHARGE IN COMPLIANCE WITH CMC 1104.2





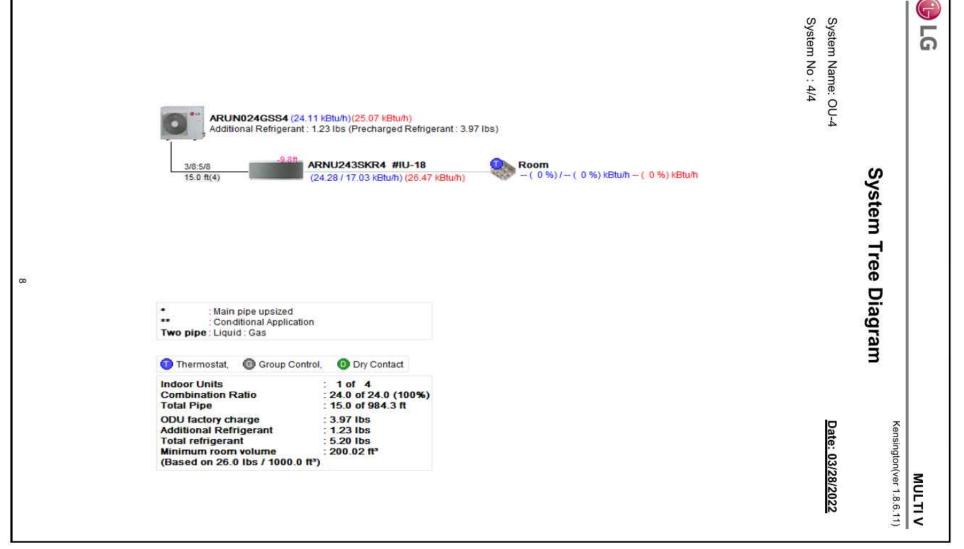
- 1. CONTRACTOR TO FILED VERIFY REFRIGERANT PIPING LENGTH AND UPDATE VRF SOFTWARE.
- 2. CONTRACTOR TO VERIFY TOTAL REFRIGERANT CHARGE IN COMPLIANCE WITH CMC 1104.2



1. CONTRACTOR TO FIELD VERIFY REFRIGERANT PIPING LENGTH AND UPDATE VRF SOFTWARE.

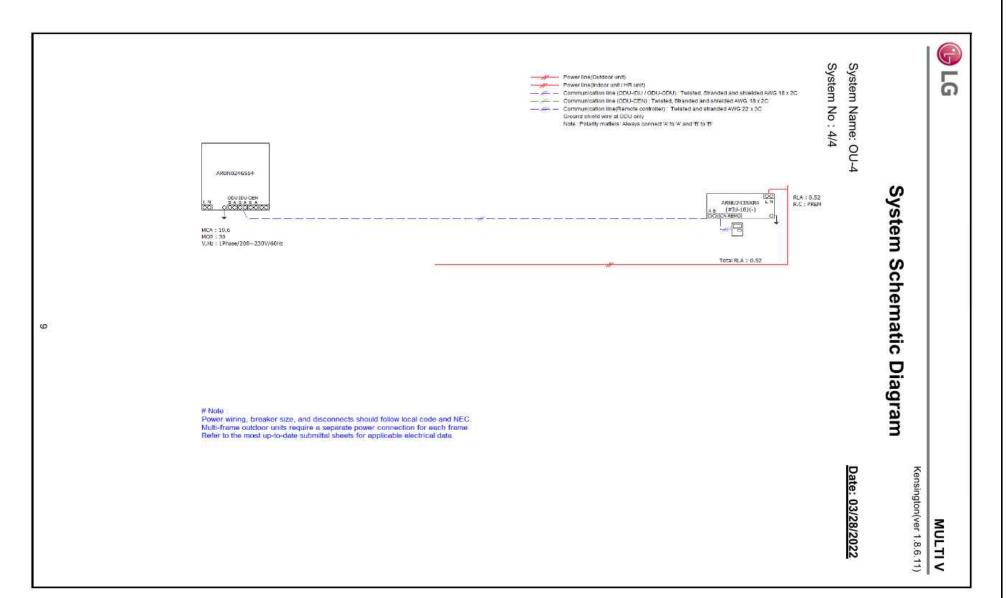
2. CONTRACTOR TO VERIFY TOTAL REFRIGERANT CHARGE IN COMPLIANCE WITH CMC 1104.2

FG Provertina(courage unit) JFR unit) Power line(color unit JFR unit) Power line(color unit JFR unit) Communication line (colu-CDI) Touristed, Stranded and shielded AWG 16 x 2C Communication line (colu-CDI) Twisted, Stranded and shielded AWG 16 x 2C Communication line(Remote controller): Twisted and stranded AWG 22 x 3C. Ground shield wire at ODU only Note: Polarity matters: Always connect 'A' to 'A' and 'B' to 'B' ARUBU60GSS4 ARRIUG73STR4 L'N AS (#10-14)(-) COI CABRO ARRIUG3SSTR4 L'N ARRIUG3SSTR4 L'N ARRIUG3SSTR4 L'N ARRIUG3SSTR4 L'N ARRIUG3STR4 L'N #2 ARNIZAJMI AA LA a.g. (#10-27)(-) CXECNAMINO # Note : Power wiring, breaker size, and disconnects should follow local code and NEC. Multi-frame outdoor units require a separate power connection for each frame. Refer to the most up-to-date submittal sheets for applicable electrical data.

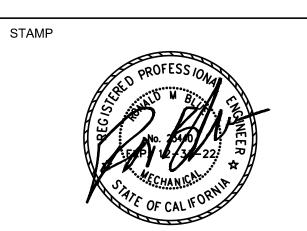


NOTE:

- 1. CONTRACTOR TO FIELD VERIFY REFRIGERANT PIPING LENGTH AND UPDATE VRF SOFTWARE.
- 2. CONTRACTOR TO VERIFY TOTAL REFRIGERANT CHARGE IN COMPLIANCE WITH CMC 1104.2



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T: (415) 255-9140 ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110

T: (415) 826-9626

CONTACT: HENRY TOORYANI

NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	04-01-22
JOB N	NO.	

DESCRIPTION

MECHANICAL SYSTEM SCHEMATIC DIAGRAM

M602

WATER FIXTURE UN	IT CALCULAT	ΓΙΟΝ (SF	U) - NEW	
QTY. DESCRIPTION	FU/FIXTURE	DCW FU	DHW FU	REMARKS
3 WATER CLOSET (FV)	*	90	-	SEE CPC TABLE 610.10
3 LAVATORY	1	3	3	
3 HOSE BIBB	2.5/1.0	4.5	0	SEE CPC TABLE 610.3
2 SHOWER	2	4	4	
2 KITCHEN SINK	1.5	3	3	
1 LAUNDRY SINK	1.5	1.5	1.5	
1 DISHWASHER	1.5	1.5	1.5	
1 SERVICE SINK	3	3	3	
2 DRINKING FOUNTAIN	0.5	1	-	
2 CLOTHES WASHER	4	8	8	
3 REFRIGERATOR	0.5	1.5	-	
1 EYEWASH	*	*	*	
1 ICE MAKER	0.5	0.5	-	
	TOTAL:	121.5	24	
DEMAND IN GPM:		73	38	

QTY.	DESCRIPTION	DFU/FIXTURE	TOTAL DFU	REMARKS
3	WATER CLOSET (FV)	4	12	
3	LAVATORY	1	3	
2	SHOWER	2	4	
2	KITCHEN SINK	2	4	
1	LAUNDRY SINK	2	2	
1	DISHWASHER	2	2	
1	SERVICE SINK	3	3	
2	DRINKING FOUNTAIN	0.5	1	
0	HOSE BIBB	1.5	0	
2	CLOTHES WASHER	3	6	
5	FLOOR DRAIN	2	10	
2	FLOOR SINK	2	4	
1	ICE MAKER	0.5	0.5	
		TOTAL:	57.5	

METER ADDRESS:					
MINIMUM SUPPLY PRESSURE:				80	PSI
MAXIMUM FLOW RATE BASED ON FIXTURE UNITS:				73	GPM
ENGTH OF PIPE FROM METER TO FARTHEST FIXTURE:				125	FT
WATER PRESSURE CALCULATION:					
AVAILABLE PRESSURE:				80	PSI
RESIDUAL PRESSURE:				25	PSI
ELEVATION CHANGE:		25	FT	11	PSI
METER LOSS:				10	PSI
BACKFLOW PREVENTOR LOSS:				10	PSI
PRV LOSS:				0	PSI
MAXIMUM AVAILABLE FRICTION LOSS:				24	PSI
(MAX FRICTION) x 100 / (TOTAL LENGTH) =				19.31	PSI/100FT
	(E) WATER SERVICE SIZE:			2"	
	SELECTED PIPE SIZE SUPPORTS UP TO:		<u> </u>	95	GPM

THE ABOVE DOES NOT INCLUDE FIRE PROTECTION OR LANDSCAPE. THE ABOVE CALCULATION BASED ON 2019 CPC APPENDIX A.

MARK	DESCRIPTION	CFH DEMAND	DISTANCE FROM METER	BRANCH PIPE SIZ
WH-1	WATER HEATER	150000	55'	3/4"
GR-1	GRILLE	40000	60'	3/4"
IR-1	INFRARED HEATER	35000	80'	1/2"
IR-2	INFRARED HEATER	35000	70'	1/2"
IR-3	INFRARED HEATER	35000	65'	1/2"
IR-4	INFRARED HEATER	35000	60'	1/2"
IR-5	INFRARED HEATER	35000	50'	1/2"
IR-6	INFRARED HEATER	35000	25'	1/2"
	TOTAL GAS DEMAND:	400000		
	MAX. PIPING LENGTH:	80'		
	GAS SERVICE SIZE TO BUILDING:		1-1/2"	

SYMBOLS & ABBREVIATIONS (PLUMBING)

ABV.CLG. ABOVE CEILING

AFD

AGCO

AVTR

AFCO ACID FLOOR CLEANOUT

ACCESS PANEL

ACID VENT

ABOVE FINISH FLOOR

ACID GRADE CLEANOUT

ACID VENT THRU ROOF

ACID RESISTANT FLOOR DRAIN

BALANCING COCK

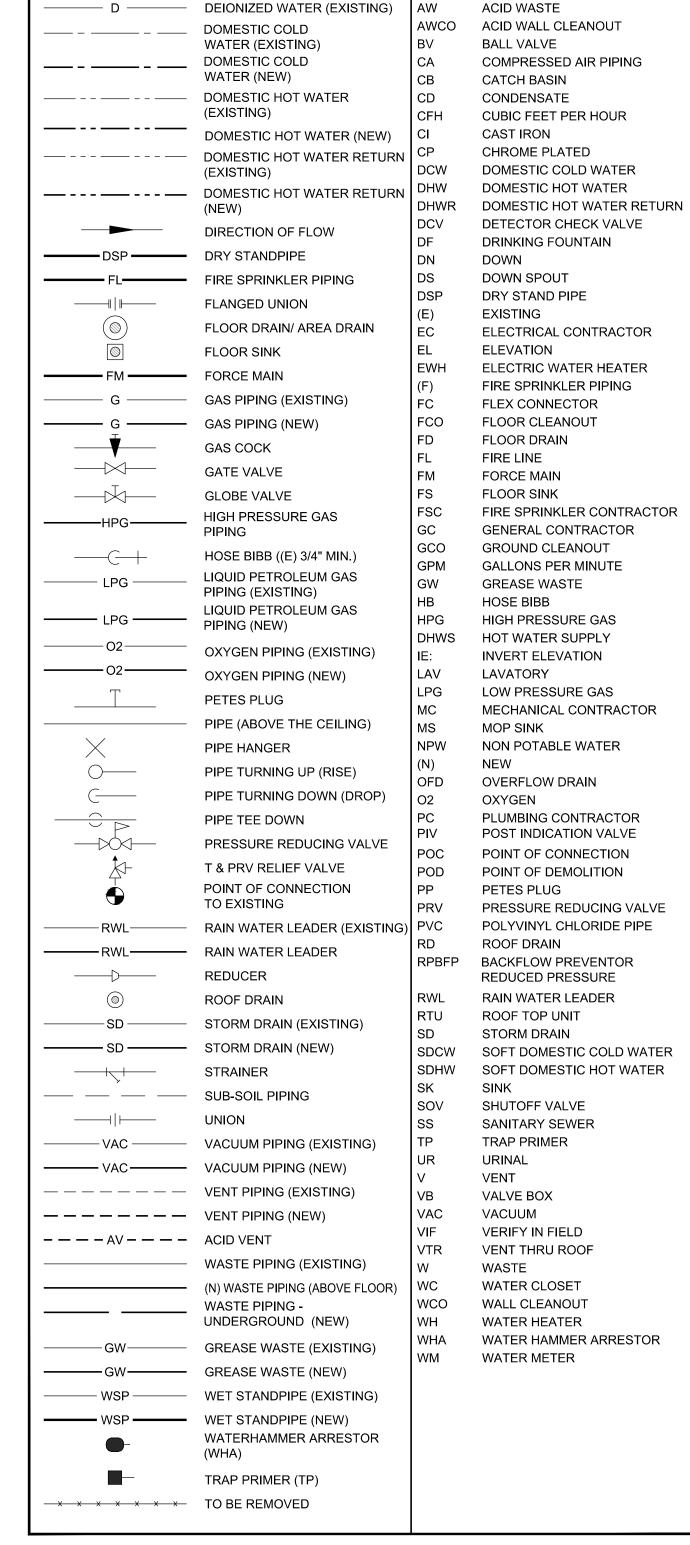
BALL VALVE

CHECK VALVE

COMPRESSED AIR PIPING (E)

CLEANOUT

CAP



GENERAL PLUMBING NOTES

- ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2019 CALIFORNIA PLUMBING CODE AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING THE 2019 CALIFORNIA ENERGY CONSERVATION STANDARDS OF TITLE 24.
- 2. LOCATION OF ALL ROOF OPENINGS AND THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT SUPPORTS ARE DETAILED ON THE STRUCTURAL AND ARCHITECTURAL PLANS.
- 3. PLATFORMS, CURBS AND FLASHING FOR EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS. COORDINATE THE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORT FOR THE FURNISHED EQUIPMENT.
- 4. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER
- 5. ALL EQUIPMENT, PIPING, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE COMPLETELY WEATHERPROOFED.
- 6. PIPES SHALL BE SUPPORTED AND BRACED PER SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS."
- 7. COORDINATE PLUMBING SYSTEMS WITH WORK OF OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE
- 8. EXPOSED PIPING ALLOWED ONLY WHERE INDICATED. PROVIDE ESCUTCHEONS IN FINISHED AREAS.
- 9. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT.

DRAWING INDEX

P001 PLUMBING TITLE SHEET

DETAILS

PLUMBING SCHEDULES

TITLE-24 DOCUMENTS

UNDERGROUND PLUMBING PLAN

PLUMBING WASTE, & VENT ROOF PLAN

PLUMBING WASTE, RWL & VENT GROUND FLOOR PLAN

PLUMBING WASTE, RWL & VENT SECOND FLOOR PLAN

PLUMBING DCW, DHW, & GAS GROUND FLOOR PLAN

PLUMBING DCW, DHW, & GAS SECOND FLOOR PLAN

DWG#

P002

P003

P201

P202

P203

P204

P205

P206

P601

DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.

- 10. PROVIDE ROUGH-IN AND FINAL CONNECTIONS FOR EQUIPMENT PROVIDED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EQUIPMENT.
- 11. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED BY AN APPROVED MATERIAL AS PRESCRIBED IN CBC SECTION 714.
- 12. REFER TO STRUCTURAL DRAWING FOR LOCATIONS OF BEAMS, SHEAR WALLS AND MEMBERS. ALL DRILLING OF STRUCTURAL BEAMS AND MEMBERS TO BE COORDINATED WITH THE STRUCTURAL ENGINEER. ALL HOLES SHALL BE MINIMUM SIZE AND APPROVED BY STRUCTURAL ENGINEER PRIOR TO DRILLING.
- 13. FIELD VERIFY LOCATION AND SIZE OF ALL EXISTING PIPING, DUCTWORK AND EQUIPMENT PRIOR TO FABRICATION OF ANY NEW WORK.
- 14. ALL WATER CLOSETS CONTROLS SHALL BE ON THE WIDE SIDE OF THE FIXTURE AWAY FROM THE
- 15. ALL FAUCET CONTROLS SHALL BE OPERABLE WITH THE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.

DRAWING DESCRIPTION



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STAMP



PROJECT ADDRESS

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PROJECT TEAM

CIVIL:

MEP:

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NO.	DESCRIPTION	DAT
IS	SUED FOR BUILDING PERMIT	04-01-2

DESCRIPTION

PLUMBING TITLE SHEET



P001

CODE	DESCRIPTION	MANUFACTURER	MODEL	ACCESSIBLE	N	MOUNTING TYPE	G	OOSENECK		MIN. ROL	UGH-IN C	ONN (IN)	LOCATION	REMARKS
				1	FLOOR	COUNTER TOP	WALL	SPOUT	W	V	CW I	HW NPW		
WC-1	WATER CLOSET	тото	CT705ULN(G)	ADA	•	_	_	-	4	2	1		RESTROOM, BATH 2	1.28 GPF, FLUSH VALVE
WC-2	WATER CLOSET	тото	CT705ULN(G)	_	•	_	_	_	4	2	1		BATH 1	1.28 GPF, FLUSH VALVE
														1.5 GPM. PRESSURE-BALANCING MIXING VALVE WITH INTEGRAL HANDLE, VOLUME CONTROL, INTEGRAL STOPS, 1.5 GPM FLOW RATE RESTRICTOR, OPTIONAL EF-100 WAND,
SH-1	SHOWER	тото	TS362P	ADA	_	_	•		-	_	1/2	1/2 –	BATH 2	TOTO TBW01020U2 HAND-HELD SHOWER WITH IN-LINE VACUUM BREAKER, TS101W60 60" METAL BRAIDED HOSE, WALL CONNECTION AND TS100GR 30" SLIDE BAR.
														PROVIDE CHROME DRAIN, TOTO TBV01103U 2-WAY DIVERTER, TOTO TBW01013U4 FIXED SHOWER HEAD LOCATED NOT FACING SHOWER ENTRANCE, SEE ARCH.
SH-2	SHOWER	тото	TS362P	_	_	_	•		-	_	1/2	1/2 –	BATH 1	1.5 GPM. PRESSURE-BALANCING MIXING VALVE WITH INTEGRAL HANDLE, VOLUME CONTROL, INTEGRAL STOPS, 1.5 GPM FLOW RATE RESTRICTOR, OPTIONAL EF-100 WAND.
														HAND-HELD SHOWER TOTO TBW01020U2 WITH IN-LINE VACUUM BREAKER, TS101W60 60" METAL BRAIDED HOSE, WALL CONNECTION AND TS100GR 30" SLIDE BAR. PROVIDE CHROME DRAIN.
L-1	LAVATORY	CATALANO	180SVP00	ADA		_	•		2	11/2	1/2	1/2 –	RESTROOM, BATH 2	0.35 GPM. TOTO TL363SDA03 FAUCET, SINGLE HANDLE, SINGLE HOLE INSTALLATION, GRID DRAIN ASSEMBLY, CARRIER SUPPORT.
L - 2	LAVATORY	CATALANO	180SVP00	_	ı	_	•		2	11/2	1/2	1/2 –	BATH 1	0.35 GPM. TOTO TL363SDA03 FAUCET, SINGLE HANDLE, SINGLE HOLE INSTALLATION, GRID DRAIN ASSEMBLY, CARRIER SUPPORT.
SK-1	KITCHEN SINK	BLANCO	QUATRUS MEDIUM SINGLE	ADA		•	-	•	2	11/2	1/2	1/2 –	KITCHEN	1.5 GPM. 32"X18", ADA COMPLIANT 25"X18", 5-1/2" DEEP SINK W/ JUST JPR-701-N SS FAUCET, LK-35LSTRAINER PROVIDE VALVE AND SUPPLY TUBING FOR COFFEE MAKER.
SK-2	KITCHEN SINK	BLANCO	QUATRUS MEDIUM SINGLE	_	-	•	_	•	2	11/2	1/2	1/2 –	KITCHEN	1.5 GPM. 32"X18", 9" DEEP SINK W/ JUST JPR-701-N SS, LK-35L STRAINER PROVIDE INSINKERATOR, BADGER 5XP 3/4HP GARBAGE DISPOSAL.
SK-3	LAUNDRY SINK	ELKAY	SEHS-17X	_	_	_	•	•	2	11/2	1/2	1/2 –	LAUNDRY	1.5 GPM
SK-4	SERVICE SINK	JUST	SB-230-24R	_	•	_	•	•	2	11/2	1/2	1/2 –	DECON	1.0 GPM. CHICAGO FAUCETS: 510-G613L12XKCAB, PRE-RINSE FITTING W/ 8" ADJUSTABLE CENTERS. CHICAGO FAUCETS: 625-ABCP FOOT OPERATED REMOTE VALVE.
CW-1	CLOTHES WASHER	GE	GFW550	ADA	•	_	-	_	2	11/2	1/2	1/2 –	LAUNDRY	PROVIDE WITH WHA
CW-2	EXTRACTOR	MILNOR	T SERIES 30015T6X	_	•	_	-	_	3	2	3/4	3/4 –	ASSEMBLY BAY	PROVIDE WITH WHA
DW-1	DISHWASHER	GE	GDT225	ADA	•	_	-	_	2	_	-	1/2 –	KITCHEN	SEE DETAIL 5/ P601
RF-1	REFRIGERATOR	GE	GFE28	ADA	•	_	-	_	- 1	_	1/2		KITCHEN	
RF-2	REFRIGERATOR	GE	GNE29	_	•	_	-	_	- 1	_	1/2		KITCHEN	
IM-1	ICE MAKER	KITCHENAID	KUID508H	_	•	_	-	_	3/4	_	1/2		KITCHEN	DRAIN WASTE TO FLOOR SINK IN ASSEMBLY BAY WITH 1" AIR GAP.
FD-1	FLOOR DRAIN	WATTS	FD-100-A5-7	_	•	_	-	_	2	1 1/2	-	- 1/2	MULTIPLE	EPOXY COATED, CAST IRON BODY, REVERSIBLE . FLASHING CLAMP WITH PRIMARY AND SECONDARY WEEPHOLES, NO HUB OUTLET.
														WATTS -A5 ADJUSTABLE ROUND STRAINER, 5" (127 MM) DIAMETER NICKEL BRONZE. TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	ZURN	Z1900	_	•	_	_	_	2	1 1/2	_	_ 1/2	MULTIPLE	SANI-FLOOR RECEPTOR. 12X12X6 DEEP CAST IRON BODY AND SQUARE. LIGHT DUTY 3/4 GRATE W/ 1/2"SLOTTED OPENINGS. WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP
														COMPLETE W/ ABS ANTI-SPLASH INTERIOR BOTTOM DOMW STRAINER. NO HUB CONNECTION. TRAP PRIMER CONNECTION.
EW-1	EYEWASH	GUARDIAN	G1849	_	 _				 _ 		1/2	1/2 –	ASSEMBLY BAY	MOUNT ON SK-4. PROVIDE WITH TEMPERATURE MIXING VALVE.
HB-1	HOSE BIBB	NIBCO	QT54X	<u> </u>	 	_	- -		+ - +		3/4		EXTERIOR	VACUUM BREAKER
DF-1	DRINKING FOUNTAIN	ELKAY	EZH20 LZSTLDDWSSK/LZWSR	<u> </u>	 	_			-	11/2	1/2		LOBBY	0.5 GPM, WALL MOUNTED BARRIER FREE, 14 GAUGE TYPE 304 STAINLESS STEEL DRINKING FOUNTAIN WITH BOTTLE FILLER
RD-1	ROOF DRAIN	JAY R SMITH	DX1010	 	 		-		2	1112	_		ROOF	0.0 OF WIL WALL MIGGINTED BANNENT INCE, 14 GAUGE THE 304 STAINEESS STELL DISMINING FOUNTAIN WITH BOTTLE FILLER
RD-2/OFD-1	ROOF DRAIN OVERFLOW DRAIN	JAY R SMITH	1850	 -	+ -	_	-		3				ROOF	COMBINATION ROOF AND OVERFLOW DRAIN
	TRAP PRIMER			 -	+ •	_			3	_				COMBINATION ROOF AND OVERFLOW DRAIN
TP-1		MIFAB	M-500 W/ DISTRIBUTION UNIT MI-DU	 -	-	_	-		-	-	_		MULTIPLE	PUDIED CONNECT TO CANITADY CEWED
SOI-1	SAND & OIL INTERCEPTOR	STRIEM	OS-100						4	3			DRIVEWAY	BURIED, CONNECT TO SANITARY SEWER.

PIPE MATERIAL SCH	IEDULE					
SYSTEM	LOCATION	SIZE	PIPE	FITTINGS	JOINTS	TEST
SANITARY WASTE	SANITARY WASTE ABOVE GROUND		SERVICE WT. CAST IRON	SERVICE WT. CAST IRON	HUSKY #4000 NO-HUB SS FITING	1
	ABOVE GROUND	2-1/2" & SMALLER	STD WT. GALV. STEEL	SERVICE WT. CAST IRON	HUSKY #4000 NO-HUB SS FITING	1
SANITARY VENT	ABOVE GROUND	3" & LARGER	SERVICE WT. CAST IRON	SERVICE WT. CAST IRON	HUSKY #4000 NO-HUB SS FITING	WATER TO ROOF
	ABOVE GROUND	2-1/2" & SMALLER	STD WT. CAST IRON	SERVICE WT. CAST IRON	HUSKY #4000 NO-HUB SS FITING	WATER TO ROOF
DOMESTIC COLD WATER	ALL	4" & LARGER	TYPE "L" COPPER HARD	CAST SOLDER	95-5 SOLDER	150 PSI WATER
	ALL	3" & SMALLER	TYPE "L" COPPER HARD	WROT SOLDER	95-5 SOLDER	
DOMESTIC HOT WATER &	ABOVE GROUND	ALL	TYPE "L" COPPER HARD	WROT SOLDER	95-5 SOLDER	2
DOMESTIC HOT WATER RETURN						
NATURAL FUEL GAS	ALL	2-1/2" & LARGER	STD. WT. BLACK STEEL	FORGED SEAMLESS WELD	WELDED	PER CODE
	ALL	2" & SMALLER	STD. WT. BLACK STEEL	150 LB. BLACK MALLEABLE	SCREWED	PER CODE

NOTES

- 1. 10' HEAD OF WATER COLUMN ABOVE LOWEST NEW CONNECTION WITH NO LOSS OF WATER FOR TWO HOURS.
- 2. 200 PSI WATER PRESSURE FOR TWO HOURS.

INSULATION SCHEDULE										
SYSTEM	FLUID			PIPE SIZE		INSULATION	COVER ON	FITTING	FITTING	
TYPE	TEMP RANGE	<1"	1 1/4"- 2"	2 1/2"- 4"	5"-6"	6>	TYPE	JACKET	INSULATION	JACKET
	(°F)		INSU	JLATION THICKN	IESS		TYPE	TYPE	TYPE	
HEATING HOT WATER DOMESTIC	105-140	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1	1	2	4
DOMESTIC COLD WATER	N/A	1/2"	1/2"	1/2"	1"	1"	1 OR 6	1	2 OR 6	4
REFRIGERANT SUCTION	N/A			1/2"		3	5	3	3	
EXTERNAL DUCT WRAP	N/A			1 1/2"		2	N/A	N/A	N/A	

THE.

GLASS FIBER WITH PREFORMED PIPE INSULATION WITH STANDARD JACKET.
 GLASS FIBER BLANKET INSULATION WITH VAPOR BARRIER R4.2 MIN.

3. FLEXIBLE ELASTROMETRIC CELLULAR INSULATION (I.E "ARMSTRONG ARNAFLEX")

4. CELLULAD CLASS ECOMED DIDE INICII ATION

4. CELLULAR GLASS FORMED PIPE INSULATION.

5. ALUMINUM JACKET.6. POLYETHYLENE POLYPROPYLENE.

NOTES:

ON BRANCH LINES 10' LONG & CONN. DIRECTLY TO FIXTURE OR TERMINAL UNIT USE 1/2" INSULATION.
 DOMESTIC COLD WATER SHALL NOT BE INSULATED IF AMBIENT TEMPERATURE IS BELOW DEW POINT.
 FOR DOMESTIC HOT WATER 105°F-140°F, AND CHILLED WATER PIPING ON CONDITIONED SPACE 3" AND

SMALLER AND IN A SPACE, USE TYPE 3 INSULATION.

WATER H	EATER SCHEDULE												
CODE	LOCATION	SERVICE	GAS MBH	TANK	GPH @ 100 F		ELECTRICAL		WEIGHT	HEIGHT	PART	MFG	REMARKS
			INPUT	CAPACITY	RISE	AMP	VOLT	PH	(LBS)	(IN)	NO.		
WH-1	STORAGE	DHW	150	100 GAL	178	5	120	1	523	77	BTH-150(A)	AOSMITH	1., 2.
													•

REMARKS:

- 1. 1357 LBS WATER FILLED, 95% THERMAL EFFICIENCY, CONVENTIONAL POWER VENTING (SEE DETAIL 9/P601).
- 2. PROVIDE CONDENSATE NEUTRALIZATION KIT P/N 100289339. CONNECT WH-1 TO NEUTRALIZER W/ PVC PIPE.

F	PUMP SC	HEDULE															
	CODE	LOCATION	SERVICE	GPM	FT. HD.	CONN.	PUMP	MIN	MOTOR DATA			WT	P/N	MFG.	REMARKS		
						SIZE	RPM	% EFF	WATT	RPM	VOLT	PH	HZ	LBS			
	CP-1	ADJACENT TO WATER HEATER	DHWR	1.4	3	1/2"	-	-	44	3725	120	1	60	2	006E3	TACO	1., 2.

NOTES:

- 1. COMPOSITE MATERIAL. PROVIDE DIELECTRIC CONNECTIONS IF CONNECTED TO DISSIMILAR METAL.
- 2. SECURE WITH STEEL STRUTS AND CLAMPS.

AUTOMA [*]	TIC GAS SHUT-OFF VALVE SCHEDULE						
CODE	LOCATION	SERVICE	ELECTRICAL		EQUIPMENT	MFG.	REMARKS
			VOLT	AMP			
SOV-1	KITCHEN	GRILL			GAS VALVE ASSEMBLY	ISIMET	1.
FLA-1	KITCHEN (NEXT TO OVEN/RANGE)	GRILLE SOV	120	5	FLAV2	ISIMET	1.
OGC-1	NEXT TO GRILL CONNECTION	GRILL SOV			OUTDOOR GRILL CONTROLLER	ISIMET	1.

NOTES:

1. CONNECT SYSTEM PER MANUFACTURER'S INSTRUCTIONS. CONNECT SYSTEM TO FIRE ALARM SYSTEM.

EXPANSI	ON TANK SCHEDULE			
SYMBOL	DESCRIPTION	CAPACITY (GAL)	MAKE & MODEL	REMARKS
ET-1	EXPANSION TANK	4.7	AMTROL ST-447-C	1,2

NOTE:

- 1. DO NOT PUT SHUT-OFF VALVE BETWEEN WATER INLET AND EXPANSION TANK.
- 2. PROVIDE AND INSTALL UNION ON INLET TO ET-1.

SAND OIL INTERCEPTOR SCHEDULE										
CODE	LOCATION	FLOW RATE	DIMENSION	EL	ECTRIC	AL	WT	P/N	MFG.	REMARKS
		GPM		VOLT	PH	HZ	LBS			
SOI-1	ASSEMBLY BAY APRON	100	68"L x 33"W x 52"H	120	1	60	230	OS-100-SS	STRIEM	1.

1. PROVIDE W/ TRAFFIC RATED ACCESS PANEL COVER.

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NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	04-01-22
JOB N	IO.	

DESCRIPTION

PLUMBING SCHEDULES



P002

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION NRCC-PLB-E CERTIFICATE OF COMPLIANCE NRCC-PLB-E This document is used to demonstrate compliance for nonresidential occupancies with requirements in §110.1, §110.3, §120.3, and §140.5, and with requirements in §141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in §110.1, §110.3, §120.3, §150.0 and §150.1(c)8, and with requirements §150.2 for additions. (Page 1 of 4)

Project Name: Kensington Public Safety Building Report Page: Project Address: 217 Arlington Ave. Date Prepared:

A. GENERAL INFORMATION 01 Project Location (city) 02 Climate Zone Kensington 03 Occupancy Types Within Project (select all that apply): ☐ High-Rise Residential ☐ Hotel/Motel ☑ Nonresidential ☐ Healthcare Facility ☐ State Building ☐ Other (Write In)

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, §150.1(c)8, and §141.0(a), or §141.0(b)2N for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03			
My project consists of (check all that apply):	System Type ^{1,2}	Si	ystem Components		
New system (DHW system being installed for the first time in newly constructed building)		☐ Equipment	☐ Distribution	☐ Controls	
System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls	

¹FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.

Puwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.

STATE OF CALIFORNIA

3/9/2022

Registration Provider: Energysoft

Report Generated: 2022-03-09 14:15:23

Domestic Water Heating System NRCC-PLB-E

NRCC-PLB-E			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Kensington Public Safety Building	Report Page:	(Page 3 of 4)
Project Address:	217 Arlington Ave.	Date Prepared:	3/9/2022

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at ov/title21/2019standards/2019_compliance_documents/Nonresidential_Documents/NPCI/

https://www	ttps://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/									
Yes No		Form/Title	Field In	spector						
163	NO	1 of thy fille	Pass	Fail						
	0	NRCI-PLB-01-E - Must be submitted for all buildings								
0	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/motel central hot water distribution systems to be recognized for compliance.									
0	•	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water distribution systems to be recognized for compliance.								

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to service water heating requirements.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019 compliance documents/Nonresidential Documents/NRCI/

Yes	No	Form/Title	Field Inspector		
162	NO	Formy flue	Pass	Fail	
0	•	NRCV-PLB-21-H High-rise Residential Central Hot Water Distribution HERS Verification			
		NRCV-PLB-22-H High-rise Residential Individual Dwelling Unit Hot Water Distribution HERS Verification		1-21	

Registration Number: Registration Date/Time:

Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2022-03-09 14:15:23 Schema Version: rev 20190401

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-PLB-E Project Name: Kensington Public Safety Building Report Page: (Page 2 of 4) Project Address: 217 Arlington Ave. Date Prepared: 3/9/2022

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with

Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04							
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results							
Table F	Table G	Table H	Compliance Results							
	Yes		COMPLIES							
D. EXCEPTIONAL CONDITIONS										

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. DOMESTIC HOT WATER EQUIPMENT

This section does not apply to this project.

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Number:

This section does not apply to this project. H. DOMESTIC HOT WATER CONTROLS This section does not apply to this project.

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20190401

Registration Number:

Registration Number:

STATE OF CALIFORNIA **Domestic Water Heating System**

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-PLB-E Project Name: Kensington Public Safety Building Report Page: (Page 4 of 4) Project Address: 217 Arlington Ave. Date Prepared: 3/9/202

Registration Date/Time:

Report Version: 2019.1.003

Schema Version: rev 20190401

DCUMENTATION AUTHOR'S DECLARATION STATEMENT							
certify that this Certificate of Compliance documentation is accurate and complete.							
ocumentation Author Name:	Documentation Author Signature:						
ompany: ist Engineering Company	Signature Date: 2022-03-09						
ddress:	CEA/ HERS Certification Identification (if applicable):						
ty/State/Zip:	Phone:						

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Compliance is true and correct.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirement of Title 24. Part 1 and Part 6 of the California Code of Regulations
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Schema Version: rev 20190401

I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. onsible Designer Name: Ron Blue Responsible Designer Signature:

List Engineering Company 2022-03-09 Address: 2 Harris Ct. Suite A7, City/State/Zip: Monterey, Ca 93940 Phone: 831-373-4390

> Registration Date/Time: Registration Provider: Energysoft Report Version: 2019.1.003 Report Generated: 2022-03-09 14:15:23

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PROJECT TEAM

Registration Provider: Energysoft

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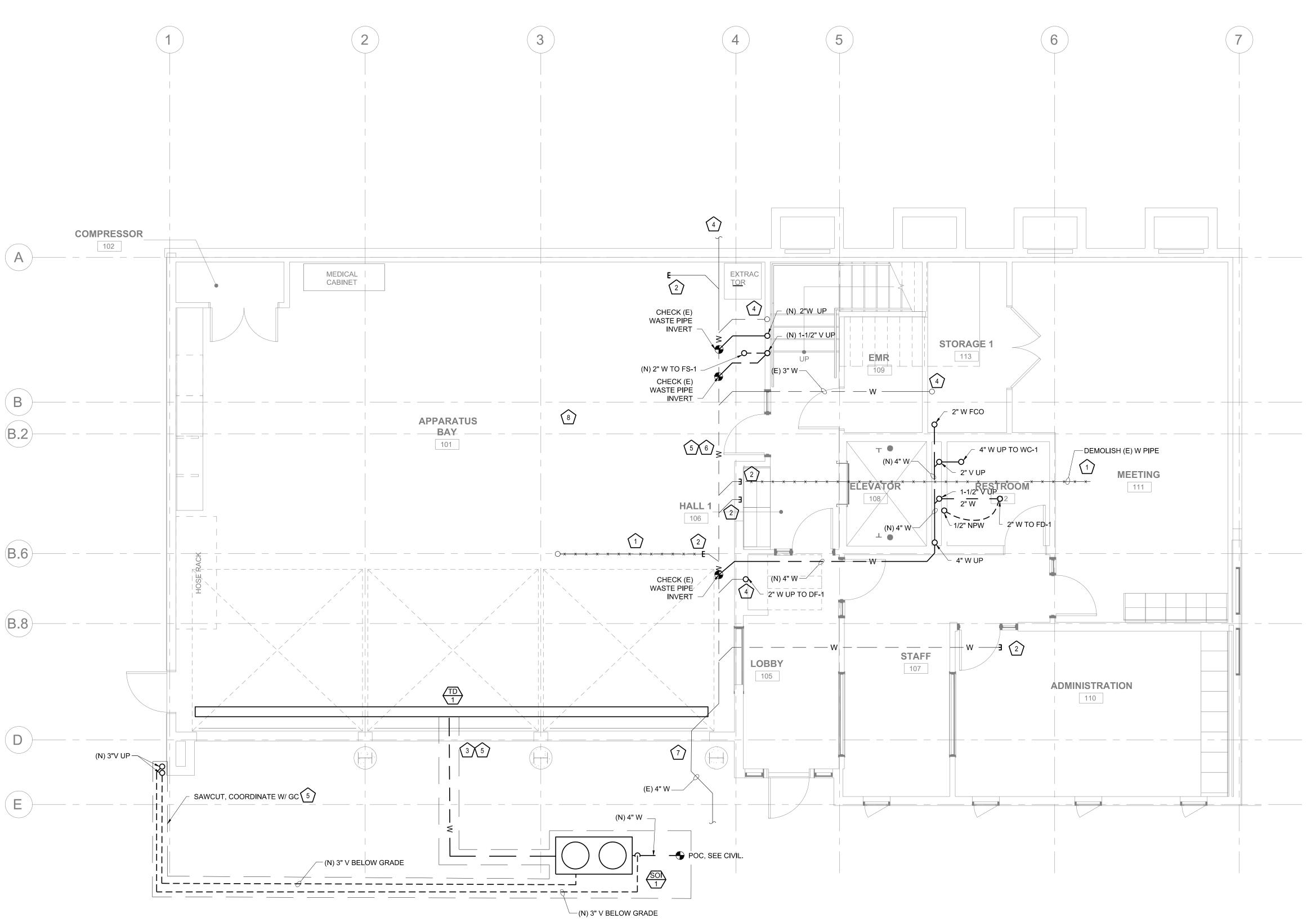
ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	04-01-22
JOB	NO.	

DESCRIPTION

TITLE 24 DOCUMENTS





1 UNDERGROUND PLUMBING PLAN
P201 SCALE:1/4"=1'-0"

- 1. CONTRACTOR TO VERIFY (E) WASTE BELOW FLOOR PRIOR TO DEMOLITION.
- 2. PROVIDE (N) CAP TO UNUSED PORTION OF PIPE.
- 3. PIPING TO GO UNDER STRUCTURAL FOOTING. SEE STRUCTURAL.
- 4. (E) PIPING TO REMAIN.
- 5. CONTRACTOR TO PROVIDE UNDERGROUND SURVEY OF PIPE ROUTE PRIOR TO SAWCUT AND EXCAVATION. RESTORE PAVEMENT TO MATCH ADJACENT.
- 6. PROTECT (E) PIPING TO REMAIN DURING FOUNDATION UPGRADE.
- 7. VIF (E) WASTE PIPE ROUTING. PROVIDE FCO PER CODE.
- 8. PROTECT (E) STORM WATER DRAINAGE SYSTEM DURING DEMOLITION. VIF LOCATION OF (E) SYSTEM.

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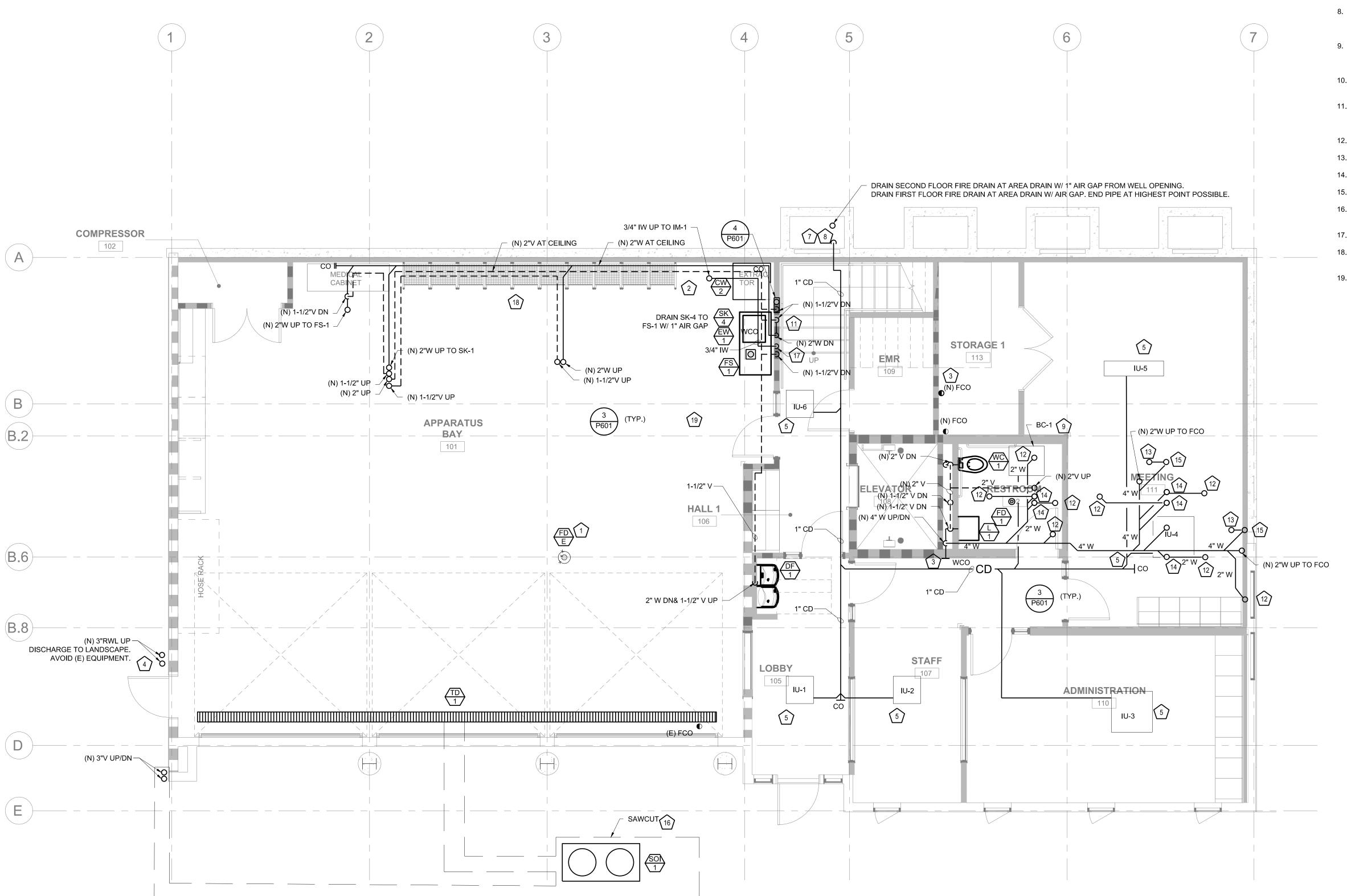
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DESCRIPTION SSUED FOR BUILDING PERMIT JOB NO.

DESCRIPTION

UNDERGROUND PLUMBING





1 GROUND FLOOR PLAN
P202 SCALE:1/4"=1'-0"



- 1. REMOVE (E) FD COMPLETE..
- 2. REMOVE (E) FIXTURES AND PIPING COMPLETE ABOVE FLOOR.
- 3. PROVIDE (N) WCO.
- 4. PROVIDE SPLASH BLOCK.
- 5. PROVIDE CONDENSATE DRAIN. CONTRACTOR TO COORDINATE PIPE ROUTING WITH THE ARCHITECT. INSTALL CD PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- 6. NOT USED.
- 7. TERMINATE 1" CD TO AREA DRAIN AND PROVIDE AIR GAP. END PIPE AT HIGHEST POINT POSSIBLE.
- 8. CLEAN UP WELL. EXAMINE CONDITION OF (E) AREA DRAIN. REFURBISH IF NECESSARY. PROVIDE WATER DETECTION ALARM AT 1' ABOVE AREA DRAIN.
- 9. PROVIDE DRAIN PAN AND CONNECT 3/4" CD TO MAIN AND PROVIDE WATER DETECTION ALARM THAT SHUT-OFF UNIT WHEN ACTIVATED.
- 10. PIPING TO GO UNDER STRUCTURAL FOOTING. SEE STRUCTURAL.
- 11. CONNECT EXTRACTOR STANDPIPE WASTE TO (N) 2"W DN ALONG WALL ABOVE GRADE. AVOID TRENCHING INTO (E) STRUCTURAL FOOTING.
- 12. (N) 2"W UP.
- 13. (N) 4"W UP.
- 14. (N) 1-1/2"V UP.
- 15. (N) 2"V UP.
- 16. CONTRACTOR TO SAWCUT AND REPAIR TO MATCH (E). COORDINATE WITH CIVIL AND ARCHITECT.
- 17. DRAIN 3/4" INDIRECT WASTE TO FS-1 WITH 1" AIR GAP.
- 18. RUN ALL PIPES AT BACK OF ASSEMBLY BAY INSIDE (N) WALL OR INSIDE (E) SOFFIT.
- 19. PROTECT (E) STORM WATER DRAINAGE SYSTEM DURING DEMOLITION. VIF LOCATION OF (E) SYSTEM.

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T: (415) 255-9140 ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26

SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

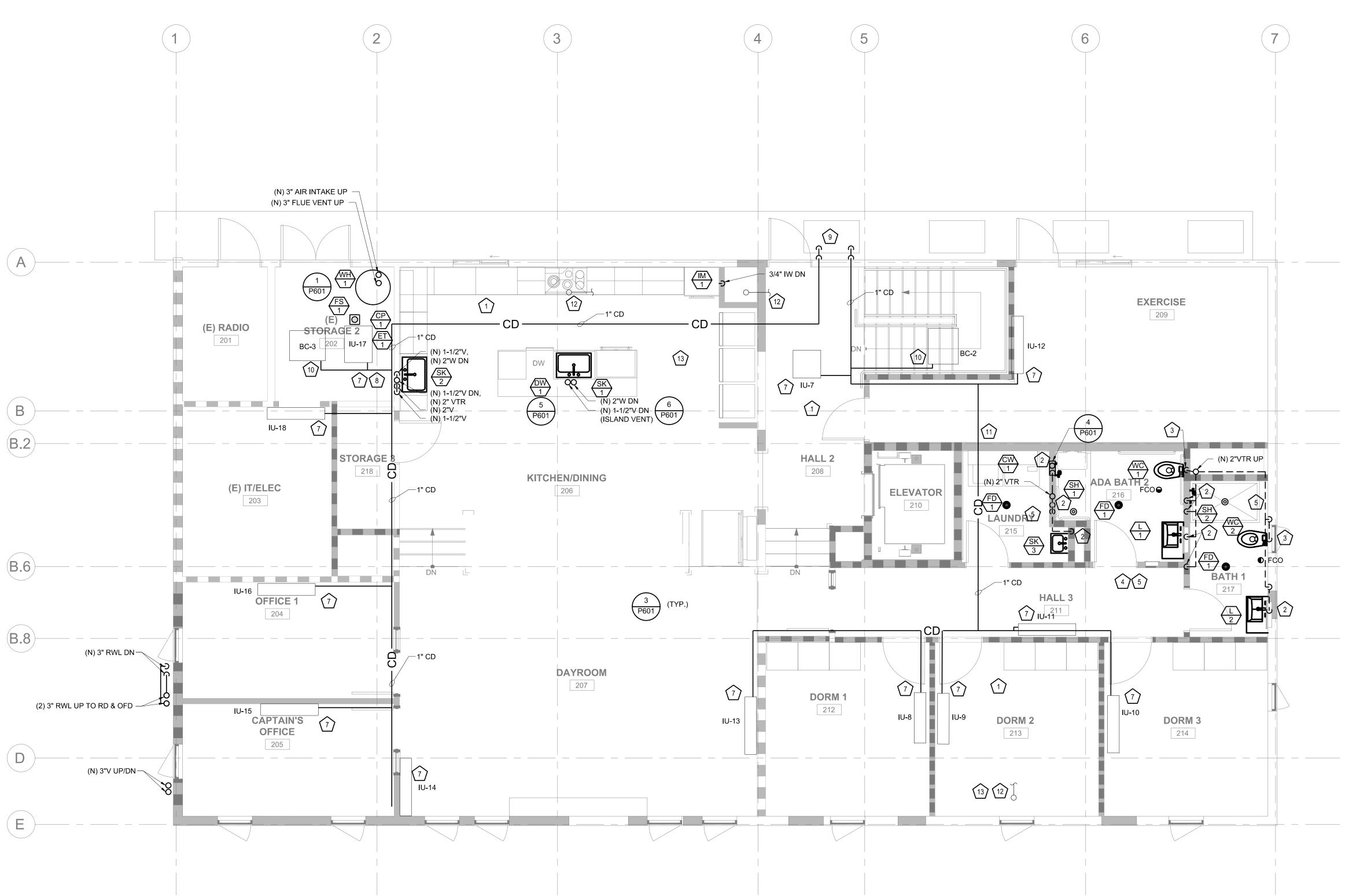
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NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	04-01-22
JOB	NO.	
JOB		

DESCRIPTION

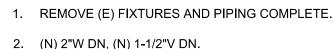
PLUMBING WASTE, RWL & VENT GROUND FLOOR PLAN







1 SECOND FLOOR PLAN
P203 SCALE:1/4"=1'-0"



♦ SHEET NOTES

- 2. (N) 2"W DN, (N) 1-1/2"V DN.
- 3. (N) 4"W DN, (N) 2"V UP.
- 4. ALL WASTE PIPES SERVING BATH 1, BATH 2 AND LAUNDRY RUN IN RAISED FLOOR SPACE.
- 5. CONNECT VENT PIPING AT CEILING.
- 6. NOT USED.
- 7. PROVIDE CONDENSATE DRAIN. CONTRACTOR TO COORDINATE PIPE ROUTING WITH THE ARCHITECT. INSTALL CD PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
- 8. PROVIDE SECONDARY DRAIN PAN AND WATER DETECTION ALARM THAT SHUT-OFF THE UNIT WHEN ACTIVATED.
- 9. TERMINATE 1" CD TO AREA DRAIN WITH MIN. 1" AIR GAP FROM WELL OPENING.
- 10. PROVIDE DRAIN PAN AND CONNECT 3/4" CD TO MAIN AND PROVIDE WATER DETECTION ALARM THAT SHUT-OFF UNIT WHEN
- 11. PENETRATE SHEAR WALL WITHIN THE 12" WIDE PENETRATION WITH REFRIGERANT PIPING.
- 12. VIF LOCATION OF (E) STORMWATER PIPING INSIDE BUILDING. If (E) PIPE PENETRATE SHEAR WALL/ JOIST/ CONFLICTS W/ (N) MECH EQUIPMENT, REROUTE PIPE TO RUN INSIDE NON-SHEAR WALL, AND RECONNECT TO (E) SYSTEM AT LOCATIONS DOWNSTREAM OF ORIGINAL CONNECTION POINT. COOR. W/ STRUCTURAL FOR SHEAR WALL AND JOIST LOCATIONS.
- 13. PROTECT (E) STORM WATER DRAINAGE SYSTEM DURING DEMOLITION. VIF LOCATION OF (E) SYSTEM.



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217 ARLINGTON AVE. KENSINGTON, CA, 94707

PROJECT TEAM

CLIENT:

KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117

CONTACT: KAREN MAR T. (415) 522-0600

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANTZ

T: (650) 394-8869 **BKF ENGINEERS** 1646 N. CALIFORNIA BLVD STE 400

WALNUT CREEK, CA 94596

CONTACT: ERIC SWANSON T: (925) 940-2200 GEOTECH: HALEY ALDRICH

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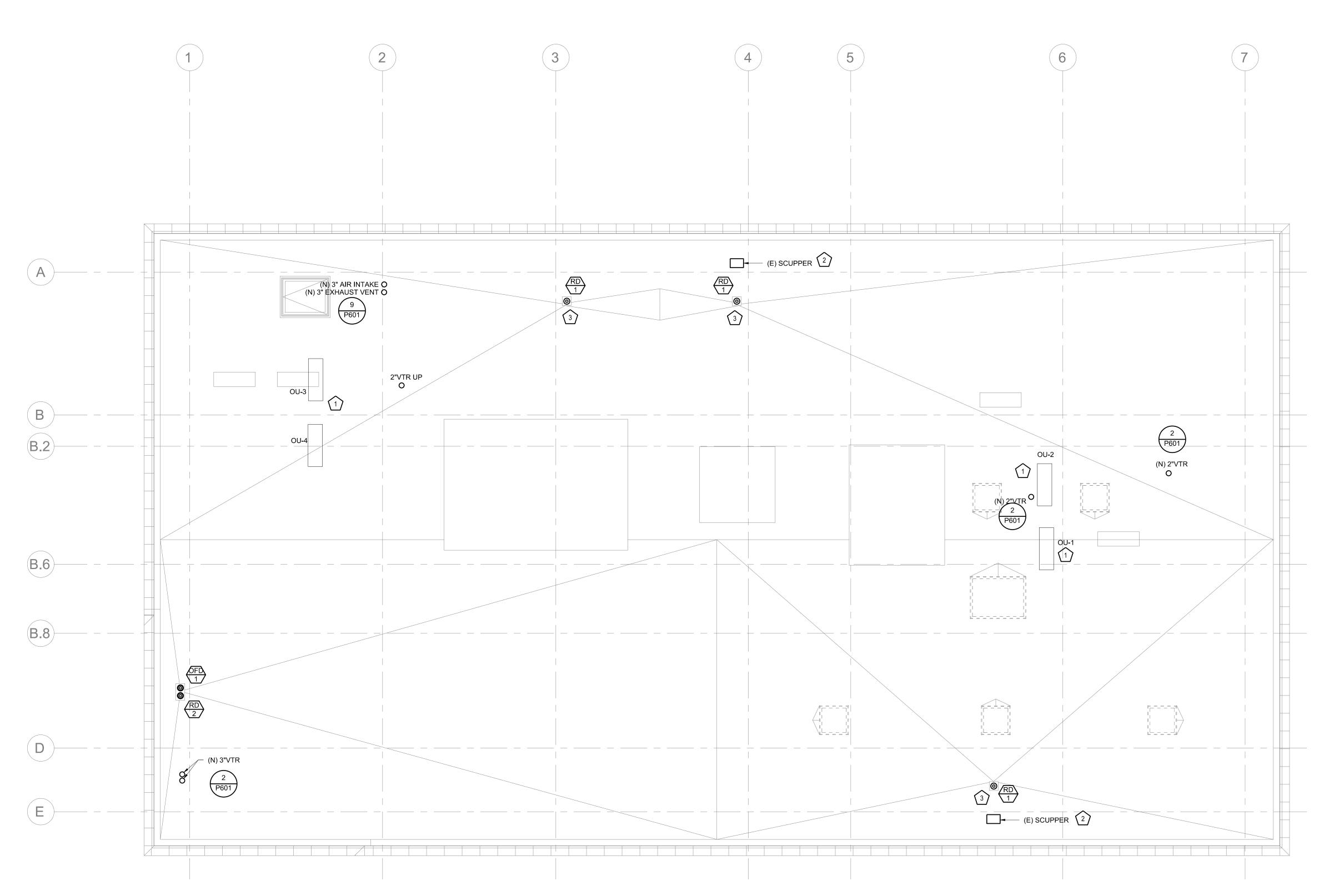
NO.	DESCRIPTION	DATE
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JOB N	NO.	

DESCRIPTION

PLUMBING WASTE, RWL & VENT SECOND FLOOR PLAN



P203







- DISCHARGE CONDENSATE ON ROOF AT SAFE LOCATIONS. ROOF SURFACE SLOPED FOR CONDENSATE TO DRAIN TO ROOF DRAINS.
- 2. PROTECT AND PRESERVE (E) SCUPPERS.
- INSTALL (N) RD-1 AT (E) ROOF DRAIN LOCATIONS. VIF EXACT LOCATIONS. RELOCATE ROOF DRAIN SLIGHTLY IF CONFLICTS W/ (N) MECH EQUIPMENT.
- 4. TOTAL ROOF AREA: 3870 SQFT RAINFALL RATE: 1.5 IN/HR

3/4 ROOF AREA DRAINS TO RD-1 AND (E) RWL INSIDE BUILDING. 3/4 ROOF AREA: 2903 SQFT (E) ROOF AREA: 3320 SQFT

1/4 ROOF AREA DRAINS TO RD-2 AND (N) 3" RWL. 1/4 ROOF AREA: 968 SQFT



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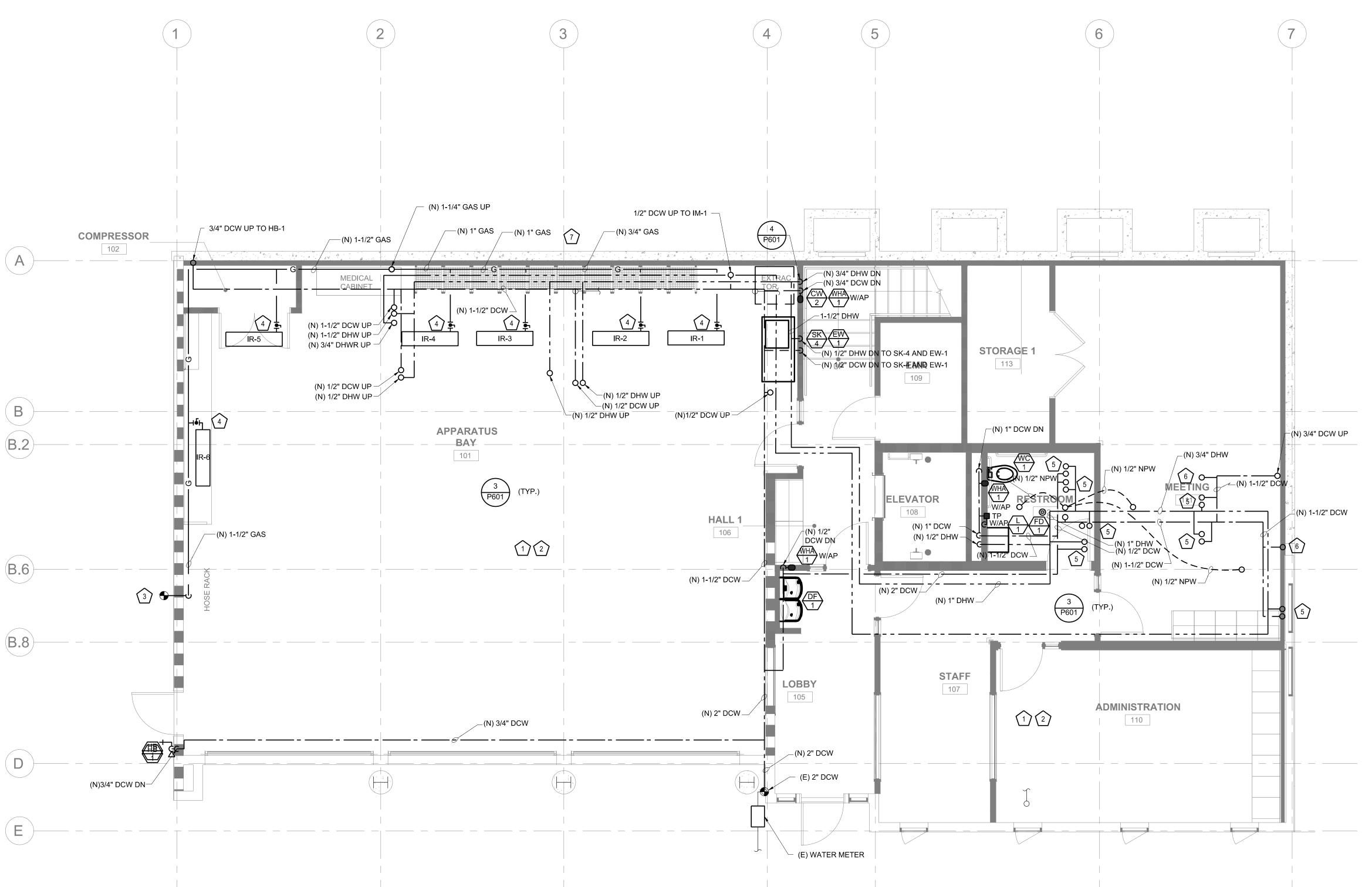
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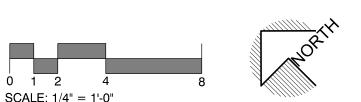
PLUMBING WASTE & VENT ROOF PLAN



P204







- 1. REMOVE (E) FIXTURES AND PIPING COMPLETE ABOVE FLOOR.
- 2. ALL PIPING AT CEILING.
- 3. POC TO (E) GAS METER. PROVIDE (N) 1-1/2" GAS WITH SEISMIC VALVE AND FLEXIBLE CONNECTION. CONTRACTOR TO COORDINATE WITH PG&E.
- CONNECT 1/2" GAS TO IR. PROVIDE SOV, FLEX CONNECTION AND DIRT TRAP.
- 5. (N) 1/2"DCW UP, (N) 1/2"DHW UP
- 6. (N) 1" DCW UP.
- 7. RUN ALL PIPES AT BACK OF ASSEMBLY BAY INSIDE (N) WALL OR INSIDE (E) SOFFIT.



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> CONTACT: HENRY TOORYANI T: (415) 826-9626

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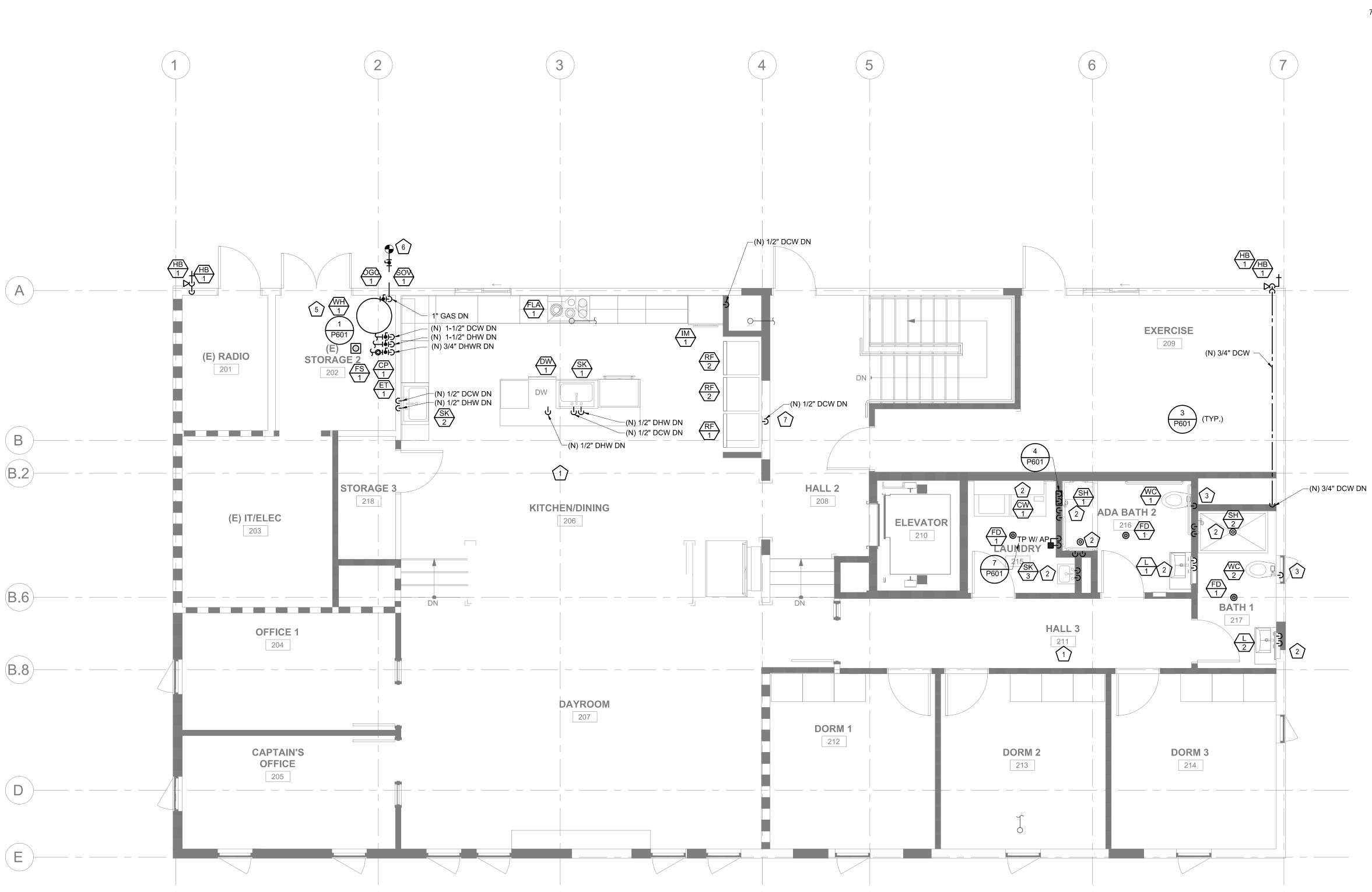
ESTIMATOR: MICROESTIMATION INC.
850 S. VAN NESS AVE, #26
SAN FRANCISCO, CA 94110

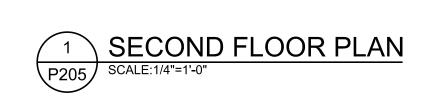
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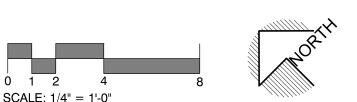
DESCRIPTION

PLUMBING DCW, DHW & GAS GROUND FLOOR PLAN











- 1. REMOVE (E) FIXTURES AND PIPING COMPLETE.
- 2. (N) 1/2"DCW DN, (N) 1/2"DHW DN
- 3. (N) 1" DCW DN
- 4. NOT USED.
- 5. PROVIDE 3/4" GAS TO WH-1 WITH SOV, FLEX CONNECTION, AND DIRT TRAP.
- 6. POC TO (E) GRILL OUTDOOR. PROVIDE AUTOMATIC SOV. SEE SCHEDULE.
- 7. PROVIDE DCW CONNECTION TO EACH RF-1 AND RF-2.



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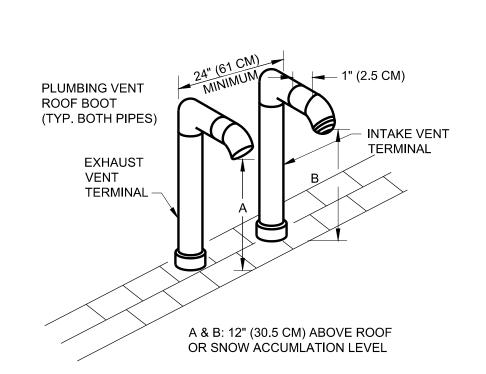
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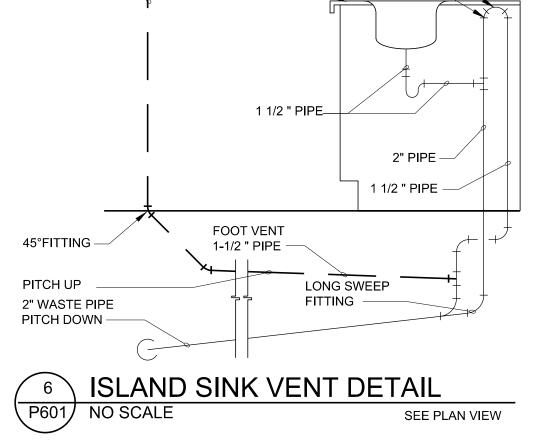
PLUMBING DCW, DHW & GAS SECOND FLOOR PLAN





NO SCALE

VERTICAL VENT TERMINATION



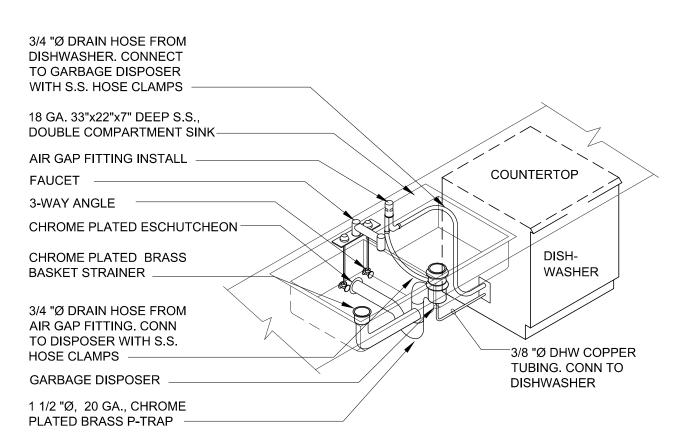
BACKSPLASH

COUNTERTOP

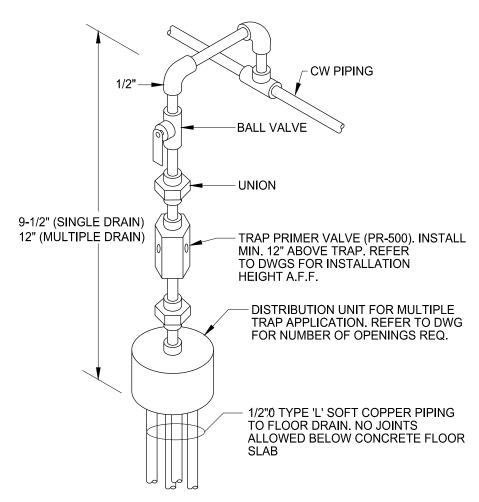
1-1/2" VENT

90°ELBOW -

45°FITTING —



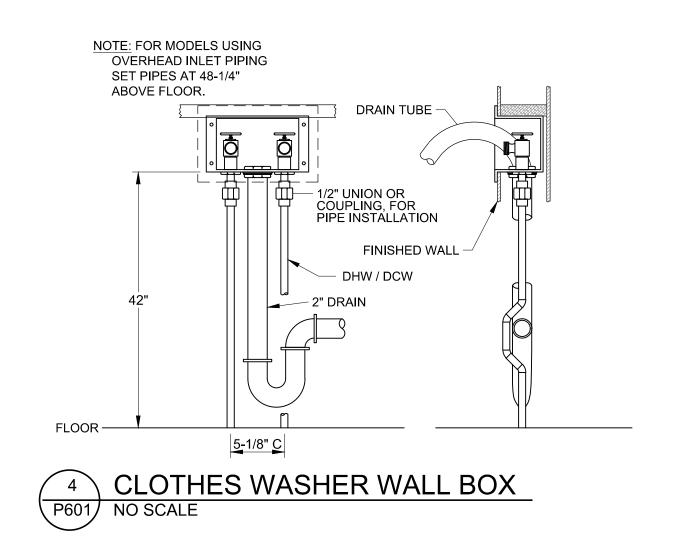


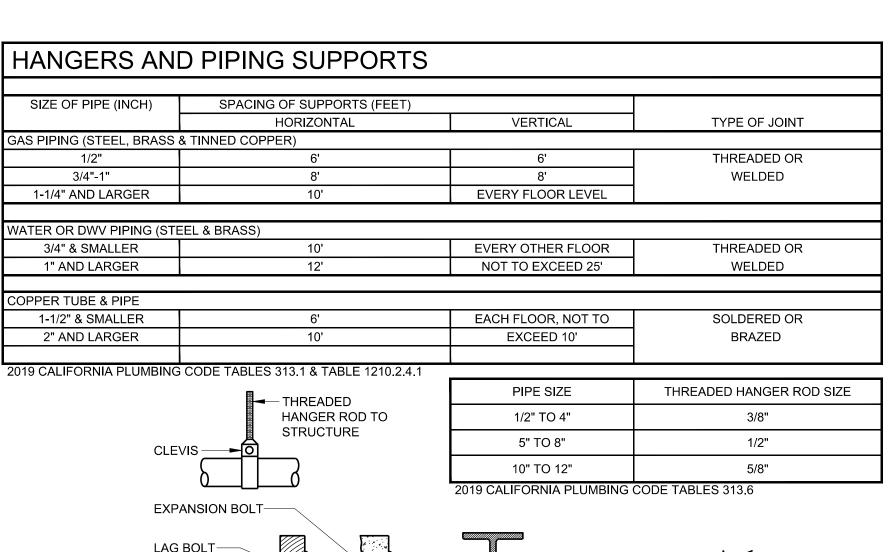


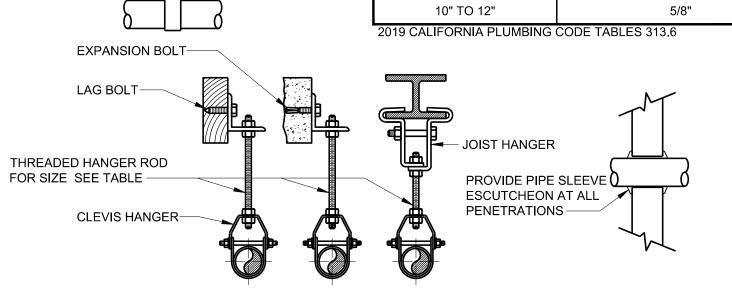


NOT USED

NO SCALE

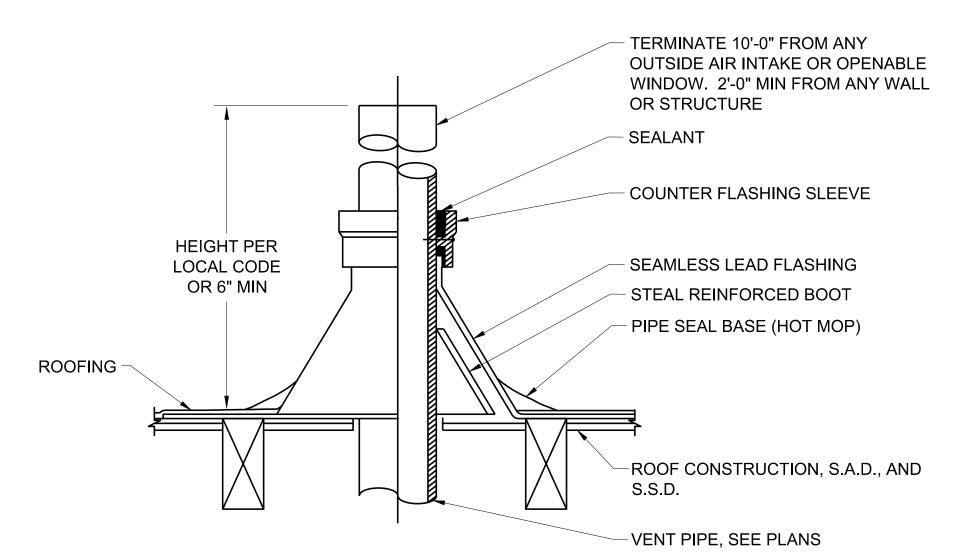




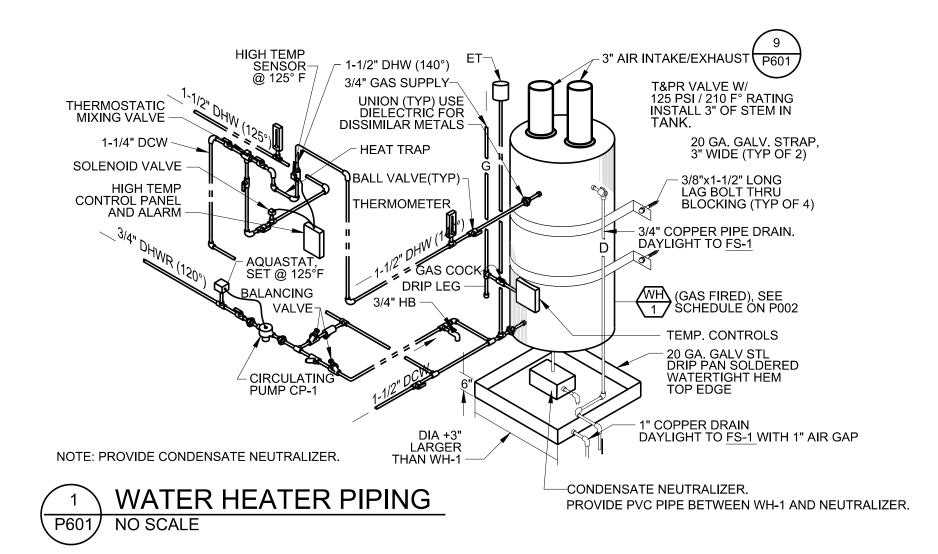


INSTALL LISTED PIPE HANGER SUPPORT COMPONENTS PER MFR. RECOMMENDATIONS. VERIFY ALL ATTACHMENT TO STRUCTURE WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION. PIPE HANGERS AND SUPPORTS, MATERIALS, DESIGN AND MANUFACTURE SHALL CONFORM TO ANSI/MSS SP-58.











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JOB NO.				

DESCRIPTION DETAILS





SYMBOLS & ABBREVIATIONS (FIRE PROTECTION) ALARM BELL ASBESTOS CEMENT AFF ABOVE FINISH FLOOR ΑT AFG ABOVE FINISH GRADE **BUTTERFLY VALVE** BFV BUTTERFLY VALVE CAST IRON CHECK VALVE CLG CEILING DETECTOR CHECK VALVE CONC. CONCRETE -D-DRAIN PIPE CV CHECK VALVE DCV FIRE HYDRANT (2 HOSE OUTLET) DETECTOR CHECK VALVE DOWN FIRE HYDRANT (2 HOSE OUTLET DSP DRY STANDPIPE AND PUMPER CONNECTION **EXISTING** (E) (E) FIRE SPRINKLER PIPING EC ELECTRICAL CONTRACTOR (N) FIRE SPRINKLER PIPING EQB EARTHQUAKE BRACE FDC FIRE DEPARTMENT CONNECTION FIRE SPRINKLER PIPING -FH FIRE HYDRANT UNDERGROUND (UG) FIRE SPRINKLER FIRE SPRINKLER RISER FSC FIRE SPRINKLER CONTRACTOR FLOW DETECTOR SWITCH GPM GALLONS PER MINUTE HOSE VALVE TWO WAY SEISMIC RESTRAINT MECHANICAL JOINT FOUR WAY SEISMIC RESTRAINT \bowtie GATE VALVE NFPA NATIONAL FIRE PROTECTION ASSOCIATION MAIN TAP NOT IN CONTRACT O S AND Y VALVE NTS NOT TO SCALE PIV POST INDICATION VALVE POST INDICATING VALVE OS&Y OUTSIDE SCREW AND YOKE CONNECTION (FREE STANDING) POUNDS PER SQUARE INCH SIAMESE FIRE DEPARTMENT PVC POLYVINYL CHLORIDE CONNECTION (WALL TYPE) REQ'D REQUIRED SIAMESE FIRE DEPARTMENT SHT. MTL. SHEET METAL SQ. FT. SQUARE FEET SPRINKLER HEAD: FLUSH STEEL SPRINKLER HEAD: PENDENT TYP TYPICAL SPRINKLER HEAD: SIDEWALL WITH WET STANDPIPE SPRINKLER HEAD: UPRIGHT VALVE BOX VALVE WITH TAMPER DETECTOR/SWITCH WATER TOWER/TANK ABOVE-**GROUND HORIZONTAL** WATER TOWER/TANK ABOVE-GROUND VERTICAL $-\!\!\!\!/-$ 'U' HOOK WRAP AROUND 'U' HOOK SIDE BEAM BRACKET ROD COACH SCREW ROD

GENERAL FIRE PROTECTION NOTES 1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2019 CALIFORNIA MECHANICAL PLUMBING, BUILDING AND FIRE CODES, NATIONAL FIRE PROTECTION CODES, AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING THE 2019 CALIFORNIA ENERGY CONSERVATION STANDARDS OF TITLE 24. 2 DEEED TO ADCHITECTURAL DRAWINGS FOR DEELECTED CEILING BLANS AND LOCATIONS OF

2.	CONCEALED SPACES, AND OTHER ARCHITECTURAL FEATURES THAT REQUIRE FIRE SPRINKLERS AS PER NFPA #13.
3.	REFER TO ELECTRICAL DRAWINGS FOR TYPE AND LOCATION OF LIGHT FIXTURES.

3. REFER TO ELECTRICAL DRAWINGS FOR TYPE AND LOCATION OF LIGHT FIXTURES.

4. REFER TO THE MECHANICAL DRAWINGS FOR DUCTWORK AND GRILLE LOCATIONS.

- 5. REFER TO STRUCTURAL DRAWING FOR LOCATIONS OF BEAMS, SHEAR WALLS AND MEMBERS. ALL DRILLING OF STRUCTURAL BEAMS AND MEMBERS TO BE COORDINATED WITH THE STRUCTURAL ENGINEER. ALL HOLES SHALL BE MINIMUM SIZE AND APPROVED BY STRUCTURAL ENGINEER PRIOR TO DRILLING.
- 6. PROVIDE HIGH TEMPERATURE HEADS AS REQUIRED BY NFPA #13 AT OR NEAR HEATING EQUIPMENT (I.E., BOILER AND FURNACES, FLUES IN MECHANICAL ROOMS, SKYLIGHTS, ETC.).
- 7. EXPOSED PIPING ALLOWED ONLY IN PARKING GARAGE.
- 8. SPRINKLERS EXPOSED TO WEATHER SHALL BE OF THE WAX COATED OR CORROSION RESISTANT TYPE.
- 9. ESCUTCHEONS IN FINISHED AREAS.
- 10. DESIGN AND INSTALLATION SHALL CONFORM WITH NFPA PAMPHLETS.
- 11. ALL MATERIALS AND DEVICES TO BE UL LISTED.
- 12. SPRINKLER CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CATALOG DATA FOR ALL UL AND FM APPROVED COMPONENTS AND DEVICES TO THE CITY OF KENSINGTON FIRE MARSHAL'S OFFICE FOR APPROVAL AND OBTAIN PERMITS PRIOR TO INSTALLATION.
- 13. SPRINKLER CONTRACTOR SHALL SUBMIT SPRINKLER HEAD LAYOUT ON ARCHITECTURAL REFLECTED CEILING PLANS FOR ARCHITECTURAL APPROVAL PRIOR TO ANY PIPING DESIGN AND/OR CALCULATIONS.
- 14. NFPA CLASSIFICATION:

PARKING GARAGE/ MACHINE SHOP: ORDINARY HAZARD, GROUP ONE.

DORM/OFFICE: LIGHT HAZARD

15. FIRE HYDRANT FLOW TEST DATA:

DATE: 10/21/2021

HYDRANT: 6CM56

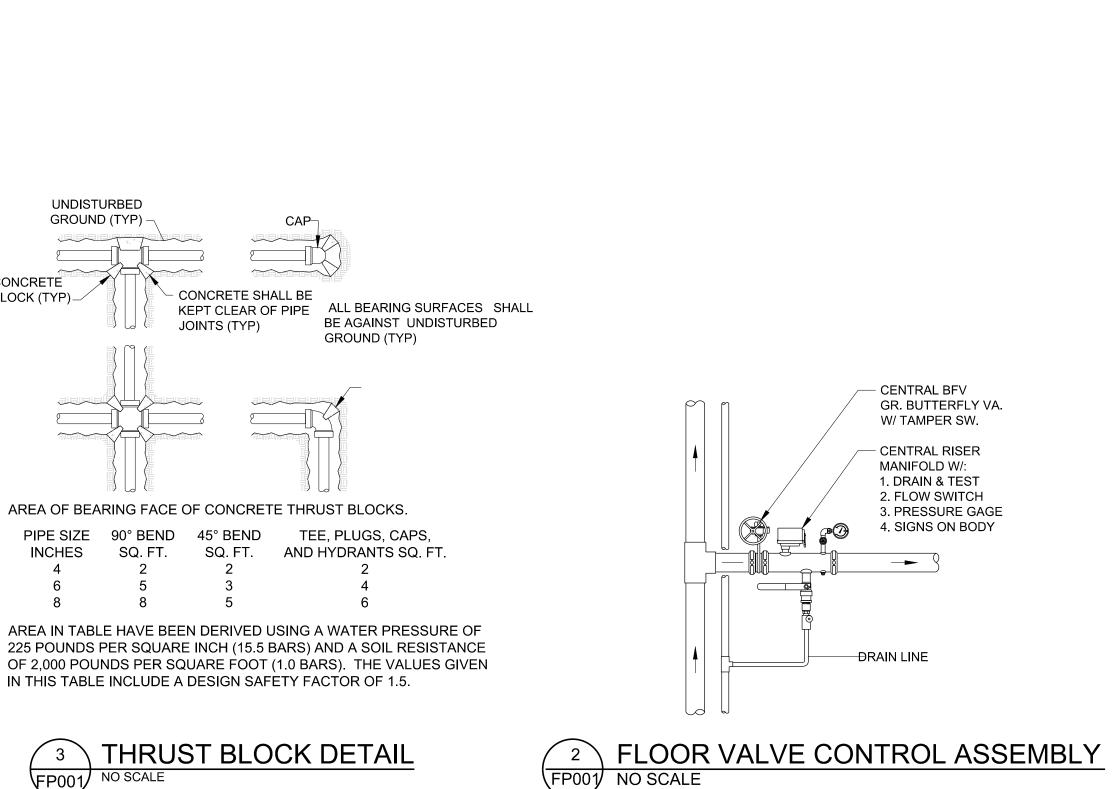
LOCATION: EAST SIDE OF ARLINGTON AVENUE, 385 FT SOUTH OF OBERLIN AVENUE

STATIC PRESSURE: 123 PSI

RESIDUAL PRESSURE: 99 PSI

FLOW: 1500 GPM

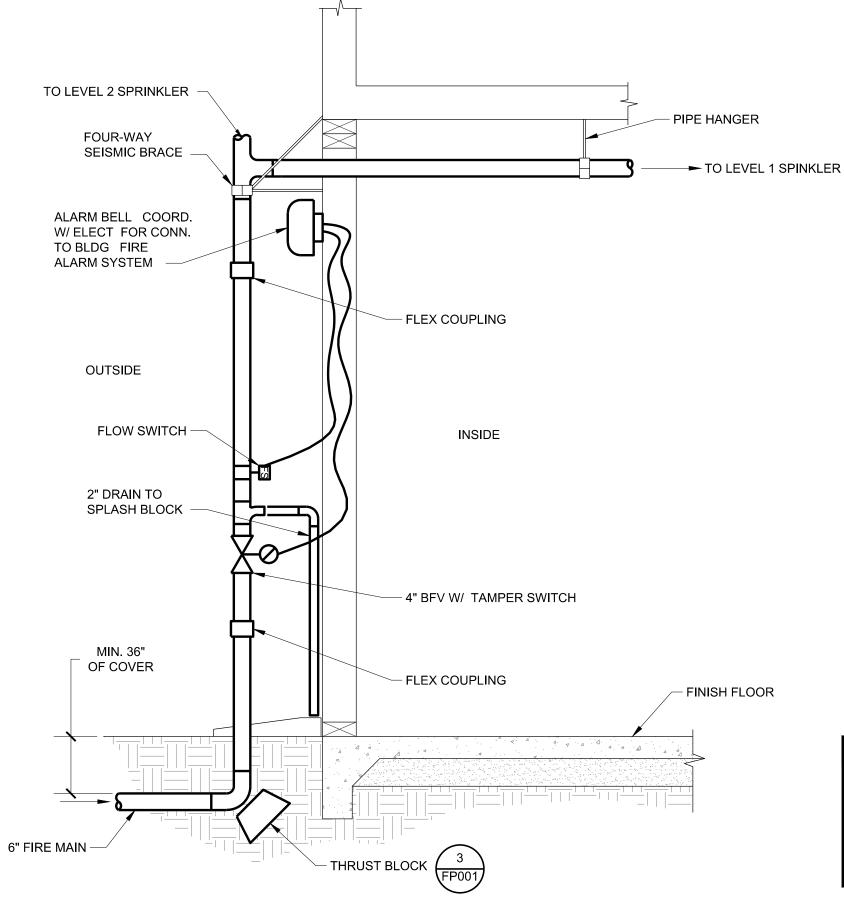
PREDICTED FLOW AT 20 PSI: XXXX GPM



UNDISTURBED GROUND (TYP) -

JOINTS (TYP)

CONCRETE BLOCK (TYP)-



FIRE SPRINKLER RISER DETAIL

DRAWING	DRAWING INDEX		
DWG#	DRAWING DESCRIPTION		
FP001	FIRE PROTECTION - TITLE SHEET		
FP201	FIRE PROTECTION - GROUND FLOOR PLAN		
FP202	FIRE PROTECTION - SECOND FLOOR PLAN		

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CONTACT: RON BLUE T: (831) 373-4390 AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET

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DESCRIPTION

FIRE PROTECTION TITLE SHEET



- COORDINATE LOCATION OF THE BACKFLOW, FDC AND PIV WITH CIVIL.
- 2. PROVIDE FIRE SPRINKLERS IN CEILING SPACE.



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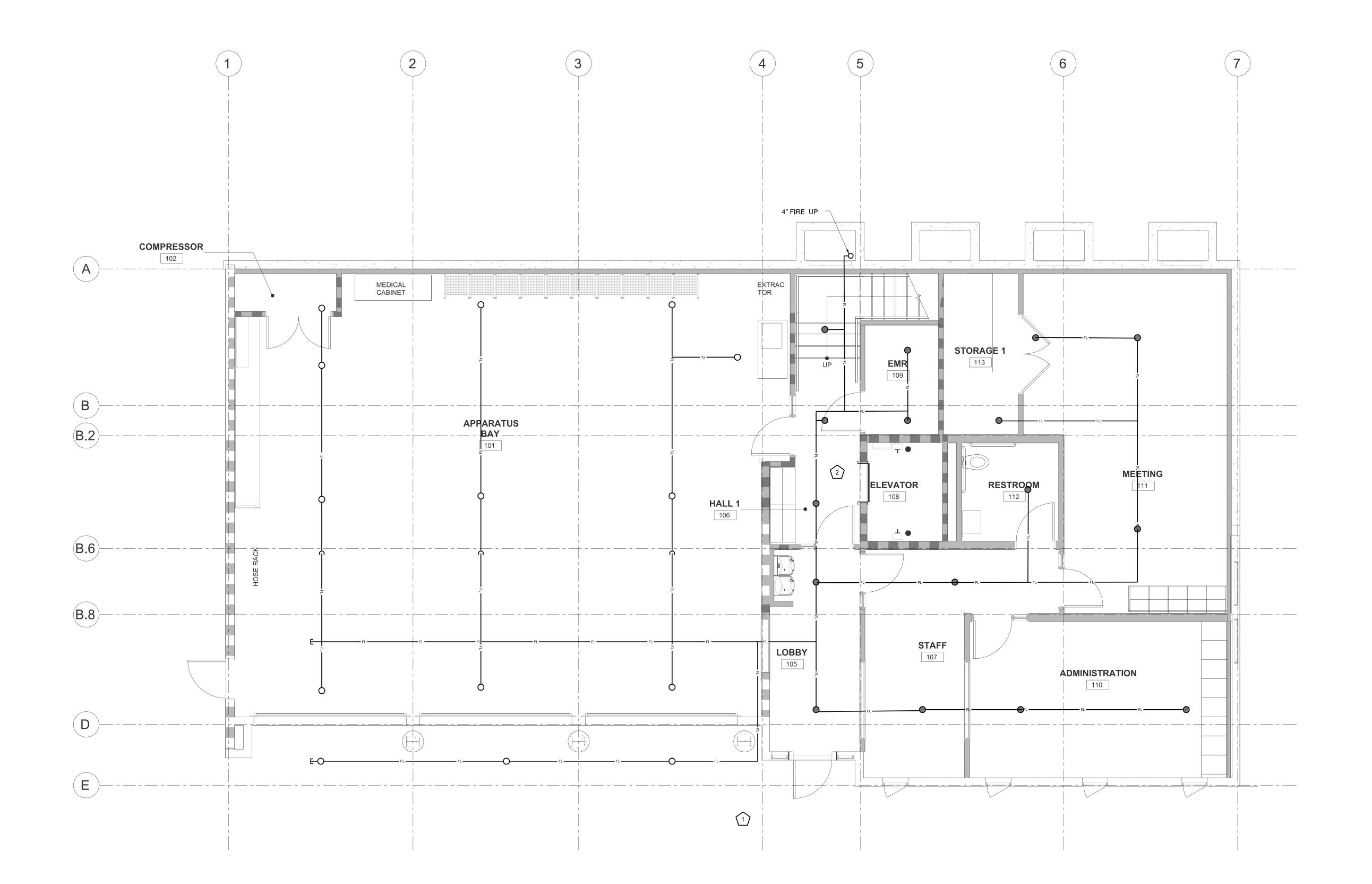
ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

NO. DESCRIPTION DATE

ISSUED FOR BUILDING PERMIT 04-01-22

DESCRIPTION

FIRE PROTECTION GROUND
FLOOR PLAN









 PROVIDE FIRE SPRINKLERS IN FLOOR CAVITY AND CEILING SPACE.



STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA, 94707

PROJECT TEAM

CLIENT:

KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

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SAN CARLOS, CA 94070
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LIST ENGINEERING CO. 2 HARRIS CT STE A7

MONTEREY, CA 93940

T: (415) 255-9140

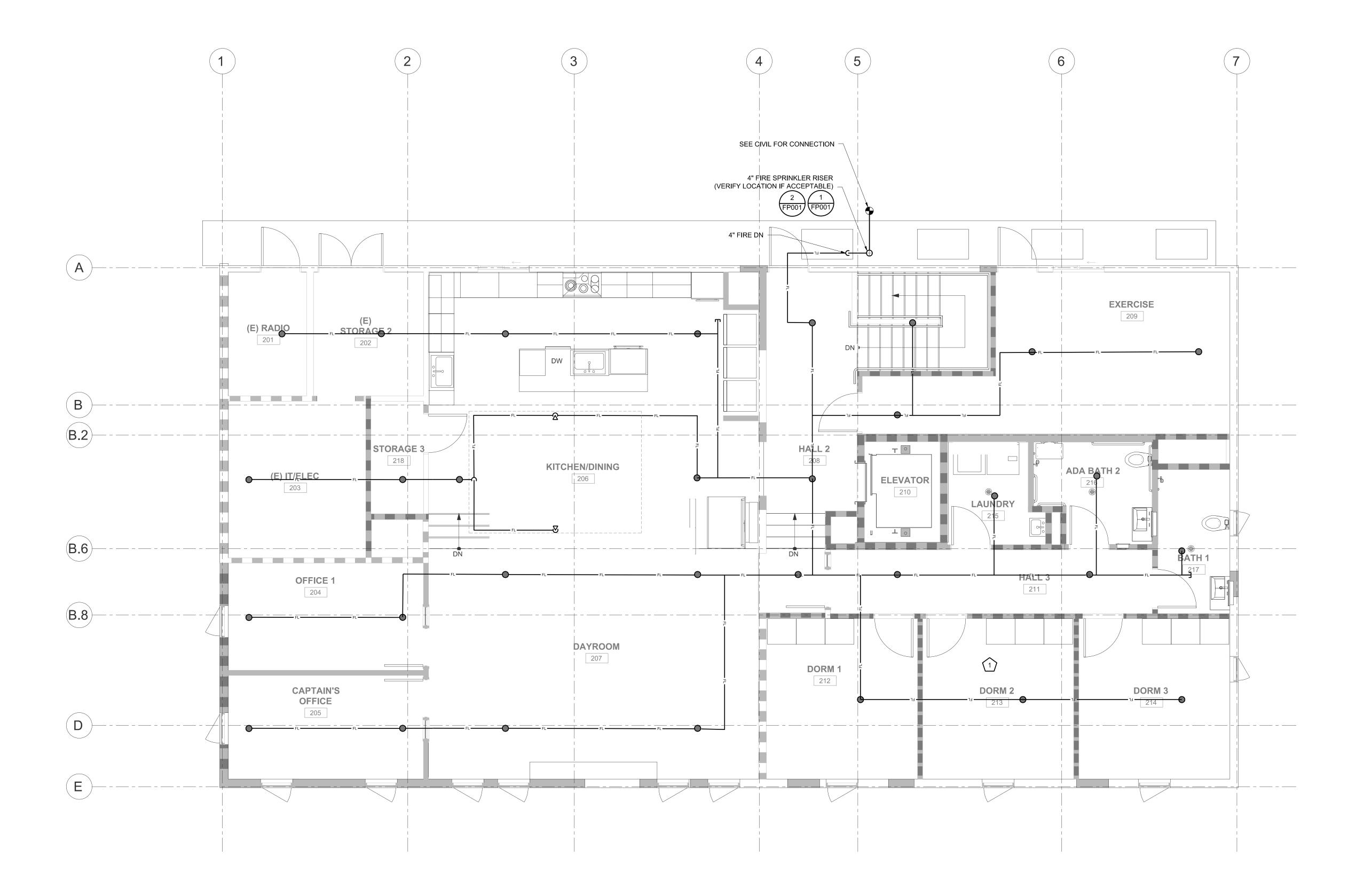
ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110

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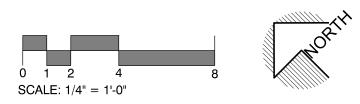
JOB NO.

DESCRIPTION

FIRE PROTECTION SECOND
FLOOR PLAN







- THE EXISTING CONDITIONS INDICATED IN THIS DRAWING SET WERE DEVELOPED FROM VARIOUS SOURCES WHICH WERE NOT ALL FIELD VERIFIED AND NOT ALL CONDITIONS ARE SHOWN. LOCATIONS, ROUTING, ELEVATIONS, SIZES, ETC. ARE SHOWN SCHEMATICALLY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- DRAWINGS INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. FINAL LOCATIONS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS
- THE CONTRACTOR SHALL VISIT THE JOBSITE AND VERIFY ALL EXISTING CONDITIONS BEFORE CONSTRUCTION AND SHALL INCLUDE IN THE BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND ALL APPLICABLE CODES.
- * DEMO & GENERAL CONDITIONS
- CONTRACTOR SHALL REMOVE ALL LEFT OVER CONDUIT, WIRE, SCRAPS, ETC. AND LEAVE PREMISES CLEAN AND FREE OF TRASH OR DEBRIS RESULTING FROM THEIR WORK.
- CONTRACTOR SHALL DISCONNECT AND REMOVE ALL DEMOLISHED DEVICES AND FIXTURES AS SHOWN ON DEMOLITION PLAN. TURN OVER TO OWNER EXISTING DEVICES AND FIXTURES THAT ARE NOT REUSED. PROPERLY DISCARD IF THE OWNER DOES NOT WANT.
- RECONNECT EXISTING DEVICES WHOSE CIRCUITS HAVE BEEN INTERRUPTED BY DEMOLITION BY PROVIDING NEW CONNECTIONS TO ANOTHER EXISTING DEVICE OR PANEL. VERIFY CIRCUIT LOADING ON EXISTING CIRCUIT
- WHEN A DEVICE IS REMOVED FROM AN EXISTING WALL WHICH WILL REMAIN, PATCH WALL TO MATCH EXISTING OR NEW FINISH.
- MOUNTING HEIGHTS SHOWN ARE FROM FINISHED FLOOR TO THE CENTERLINE OF DEVICES, COORDINATE WITH ARCHITECTURAL DRAWINGS.
- CLEAN EXISTING LIGHTING FIXTURES WITHIN THE PROJECT AREA AS PART OF THIS PROJECT. INCLUDE NEW LAMPS WHERE COLOR INCONSISTENCIES EXIST, OR WHERE LAMPS ARE BURNED OUT/NOT INSTALLED.
- ** SITE & SITE LIGHTING
- 10 THERE SHALL BE A MINIMUM OF 24" OF COVER OVER UNDERGROUND CONDUITS, UON. INCLUDE A MINIMUM 12" SEPARATION BETWEEN ALL LOW VOLTAGE AND LINE VOLTAGE RACEWAYS. INSTALL A WARNING/MARKER TAPE 12 INCHES OVER THE CONDUIT.
- 11 PROVIDE CONCRETE BASES FOR ALL SITE POLE MOUNTED FIXTURES, BOLLARDS, AND SIGN LIGHTING, UON.
- 12 MINIMUM SIZE CONDUIT USED ON THE SITE SHALL BE 1.0"C, WITH MINIMUM #10 CONDUCTORS, UON. 13 CONTRACTOR SHALL SIZE ALL INDOOR AND EXTERIOR JUNCTION/PULLBOXES PER THE MINIMUM CODE REQUIREMENTS OF CEC ARTICLE 314, WHEN NOT INDICATED ON THE PLANS.
- ** EQUIPMENT, CONDUIT, WIRE, BOXES & DEVICES
- 14 PROVIDE INDIVIDUAL GFCI RECEPTACLES AT EACH LOCATION SHOWN, DO NOT USE FEED-THRU GFCI
- TYPE RECEPTACLES. LOCATE RECEPTACLE AT END OF A BRANCH CIRCUIT WIRE 15 WHERE RECEPTACLES ARE LOCATED OUTSIDE OR IN WET/DAMP LOCATIONS PROVIDE WEATHER
- RESISTANT TYPE, UON.
- 16 CONDUIT SIZE SHALL BE 0.75 MINIMUM, U.O.N. 17 ALL CONDUCTORS ON THIS PROJECT SHALL BE COPPER.
- 18 FEEDER AND BRANCH CIRCUIT HOMERUNS SHALL BE INSTALLED IN CONDUIT. MC TYPE CABLE SHALL NOT BE USED FOR ANY HOMERUNS ON THIS PROJECT.
- 19 INSTALL AND CONNECT A CODE SIZED INSULATED OR BARE COPPER GROUNDING CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDERS.
- 20 ALL DEVICES SHALL HAVE TYPE ON TAPE LABELS INDICATING THE PANELBOARD AND CIRCUIT SERVING EACH DEVICE, TYPICAL OF ALL DEVICES INCLUDED ON THIS PROJECT.
- 21 PROVIDE INSULATING BUSHINGS OR INSULATED THROAT ON THE ENDS OF ALL EMPTY CONDUIT
- SLEEVES AND INSTALL A POLYETHYLENE PULLING ROPE. 22 WHERE CIRCUITS ARE SHOWN ON THE DRAWINGS WITH HOMERUNS THAT SHARE NEUTRAL CONDUCTORS THE CONTRACTOR SHALL PROVIDE HANDLE TIES BETWEEN ALL BRANCH CIRCUIT
- BREAKER LOADS WHICH SHARE A NEUTRAL 23 PROVIDE DEDICATED CONDUIT/PATHWAYS FOR ALL 0-10v LIGHTING CONTROL SIGNALS SEPARATE
- FROM ALL LINE VOLTAGE RACEWAY. 24 ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER-PROTECTED AND LISTED FOR
- EXTERIOR USE. 25 PROVIDE TYPE WRITTEN PANEL SCHEDULES UPDATED TO INCLUDE ALL FIELD MODIFICATIONS AND
- SCOPE ITEMS ASSOCIATED WITH THIS PROJECT. 26 PROVIDE ENGRAVED NAMEPLATES FOR ELECTRICAL BOARDS, DISCONNECTS, AND SWITCHGEAR.
- *** FIRE ALARM & FIRE RATED ITEMS
- 27 ALL CIRCUIT BREAKERS SERVING THE FIRE ALARM CONTROL PANEL AND FIRE ALARM SYSTEM
- COMPONENTS SHALL HAVE LOCKABLE HANDLES, AND PAINTED RED FOR EASY IDENTIFICATION. 28 ALL CONDUIT, OUTLET BOXES, AND RACEWAY PENETRATIONS THROUGH FIRE RATED WALLS OR FLOOR ASSEMBLIES SHALL BE A UL LISTED ASSEMBLY THAT PROTECTS THE RATED ASSEMBLY. INCLUDE FIRE RATED DEVICE BOX ASSEMBLIES WHEN REQUIRED. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL RATED WALLS AND FLOORS AS APPLICABLE.
- 29 PROVIDE A REMOTE TEST/RESET STATION FOR EACH SMOKE DUCT DETECTOR NOT ACCESSIBLE FROM THE ROOF OR CEILING SPACE. LOCATE STATION ON THE WALLS OR LOW CEILING BELOW THE DUCT DETECTOR AND LABEL WITH THE HVAC UNITS IDENTIFICATION NUMBER. INCLUDE AN ADDRESSABLE FA CONTROL MODULE FOR MONITORING.
- ** CODE REQUIREMENTS & ELECTRICAL CLEARANCES
- 30 ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL
- CODE (CEC). 31 CONTRACTOR IS RESPONSIBLE TO SUBMIT REVISED LAYOUT OF EQUIPMENT IN ELECTRICAL SPACES FOR WRITTEN APPROVAL BY ENGINEER IF PROPOSED INSTALLATION LAYOUT DIFFERS FROM CONSTRUCTION DOCUMENTS. SUBMISSION MUST BE APPROVED PRIOR TO RELEASE OF ORDER FOR EQUIPMENT AND PRIOR TO INSTALLATION.
- REQUIRED ELECTRICAL EQUIPMENT WORKING SPACE DEPTH SHALL NOT BE LESS THAN THAT INDICATED IN CEC TABLE 110.26. THE WIDTH OF THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT SHALL BE THE WIDTH OF THE EQUIPMENT OR 30", WHICHEVER IS GREATER. THIS REQUIREMENT ALSO APPLIES TO DISCONNECT SWITCHES.
- 33 ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES AND BEAR THEIR LABEL, OR ETL.
- CONTRACTOR SHALL PROVIDE ARC FLASH LABELS FOR ALL ELECTRICAL EQUIPMENT WITHIN THE SCOPE OF THIS PROJECT. THESE LABELS SHALL BE GENERATED BY THE CONTRACTOR FROM THE POWER SYSTEM STUDY AND SUBMITTED WITH THE POWER SYSTEM STUDY SUBMITTAL FOR ENGINEER REVIEW AND APPROVAL. THIS INCLUDES ALL FIELD MARKING OF KAIC VALUES ON EXISTING OR PER THE CEC.
- 35 WIRING SPACE IN PANELBOARDS, DISTRIBUTION PANELS AND SWITCHBOARDS SHALL BE DEDICATED TO CONDUCTORS TERMINATED IN THAT ENCLOSURE. PANELBOARDS, DISTRIBUTION PANELS AND SWITCHBOARDS SHALL NOT BE USED AS PULL AND/OR SPLICE BOXES FOR CONDUCTORS THAT TERMINATE IN OTHER ENCLOSURES. DO NOT SPLICE CONDUCTORS IN EQUIPMENT.
- 36 NEW CIRCUIT BREAKERS INSTALLED IN EXISTING EQUIPMENT SHALL BE PROVIDED TO MATCH THE KAIC RATINGS AND THE MANUFACTURER OF THE EXISTING.
- PROVIDE CLEAR SIGNAGE ON ALL ELECTRICAL EQUIPMENT PER CEC TO INDICATE THE ARC FLASH HAZARD WARNING, AND THE MAXIMUM AVAILABLE FAULT CURRENT. WHEN MODIFICATIONS OCCUR THAT AFFECT THE MAXIMUM FAULT CURRENT THE CONTRACTOR SHALL RECALCULATE AS NECESSARY AND REMARK THE EQUIPMENT.
- ** COORDINATION

PROJECT GENERAL NOTES

- 38 REFER TO MECHANICAL & PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT. PROVIDE ALL LINE VOLTAGE AND LOW VOLTAGE WIRING, CONTROL WIRING, INTERLOCK CABLING, AND CONDUIT REQUIRED.
- 39 PROVIDE A DISCONNECTING MEANS AT ALL MOTORS, WHETHER INDICATED ON THE PLANS OR NOT 40 PROVIDE FUSES IN DISCONNECTS FOR MECHANICAL EQUIPMENT AS COORDINATED WITH THE UNITS NAMEPLATE AND MANUFACTURERS INSTALLATION INSTRUCTIONS. FUSES SHALL BE CURRENT
- 1 PROVIDE A GFCI TYPE DEVICE WITH WEATHER PROOF WHILE IN USE COVER WITHIN 25' OF ALL EXTERIOR HVAC/PLUMBING EQUIPMENT.
- 42 WORK PERFORMED FROM THESE DRAWINGS SHALL ALSO COMPLY WITH THE PROJECT. SPECIFICATIONS. IN THE EVENT THAT THERE IS A CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL TAKE PRECEDENT.
- 43 $\,$ CONTRACTOR SHALL CONFIRM THAT ALL LIGHTING FIXTURES SPECIFIED, AND THE CEILING TYPES. FIXTURE TRIMS, AND FRAMES ARE ALL COMPATIBLE PRIOR TO THE CONTRACTOR LIGHTING FIXTURE SUBMITTAL.
- 44 BUILDING EXPANSION JOINTS ARE NOT INDICATED ON THE ELECTRICAL DRAWINGS (UON) AND SHALI BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS. INCLUDE FLEXIBLE EXPANSION WIRING METHODS AT EXPANSION JOINTS TO MEET THE DEFLECTION AND EXPANSION REQUIREMENTS OF THE BUILDING.
- ** MISCELLANEOUS
- 45 IN ADDITION TO THE WORK SHOWN ON THESE PLANS. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT, BACK BOXES, AND RACEWAY REQUIRED FOR THE FIRE ALARM SYSTEM, SECURITY SYSTEM, AV SYSTEM, AND TELECOM SYSTEM ON THIS PROJECT. PLEASE REFER THE LOW VOLTAGE SYSTEM DRAWINGS AND SPECIFICATIONS FOR DEVICE LOCATIONS, ADDITIONAL INFORMATION, AND COMPLETE SCOPE OF WORK.
- 46 PROVIDE ALL LABOR, EXIT SIGNS, AND MATERIAL COSTS FOR THE COMPLETE INSTALLATION OF 5 ADDITIONAL LED EDGE LIT EXIT SIGNS. THE INSTALLATION LOCATIONS ARE TO BE DETERMINED DURING THE FINAL PROJECT INSPECTION WITH THE AHJ. TURN OVER ANY UNUSED EXIT SIGNS TO THE OWNER'S ATTIC STOCK FOR FUTURE USE.
- 47 PER CEC ARTICLE 517 PROVIDE SEPARATE ELECTRICAL RACEWAYS.
- 48 CONTRACTOR SHALL PREPARE RED LINED AS-BUILT DOCUMENTS REPRESENTING THE ACTUAL FIELD ROUTINGS AND INSTALLATION LOCATIONS FOR ALL ITEMS ON THIS PROJECT.
- 49 SURFACE MOUNTED CONDUIT WHERE APPROVED, AND INSTALLED, SHALL BE PAINTED TO MATCH THE ARCHITECTURAL FINISHES IN THAT AREA. 50 CONDUIT ROUTING (WHERE SHOWN) IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT
- RUNS TO SUIT FILED CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES. 51 DRAWINGS INDICATE JUNCTION BOXES WITH HOMERUNS ON THE PLANS, BUT THE CONTRACTOR SHALL PROVIDE ALL INTERMEDIATE RACEWAY WORK AND CONDUCTORS/CABLING BETWEEN THE DEVICES, FIXTURES, AND JUNCTION BOXES AS COORDINATED WITH ALL FIELD CONDITIONS AND
- 52 CONTRACTOR SHALL PREPARE A DETAILED CONDUIT ROUTING DIAGRAM, INCLUDING MAJOR CONDUIT RUNS FROM PANELS OF ORIGIN OUT TO ALL BRANCH CIRCUIT CONNECTIONS (DOWN TO THE DEVICE LEVEL), LIGHT FIXTURE CONNECTIONS, CONTROLS, ETC. AS A SHOP DRAWING FOR REVIEW AND APPROVAL BY THE ENGINEER AND OWNER. THIS SHALL BE SUBMITTED, REVIEWED.
- AND APPROVED PRIOR TO ANY ROUGH-IN WORK IN THE FIELD. 53 THE DRAWINGS DO NOT FULLY REPRESENT THE ENTIRE INSTALLATION FOR THE SYSTEMS INDICATE BELOW. THE CONTRACTOR IS REQUIRED TO COMPLETE THE DESIGN FOR THESE SYSTEMS AS SPECIFIED HEREIN AND AS INDICATED ON THE DRAWINGS. CAD OR REVIT SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION:

·LIGHTING AND DEVICE BRANCH CIRCUITING- DRAWINGS INDICATE ABOVE CEILING POWER JUNCTION BOXES, HOMERUNS, CIRCUITING AT EACH JUNCTION BOX, AND LOCAL MEANS OF CONTROL. CORRESPONDING CIRCUIT NUMBERS ARE INDICATED ADJACENT TO LIGHTING FIXTURES AND RECEPTACLES. CONNECTIONS TO ALL FIXTURES AND DEVICES ARE NOT INDICATED ON THE PLANS BUT ARE REQUIRED.

·FIRE ALARM SYSTEM- DRAWINGS INDICATE THE LOCATION OF ALL CONTROL PANEL COMPONENTS, INITIATING DEVICES, ANNUNCIATING DEVICES, COMMUNICATIONS SYSTEM COMPONENTS, AUXILIAF EQUIPMENT CONTROL AND CONDUIT BETWEEN BUILDINGS. CONDUITS WIRE AND CABLING BETWEEN ALL SYSTEM EQUIPMENT, DEVICES, ETC. ARE NOT INDICATED AND SHALL BE COMPLETED BY THE FIRE ALARM SYSTEM SHOP DRAWING DESIGNER

ABBREVIATIONS AMPERES LCP LIGHTING CONTROL PANEL ARC FAULT CIRCUIT INTERRUPTER MBGB MAIN BUILDING GROUND BUS AMPERE OVERCURRENT FRAME SIZE MCB MAIN CIRCUIT BREAKER (WHEN APPLIED TO CIRCUIT BREAKERS) OR AMPERE FUSE SIZE MLO MAIN LUGS ONLY (WHEN APPLIED TO FUSES) MT EMPTY CONDUIT ABOVE FINISHED FLOOR ASYMMETRIC INTERRUPTING CURRENT NC NORMALLY CLOSED **ALUMINUM** NON-FUSED AMPERE OVERCURRENT TRIP (WHEN NIEC NOT IN ELECTRICAL CONTRACT APPLIED TO CIRCUIT BREAKERS) AUDIO / VIDEO NIGHT LIGHT, UNSWITCHED ATS AUTOMATIC TRANSFER SWITCH NO NORMALLY OPEN **BUILDING AUTOMATION SYSTEM** NTS NOT TO SCALE CONDUIT OC ON CENTER CCTV CLOSED CIRCUIT TELEVISION OFCI OWNER FURNISHED CONTRACTOR INSTALLED CEC CALIFORNIA ELECTRICAL CODE PA PUBLIC ADDRESS **CURRENT LIMITING CIRCUIT BREAKER** OR FUSE PDZ PRIMARY DAYLIGHT ZONE CIRCULATION PUMP PNL PANEL **CURRENT TRANSFORMER** POWER QUALITY METER POTENTIAL TRANSFORMER DRINKING FOUNTAIN PVC POLYVINYL CHLORIDE EXISTING TO REMAIN EXISTING TO BE REMOVED **ELECTRICAL CONTRACTOR** REMOVE AND RELOCATE EXHAUST FAN SEE ARCHITECTURAL DRAWINGS EPO EMERGENCY POWER OFF TIME CLOCK EMT ELECTRICAL METALLIC TUBING TWISTED-PAIR EWH ELECTRIC WATER HEATER SDZ SECONDARY DAYLIGHT ZONE FUSED SPD SURGE PROTECTION DEVICE TRANSFORMER FACP FIRE ALARM CONTROL PANEL TYP TYPICAL FULL LOAD AMPERES UON UNLESS OTHERWISE NOTED FMC FLEXIBLE METAL CONDUIT UPS UNINTERRUPTIBLE POWER SUPPLY FIRE/SMOKE DAMPER VOLTS FIREMAN'S REMOTE ANNUNCIATOR VA VOLTS-AMPS

GROUND

GND GROUND

GROUND BUS

GFCI GROUND FAULT CIRCUIT INTERRUPTER

GRAP GENERATOR REMOTE ANNUNCIATOR

GRC GALVANIZED RIGID CONDUIT

IMC INTERMEDIATE METAL CONDUIT

		APPLIANCES	
DO	DOUBLE OVEN	MW	MICROWAVE
DW	DISHWASHER	RF	REFRIGERATOR
ED	ELECTRIC DRYER	RH	RANGE HOOD
EO	ELECTRIC OVEN/RANGE	UR	UNDERCOUNTER REFRIGERATOR
GD	GARBAGE DISPOSER	WC	WINE COOLER
GR	GAS RANGE	WM	WASHING MACHINE

VARIABLE FREQUENCY DRIVE

VENDING MACHINE

WAP WIRELESS ACCESS POINT

WP WEATHERPROOF

2SP TWO SPEED

3Ø 3-PHASE

1-POLE

2-POLE

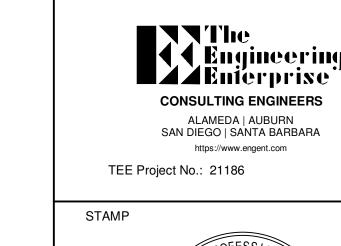
3-POLE

3-WIRE

4-WIRE

1-PHASE

	ELECTRICAL SHEET INDEX				
SHEET NO.	SHEET NAME	2020.12.17 100% DD			
0	5.122.102	ĭ	1		
E001	NOTES, ABBREVIATIONS, AND SHEET INDEX	•	1		
E002	ELECTRICAL SYMBOLS AND LEGEND	•	1		
E003	SCHEDULE AND SINGLE LINE DIAGRAM	•			
E004	TITLE 24 FORMS				
E005	TITLE 24 FORMS		I		
E101	SITE PLAN	•			
E201	LIGHTING PLANS	•	I		
E301	POWER AND LOW VOLTAGE PLANS	•	T		
E401	FIRE ALARM PLANS		T		
E402	FIRE ALARM RISER AND DETAILS				
E501	ENLARGED PLANS AND DETAILS	•	Τ		





PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA, 94707

PROJECT TEAM

CLIENT: KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

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T: (415) 255-9140 ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26

SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

DESCRIPTION ISSUED FOR BUILDING PERMIT 04/01/2022 JOB NO.

DESCRIPTION

NOTES, ABBREVIATIONS, AND SHEET INDEX

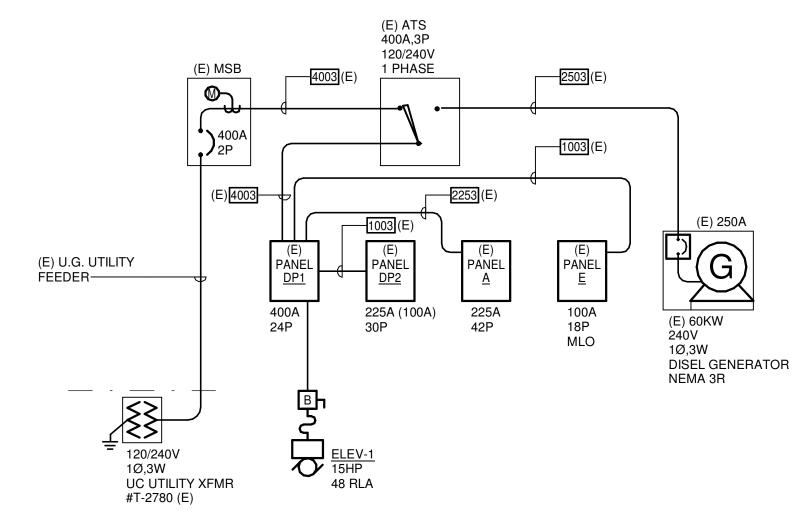


225A. 3P SUBFEED BRKR SERVING PANEL "A" {1} REPLACE 30A/2P WITH 40A/2P (2) REPLACE (2) 20A/1P WITH (1) 20A/2P

{1} REPLACE (2) 20A/1P WITH (1) 20A/2P {2} REPLACE (2) 20A/1P WITH (1) 30A/2P

Branch Panel: (E) PANEL DF Location: (E) IT/ELEC 203			San	ed Fra	m DP1		DΙ	nases	1	ΛΙ4	C. Rating: 10kAl	C Rue Rating	225 A
			J C I V			140					•	•	
Mounting: SURFACE		_			s: 120/2			Wires			lain Type: MLO	Main Rating:	: NA
Load Served	Amp	Р	#	•	kVA)	B (k	VA)	#	Р	Amp	Lo	ad Served	
EXTRACTOR {1}	20 A	2	3	1.08	2.00	1.08	2.00	2	2	30 A	DRYER {2}		
CONV. REC. GND FLOOR	20 A	1	5	0.90	1.10			6	1	20 A	WASHER		
PRINTER	20 A	1	7			0.72	0.18	8	1	20 A	ELEVATOR REC	D	
MONITORS	20 A	1	9	0.54	0.00			10	1	20 A	SPARE		
PRINTER	20 A	1	11			0.18	0.00	12	1	20 A	SPARE		
CONV. REC. GND FLOOR	20 A	1	13	1.08	0.00			14	1	20 A	SPARE		
CONV. REC. GND FLOOR	20 A	1	15			0.18	0.00	16	1	20 A	SPARE		
PRINTER	20 A	1	17	0.90	0.00			18	1	20 A	SPARE		
CONV. REC. GND FLOOR	20 A	1	19			0.72	0.00	20	1	20 A	SPARE		
ELEVATOR PIT REC.	20 A	1	21	0.18	0.00			22	1	20 A	SPARE		
REC. APPARATUS BAY	20 A	1	23			0.72	0.00	24	1	20 A	SPARE		
REC. APPARATUS BAY	20 A	1	25	1.08	0.15			26	1	20 A	FLAG POLE LIG	HT	
SPARE	20 A	1	27			0.00	0.00	28	1	20 A	SPARE		
space		1	29					30	1		space		
			31					32					
			33					34					
			35					36					
			37					38					
			39					40					
			41					42					
			Load: Amps:		I kVA 5 A	5.1 48.1							
Load Classification			Conn. I		Deman			Dema	and		Panel	Totals	
Other			9.6 k\	٧A	100.	.00%	9.	6 kVA		С	onnected Load:	14.79 kVA	
Lighting			0.15 k	VA	125.	.00%	0.1	9 kVA		Co	nnected Amps:	61.63 A	
Receptacles			5.04 k	VA	100.	.00%	5.0)4 kVA		Cod	e Demand Est	14.83 kVA	
		_			1								

Code Demand Est... 61.78 A





Branch Panel: (E) PANEL E

			OCI V	euiio	m DP1		FU	ases	1	A.I.(C. Rating: 10kAIC Bus Rating 22
Mounting: SURFACE				Volt	s: 120/2	240	\	Nires	3	M	lain Type: MLO Main Rating: NA
Load Served	Amp	Р	#		Α	E	3	#	Р	Amp	Load Served
ORD REELS	20 A	1	1	0.72	3.60			2	2	40 A	INDUCTION COOKTOP {1}
ORD REELS	20 A	1	3			0.72	3.60	4	-	40 A	INDUCTION COOKTOP (1)
EATER IGNITORS	20 A	1	5	0.00	3.60			6	2	40 A	ELECTRIC OVEN
ISHWASHER	20 A	1	7			0.80	3.60	8	-	40 A	
ARBAGE DISPOSAL	20 A	1	9	1.20	0.54			10	1	20 A	ROOF GFCI
ONV. REC.	20 A	1	11			0.90	0.36	12	1	20 A	EXTERIOR REC.
IICROWAVE	20 A	1	13	1.20	0.36			14	1	20 A	CONV. REC.
TG KITCHEN 2ND FLOOR	20 A	1	15			0.28	0.00	16	1	20 A	SPARE
ONV. REC.	20 A	1	17	0.72	1.11			18	1	20 A	LTG APPARATUS BAY
ONV. REC. MONITOR	20 A	1	19			0.90	0.80	20	1	20 A	FRIG
GARBAGE DISPOSAL	20 A	1	21	1.20	0.80			22	1	20 A	FRIG
CE MAKER	20 A	1	23			1.00	0.80	24	1	20 A	FRIG
ONV. REC.	20 A	1	25	1.08	0.72			26	1	20 A	REC. GYM
IFT	20 A	1	27			1.20	0.54	28	1	20 A	MONITORS
ONV. REC. OFFICES	20 A	1	29	0.72	1.08			30	1	20 A	CONV. REC. SHADES
ARKING LOT LTS	20 A	1	31			0.14	0.18	32	1	20 A	RR CONV.
ONV. REC.	20 A	1	33	0.54	0.18			34	1	20 A	RR CONV.
/V TELECOM RACK	20 A	1	35			1.00	1.26	36	1	20 A	BR REC.
/V TELECOM RACK	20 A	1	37	1.00	1.44			38	1	20 A	BR REC.
/V TELECOM RACK	20 A	1	39			1.00	0.00	40	1	20 A	SPARE
ONV. REC. ELEC. RM.	20 A	1	41	0.36	0.32			42	1	20 A	EXTERIOR LIGHTS
	Т	otal	Load:	22.4	9 kVA	19.	.08				
	To	tal A	Amps:	18	87 A	159.0	02 A				
oad Classification		0	Conn. I	_oad	Deman	d Factor	Code	Dema	and		Panel Totals
Other			16.14 l	κVA	100	.00%	16.	14 kV	4	С	onnected Load: 41.57 kVA
ighting			1.85 k	VA	125	.00%	2.3	1 kVA		Co	onnected Amps: 173.2 A
Receptacles			23.58 I	κVA	71.	20%	16.	79 kV	4		e Demand Est 35.24 kVA
•										Cod	e Demand Est 146.83 A

Location: (E) IT/ELEC 203			Serv	ed Fro	m DP1		Ph	ases	1	A.I.(C. Rating: 10kAl0	Bus Rating	100
Mounting: SURFACE				Volt	s: 120/2	40	1	Nires	3	M	ain Type: MLO	Main Rating:	NA
Load Served	Amp	Р	#		Α	Е	3	#	Р	Amp		ad Served	
OVERHEAD DOOR	20 A	1	1	1.10	0.00			2	1		SPARE		
OVERHEAD DOOR	20 A	1	3			1.10	0.00	4	1		SPARE		
OVERHEAD DOOR	20 A	1	5	1.10	0.00			6	1		SPARE		
SPARE	20 A	1	7			0.00	0.00	8	1		SPARE		
2ND FLOOR LIGHTING	20 A	1	9	0.67	0.93			10	1		LIGHTING 1ST F	FLOOR	
SPARE	20 A	1	11			0.00	1.50	12	1		FA PANEL		
SPARE	20 A	1	13	0.00	0.36			14	1	20 A	ELEC RM. CON	V. REC.	
SPARE	20 A	1	15			0.00	0.40	16	2	20 A	EF-1		
SPARE	20 A	1	17	0.00	0.40			18	_	2071	WITH RELAY		
			19					20					
			21					22					
			23					24					
			25					26					
			27					28					
			29					30					
			31					32					
			33 35					34 36					
			37					38					
			39					40					
			41					40					
	т.	otal	Load:	1 56	kVA	3.0	10	42					
			Loau. Amps:		3 A	25							
Load Classification			Conn. L		Deman			Dema	ınd		Panel ⁻	Totals	
Other			5.6 k\			00%		6 kVA		С	onnected Load:		
Lighting			1.6 k\			00%		1 kVA			nnected Amps:		
Receptacles			0.36 k			00%		6 kVA			e Demand Est		
											e Demand Est		
Notes:					<u> </u>		1						

FEEDER SCHEDULE

FEEDER SCHEDULE GENERAL NOTES

- 1. COPPER FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON CONDUCTORS WITH THHN/THWN-2 INSULATION IN EMT CONDUIT. 2. ALUMINUM FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON CONDUCTORS WITH XHHW-2 INSULATION IN EMT CONDUIT.
- 3. FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON AN AMBIENT TEMPERATURE OF 30 DEGREES C (86 DEGREES F).
- 4. FEEDERS CONSISTING OF MULTIPLE SETS OF CONDUCTORS AND CONDUITS ARE TO BE PROVIDED WITH THE INDICATED SIZE GROUND CONDUCTOR
- IN EACH CONDUIT. 5. PER CEC ARTICLE 110.14, ALL FEEDERS SIZED AT #2 AWG OR LESS ARE CALCULATED PER 60 DEGREE TABLE. FEEDERS GREATER THAN #2 AWG
- ARE RATED 75 DEGREE.
- FEEDER SCHEDULE REMARKS A. OVERSIZED 150% NEUTRAL, SUITABLE FOR SERVICE FROM K-13 RATED TRANSFORMERS.
- B. FEEDER APPROVED FOR USE WITH SEPARATELY DERIVED SYSTEM; GROUNDING AS REQUIRED BY CEC ARTICLES 240 AND 250.
- C. FEEDER GROUND AND BONDING JUMPER SHALL HAVE AN AREA NOT LESS THAN 12.5% OF THE AREA OF THE LARGEST PHASE CONDUCTOR.
- D. INCREASE CONDUIT TO THE NEXT LARGER TRADE SIZE WHEN USING SCHEDULE 40 OR 80 PVC CONDUIT.
- E. PER CEC SECTION 240.4(B), FOR OVERCURRENT DEVICES RATED 800A OR LESS, THE NEXT HIGHER STANDARD OVERCURRENT DEVICE RATING (ABOVE THE
- AMPACITY OF THE CONDUCTORS) CAN BE USED. RULE CAN NOT BE APPLIED IF 100% RATED BREAKERS ARE USED. F. PER CEC 240.21(C), THE PROVISIONS OF 240.4(B) SHALL NOT BE PERMITTED FOR TRANSFORMER SECONDARY CONDUCTORS.

FEEDEF	R FEEDER	CONDUIT	CONDUCTO	ORS	SEPARATELY SYSTI		REMARKS
TAG	DESCRIPTION	CONDUIT	PHASE/NEUTRAL	GROUND	GROUNDING ELECTRODE	BONDING JUMPER	NEIVIANNO
1003	95 AMP, 3 WIRE	1-1.25"	3 #2 CU	1 #8 CU	-	-	D,E
2253	230 AMP, 3 WIRE	1-2.50"	3 #4/0 CU	1 #4 CU	-	-	-
2503	255 AMP, 3 WIRE	1-2.00"	3 #250 KCMIL CU	1 #4 CU	-	-	-
4003	380 AMP, 3 WIRE	1-3.00"	3 #500 KCMIL CU	1 #2 CU	_	_	D,E

LUMINAIRE SCHEDULE

DESCRIPTION

LUMINAIRE SCHEDULE NOTES:

F15 TBD

REFER TO SPECIFICATION "265000 LIGHTING" FOR DETAILS ON TIER REQUIREMENTS. IN ABSENCE OF SPECIFICATION SECTION, REFER TO THE FOLLOWING TIER DEFINITIONS:

TIER 1 (LEGACY CRI 90): FOR APPLICATIONS WHERE COLOR FIDELITY IS CRITICAL, SUCH AS MUSEUMS, GALLERIES, HIGH-END RESIDENTIAL, ETC. R9 VALUE; MINIMUM 80. TM30 VALUES; Rf>85, 95>Rg>105.

TIER 2 (LEGACY CRI 80): FOR APPLICATIONS WHERE COLOR FIDELITY IS IMPORTANT, SUCH AS OFFICES, SCHOOLS, GENERAL INTERIOR AREAS, ETC. R9 VALUE; MINIMUM 30. TM30 VALUES; Rf >75, 92>Rg>110.

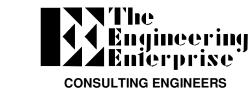
TIER 3 (LEGACY CRI 70): FOR APPLICATIONS WHERE COLOR FIDELITY IS NOT CRITICAL, SUCH AS EXTERIOR PARKING AND AREA LIGHTING, WAREHOUSES, ETC.

R9 VALUE; MINIMUM 20. TM30 VALUES; Rf >70, 80>Rg>120.

MANUFACTURER CATALOG NUMBER

					TRANSFORMER		
F1	NULITE BOUNCE SERIES	RECESSED MODULAR 2X2 LUMINAIRE, SKYLIGHT FORMAT WITH REGRESSED PANEL.	LED 2000 NOMINAL INITIAL LUMENS 3000K	1	INTEGRAL DIMMING DRIVER, 100%-10% RANGE	19 W	120 V
F1A	NULITE BOUNCE SERIES	SIMILAR TO TYPE 'F1' EXCEPT WITH INCREASED LUMEN OUTPUT	LED 3500 NOMINAL INITIAL LUMENS 3000K	1	INTEGRAL DIMMING DRIVER, 100%-10% RANGE	36 W	120 V
F2	a.LIGHT D5 SERIES	RECESSED LINEAR LUMINAIRE, 4 INCHES WIDE, 48 INCH LENGTH. FLUSH OPAL LENS.	LED 3600 NOMINAL INITIAL LUMENS 3000K	1	INTEGRAL DIMMING DRIVER, 100%-10% RANGE	32 W	120 V
F3	SIGNIFY FLUXSTREAM SERIES	FOUR FOOT LENSED STRIP, NOMINAL 4 FOOT LENGTH.	LED 3000 NOMINAL INITIAL LUMENS 3000K	2	INTEGRAL NON-DIM DRIVER	25 W	120 V
F3E	SIGNIFY FLUXSTREAM SERIES	SIMILAR TO TYPE 'F3' EXCEPT WITH EMERGENCY BATTERY PACK.	LED 3000 NOMINAL INITIAL LUMENS 3000K	2	INTEGRAL NON-DIM DRIVER	25 W	120 V
F4	WAC #180137-30-(FINISH)	DECORATIVE VANITY LUMINAIRE	LED 2150 NOMINAL INITIAL LUMENS 3000K	1	-	28 W	120 V
F5	DMF DRD+ONE FRAME SERIES	RECESSED 4 INCH DIAMETER DOWNLIGHT WITH REGRESSED LENS. WHITE CONE FINISH. WARM DIM MODULE.	LED 750 NOMINAL INITIAL LUMENS 3000K-1800K RANGE	1	INTEGRAL DIMMING DRIVER, 100%-1% RANGE	10 W	120 V
F5A	DMF DRD+ONE FRAME SERIES	SIMILAR TO TYPE 'F5' EXCEPT WITHOUT WARM DIMMING.	LED 750 NOMINAL INITIAL LUMENS 3000K	1	INTEGRAL DIMMING DRIVER, 100%-1% RANGE	10 W	120 V
F5B	DMF DRD+ONE FRAME SERIES	SIMILAR TO TYPE 'F5' EXCEPT WITHOUT WARM DIMMING, INCREASED LUMEN PACKAGE	LED 1250 NOMINAL INITIAL LUMENS 3000K	1	INTEGRAL DIMMING DRIVER, 100%-1% RANGE	14 W	120 V
F6	WAC GRISHAM #BL-25214-(FINISH)	WALL MOUNTED READING LIGHT WITH FLEXIBLE ARM.	LED 344 NOMINAL INITIAL LUMENS 3000K		INTEGRAL NON-DIM DRIVER	8 W	120 V
F7	WAC #BA-AC24-CS-WT	LED UNDERCABINET STRIP LIGHT 24"	LED 910 NOMINAL INITIAL LUMENS 2700/3000/3500K	2	REMOTE NON-DIMMING TRANSFORMER	10 W	120 V
F7A	TBD	LED COVE LIGHT	-	-	-	10 W	120 V
F8	H.E.WILLIAMS EGL2 SERIES	SURFACE MOUNTED WIDE BODY ENCLOSED AND GASKETED LUMINAIRE. INTEGRAL MOTION SENSOR.	LED 10000 NOMINAL INITIAL LUMENS 4000K	2	INTEGRAL DIMMING DRIVER, 100%-10% RANGE	73 W	120 V
F8A	H.E.WILLIAMS 96 SERIES	SIMILAR TO TYPE 'F8' EXCEPT NARROW BODY, REDUCED LUMEN PACKAGE	LED 4000 NOMINAL INITIAL LUMENS 4000K	2	INTEGRAL NON-DIM DRIVER	30 W	120 V
F9	KENALL HASESI SERIES	SURFACE MOUNTED 1 X 4 LENSED LUMINAIRE	LED 11200 NOMINAL INITIAL LUMENS 4000K	2	INTEGRAL DIMMING DRIVER, 100%-10% RANGE	72 W	120 V
	SIGNIFY LIGHTOLIER #S7R-9-30K-10 (FINISH) -Z10U	7 INCH DIAMETER SURFACE DOWNLIGHT / WALLMOUNT. J-BOX MOUNTED.	LED 1000 NOMINAL INITIAL LUMENS 3000K	2	INTEGRAL DIMMING DRIVER, 100%-10% RANGE	15 W	120 V
	A.LIGHT ALD2ST SERIES	WALL MOUNTED LINEAR DIRECT / INDIRECT LUMINAIRE, NOMINAL 4 INCH SQUARE, 6 FOOT LENGTH. ASYMMETRIC UPLIGHT AND DOWNLIGHT DISTRIBUTION. SEPARATE SWITCHING. STANDARD COLOR AS SELECTED BY ARCHITECT.	LED 12700 NOMINAL INITIAL LUMENS 3000K	2	DUAL INTEGRAL DIMMING DRIVER, 100%-10% RANGE	120 W	120 V
F12	LIGHTOLIER	PENDANT OR WALL MOUNTED EXIT SIGN WITH DIRECTIONAL ARROWS PER PLANS		-			120 V
F13	GARDCO 111L-16-750-WW-G2-3-120-PCB (FINISH)	EXTERIOR FULL CUTOFF SCONCE. TYPE 3 DISTRIBUTION. B1-U0-G1	LED 3591 NOMINAL INITIAL LUMENS 3000K		INTEGRAL NON-DIM DRIVER	40 W	120 V
	(EXISTING)	EXTERIOR WALL MOUNTED SCONCE	-	<u> </u>	-	40 W	120 V
E15	TDD	EVTEDIOD LIDI ICLIT AT ELAC	T .	T T	T	150 \\	100 1/

EXTERIOR UPLIGHT AT FLAG



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STAMP

TEE Project No.: 21186



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA, 94707

PROJECT TEAM

LIGHT SOURCE | TIER | DRIVER, | WATTAGE | VOLTAGE |

TRANSFORMER

CLIENT: KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL

ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101

T: (415) 378-9064

SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR T. (415) 522-0600

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANZ

> T: (650) 394-8869 **BKF ENGINEERS** 1646 N. CALIFORNIA BLVD STE 400

WALNUT CREEK, CA 94596

CONTACT: ERIC SWANSON T: (925) 940-2200 HALEY ALDRICH GEOTECH: 1956 WEBSTER ST #300

OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS T: (510) 879-4544

2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE T: (831) 373-4390

LIST ENGINEERING CO.

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD

T: (415) 255-9140

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

DESCRIPTION ISSUED FOR BUILDING PERMIT 04/01/2022 JOB NO.

DESCRIPTION

150 W 120 V

SCHEDULE AND SINGLE LINE DIAGRAM



. COMPLIANCE RES	SULTS						
able Instructions: If t	his table	says "DOES NOT COM	PLY" rej	fer to Table D. for guidd	ance an	d review the Table that	indicates "No".
01		02		03		04	05
Service Electrical Metering §130.5(a)	AND	Separation for Monitoring §130.5(b)	AND	Voltage Drop §130.5(c)	AND	Controlled Receptacles §130.5(d)	Compliance Results
(See Table F)	1	(See Table G)		(See Table H)		(See Table I)	
	AND		AND	Yes	AND		COMPLIES with Exceptional Conditions

January 2020

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

				CALIFORNIA ENERGY C	OMMISSION	V E
CERTIFICATE OF COMPLIANCE					NR	CC-ELC-
Project Name: Kensington Fire S			Report Page:			ge 2 of
Project Address: 217 Arlington Avo	e Kensington, CA		Date Prepared:		3,	/31/202
D. EXCEPTIONAL CONDITIONS						?
This table is auto-filled with unedit	able comments because of s	elections made or data ent	tered in tables throughout the for	n.		
indicates instantaneous kW demar	nd and kWh for a utility-defir mpt from §130.5(a) Service 17.	nied period. Electrical Metering require		ny has provided the project a meterir of Electrical Circuits requirements be		
E. ADDITIONAL REMARKS						?
This table includes remarks made b	by the permit applicant to the	e Authority Having Jurisdic	tion			
Fire station is an essential services	facility.	, ·				
F. SERVICE ELECTRICAL METER	ING					?
F. SERVICE ELECTRICAL METER This Section Does Not Apply	ING					?
	ING					2
		MONITORING				
This Section Does Not Apply		MONITORING				?
This Section Does Not Apply G. SEPARATION OF ELECTRICAL This Section Does Not Apply		MONITORING				?
This Section Does Not Apply G. SEPARATION OF ELECTRICAL This Section Does Not Apply H. VOLTAGE DROP	L CIRCUITS FOR ENERGY N					?
This Section Does Not Apply G. SEPARATION OF ELECTRICAL This Section Does Not Apply H. VOLTAGE DROP Table Instructions: Please complete	L CIRCUITS FOR ENERGY N	or complete replacement e		ns, or alterations that add, modify or		?
This Section Does Not Apply G. SEPARATION OF ELECTRICAL This Section Does Not Apply H. VOLTAGE DROP Table Instructions: Please complet feeders and branch circuits to dem	L CIRCUITS FOR ENERGY N The term of the complete of the compl	or complete replacement e 130.5(c). For alterations, o	nly the altered circuits must demo	nstrate compliance per §141.0(b)2Pi	ii.	? Poth
This Section Does Not Apply G. SEPARATION OF ELECTRICAL This Section Does Not Apply H. VOLTAGE DROP Table Instructions: Please complete	L CIRCUITS FOR ENERGY N	or complete replacement e 130.5(c). For alterations, o		nstrate compliance per <u>§141.0(b)2Pi</u> 04	ii.	?
This Section Does Not Apply G. SEPARATION OF ELECTRICAL This Section Does Not Apply H. VOLTAGE DROP Table Instructions: Please completed feeders and branch circuits to demonstructions of the completed of the	te this table for entirely new onstrate compliance with \$1	or complete replacement en 130.5(c). For alterations, o	nly the altered circuits must demo	nstrate compliance per §141.0(b)2Pi 04 Sheet Number for Voltage Drop	<i>ii.</i>	? Poth
This Section Does Not Apply G. SEPARATION OF ELECTRICAL This Section Does Not Apply H. VOLTAGE DROP Table Instructions: Please complet feeders and branch circuits to dem 01	te this table for entirely new onstrate compliance with \$1	or complete replacement en 130.5(c). For alterations, o	nly the altered circuits must demo	nstrate compliance per <u>§141.0(b)2Pi</u> 04	<i>ii.</i>	? ? ? ooth
This Section Does Not Apply G. SEPARATION OF ELECTRICAL This Section Does Not Apply H. VOLTAGE DROP Table Instructions: Please complet feeders and branch circuits to dem 01 Electrical Service	te this table for entirely new onstrate compliance with \$1	or complete replacement en 130.5(c). For alterations, o	nly the altered circuits must demo	Osheet Number for Voltage Drop Calculations in Construction	ii. 0 Field In	2 ooth 5

ding Energy Efficiency Standards	- 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards	January 2020

STATE OF CALIF	ORNIA			
Electrical	l Power I	Distribution	ENERGY COMMI	- The state of the
NRCC-ELC-E (Cr	eated 01/20)	CALIFORNIA	ENERGY COMMI	SSION ****
CERTIFICATE	OF COMPLI	ANCE		NRCC-ELC-
Project Nam	e: Kensin	ton Fire Station Report Page:		Page 3 of
Project Addr	ess: 217 Ar	ngton Ave Kensington, CA Date Prepared:		3/31/202
LCIDCUIT	CONTROLS	TOD 120 VOLT DECERTACIES AND CONTROLLED DECERTACIES		<u>~</u>
		FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES		
This Section	Does Not Ap	ply		
J. DECLARA	TION OF R	QUIRED CERTIFICATES OF INSTALLATION		?
Table Instruc	ctions: Selec	tions have been made based on information provided in previous tables of this document. If any selection needs to be changed	, please expla	in why in
Table E. Add	litional Remo	rks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.	energy.ca.gov	<u>'</u>
title24/2019	standards/2	019_compliance_documents/Nonresidential_Documents/NRCI/		
YES	NO	Faure /Title	Field Ir	rspector
YES	NO	Form/Title	Pass	Fail
•	0	NRCI-ELC-01-E - Must be submitted for all buildings.		
1			1	1

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

January 2020

STATE OF CALIFORNIA **Electrical Power Distribution** CERTIFICATE OF COMPLIANCE Project Name: Kensington Fire Station Page 4 of 4 Project Address: 217 Arlington Ave Kensington, CA 3/31/2022 Date Prepared: DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Part the Documentation Author Name: Documentation Author Signature: The Engineering Enterprise Signature Date: March 31, 2022 Company:

CEA/ HERS Certification Identification (if applicable):

(510) 263-1522

City/State/Zip: Alameda CA 94501 RESPONSIBLE PERSON'S DECLARATION STATEMENT

1305 Marina Village Parkway

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this

Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the

documentation the builder p	rovides to the building owner at occupancy.		
Responsible Designer Name:	Paul Miller	Responsible Designer Signature:	Part Mies
Company :	The Engineering Enterprise	Date Signed:	March 31, 2022
Address:	1305 Marina Village Parkway	License:	E14866
City/State/Zip:	Alameda CA 94501	Phone:	(510) 263-1522

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

Engineering ZZEnierprise **CONSULTING ENGINEERS**

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TEE Project No.: 21186

STAMP

PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA, 94707

PROJECT TEAM

CLIENT: KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR

T. (415) 522-0600

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070

CONTACT: MATT FRANZ T: (650) 394-8869 **BKF ENGINEERS**

1646 N. CALIFORNIA BLVD STE 400

WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200

GEOTECH: HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS T: (510) 879-4544

LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD

T: (831) 373-4390

T: (415) 255-9140 ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26

SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

DESCRIPTION ISSUED FOR BUILDING PERMIT 04/01/2022 JOB NO.

DESCRIPTION

TITLE 24 FORMS



Density Area Description Wattage Primary Function Area (ft²) (W/ft^2) (Watts) Area Category PAF Office Building 0.65 5,146 3,344.9 **TOTAL:** 5,146 3,344.9 See Tables J or P for detail J. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM This Section Does Not Apply K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This Section Does Not Apply L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This Section Does Not Apply

This Section Does Not Apply

January 2020 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

F9

STATE OF CALIFORNIA

This Section Does Not Apply

1x4 surface LED

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS

compliance.

STATE OF CALIFORNIA Indoor Lighting CERTIFICATE OF COMPLIANCE Project Name: Kensington Fire Station Project Address: 217 Arlington Ave Kensington, CA Date Prepared: DOES NOT COMPLY Controls Compliance (See Table H for Details) Rated Power Reduction Compliance (See Table Q for Details) Not Applicable D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form. No exceptional conditions apply to this project. E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction. Building is an essential services facility F. INDOOR LIGHTING FIXTURE SCHEDULE Table Instructions: Include all permanent designed lighting and all portable lighting in offices. Designed Wattage: Conditioned Spaces Field Inspector Name or Modular | Small Aperture | Watts per | How Wattage is | Total number | Exempt per Complete Luminaire Description Design Watts Item Tag rack) Fixture & Color Change | luminaire | §140.6(a)3 determined luminaires F1 . Recessed 2x2 LED 19 Mfr. Spec² 361 F2 Recessed down light LED 32 Mfr. Spec² 288 F3 4' strip LED Mfr. Spec² 175 4' strip LED battery backup Mfr. Spec² Vanity LED Mfr. Spec² F5A Recessed LED down light Mfr. Spec² 210 F5B 112 Recessed LED down light 14 Mfr. Spec² LED undercabinet light Mfr. Spec² F7A 350 LED cove light Mfr. Spec² 292 LED strip 73 Mfr. Spec²

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

Indoor Lighting CERTIFICATE OF COMPLIANCE roject Name: Kensington Fire Station Project Address: 217 Arlington Ave Kensington, CA Date Prepared: O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This Section Does Not Apply P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This Section Does Not Apply Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS This Section Does Not Apply

72

Mfr. Spec²

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) This Section Does Not Apply T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www2.energy.ca.gov/

Field Inspector YES NO Form/Title Pass Fail NRCI-LTI-01-E - Must be submitted for all buildings NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be 0 recognized for compliance. NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference 0 room, a multipurpose room, or a theater to be recognized for compliance. NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for

STATE OF CALIFORNIA **Indoor Lighting** CERTIFICATE OF COMPLIANCE Project Name: Kensington Fire Station Page 3 of 7 Project Address: 217 Arlington Ave Kensington, CA 3/31/2022 Modular | Small Aperture | Watts per Field Inspector Name o How Wattage is | Total number Exempt pe omplete Luminaire Description Design Watts Item Tag Track) Fixture & Color Change¹ | luminaire² | determined luminaires §140.6(a)3 Pass Fail F11 120 Wall mounted linear LED 240 Total Designed Watts CONDITIONED SPACES: 3,271

¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per <u>\$140.6(a)4B</u> is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05. ² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the

G. MODULAR LIGHTING SYSTEMS

This Section Does Not Apply

luminaire, not the lamp.

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Building Level Controls

Building Level Control	5								
	01				02			03	
	Mandatory Demand Response			Shut-0	Off Controls			Field Insp	pector
	§110.12(c)			§1	.30.1(c)			Pass	Fail
	Not Required ≤ 10,000 SF			See Area/Spa	ace Level Control	S			
Area Level Controls									
04	05	06	07	08	09	10	11	1	12
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls	Shut-Off Controls	Primary/Skylit Daylighting	Secondary Daylighting	Interlocked Systems	Field in	
			§130.1(b)	§130.1(c)	§130.1(d)	§140.6(d)	§140.6(a)1	Pass	Fail
	All Other Building	Manual ON/ OFF	Dimmer	Occ. Sensor	NA: ≤ 80% LP (alt only)	NA			

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards January 2020

STATE OF CALIFORNIA

STATE OF CALIFORNIA Indoor Lighting

Company:

City/State/Zip:

CERTIFICATE OF COMPLIANCE

Documentation Author Name:

Project Name: Kensington Fire Station

Project Address: 217 Arlington Ave Kensington, CA

RESPONSIBLE PERSON'S DECLARATION STATEMENT

Compliance (responsible designer)

Responsible Designer Name:

Company

City/State/Zip:

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

The Engineering Enterprise

Alameda CA 94501

The Engineering Enterprise

Alameda CA 94501

1305 Marina Village Parkway

1305 Marina Village Parkway

I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.

documentation the builder provides to the building owner at occupancy.

1,080

January 2020

January 2020

Indoor Lighting CERTIFICATE OF COMPLIANCE Project Name: Kensington Fire Station Page 6 of 7 Project Address: 217 Arlington Ave Kensington, CA 3/31/2022

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

Paul Miller

Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations

YES	ES NO Form/Title	Form/Title	Field In	spector
			Pass	Fail
•	0	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.		
0	•	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.		
0	•	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.		
0	•	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).		
0	•	NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).		

Report Page:

Date Prepared:

Documentation Author Signature:

Responsible Designer Signature:

Date Signed:

Phone:

Signature Date:

4 Engineering **4.4** Enferorise **CONSULTING ENGINEERS**

https://www.engent.com TEE Project No.: 21186

STAMP



ALAMEDA | AUBURN

SAN DIEGO | SANTA BARBARA

PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA, 94707

PROJECT TEAM

CLIENT:

KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

MARJANG ARCHITECTURE ARCHITECT: 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR

T. (415) 522-0600 STRUCTURAL: ZFA STRUCTURAL ENGINEERS

> 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANZ T: (650) 394-8869

BKF ENGINEERS 1646 N. CALIFORNIA BLVD STE 400 WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200

GEOTECH: HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612

CONTACT: CATHERINE ELLIS T: (510) 879-4544 MEP: LIST ENGINEERING CO. 2 HARRIS CT STE A7

T: (831) 373-4390 AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET

MONTEREY, CA 93940

CONTACT: RON BLUE

SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD T: (415) 255-9140

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110

CONTACT: HENRY TOORYANI T: (415) 826-9626

Page 7 of 7 3/31/2022 Part This March 31, 2022 CEA/ HERS Certification Identification (if applicable): (510) 263-1522 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available JOB NO. to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the Part The March 31, 2022 E14866 (510) 263-1522

January 2020

January 2020

DESCRIPTION DATE ISSUED FOR BUILDING PERMIT 04/01/2022

DESCRIPTION

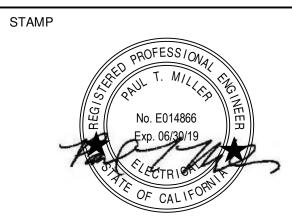
TITLE 24 FORMS

OVERALL SITE PLAN

SCALE: 1" = 10'-0"

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SAN FRANCISCO, CA 94110
CONTACT: HENRY TOORYANI

T: (415) 826-9626

ISSUED FOR BUILDING PERMIT 04/01/2022

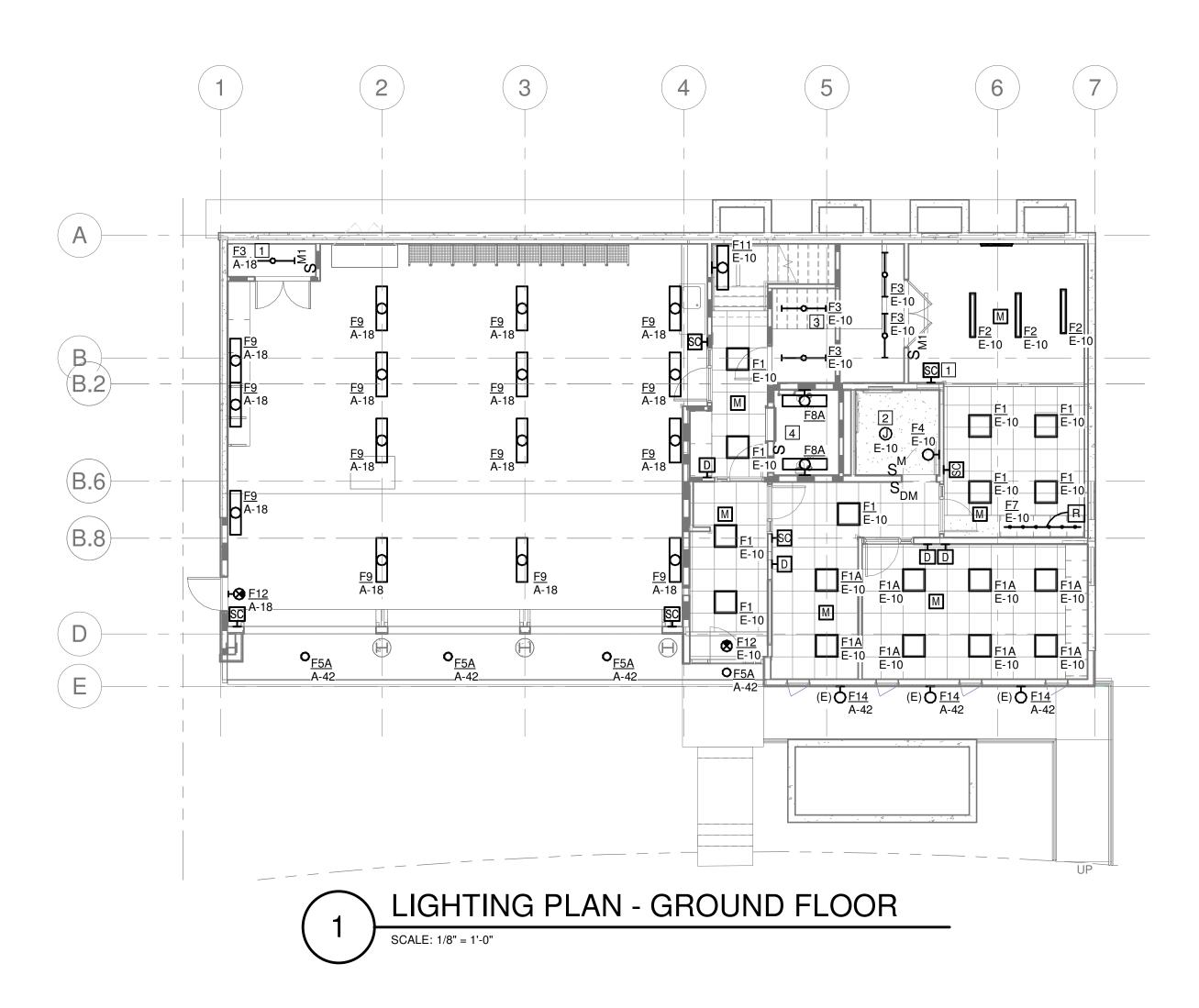
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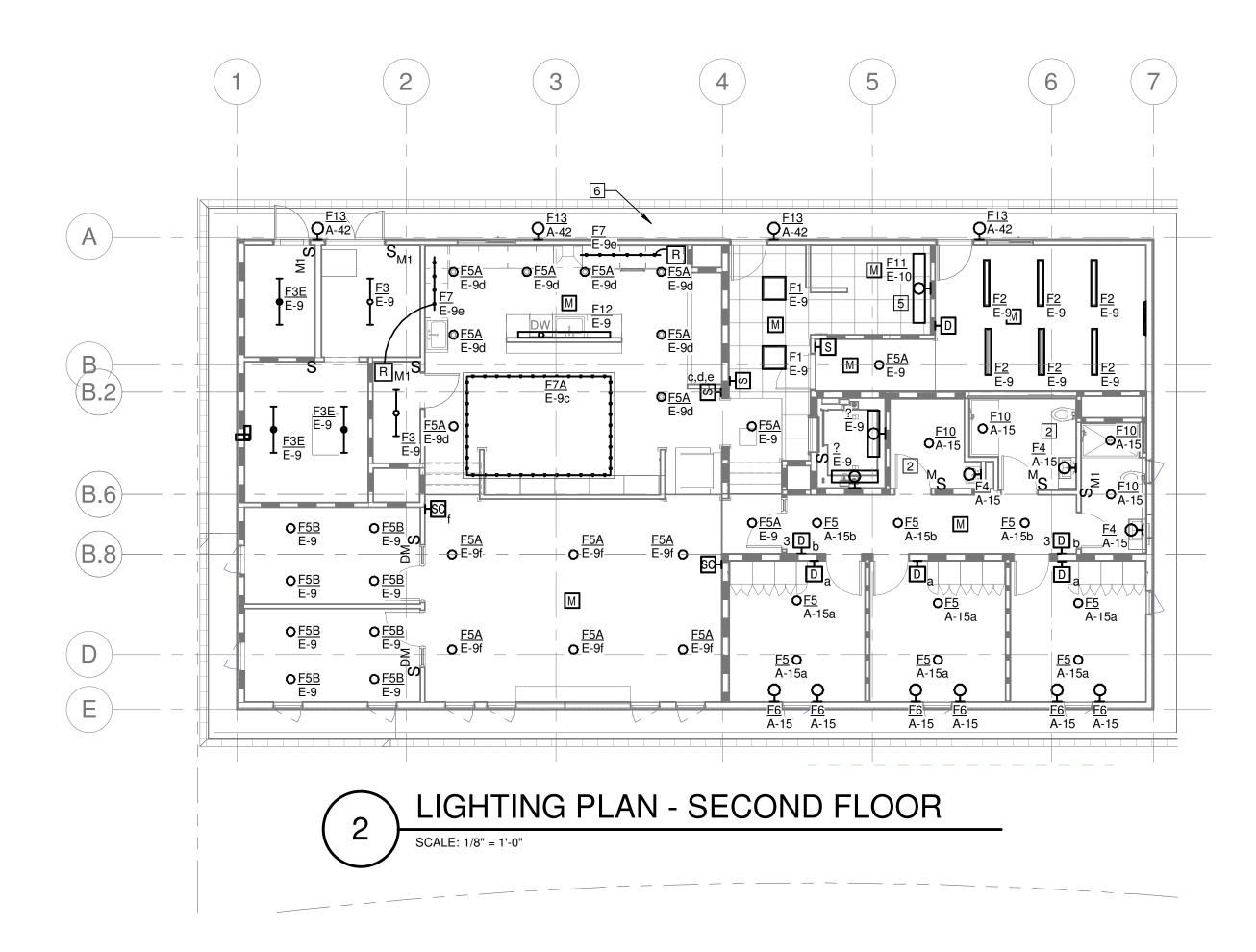
JOB NO.

DESCRIPTION

SITE PLAN







NUMBERED SHEET NOTES

1 WALL MOUNT OVER DOOR.

2 COMBO FAN/LIGHT.

3 MOUNT UNDER STAIRS.

4 MOUNT IN PIT.

5 WALL MOUNTED ABOVE LANDING.

6 REMOVE ALL SOFFIT MOUNTED LIGHTING AND WALL MOUNTED LIGHTS AND PATCH.

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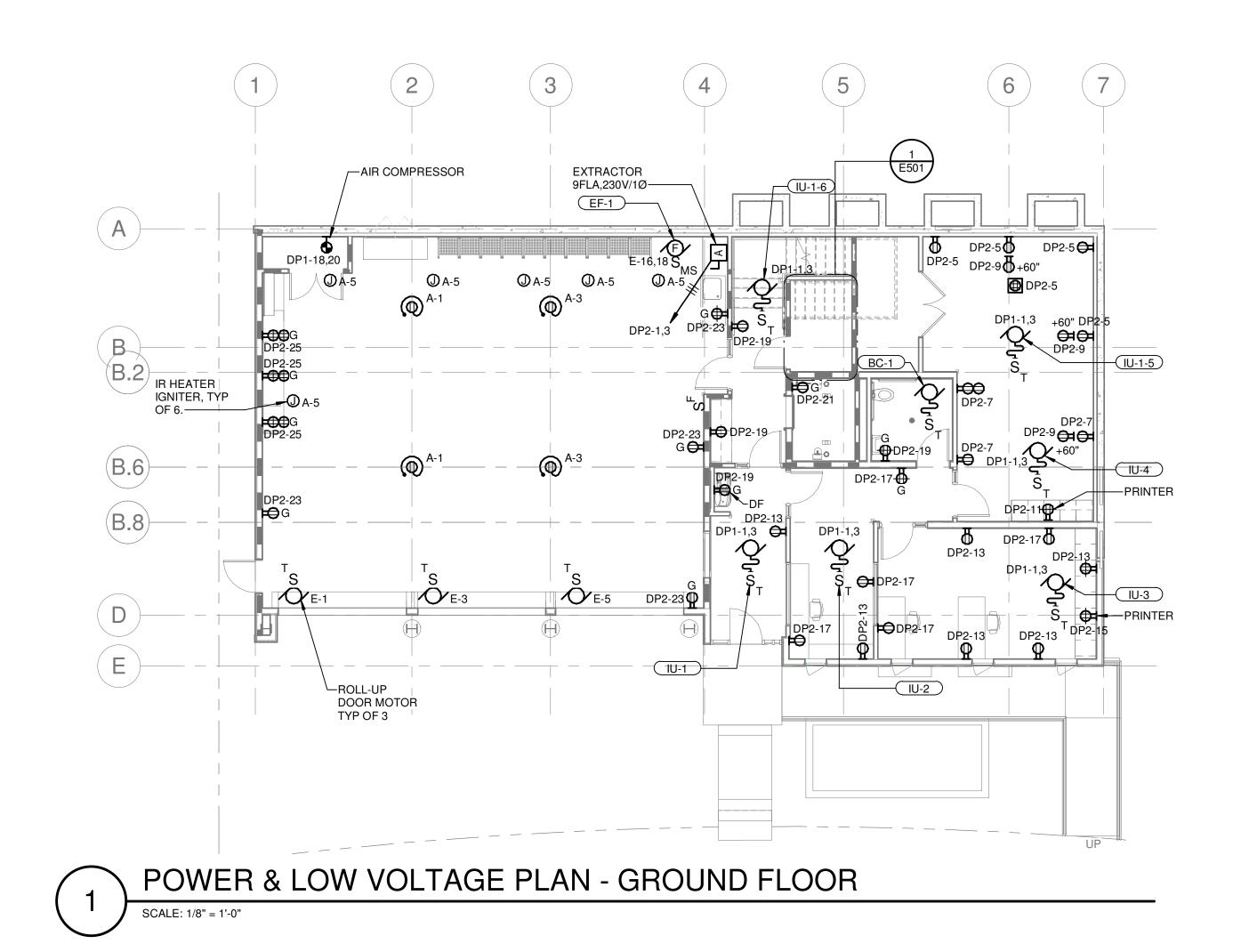
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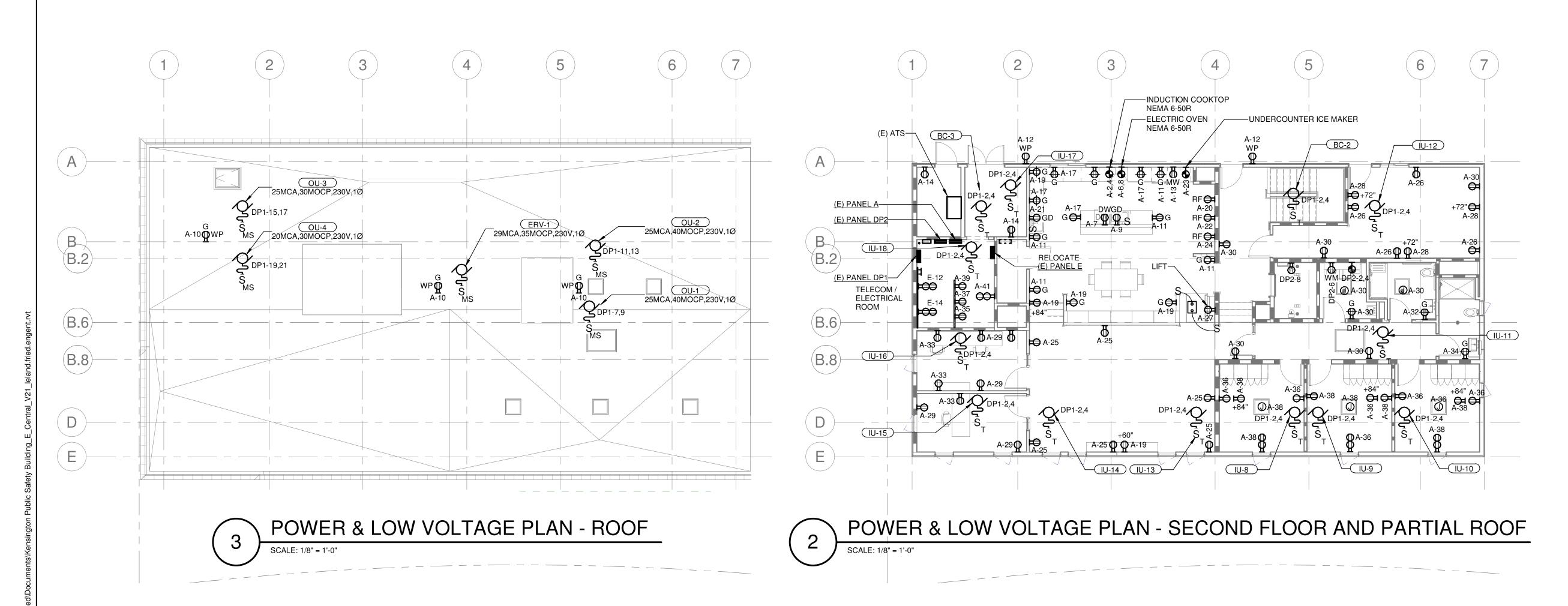
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	ISSUED FOR BUILDING PERMIT	04/01/202		

DESCRIPTION

LIGHTING PLANS

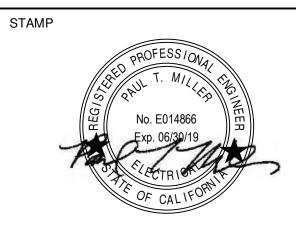








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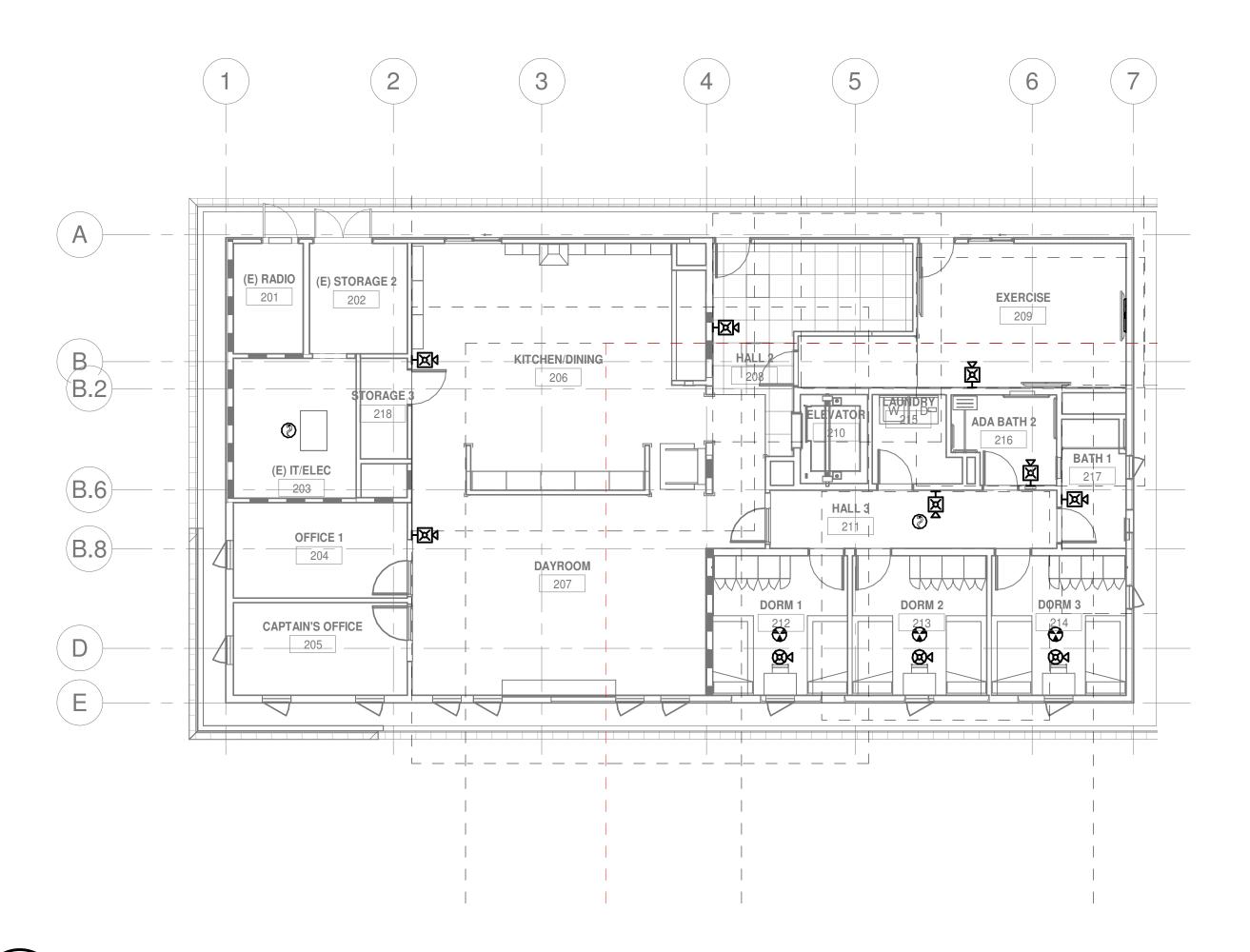
NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	04/01/2022
JOB N	NO.	

DESCRIPTION

POWER AND LOW **VOLTAGE PLANS**



01_Fire_RCP SCALE: 1/8" = 1'-0"



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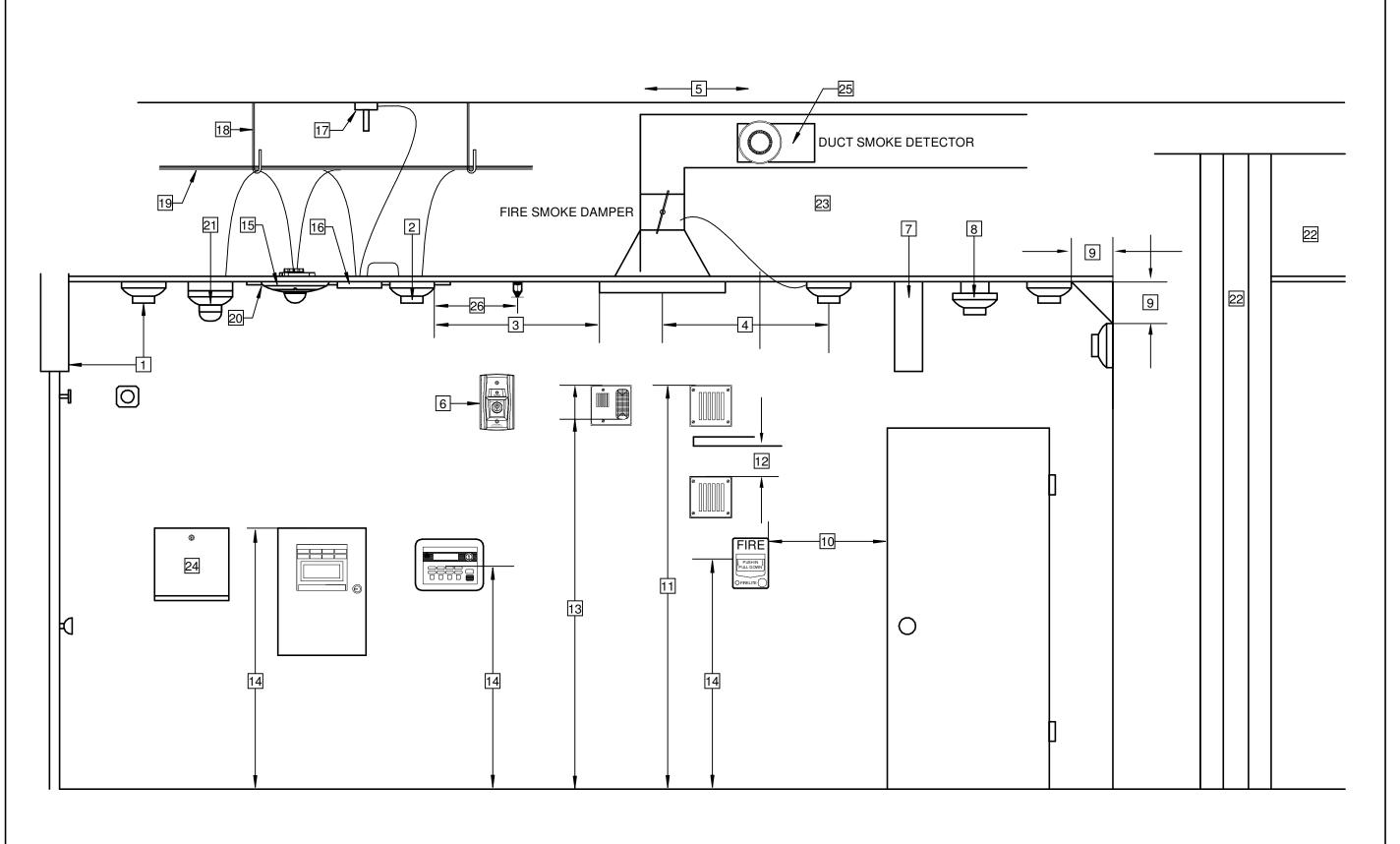
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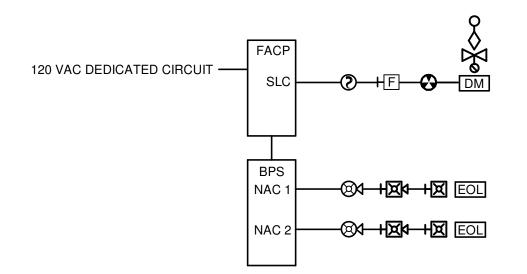
FIRE ALARM PLANS

FIRE ALARM SYSTEM MATRIX												
	PULL STATION	SMOKE DETECTOR	HEAT DETECTOR	WATER FLOW SWITCH	TAMPER SWITCH	OPEN/SHORT CIRCUIT	GROUND FAULT	A/C LOSS	BATTERY TROUBLE	SYSTEM SILENCE	SYSTEM RESET	SMOKE DUCT DETECTORS
ALARM AT FACP & REMOTE ANNUNCIATOR(S)	Х	Х	×	X								Х
SUPERVISORY AT FACP & REMOTE ANNUNCIATOR(S)					×							
TROUBLE AT FACP & REMOTE ANNUNCIATOR(S)						Х	Х	Х	Х			
REPORT EVENT TO OFFSITE SUPERVISING STATION	X	Х	х	X	×	Х	X	Х	Х			Х
ACTIVATE EVACUATION SIGNALS	Х	X	X	X								X
DEACTIVATE VOICE MESSAGES										Х	X	
DEACTIVATE VISUAL SIGNALS											Х	
RESET FACP TO NORMAL CONDITION											Х	
HVAC	X	X	X									X

FIRE ALARM DEVICE MOUNTING DETAIL NOTES

- MOUNT DOOR HOLDER SMOKE DETECTOR MAXIMUM 3' FROM DOOR AND A MINIMUM OF 1' FROM DOOR.
- 2 NFPA 72 17.7.3.2.3.1 ON SMOOTH CEILINGS, SPACING FOR SMOKE DETECTORS SHALL BE IN ACCORDANCE WITH ONE OF THE FOLLOWING REQUIREMENTS:
- 1. THE DISTANCE BETWEEN SMOKE DETECTORS SHALL NOT EXCEED SPACING OF 30'. 2. ALL POINTS ON THE CEILING SHALL HAVE A DETECTOR WITHIN A DISTANCE EQUAL TO
- 3 NFPA 72 17.7.4.1 MOUNT SMOKE DETECTOR MINIMUM OF 3' AWAY FROM DIFFUSER VENT.
- 4 MOUNT SMOKE DETECTOR FOR FIRE SMOKE DAMPER (FSD) WITHIN 3' OF SUPPLY VENT.
- 5 DUCT SMOKE DETECTOR SHALL BE MOUNTED 6 TO 10 TIMES THE DIAMETER OF DUCT FROM BEND
- 6 NFPA 72 17.4.7 WHERE FIRE DETECTORS ARE INSTALLED IN CONCEALED LOCATIONS MORE THAN 10' AFF OR IN ARRANGMENTS WHERE THE DETECTOR'S ALARM OR SUPERVISORY INDICATOR IS NOT VISIBLE TO RESPONDING PERSONNEL. DETECTORS SHALL BE PROVIDED WITH A REMOTE INDICATOR OR SUPERVISORY INDICATION ACCEPTABLE WITH AUTHORITY HAVING JURISDICTION (AHJ).
- 7 NFPA 72 17.7.3.2.4.2 BEAM POCKET SPOT DETECTOR ARE REQUIRED FOR BEAMS GREATER THAN 18" BELOW CEILING AND SPACED MORE THAN 8' ON CENTER. EACH BAY FORMED BY BEAM SHALL BE TREATED AS A SEPARATE AREA. BEAMS LESS THAN 12" IN DEPTH AND SPACED LESS THAN 8' ON CENTER SHALL HAVE DETECTORS INSTALLED ON THE BOTTOM OF THE BEAM. OR, CEILINGS WITH BEAM DEPTHS LESS THAN 10 PERCENT OF THE CEILING HEIGHT, SMOOTH CEILING SPACING IS PERMITTED AND DETECTORS PLACED ON THE BOTTOM OF THE BEAM. BEAMS EQUAL TO OR GREATER THAN 10 PERCENT OF CEILING HEIGHT WITH BEAM SPACING GREATER THAN 40 PERCENT OF CEILING HEIGHT, SPOT DETECTORS SHALL BE LOCATED IN EACH CELL.
- 8 NFPA 72 17.6.3.3.1.1 BEAMS PROJECTING LESS THAN 4" SHALL BE TREATED AS A SMOOTH CEILING.
- 9 NFPA 72 17.6.3.1.3.1 SMOKE DETECTORS SHALL BE MOUNTED ON THE CEILING MINIMUM 4" FROM WALL, AND 4" MINIMUM TO 12" MAXIMUM FROM CEILING MOUNTED ON WALL.
- 10 NFPA 72 17.14.5 THE OPERABLE PART OF A MANUALLY ACTUATED ALARM-INITIATING DEVICE SHALL NOT BE LESS THAN 42" AFF AND NOT MORE THAN 48" AFF. NFPA 72 17.14.8.4 MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5' OF EACH EXIT DOORWAY ON EACH FLOOR.
- 11 NFPA 72 18.4.8.1 MOUNT EXTERNAL HORN AT 90" MINIMUM AND 100" MAXIMUM TO THE TOP OF THE DEVICE.
- NFPA 72 18.5.5.2 WHERE LOW CEILING HEIGHTS DO NOT PERMIT WALL MOUNTING AT A MINIMUM OF 80", WALL MOUNTED VISIBLE APPLIANCES SHALL BE MOUNTED WITHIN 6" OF THE CEILING.
- 13 NFPA 72 18.5.5.1 WALL MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AFF AND NOT GREATER THAN 96" AFF.
- [14] CBC 1117B.0 (3) MOUNT FIRE ALARM CONTROL PANELS AND ANNUNCIATORS AT A MAXIMUM OF 48" TO THE TOP OF THE CONTROL PANEL OR KEY BOARDS.
- 15 CEILING MOUNTED HORN / SPEAKER STROBE
- 16 MONITOR MODULE
- 17 RATE OF RISE HEAT DETECTOR, MOUNTED IN ABOVE CEILING / ATTIC SPACE.
- 18 APPROVED WIRE MANAGEMENT, ie J-HOOK OR D-RING.
- 19 ABOVE CEILING CIRCUITS ROUTING IN AN ACCESSIBLE ATTIC SPACE.
- NON-ACCESSIBLE CEILINGS MUST USE EITHER EMT OR APPROVED WIREMOLD RACEWAY, AS SHOWN ON PLANS.
- 21 MULTI-CRITERIA PHOTOELECTRIC SMOKE / CO DETECTOR WITH SOUNDER BASE. MOUNT IN AREAS WHERE FOSSIL FUEL IS USED.
- 22 NFPA 72 17.5.3.1.1 IN ACCESSIBLE SPACES THAT DO NOT MEET THIS CRITERIA MUST BE MADE ACCESSIBLE AND DETECTION MUST BE INSTALLED.
- SMOKE / HEAT DETECTION COVERAGE IS REQUIRED IN ALL COMBUSTIBLE AREAS. UNLESS: A. CEILING IS ATTACHED DIRECTLY TO THE UNDERSIDE OF THE SUPPORTING BEAM OR ROOF DECK. B. CONCEALED SPACE IS ENTIRELY FILLED WITH NON-COMBUSTIBLE INSULATION. :. THE SMALL CONCEALED SPACE OVER ROOMS THAT DO NOT EXCEED 50 SQ. FT. IN AREA. D. SPACES FORMED BY FACING STUDS OR SOLID JOISTS IN WALLS, FLOORS, OR CEILINGS WHERE THE FACING STUD OR SOLID JOIST IS LESS THAN 6".
- NFPA 72 17.5.3.1.4 DETECTION FOR CONCEALED ACCESSIBLE SPACES ABOVE SUSPENDED CEILING USED AS A RETURN PLENUM SHALL BE PROVIDED AT EACH CONNECTION FROM RETURN AIR PLENUM
- 24 NFPA 72 7.7.2 WITH EVERY NEW FIRE ALARM SYSTEM A DOCUMENTATION CABINET SHALL BE INSTALLED AT THE FIRE ALARM CONTROL PANEL OR AT ANOTHER LOCATION APPROVED BY AHJ. THE CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS".
- 25 NFPA 90A 6.4.2.1 SMOKE DETECTORS LISTED FOR USE IN AIR DISTRIBUTION SYSTEMS SHALL BE LOCATED AS FOLLOWS: DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS IN AIR SUPPLY SYSTEMS HAVING A CAPACITY GREATER THAN 2000 CFM.
- 26 SMOKE DETECTORS SHALL NOT BE CLOSER THAN 1' FROM SPRINKLERS.





FIRE ALARM RISER DIAGRAM

FIRE ALARM NOTES

- WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- STATE CALIFORNIA CODE OF REGULATIONS (CCR) 2019 TITLE 24 CALIFORNIA BUILDING CODE
- PART 2, 2019 CALIFORNIA BUILDING CODE (CBC)
- PART 3, 2019 CALIFORNIA ELECTRICAL CODE (CEC), 2019 NEC.
- PART 4, 2019 CALIFORNIA MECHANICAL CODE (CMC) PART 5. 2019 CALIFORNIA PLUMBING CODE (CPC)
- PART 9, 2019 CALIFORNIA FIRE CODE (CFC)
- 2016 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13, 72, 80, 90A, 99, AND 101.
- INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTATION AND SPECIFICATION, INCLUDING STATE FIRE MARSHALL LISTING SHEETS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY THE STATE FIRE MARSHALL
- UPON COMPLETION OF INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE STATE FIRE MARSHALL.
- A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED
- ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD.
- ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/ OR TESTING.
- ALL PENETRATIONS THROUGH RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE
- AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBLES (Dba) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 Dba ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIED SPACE WITHIN THE BUILDING.
- AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.

PROVIDED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.

- 10. THE CONTRACTOR SHALL ADJUST/INSTALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
- UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
- ALL FIRE ALARM WIRING SHALL BE FPL (FIRE POWER LIMITED) OR FPLP (FIRE POWER LIMITED
- PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
- 15. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION OF NEWLY INSTALLED
- FIRE ALARM DEVICES SHALL BE COVERED UNTIL AREA IS READY TO BE TURNED OVER TO THE OWNER.
- 16. ALL FIRE ALARM CIRCUITS ARE TO BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE THE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON THE DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN
- FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
- 18. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM A COMMON USE AREA PANEL AND SHALL HAVE OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXPANDERS.
- 19. THE INSTALLER CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE
- 20. CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE MOUNTED WITH THE TOP OF THE CONTROL DEVICE OR KEYPAD TO BE A MAXIMUM OF 48".
- 21. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
- 22. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN
- CONJUNCTION WITH FINAL ACCEPTANCE TEST.
- 23. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR
- 24. THE FIRE ALARM SYSTEM SHALL CONFORM TO 2019 CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 760 AND 2016 CALIFORNIA FIRE CODE (CFC) SECTION 907.
- 25. BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE STATE FIRE MARSHALL TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH THE 2016 NFPA 72 SECTION 14.4.1
- 26. PROVIDE A RECORD OF COMPLETION PER NFPA 72 CHAPTER 7.5.6.
- 27. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AND CBC 907.6.5.2. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUIS BY UL OR SHALL MEET THE
- 28. TEST, INSPECTION AND MAINTENANCE SHALL COMPLY WITH NFPA 72 CHAPTER 14 REQUIREMENTS.
- 29. EACH BUILDING TO BE A SEPARATE SPEAKER ZONE. (CFC 907.63).
- 30. FIRE ALARM DESIGN IS DIAGRAMMATICAL ONLY.

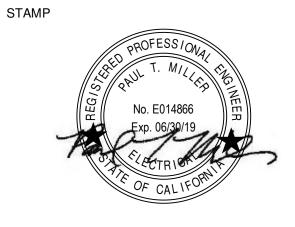
REQUIREMENTS OF FM STANDARDS 3011.

31. FULL DESIGN PROVIDED BY DESIGN BUILD CONTRACTOR AS DEFFERED SUBMITAL.



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TEE Project No.: 21186



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA, 94707

PROJECT TEAM

CLIENT: KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117

CONTACT: KAREN MAR T. (415) 522-0600

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANZ

> T: (650) 394-8869 **BKF ENGINEERS** 1646 N. CALIFORNIA BLVD STE 400

WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200

HALEY ALDRICH GEOTECH: 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS

T: (510) 879-4544 LIST ENGINEERING CO. 2 HARRIS CT STE A7

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351 8TH STREET SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD

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CONTACT: RON BLUE

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26

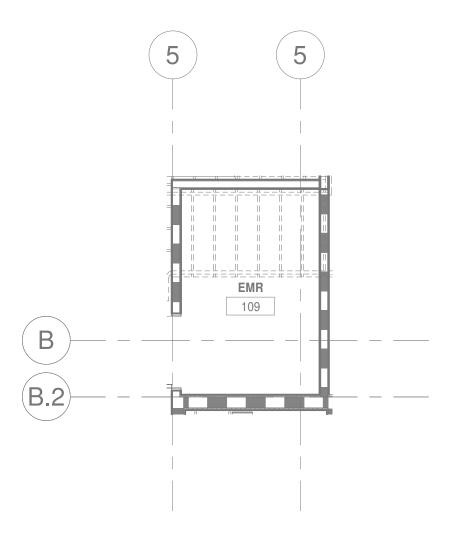
SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

DESCRIPTION ISSUED FOR BUILDING PERMIT 04/01/2022 JOB NO.

DESCRIPTION

FIRE ALARM RISER AND DETAILS





ELEVATOR MACHINE ROOM - GROUND FLOOR SCALE: 1/4" = 1'-0"



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TEE Project No.: 21186



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SAN FRANCISCO, CA 94110
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110	DECODIDEION	
NO.	DESCRIPTION	DATE
	ISSUED FOR BUILDING PERMIT	04/01/2022
JOB 1	NO.	

DESCRIPTION

ENLARGED PLANS AND DETAILS



GENERAL NOTES

1. GENERAL REQUIREMENTS

- REFER TO THE SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
- LOCATION SHOWN ON THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER LOCATION SHOWN ON THE COMMUNICATIONS SYSTEMS DRAWINGS
- DEVICE QUANTITIES SHOWN ON THE FLOOR PLANS AND REFLECTED CEILING PLAN TO TAKE PRECEDENCE OVER THE DEVICE QUANTITY SHOWN ON SINGLE-LINE AND FUNCTIONAL BLOCK DIAGRAMS
- QUANTITIES SHOWN ON THE FUNCTIONAL BLOCK D DIAGRAMS TAKE PRECEDENCE OVER QUANTITIES SHOWN ON THE RACK ELEVATIONS.
- QUANTITIES SHOWN IN THE DEVICE SCHEDULES TAKE PRECEDENCE OVER THE QUANTITY SHOWN ON THE SINGLE-LINE DIAGRAMS, FLOOR PLANS AND REFLECTED CEILING PLANS
- LOCATION SHOWN ON THE LARGE-SCALE DRAWINGS F TAKE PRECEDENCE OVER LOCATION SHOWN ON SMALL-SCALE DRAWINGS.
- KEY NOTES APPEARING WITHIN A KEYNOTE FIELD BUT G. NOT REFERENCED WITHIN A GIVING DRAWING SHALL BE CONSIDERED AS GENERAL NOTES

WHERE AUDIOVISUAL SYSTEMS WIRING IS INDICATED WHERE RACEWAY IS NOT INDICATED, PROVIDE SUCH WIRING SUPPORT ABOVE CEILING VIA J-HOOKS.

H. LOCATE SUCH HOOKS IN LOCATIONS THAT ARE ACCESSIBLE AS DEFINED BY THE CALIFORNIA ELECTRICAL CODE. DOCUMENT LOCATION ON RECORD DRAWINGS.

2. COORDINATE

COORDINATE WITH THE WORK OF ALL SECTIONS OF THIS CONTRACT AND WITH ALL SEPARATE CONTRACTS. COORDINATE THE LOCATIONS OF

- BLOCKING, BACKING AND SUPPORT SYSTEMS REQUIRED. MAKE REASONABLE MINOR MOVES TO PRESERVE ARCHITECTURAL SYMMETRY AND ALIGNMENT WITH NO CLAIM FOR ADDITIONAL COST OR TIME.
- PRESENT CONFLICTS TO THE PROJECT MANAGER IN A TIMELY MANNER FOR RESOLUTION
- RELOCATION, REVISION OR CORRECTION CAUSED BY THE FAILURE OF THE CONTRACTOR TO COORDINATE THE WORK SHALL NOT BE SUBJECT FOR CLAIM FOR ADDITIONAL COST OR TIME.

3. PENETRATIONS

AT PENETRATIONS OF RATED ASSEMBLIES REQUIRING OPENING PROTECTION PROVIDE A THROUGH

- A. PENETRATION FIRE STOP THAT HAS AN T AND F RATING AT LEAST EQUAL TO THAT OF THE ASSEMBLY PENETRATED REFER TO ARCHITECTURAL PLANS FOR CONSTRUCTION AND RATING OF DEMISING
- B. PARTITIONS. WHERE NOT INDICATED, ASSUME ALL INTERIOR WALLS EXTEND TO THE STRUCTURE OF THE FLOOR ABOVE.

4. SUPPORT

PROVIDE ALL BLOCKING, BRIDGE, TIES, FASTENERS AND RELATED SUPPORT PROVISIONS FOR

- COMMUNICATION SYSTEMS WORK. COMPLY WITH A. APPLICABLE CODE REQUIREMENTS FOR MEANS OF SUPPORT OF ELECTRICAL EQUIPMENT OF THE SAME WEIGHT UNDER THE SAME MOUNTING CONDITIONS.
- DO NOT APPLY ANY LOAD TO BUILDING STRUCTURE WITHOUT FIRST OBTAINING WRITTEN APPROVAL OF THE PROJECT MANAGER. OBTAIN PER PROJECT PROCEDURES.

5. BOX, PANEL AND ENCLOSURE INSTALLATION

- COORDINATION: COORDINATE THE LOCATION OF ALL BOXES, PANELS, ENCLOSURES AND RELATED A. RACEWAY WITH THE WORK OF ALL SECTIONS IN THIS CONTRACT AND IN ALL SEPARATE CONTRACTS.
- ACCESS: VERIFY ACCESS TO BOXES, PANELS AND ENCLOSURES COMPLIES WITH THE APPLICABLE CODE. IN CASE OF APPARENT CONFLICT OR AMBIGUITY. SUBMIT IN A TIMELY MANNER FOR RESOLUTION.

ALIGNMENT: INSTALL BOXES, PANELS, AND ENCLOSURES SQUARE AND PLUM. SET FLUSH MOUNTED UNIT SO THAT THE FACE OF THE COVER,

- BEZEL OR ESCUTCHEON IS IN THE SAME PLANE AS THE C. SURROUNDING FINISHED SURFACE. MOUNT BOXES, PANELS AND TRIM SO THAT THERE ARE NO GAPS, CRACKS OR OBVIOUS LINES BETWEEN THE TRIM IN THE ADJACENT FINISHED SURFACE.
- TYPE: UNLESS OTHERWISE NOTED PROVIDE STEEL D BOXES. PANELS AND ENCLOSURES. COMPLY WITH DIVISION 27 REQUIREMENTS AND APPLICABLE CODE

- SIZE: PROVIDE THE LARGEST OF THE SIZE REQUIRED
- BY CODE. SIZE REQUIRED BY APPLICABLE STANDARDS FOR TABLE RADIUS OR AS INDICATED ON THE DRAWINGS, WHICHEVER IS LARGER. PROVIDE BLANK COVERS OR PLATES AT BOXES AND
- ENCLOSURES WERE NO DEVICES ARE INDICATED. MATCH OTHER PLATES IN AREA, EXISTING OR NEW AS APPLIES.

6. RACEWAY

PROVIDE RACEWAY TYPE AND QUANTITY AS INDICATED IN WIRING NOTES, PLAN NOTES, PLAN KEYNOTES OR AS OTHERWISE INDICATED. COMPLY

- WITH THE MOST RESTRICTIVE REQUIREMENTS OF DIVISION 27 FOR WIRING OF THE APPLICABLE CLASS IN THE APPLICABLE LOCATION. IN THE EVENT OF CONFLICT, PROVIDE A LARGER SIZE OR QUANTITY AS APPLIES.
- FOR COMMUNICATION SYSTEMS, UNLESS OTHERWISE NOTED PROVIDE RACEWAY WITH CROSS-SECTIONAL AREA EQUIVALENT TO 1 INCH DIAMETER TRADE SIZE FOR COMMUNICATION STATION CABLING.
- PULL BOXES: PROVIDE AS REQUIRED BY THE MOST RESTRICTIVE OF THE APPLICABLE CODE WITH THE PROVISIONS OF DIVISION 27. COORDINATE WITH WIRING CABLE BEND RADIUS.

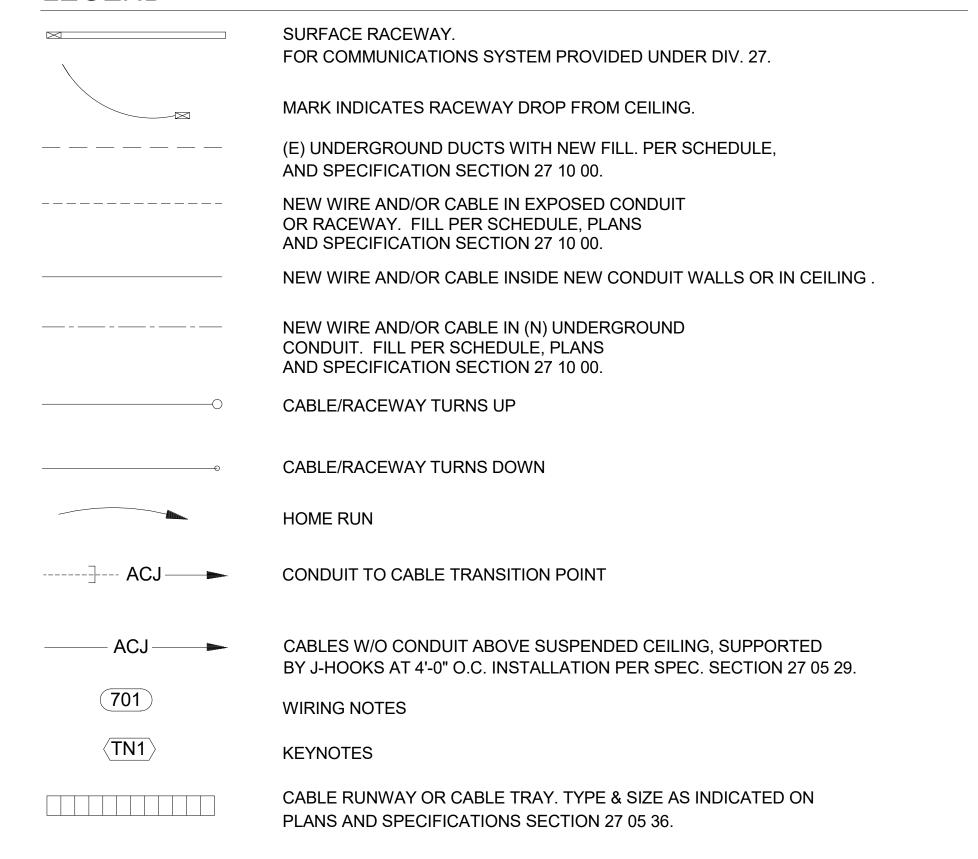
7. GROUNDING AND BONDING

DIVISION 27.

COMPLY WITH ALL APPLICABLE CODES AND SECTION 27 05 26. REFER TO THE CALIFORNIA ELECTRICAL

- CODE AND RELATED REFERENCES THEREIN COMPLY WITH THE MOST RESTRICTIVE.
- ALL CONDUCTIVE RACEWAY, RUNWAY, TRAY AND RELATED BOXES, PANELS AND ENCLOSURES AND CABINETS AS REQUIRED BY APPLICABLE CODE AND

LEGEND

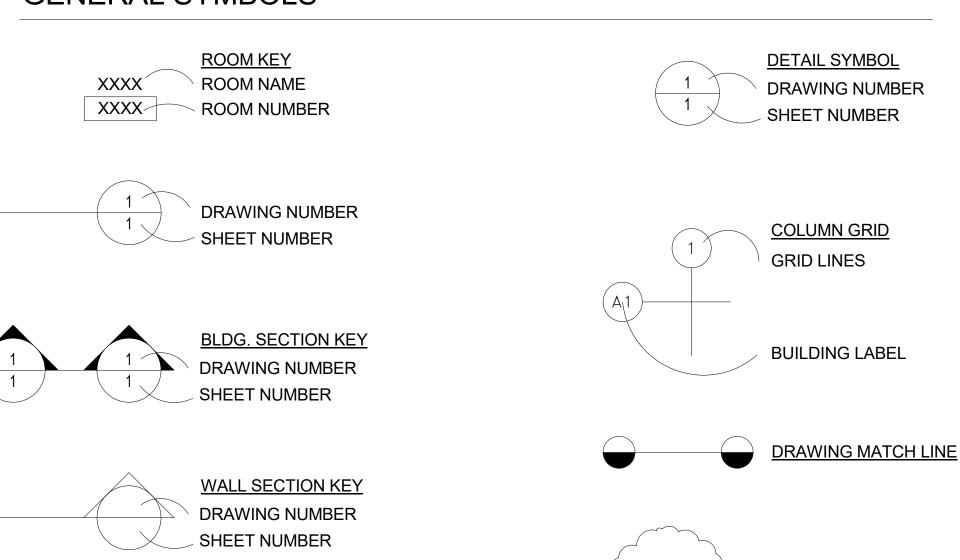


GENERAL SYMBOLS

ELEVATION KEY

DRAWING NUMBER

SHEET NUMBER





REVISION SYMBOL REVISION NUMBER **McDonald Inc** 351 8th Street, San Francisco, CA 94103

> (415) 255-9140 Fax (415) 255-9180 www.sfmi.com info@sfmi.com STAMP

03/11/2021

PROJECT ADDRESS

217 ARLINGTON AVE.

RAY ENRIQUEZ

REGIS. NO. 106011

EXPIRES 12/31/2022

KENSINGTON, CA 94707

PROJECT TEAM

CLIENT: KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

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1646 N. CALIFORNIA BLVD STE 400 WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200 GEOTECH: HALEY ALDRICH

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CONTACT: RON BLUE T: (831) 373-4390 AUDIO/VISUAL: SMITH FAUSE MCDONALD INC.

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DESCRIPTION ISSUED FOR PERMIT 04/01/2021

JOB NO.

0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

GENERAL NOTES, SYMBOLS AND LEGEND



MATERIAL & EQUIPMENT LEGEND

MINIMUM POINT OF ENTRY

SINGLE MODE OPTICAL FIBER

TELECOMMUNICATIONS CLOSET

UNSHIELDED TWISTED PAIR, CAT. 6

TERMINAL BLOCK WITH 15 AMP SWITCH BLADE.

TELEPHONE, CABLE, INSIDE DISTRIBUTION WIRE

TELEPHONE CABLE, OUTSIDE PLANT, DUCTWAY

UNSHIELDED TWISTED PAIR, CAT. 6 OUTSIDE PLANT

110 TERMINAL BLOCK, PRE-WIRED W/50 PIN CONNECTOR,

UNSHIELDED TWISTED PAIR, CAT. 6 PLENUM

110 TERMINAL BLOCK, CAT.5, XX-NO OF PAIRS

TELEPHONE, CABLE, INSIDE DISTRIBUTION WIRE RISER

OUTSIDE PLANT

1IDP 1" INNERDUCT, PLENUM RATED 2IDP 2" INNERDUCT, PLENUM RATED C6PP **CATEGORY 6 PATCH PANEL** FOH-P FIBER OPTIC CABLE HYBRID, PLENUM RATED FIBER OPTIC CABLE HYBRID, OUTSIDE PLANT RISER RATED FIBER OPTIC CABLE, MULTI MODE OUTSIDE PLANT RISER RATED FOM-OPR FOS-OP FIBER OPTIC CABLE, SINGLE MODE OUTSIDE PLANT RISER FOS-OPR FIBER OPTIC CABLE, SINGLE MODE OUTSIDE PLANT RISER RATED FOS-R FIBER OPTIC CABLE, SINGLE MODE RISER FPP FIBER PATCH PANEL FSC FIBER SPLICE CLOSURE FSP FIBER SPLICE PANEL FTB FIBER TERMINAL BOX INTERMEDIATE DISTRIBUTION FACILITY MDF MAIN DISTRIBUTION FACILITY. MULTI MODE OPTICAL FIBER MMP MULTIMEDIA PLATE

NOTE: SEE SPECIFICATION SECTIONS FOR REFERENCE DESCRIPTIONS AND REQUIREMENTS. FOR OTHER MATERIAL AND EQUIPMENT TYPES REFER TO SPECIFICATIONS.

AV FUNCTIONALS LEGEND

DENOTES SEQUENCE NUMBER

XX- NO OF PAIRS

MPOE

SM

TB15

T.C.

T-IDW

T-IDW-R

T-OPD

UTP6-4

Loudspeake and Specific	er type (See Plans cations)	RR	REPEAT RELAY
Loudspeake	Loudspeaker quantity ~70V power tap er reference number	——————————————————————————————————————	XLR CONNECTOR, 3 PIN, FEMALE; MALE XLR CONNECTOR, 4 PIN, FEMALE; MALE AUDIO SPEAKER CONNECTOR, FEMALE; MALE
ВМ	TRANSFORMER BALANCED, LINE INPUT MODUL PRIORITY MUTE GENERATING	E, —B —D	BNC CONNECTOR, 75 OHMS IMPEDANCE DIN CONNECTOR, MIDI STANDARD
MBI	TRANSFORMER BALANCED, MIC INPUT MODULE PRIORITY MUTE GENERATING	Ξ, — P	1/4" PHONE CONNECTOR
VBI	TRANSFORMER BALANCED, LINE INPUT MODUL	E,	TRIPLE FIVE WAY BINDING POSTS
K	PRIORITY MUTE RECEIVING, ADJUSTABLE MUTI	E LE <u>VE</u>	TYPE "F" CONNECTOR
\bigcap	NELAT GOIL		RESISTIVE TERMINATION AT CIRCUIT CHARACTERISTIC IMPEDANCE
VC-R	70 WATT PRIORITY ATTENUATOR, RACK MOUNT	TED	WIRING CONTINUES AS INDICATED
· —	PUSH BUTTON SWITCH	<u> </u>	WIRING HOME RUN AS INDICATED
$\underset{\circ}{-}\!$	MOMENTARY PUSH BUTTON SWITCH	*	FLY-ON OR FLY-OFF POINT
• • •	SWITCH	©	TUBULAR CLAMP BARRIER BLOCK, SWITCH BLOCK SECTION QUANTITY AS REQUIRED BY CIRCUIT
·—	SWITCH	-\$VM-\$VF	S-VIDEO CONNECTOR, MALE; FEMALE
———	NORMALLY OPEN CONTACT	—RF —RM	TYPE RCA AUDIO OR VIDEO CONNECTOR, FEMALE; MALE
	NORMALLY CLOSED CONTACT		SCREW TERMINAL
<i>1</i> 1		—MF —MM	TRS MINI STEREO AUDIO CONNECTOR, FEMALE; MALE.
NOTES:			

1SR-1	SINGLE CHAMBER SURFACE RACEWAY
3SR-2.5	
A.D.A. ADF	AMERICANS WITH DISABILITIES ACT AREA DISTRIBUTION FACILITY
ADF A.F.C.	
A.F.F.	ABOVE FINISHED CLIENCE
ALT	ALTERNATE
A.M.F.F. BDF	ABOVE MEZZANINE FINISHED FLOOR BUILDING DISTRIBUTION FACILITY
B.F.C.	BELOW FINISHED CEILING
BLDG.	BUILDING
B.O.H. C.	BACK OF HOUSE CONDUIT
CAT.	CATEGORY
CBC	CALIFORNIA BUILDING CODE
CEC	CALIFORNIA ELECTRICAL CODE
COMM.	COMMUNICATIONS
C.L.	CENTERLINE
C.O.	CONDUIT ONLY
CONT.	CONTINUATION
CS	COMMUNICATIONS SYSTEM
(D)	DEMOLISH EXISTING
DED	DEDUCTIVE
	DIAMETER
,	DIVISION
	EXISTING
FA.	EACH
_,	ELECTRONIC INDUSTRIES ASSOCIATION
	ELEVATION
	END OF LINE
_	EQUIPMENT
FIN	FINISHED
FUT	
H.R.	HOME RUN
HT.	HEIGHT
IDF.	
J, JBOX	JUNCTION BOX
LAN	LOCAL AREA NETWORK
MATV	MASTER ANTENNA TELEVISION
MAX.	MAXIMUM
MIN.	MINIMUM
MOD.	MODULAR
MON.	MONUMENT
(N)	NEW
NEC	NATIONAL ELECTRICAL CODE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.E.	UNIVERSITY FURNISHED EQUIPMENT
OPP.	OPPOSITE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PNL.	PANEL
	PROJECT
	PROJECT STANDARD RECEPTACLE HEIGHT +18" AFF, U.O.N.
	PROJECT STANDARD SWITCH HEIGHT +48" AFF TO \mathcal{G} , U.O.N.
	REFER TO
	REFERENCE
SIM.	-
SM	SINGLE MODE OPTICAL FIBER
SN	SHEET NOTE
SP	SHIELDED PAIR - SEE SPECIFICATIONS
	SPECIFICATION
	SURFACE RACEWAY
STD	
	SHIELDED TWISTED PAIR
	TELEPHONE
TELCOM	TELECOMMUNICATIONS
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
T-OPD	TELEPHONE CABLE, OUTSIDE PLANT, DUCTWAY
TP	TWISTED PAIR TELECOMMUNICATIONS BOOM
TYP	TELECOMMUNICATIONS ROOM
TYP.	TYPICAL UNLESS OTHERWISE NOTED
	UNI ESS CHERWISE NUTED
U.O.N.	WITH

WEATHERPROOF

SYMBOL	H (INCHES)	W (INCHES)	D (INCHES)
J1	6	6	4
J2	8	8	4
J3	12	12	4
J4	12	12	6
J5	12	12	8
J6	16	12	8
J7	18	18	6
J8	20	16	6
J9	20	16	8
J10	20	20	6
J11	20	20	8
J12	24	20	6
J13	24	20	8
J14	24	24	8
J15	30	24	8
J16	30	30	8
J17	36	30	8

SUFFIX:

NONE - NEMA 1 C - NEMA 4 A - NEMA 12 D - NEMA 4X B - NEMA 3R

EXAMPLE: J16C= 30"H X 30"W X 8"D HINGED NEMA 4 JBOX.

NOTE 1

ALL JUNCTION BOXES TO BE HINGED TYPE, PROVIDED WITHOUT PRE-PUNCHED KNOCKOUTS. PENETRATIONS IN JUNCTION BOXES SHALL BE CUT OR PUNCHED AS REQUIRED FOR INSTALLATION. PAINT ALL INTERIOR BOXES TO MATCH WALL FINISH. COORDINATE FINISH WITH ARCH. PLANS.



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STAMP



EXPIRES 12/31/2022

REGIS. NO. 106011

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PROJECT TEAM CLIENT:

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NO.	DESCRIPTION	DATE
	ISSUED FOR PERMIT	04/01/2021
JOB N	NO.	

0000 KENSINGTON FIRE PROTECTION DISTRICT

PUBLIC SAFETY BUILDING

DESCRIPTION

ABBREVIATIONS, LEGEND & JUNCTION BOX SCHEDULE



1" C. H.R. TO ACCESSIBLE CEILING OR TO IDF ROOM, U.O.N. PROVIDE DEVICE COMPLETE WITH BACKBOX. TILE SUPPORT R7 1-1/4" C. H.R. TO ACCESSIBLE CEILING OR TO IDF ROOM, U.O.N. RAILS AND CEILING CUTOUT TEMPLATE. COMPLY WITH SECTION R8 NOT USED PROVIDE BACKING IN WALL SUITABLE TO SUPPORT A 20 POUND AT ACCESSIBLE CEILING, PROVIDE J-HOOKS. WHERE MOUNTED DEVICE WITH A LOAD CENTROID 18 INCHES FROM THE FACE OF IN GYP CEILING OR OPEN CEILING. PROVIDE 1" C. MINIMUM OR

LRI12

LRI15

THE WALL.

DRAWINGS.

DEVICES

FACE OF THE WALL.

RACEWAY NOTES

09 50 11 ACOUSTICAL PANEL CEILINGS.

PROVIDE BACKING IN WALL SUITABLE TO SUPPORT A 200

POUND DEVICE WITH A LOAD CENTROID 8 INCHES FROM THE

AS DETAILED AND/OR SCHEDULED ON THE ARCHITECTURAL

(4) 2" C. TO ABOVE ACCESSIBLE CEILING. IN ADDITION, PROVIDE

END-TO-END CONDUIT FOR FIRE ALERT SYSTEM LOUDSPEAKER

SIZE CONDUIT FOR 40% FILL. 2 1-1/4" C TO 4 GANG COMPARTMENT, 1 - 1" TO 1 GANG COMPARTMENT. STUBBED TO ACCESSIBLE CEILING OR FLOOR R10 EXTEND TO SERVER ROOM USING BASKET TRAY. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL ROUGH-IN.

UNDER WORK OF SECTION 27 05 33. BOND TO GROUND. COMPLY WITH DIVISION 26 AND SECTION 27 05 26 GROUNDING.

(2) 1-1/4" C. AND (2) 1" C. STUBBED TO ACCESSIBLE CEILING OR FLOOR. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL ROUGH-IN TO 3 GANG COMPARTMENT.

R12

ACCESSIBLE CEILING IS A T-BAR OR SIMILAR GRID BASED. PANELIZED REMOVEABLE CEILING MEETING THE DEFINITION FOR ACCESSIBLE WIRING METHODS IN ARTICLE 100 OF THE CALIFORNIA ELECTRICAL CODE.

Smith. **McDonald Inc** 351 8th Street, San Francisco, CA 94103

STAMP



(415) 255-9140 Fax (415) 255-9180

RAY ENRIQUEZ

REGIS. NO. 106011 EXPIRES 12/31/2022

www.sfmi.com info@sfmi.com

03/11/2021

PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

CLIENT:

KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR T. (415) 522-0600

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANTZ T: (650) 394-8869

> BKF ENGINEERS 1646 N. CALIFORNIA BLVD STE 400 WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200

GEOTECH: HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS T: (510) 879-4544

LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE

T: (831) 373-4390

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD T: (415) 255-9140

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

	ISSUED FOR PERMIT	
		04/01/20
JOB N	10.	

0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION SYMBOL SCHEDULE

LRI1

LRI3

LRI4

LRI5

LRI6

WORK OF NOTES

EDGE 27" TO 80" AFF

LOCATION & ROUGH-IN NOTES

MATCH PROJECT SWITCH HEIGHT

4S BOX W/ 1 GANG RING BLANK COVER PLATE

(N.I.C}..

NOT USED

NOT USED

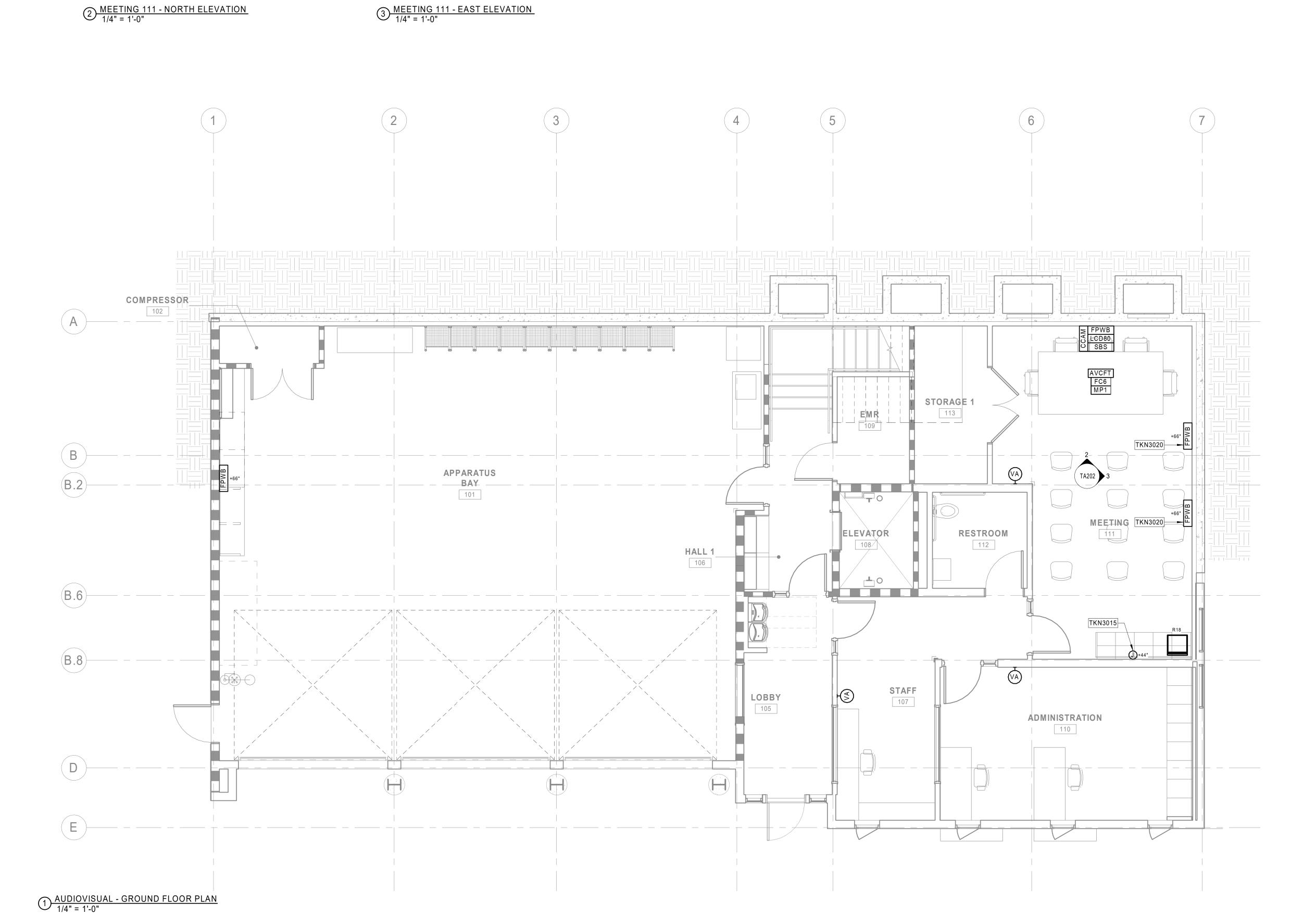
NOT USED

PROVIDE CABLING AND ROUGH-IN UNDER WORK OF PROJECT -

LIGHTING FIXTURE PROVIDED BY OWNER'S CONTRACTOR

INSTALLED ASSEMBLY, INCLUDING MONITOR SHALL NOT

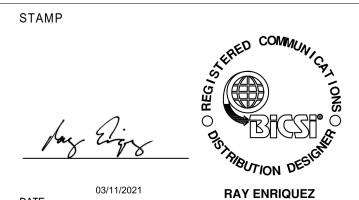
PROJECT MORE THAN 4" FROM FACE OF WALL. IF LEADING



PROVIDE A 4S BOX WITH 2 GANG RING AND BLANK TKN3015 FACEPLATE FLUSHED IN THE WALL, FOR FUTURE AV CAMERA. STUB 1"C. TO ACCESSIBLE CEILING. PROVIDE (1)1.5" C. DOWN TO A 5S BOX WITH 1 GANG

TKN3020 RING AND BLANK FACEPLATE. INSTALL 5S BOX AT 18"





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CONTACT: MATT FRANTZ T: (650) 394-8869

BKF ENGINEERS 1646 N. CALIFORNIA BLVD STE 400

WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200

GEOTECH: HALEY ALDRICH 1956 WEBSTER ST #300

OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS T: (510) 879-4544

LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE T: (831) 373-4390

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351 8TH STREET
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CONTACT: PETER MCDONALD
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ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

NO.	DESCRIPTION	DATE
	100% DESIGN DEVELOPMENT	12/17/2021
	ISSUED FOR PERMIT	04/01/2021
JOB N	10.	
00	00 KENSINGTON FIRE PROTECTION	ON DISTRICT

PUBLIC SAFETY BUILDING

DESCRIPTION

AUDIOVISUAL - GROUND FLOOR PLAN & ELEVATIONS





STAMP

RAY ENRIQUEZ REGIS. NO. 106011 **EXPIRES 12/31/2022**

PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

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SAN CARLOS, CA 94070
CONTACT: MATT FRANTZ

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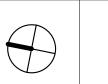
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DESCRIPTION	DATE
100% DESIGN DEVELOPMENT	12/17/202
ISSUED FOR PERMIT	04/01/202
 NO.	
	100% DESIGN DEVELOPMENT ISSUED FOR PERMIT

0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

AUDIOVISUAL - SECOND FLOOR PLAN

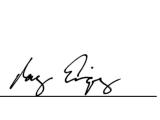




TKN3010 H.R. 3/4" C. TO RACK IN IT ROOM 203.



STAMP



RAY ENRIQUEZ REGIS. NO. 106011 **EXPIRES 12/31/2022**

PROJECT ADDRESS

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KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE CLIENT: KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

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GEOTECH: HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS

> LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE

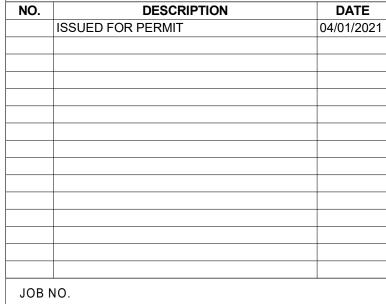
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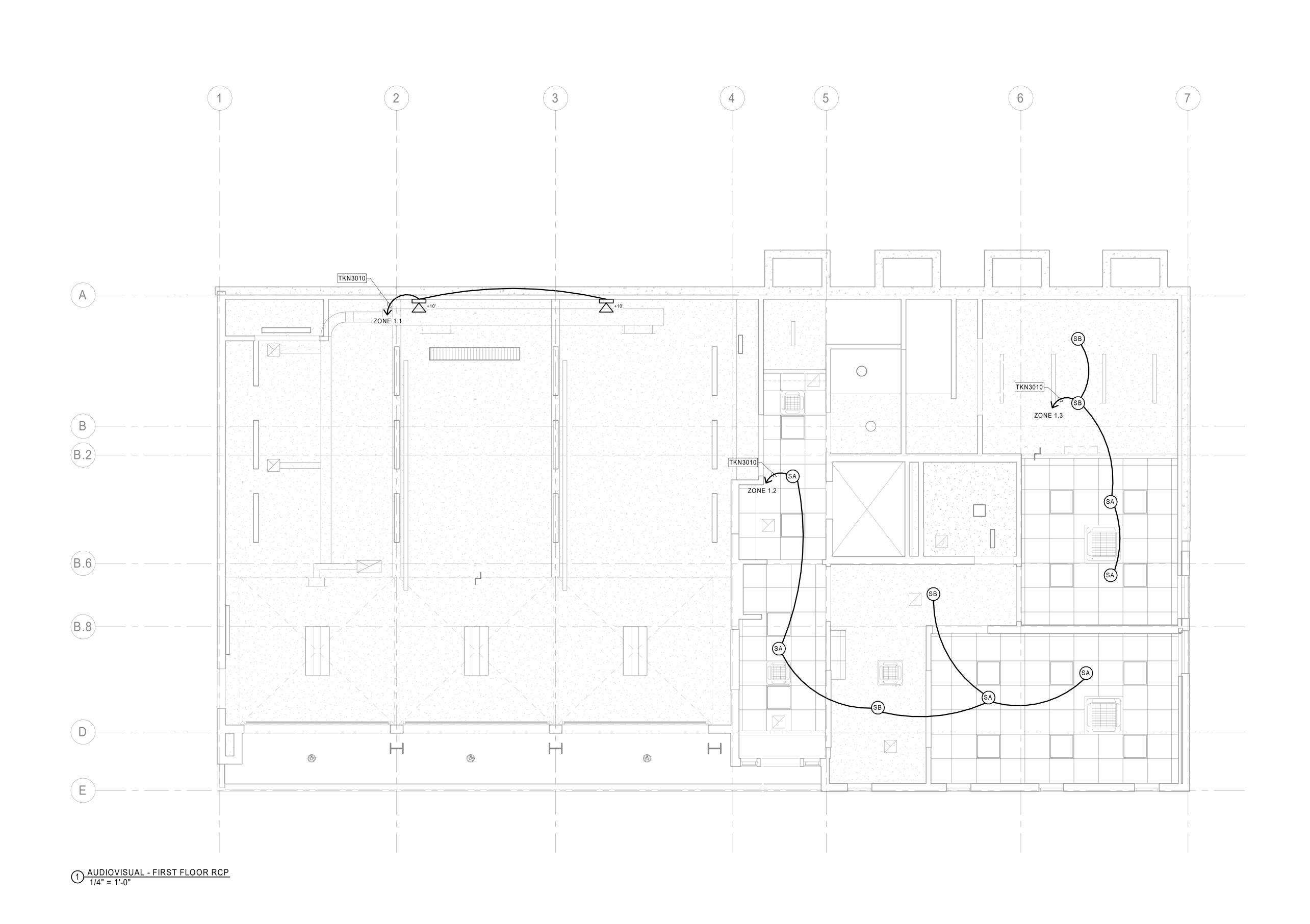
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0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

AUDIOVISUAL - FIRST FLOOR RCP



TKN3010 H.R. 3/4" C. TO RACK IN IT ROOM 203.



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RAY ENRIQUEZ REGIS. NO. 106011 **EXPIRES 12/31/2022**

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KENSINGTON, CA 94707

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GEOTECH: HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS T: (510) 879-4544

MONTEREY, CA 93940 CONTACT: RON BLUE T: (831) 373-4390 AUDIO/VISUAL: SMITH FAUSE MCDONALD INC.

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LIST ENGINEERING CO. 2 HARRIS CT STE A7

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

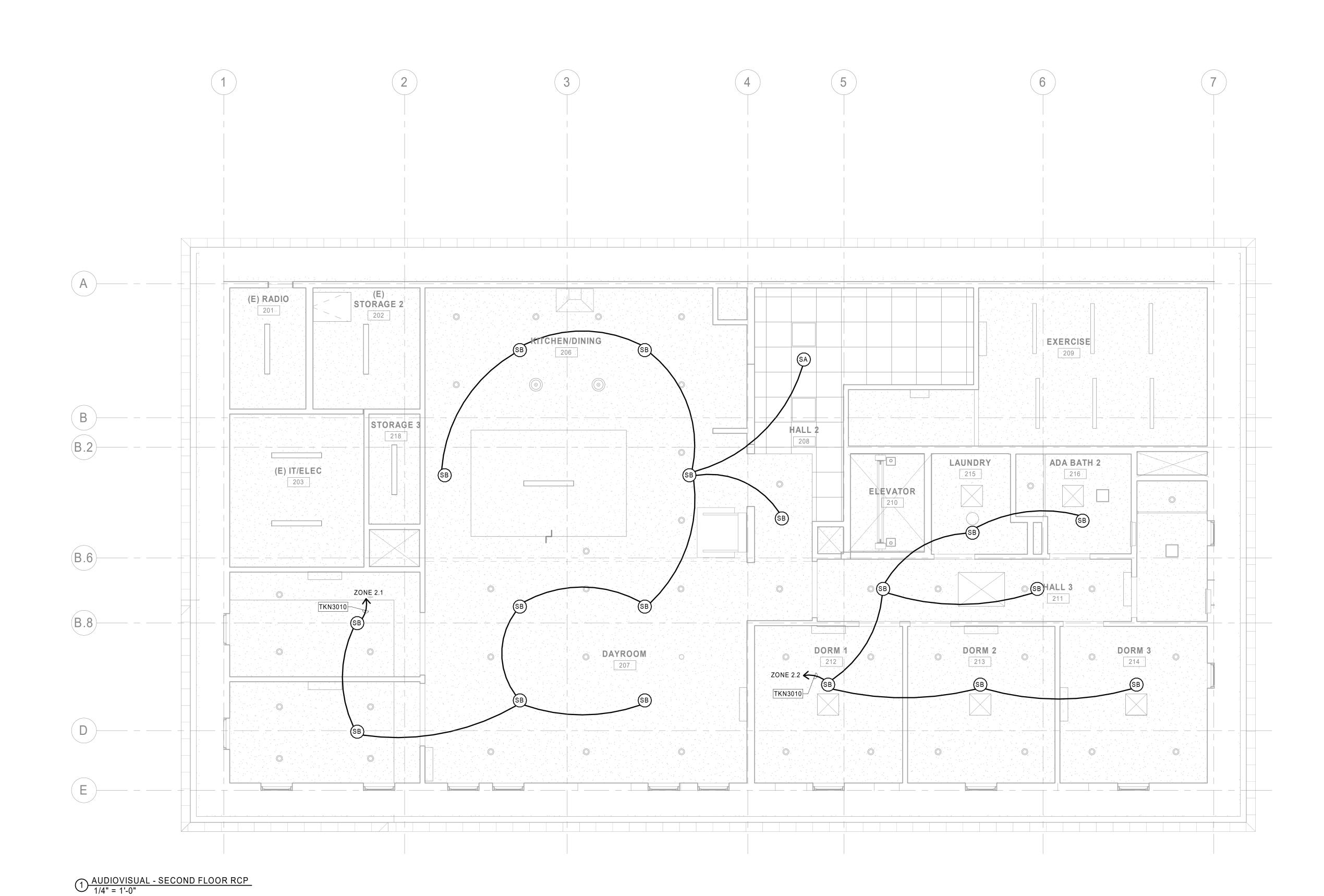
NO.	DESCRIPTION	DATE
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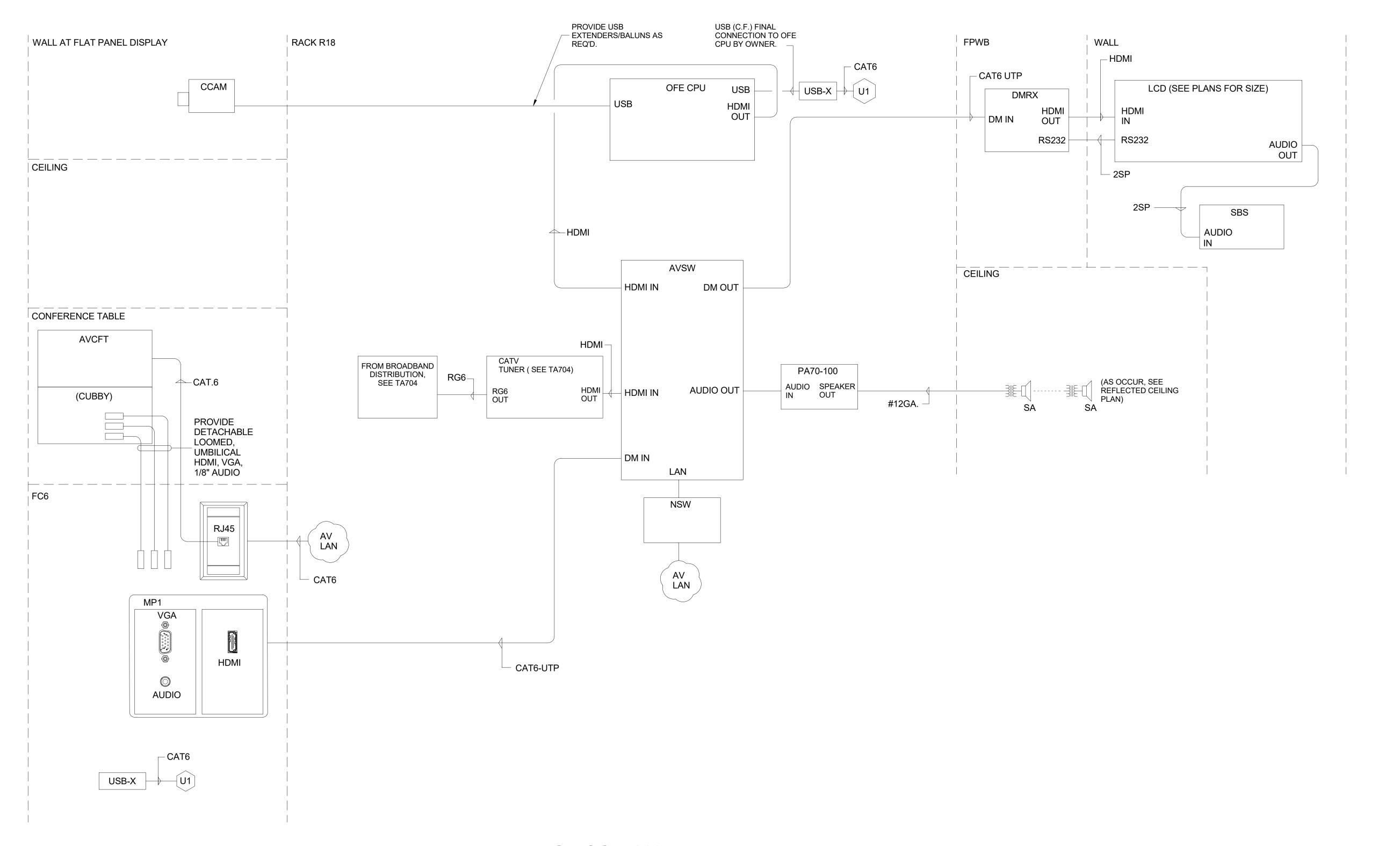
0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

AUDIOVISUAL - SECOND FLOOR RCP







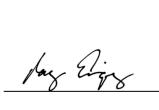
MEETING ROOM 111
AUDIOVISUAL FUNCTIONAL DIAGRAM

NTS

Fause
McDonald Inc.

351 8th Street, San Francisco, CA 94103
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03/11/2021 RAY

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NO.	DESCRIPTION	DATE
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0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

MEETING ROOM 111 AUDIOVISUAL FUNCTIONAL DIAGRAM



1 PUBLIC ADDRESS SINGLE LINE DIAGRAM
NTS

SHEET NOTES

- THE PAGING SYSTEM UTILIZES A 70V DISTRIBUTION SYSTEM. REFER TO SPEC. SECTION 27 51 16 FOR OTHER REQUIREMENTS.
- ON RECEIPT OF CLOSURE, WALL MTD VA AND VB ATTENUATORS DROP OUT OF CIRCUIT, PERMITTING UNATTENUATED SIGNAL TO PASS TO SPEAKERS.

KEYNOTES

- TN COMMUNICATIONS SYSTEMS COMPLY WITH DIVISION 27.
- (TKN1) RACK MOUNTED VOLUME CONTROL. SIZE TO MATCH CONNECTED LOAD.
- TKN2 PROVIDE TOA ZP-001T TELEPHONE ZONE PAGING MODULE TO BE USED TO RECEIVE PAGING INPUT FROM THE VOIP SYSTEM.

Smith, Fause McDonald Inc.

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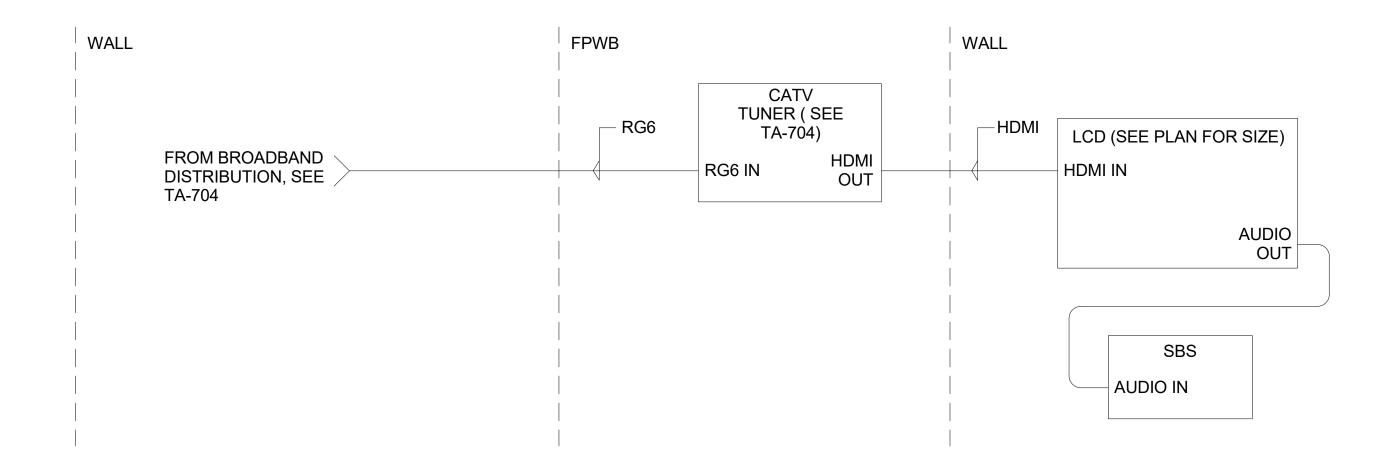
0000 KENSINGTON FIRE PROTECT PUBLIC SAFETY BUILDING

DESCRIPTION

PUBLIC ADDRESS SINGLE LINE DIAGRAM



DAYROOM & KITCHEN/DINING **AUDIOVISUAL FUNCTIONAL DIAGRAM**



EXERCISE ROOM 2 AUDIOVISUAL FUNCTIONAL DIAGRAM



www.sfmi.com_info@sfmi.com

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T: (650) 394-8869 **BKF ENGINEERS** 1646 N. CALIFORNIA BLVD STE 400

WALNUT CREEK, CA 94596

CONTACT: ERIC SWANSON T: (925) 940-2200 HALEY ALDRICH

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NO.	DESCRIPTION	DATE
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0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

DAYROOM, KITCHEN/DINING & EXERCISE ROOM AV FUNCTIONAL DIAGRAMS



RG6 LOSS AND EQUALIZATION							
	50 FEET	100 FEET	150 FEET	200 FEET	250 FEET	RANGE	
RG6 LOSS AT 55 MHZ	0.94	1.88	2.82	3.76	4.7	3.76	
RG6 LOSS AT 450 MHZ	2.14	4.28	6.42	8.56	10.7	8.56	
RG6 LOSS AT 750 MHZ	2.81	5.62	8.43	11.24	14.05	11.24	
STATION CABLE SLOPE	-1.87	-3.74	-5.61	-7.48	-9.35	7.48	
50 FT FEEDER SLOPE	-1.87	-1.87	-1.87	-1.87	-1.87		
BBIDA EQUALIZER SLOPE	6	6	6	6	6	0	

SHEET	NOTE
-------	-------------

WHERE CABLING IN PLENUM VOID IS NOT INSTALLED IN

APPROXIMATE RANGE OF 50 TO 100 FEET.

CONDUIT. PROVIDE PLENUM RATED CABLING. 3.76 8.56 11.24 **KEYNOTES** TKN AUDIO VISUAL SYSTEMS: COMPLY WITH DIVISION 27. BBSP4 OUTPUT PLUS CABLE SLOPE 2.26 0.39 -1.48 -3.35 -5.22 TILT EQUALIZER 0 0 6 RECEPTACLE TILT AT 750 MHZ 0.39 -1.48 -0.35 0.78 3.74 TKN1 REFER TO 'TV' PLATES ON PLANS FOR EXACT LOCATIONS AND QUANTITY. TKN2 PROVIDE TYPE RG6 TRIPLE SHIELD CABLE HOME RUN FROM EACH MATV DEVICE. TKN3 TERMINATE ALL UNUSED PORTS. BOND BROADBAND PASSIVES TO GROUND. TKN5 PROVIDE TYPE RG11 TRIPLE SHIELD CABLE. (TKN6) CONNECT DEVICES WITH CABLE LENGTH IN APPROXIMATE RANGE OF 200 TO 275 FEET. TKN7 CONNECT DEVICES WITH CABLE LENGTH IN APPROXIMATE RANGE OF 150 TO 200 FEET. TKN8 CONNECT DEVICES WITH CABLE LENGTH IN APPROXIMATE RANGE OF 100 TO 150 FEET. TKN9 CONNECT DEVICES WITH CABLE LENGTH IN

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DESCRIPTION ISSUED FOR PERMIT 04/01/2021 JOB NO.

0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

CATV & DBS SYSTEMS DISTRIBUTION SINGLE LINE DIAGRAMS



TA704

BACKBOARD MOUNT IN IT ROOM 203. SEE TN-401 $\overline{\mathsf{TKN2}}\overline{\mathsf{TKN6}}$ TILT $\overline{-\langle\mathsf{TKN2}\rangle\mathsf{TKN7}\rangle}$ 3dB 3dB PAD TILT -SP4 **CATV PROVIDER** BB BBIDA BBIDA HEAD-END EQUIPMENT 750-30 750-30 SP4 $\overline{-\langle\mathsf{TKN2}\rangle\mathsf{TKN8}\rangle}$ PAD (TKN5) (TKN4) TKN2 TKN9 PAD SP4 $rac{1}{rac{1}{8}}$ $ac{TKN3}$ TYP. $\langle \mathsf{TKN4} \rangle \mathsf{TYP}.$

TYP. AT SET LOCATIONS:

MEETING ROOM 111 KITCHEN/DINING ROOM 206 DAYROOM 207 EXERCISE ROOM 209 DORM 1 ROOM 212 DORM 2 ROOM 213 DORM 1 ROOM 214

SPLITTER IN NEAREST IDF (SEE **AV SWITCH** KEYNOTES TA6-TA9 FOR CATV-TUNER OR SET SPLITTER ATTACHMENT) ⟨TKN2⟩ HDMI –

CATV SYSTEM DISTRIBUTION SINGLE LINE DIAGRAM

NTS

REV	DESCRIPTION	REV BY	REV DATE	APP'D BY	DATE APP.
-	PRODUCTION RELEASE	//////	////////	JJP	03/08/02
Α	EC 041702-02	LM	04/17/02	JJP	04/18/02
В	EC 111502-01	LM	12/04/02	JJP	12/04/02
С	SEE EC 021003-02	RBM	02/11/03	JJP	02/12/03
D	SEE EC 052003-01	RBM	05/08/03	JJP	05/20/03
Е	SEE EC 071003-03	BKW	08/01/03	JJP	08/07/03
F	SEE EC 102803-01	NC	10/30/03	BKW	10/30/03
G	SEE EC 033004-05	BKW	06/04/04	RE	07/20/04
Н	SEE EC 111904-01	RBM	11/16/04	JJP	11/24/04
J	SEE EC 101805-05	RBM	10/13/05	JJP	10/31/05

	0 17 11702		0 17 10702	12	23.95 [60
LM	12/04/02	JJP	12/04/02		
RBM	02/11/03	JJP	02/12/03	13	25.70 [65
RBM	05/08/03	JJP	05/20/03	14	27.45 [69
BKW	08/01/03	JJP	08/07/03	15	29.20 [74
NC	10/30/03	BKW	10/30/03	16	30.95 [78
BKW	06/04/04	RE	07/20/04	17	32.70 [83
RBM	11/16/04	JJP	11/24/04		
RBM	10/13/05	JJP	10/31/05	18	34.45 [87
				19	36.20 [92
				20	37.95 [96
				21	39.70 [100
				22	41.45 [105
				23	43.20 [109
				24	44.95 [114
				25 *	46.70 [118
				26 *	48.45 [123
				1	1

KSPACES	OPENING		
12	23.95 [608]		
13	25.70 [653]		
14	27.45 [697]		
15	29.20 [742]		
16	30.95 [786]		
17	32.70 [831]		
18	34.45 [875]		
19	36.20 [920]		
20	37.95 [964]		
21	39.70 [1008]		

55.45 [1408]

17	32.70 [831]
18	34.45 [875]
19	36.20 [920]
20	37.95 [964]
21	39.70 [1008]
22	41.45 [1053]
23	43.20 [1097]
24	44.95 [1142]
25 *	46.70 [1186]
26 *	48.45 [1231]
27 *	50.20 [1275]
28 *	51.95 [1320]
29 *	53.70 [1364]

USEABLE

30 *

KEYNOTES

ARCHITECTURAL: DIVISIONS 3 THROUGH 14

FINISHED FLOOR, SEE ARCHITECTURAL DRAWINGS

FINISHED WALL, SEE ARCHITECTURAL DRAWINGS.

AKN3 NOT USED.

 $\langle AKN4 \rangle$ ARCHITECTURAL WOODWORK ELEMENT SHOWN AT THIS VIEW WITHOUT DOOR FOR CLARITY.

UNDER WORK OF SECTION 06400 ARCHITECTURAL WOODWORK, PROVIDE OPENINGS IN CASEWORK TO COORDINATE WITH AUDIO VISUAL TERMINAL CABINET, POWER RECEPTACLE, AND TELECOMMUNICATIONS RECEPTACLE TO ALLOW WIRING TO PASS TO THE INTERIOR OF THE CASEWORK ELEMENT. PROVIDE OPENINGS FOR HEAT MANAGEMENT.

ELECTRICAL: DIVISION 26.

QUADPLEX POWER RECEPTACLE, NEMA 5-15R. SEE ELECTRICAL (EKN1)

DRAWINGS FOR CIRCUITING.

AUDIOVISUAL SYSTEMS: COMPLY WITH DIVISION 27.

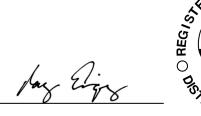
TKN1 PROVIDE 3' SIDE ACCESS. COORDINATE ACCESS IN FIELD WITH PROVIDED CASE WORK.

FASTEN R18 TO ARCHITECTURAL WOODWORK BOTTOM WITH 8 EACH #8 X 3/4" PAN HEAD SHEET METAL SCREWS, EACH WITH 1/4" FLAT WASHER, 4 SCREWS IN FRONT HOLES OF FIXED MOUNTING PAN AND 4 SCREWS IN REAR HOLES OF FIXED MOUNTING PAN.

Smith, McDonald Inc.

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03/11/2021 **RAY ENRIQUEZ REGIS. NO. 106011**

PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

EXPIRES 12/31/2022

PROJECT TEAM

CLIENT:

CIVIL:

KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

MARJANG ARCHITECTURE ARCHITECT: 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR

T. (415) 522-0600

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070

CONTACT: MATT FRANTZ T: (650) 394-8869 **BKF ENGINEERS**

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MONTEREY, CA 93940 CONTACT: RON BLUE T: (831) 373-4390

LIST ENGINEERING CO. 2 HARRIS CT STE A7

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET SAN FRANCISCO, CA 94103

CONTACT: PETER MCDONALD T: (415) 255-9140 ESTIMATOR: MICROESTIMATION INC.

850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

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JOB	NO.	

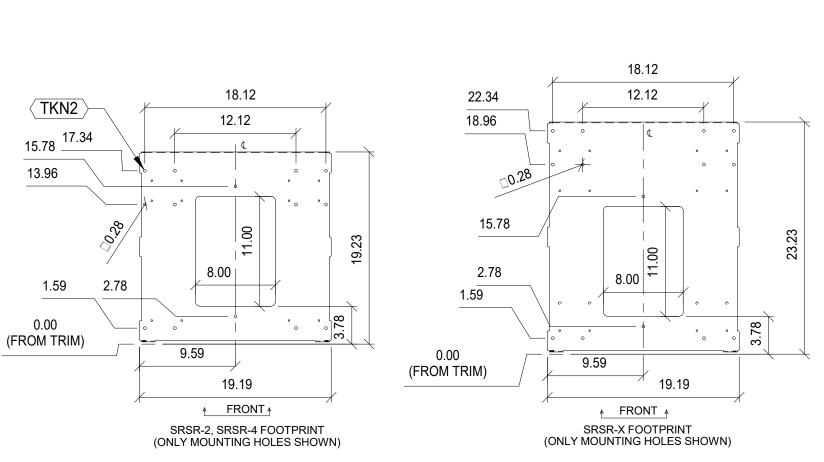
0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

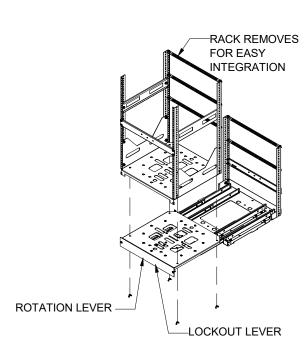
DETAILS - RACK R18



TA901



R18 FOOTPRINT (ONLY MOUNTING HOLES SHOWN)



TOP VIEW OPEN, SHOWN ROTATED 45°

4.00 [102]

MAXIMUM SETBACK
INTO WALL ALLOWS
77° ROTATION.

FLUSH ALLOWS 90°

5.6 [141] MINIMUM

CLEARANCE FOR ROTATION

USEABLE EQUIPMENT DEPTH

SOME DIMENSIONS ARE GIVEN FOR

[SRSR-2, SRSR-4] / [SRSR-X]

FOR SRSR-4 AND SRSR-X ONLY

TOP VIEW

BOTH SRSR AND SRSR-X IN THE FORM:

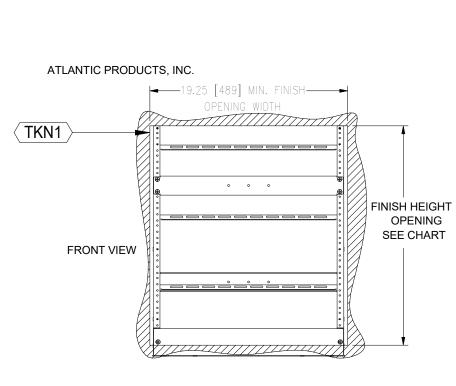
SIZES MARKED WITH A '*' ARE AVAILABLE

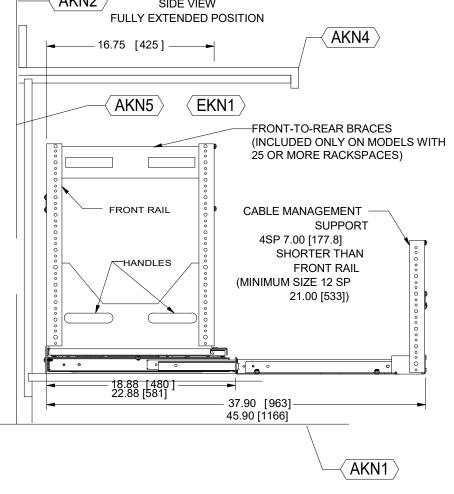
ALL DIMS ARE GIVEN IN THE FORMAT INCHES [MM]

NTS

17.25 [438] / 21.25 [540] = 2 [51] SETBACK

19.00 [483] / 23.00 [584] = 1/4 [6] SETBACK











SHEET NOTES

CONTRACTOR TO CONTACT FLOOR BOX MANUFACTURER FOR INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN.

KEYNOTES

AKN ARCHITECTURAL: DIVISIONS 3 THROUGH 14.

(AKN1) SLAB - SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

(AKN2) NOT USED.

MOISTURE BARRIER - SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

CARPET OR SCHEDULED FOOR FINISH. SEE ARCHITECTURAL DRAWINGS - EXTEND OVER FLOOR BOX INTO INSERTS.

EKN ELECTRICAL: DIVISION 26.

QUAD ELECTRICAL POWER - SEE ELECTRICAL DRAWINGS.

TKN COMMUNICATIONS SYSTEMS: CONFORM WITH DIVISION 27 AND 28.

TKN1 BOX ACCEPTS 2-1/8" DEEP MIN. DEVICES.

TKN2 CLASS 1/CLASS 2 BARRIER.

Smith, Fause McDonald Inc.

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RAY ENRIQUEZ

REGIS. NO. 106011

EXPIRES 12/31/2022

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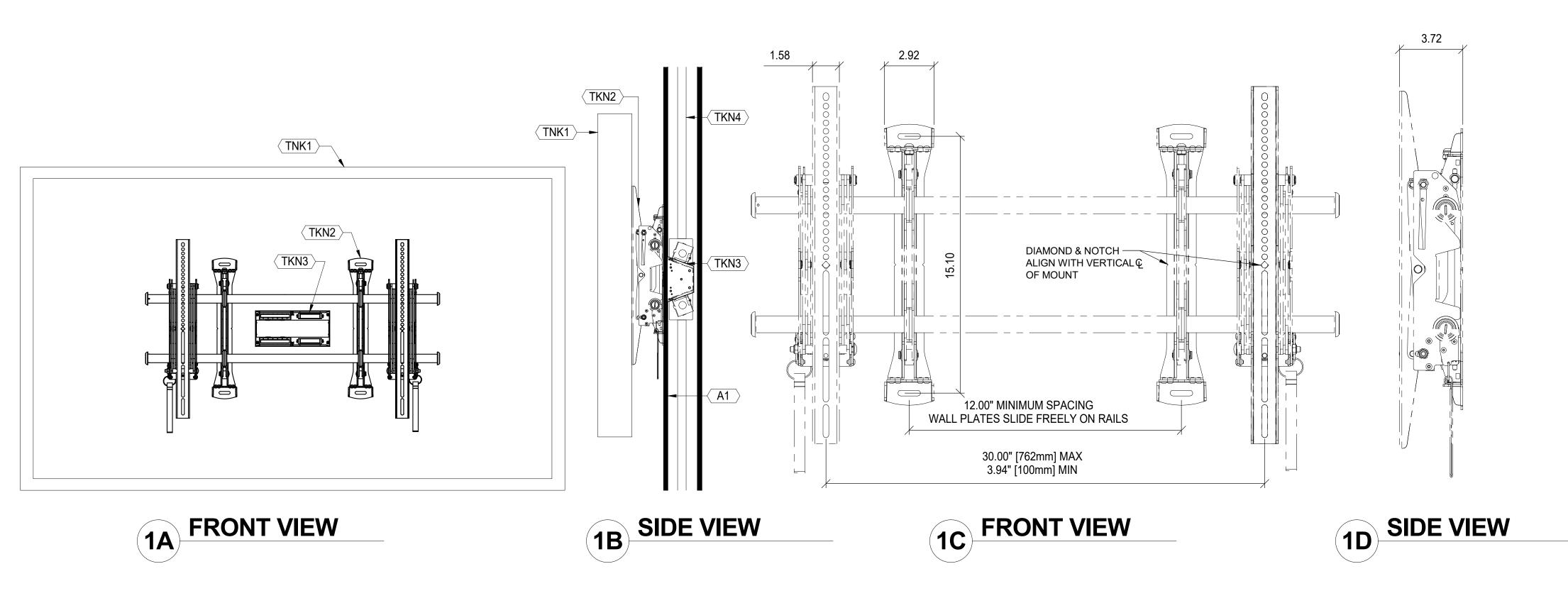
JOB NO.

0000 KENSINGTON FIRE PROTECTION DISTRICT
PUBLIC SAFETY BUILDING

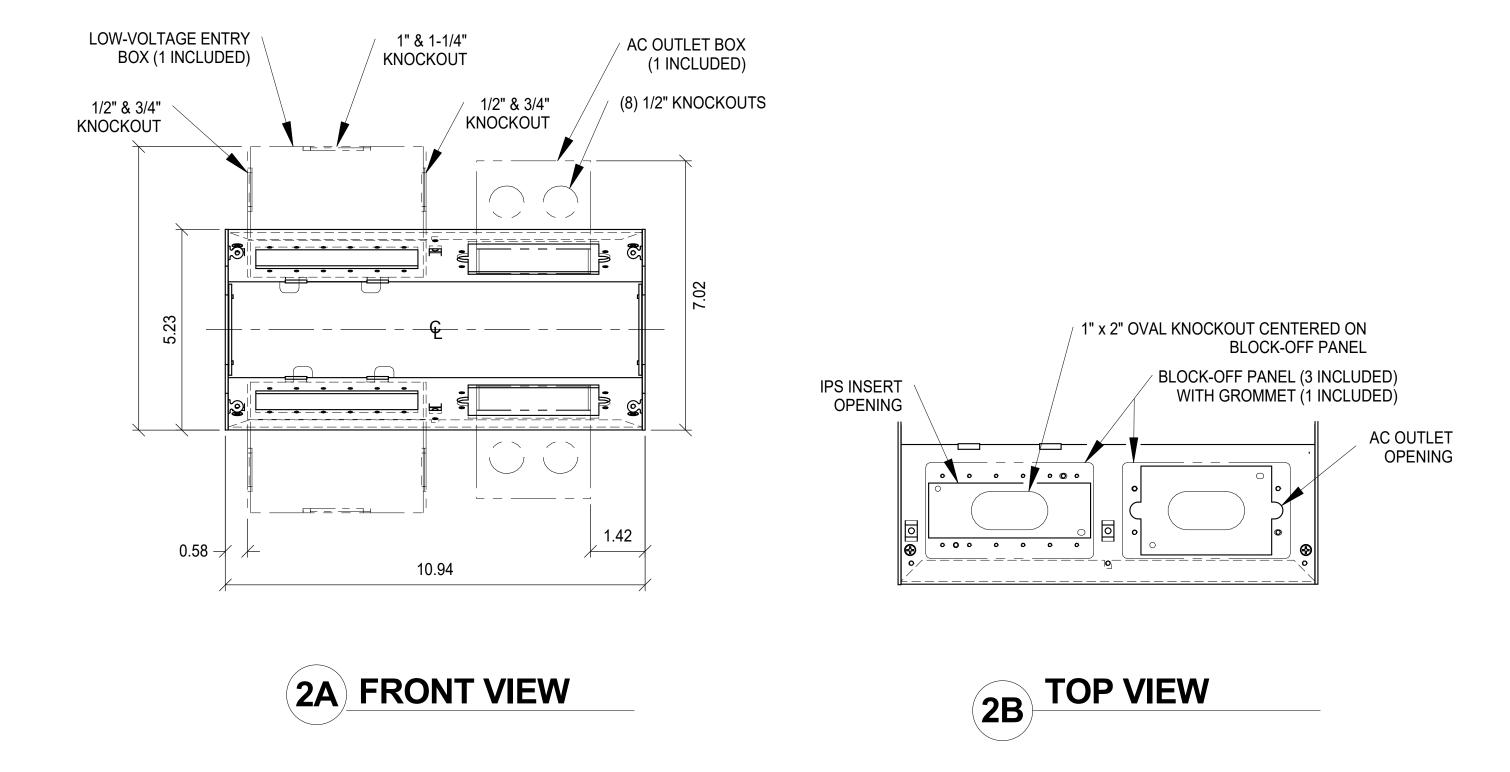
DESCRIPTION

DETAILS - FC6 FLOOR BOX

 \mathcal{D}



1 FLAT PANEL MOUNT ASSEMBLY
NTS



PLAT PANEL WALL BOX - FPWB
NTS

KEYNOTES

A ARCHITECTURAL: COMPLY WITH DIVISIONS 2-14.

A1 WALL CTKNITY WITH MINIMUM 200 LB. BACKING.

TKN TELECOMMUNICATIONS SYSTEMS: COMPLY WITH DIVISION 27.

TNK1 FLAT PANEL DISPLAY/LCD - NET WEIGHT NOT TO EXCEED 135 LBS.

FLAT PANEL MOUNT - NET WEIGHT NOT TO EXCEED 40 LBS.

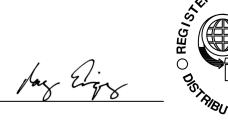
FLAT PANEL WALL BOX, FPWB1, RECESSED FLUSH IN WALL.

TKN3
IN-WALL CONDUIT RACEWAY.

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JOB NO.

0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

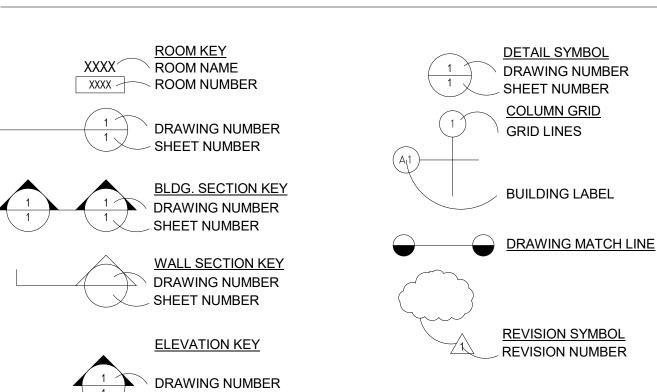
DETAILS - FPWB & FLAT PANEL MOUNT



COMMUNICATIONS SYSTEMS GENERAL NOTES

- 1 REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
- PROVIDE CONDUIT, BOXES AND FITTINGS SHOWN ON COMMUNICATIONS SYSTEMS (TN) SYSTEM DRAWINGS UNDER THE WORK OF SECTION 27 05 33 COMMUNICATIONS RACEWAYS, BOXES AND FITTINGS. UNLESS OTHERWISE INDICATED, PROVIDE 1 INCH TRADE SIZE MINIMUM . PROVIDE RACEWAY SIZE AS REQUIRED FOR A MAXIMUM OF 30 PERCENT WIRE FILL.
- 3 PROVIDE FIRESTOPPING UNDER THE WORK OF SECTION 27 05 33 COMMUNICATIONS RACEWAYS, BOXES AND FITTINGS.
- 4 LOCATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON THE COMMUNICATIONS SYSTEMS DRAWINGS.
- 5 DEVICE QUANTITIES SHOWN ON FLOOR PLANS AND REFLECTED CEILING PLANS TAKE PRECEDENCE OVER DEVICE QUANTITIES SHOWN ON FUNCTIONAL DIAGRAMS.
- 6 QUANTITIES SHOWN ON FUNCTIONAL DIAGRAMS TAKE PRECEDENCE OVER QUANTITIES SHOWN ON RACK ELEVATIONS.
- QUANTITIES SHOWN ON DEVICE SCHEDULES TAKE PRECEDENCE OVER QUANTITIES SHOWN ON FUNCTIONAL DIAGRAMS, FLOOR PLANS AND REFLECTED CEILING PLANS.
- 8 LOCATIONS SHOWN ON LARGE SCALE DRAWINGS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON SMALL SCALE DRAWINGS.

GENERAL SYMBOLS



MATERIAL & EQUIPMENT LEGEND

1IDP	1" INNERDUCT, PLENUM RATED
2IDP	2" INNERDUCT, PLENUM RATED
C5ePP	CATEGORY 5e PATCH PANEL
C6PP	CATEGORY 6 PATCH PANEL.
FOLLD	FIRED ORTIC CARLE LIVERID. DI

FIBER OPTIC CABLE HYBRID, PLENUM RATED

SHEET NUMBER

FOH-OPR FIBER OPTIC CABLE HYBRID, OUTSIDE PLANT RISER RATED FIBER OPTIC CABLE, MULTI MODE OUTSIDE PLANT RISER RATED FOM-OPR

FOS-OPR FIBER OPTIC CABLE, SINGLE MODE OUTSIDE PLANT RISER RATED

FIBER PATCH PANEL FIBER SPLICE CLOSURE

FSP FIBER SPLICE PANEL FIBER TERMINAL BOX FTB

IDF INTERMEDIATE DISTRIBUTION FACILITY

MDF MAIN DISTRIBUTION FACILITY. MM MULTI MODE OPTICAL FIBER MMP MULTIMEDIA PLATE **MPOE** MINIMUM POINT OF ENTRY OSP OUTSIDE PLANT

SINGLE MODE OPTICAL FIBER TELECOMMUNICATIONS CLOSET T.C.

UNSHIELDED TWISTED PAIR, CAT. 5e UTP5e-4

UTP5e-4P UNSHIELDED TWISTED PAIR, CAT. 5e PLENUM UNSHIELDED TWISTED PAIR, CAT. 5e OUTSIDE PLANT

UNSHIELDED TWISTED PAIR, CAT. 6 UTP6-4P UNSHIELDED TWISTED PAIR, CAT. 6 PLENUM UTP6-4OP UNSHIELDED TWISTED PAIR, CAT. 6 OUTSIDE PLANT 110TBXX 110 TERMINAL BLOCK, CAT.5, XX-NO OF PAIRS

110PWTBXX 110 TERMINAL BLOCK, PRE-WIRED W/50 PIN CONNECTOR, XX- NO OF PAIRS

PWC3PP PRE-WIRED, 50 PIN CONNECTOR (REAR) & RJ45 (FRONT) CAT.3 PATCH PANEL

TERMINAL BLOCK WITH 15 AMP SWITCH BLADE.

NOTE:

SEE SPECIFICATION SECTIONS FOR REFERENCE DESCRIPTIONS AND REQUIREMENTS. FOR OTHER MATERIAL AND EQUIPMENT

TYPES REFER TO SPECIFICATIONS.

LEGEND

T-OPD



SURFACE RACEWAY.

TELEPHONE CABLE, OUTSIDE PLANT, DUCTWAY

FOR COMMUNICATIONS AND POWER SYSTEM PROVIDED UNDER DIV. 27.

MARK INDICATES RACEWAY DROP FROM CEILING. COORDINATE EXACT LOCATION WITH DIV. 27 PLANS.

NEW WIRE AND/OR CABLE IN EXPOSED CONDUIT OR RACEWAY. FILL PER SCHEDULE, PLANS

AND SPECIFICATION SECTION 27 05 33. NEW WIRE AND/OR CABLE INSIDE NEW CONDUIT WALLS OR IN CEILING

CABLE/RACEWAY TURNS UP

CABLE/RACEWAY TURNS DOWN

CONDUIT TO CABLE TRANSITION POINT

EXPOSED CABLE UNDER CEILING SUPPORTED BY CLIPS ____ ECT____ OR STAPLES @ 1'-0" O.C.

HOME RUN

701 WIRING NOTES $\langle TKN1 \rangle$ KEYNOTES

CABLE RUNWAY OR CABLE TRAY. TYPE & SIZE AS INDICATED ON PLANS AND SPECIFICATIONS SECTION 27 05 36.

JUNCTION BOX SCHEDULE

SYMBOL	H (INCHES)	W (INCHES)	D (INCHES)
J1	6	6	4
J2	8	8	4
J3	12	12	4
J4	12	12	6
J5	12	12	8
J6	16	12	8
J7	18	18	6
J8	20	16	6
J9	20	16	8
J10	20	20	6
J11	20	20	8
J12	24	20	6
J13	24	20	8
J14	24	24	8
J15	30	24	8
J16	30	30	8
J17	36	30	8
J18	36	36	8
J19		24	6
J20	48	36	6
	48		
J21	48	48	6
J22	8	8	8
J23	10	10	8
J24	12	12	8
J25	16	12	8
J26	18	12	8
J28	18	18	8
J29	24	12	8
J30	24	18	8
J31	24	20	8
J32	24	24	8
J33	30	24	8
J34	30	30	8
J35	36	24	8
J36	36	30	8
J37	36	36	8
J38	12	12	10
J39	18	12	10
J40	18	18	10
J41	24	12	10
J42	24	18	10
J43	24	24	10
J44	30	24	10
J45	30	30	10
J46	36	24	10
J47	36	36	10
J48	12	12	12
J49	18	18	12
J50	24	12	12
J51	24	18	12
J52	24	24	12
J53	30	24	12
J54	30	30	12
J55	36	24	12
J56	48	48	12
J57	30	30	16
J58	48	48	16
J59	48	48	16
SUFFIX:			

SUFFIX:

NONE - NEMA 1

D - NEMA 4X

A - NEMA 12 B - NEMA 3R C - NEMA 4

ALL JUNCTION BOXES TO BE HINGED TYPE, PROVIDED WITHOUT PRE-PUNCHED KNOCKOUTS. PENETRATIONS IN JUNCTION BOXES SHALL BE CUT OR PUNCHED AS REQUIRED FOR INSTALLATION. PAINT ALL INTERIOR BOXES TO MATCH WALL FINISH. COORDINATE FINISH WITH ARCH. PLANS.

SYMBOL	H (1) (1) (1)	W	D (1) (2)
J1	(INCHES)	(INCHES)	(INCHES)
J2	8	8	4
J3	12	12	4
J4	12	12	6
J5	12	12	8
J6	16	12	8
J7	18	18	6
J8	20	16	6
J9	20	16	8
J10	20	20	6
J11	20	20	8
J12	24	20	6
J13	24	20	8
J14	24	24	8
J15	30	24	8
J16	30	30	8
J17	36	30	8
J18	36	36	8
J19	48	24	6
J20	48	36	6
J21	48	48	6
J22	8	8	8
J23	10	10	8
J24	12	12	8
J25	16	12	8
J26	18	12	8
J28	18	18	8
J29	24	12	8
J30	24	18	8
J31	24	20	8
J32	24	24	8
J33	30	24	8
J34	30	30	8
J35	36	24	8
J36	36	30	8
J37	36	36	8
J38	12	12	10
J39	18	12	10
J40	18	18	10
J41	24	12	10
J42	24	18	10
J43	24	24	10
J44	30	24	10
J45	30	30	10
J46	36	24	10
J47	36	36	10
J48	12	12	12
J49	18	18	12
J50	24	12	12
J51	24	18	12
J52	24	24	12
J53	30	24	12
J54	30	30	12
J55	36	24	12
J56	48	48	12
J57	30	30	16
J58	48	48	16
J59	48	48	16

ABBREVIATIONS

1SR-1	SINGLE CHAMBER SURFACE RACEWAY
3SR-2.5	THREE CHAMBER SURFACE RACEWAY
A.D.A.	AMERICANS WITH DISABILITIES ACT
ADF	AREA DISTRIBUTION FACILITY
A.F.C.	ABOVE FINISHED CEILING
A.F.F.	ABOVE FINISHED FLOOR
ALT	ALTERNATE
A.M.F.F.	ABOVE MEZZANINE FINISHED FLOOR
BDF	BUILDING DISTRIBUTION FACILITY
B.F.C.	BELOW FINISHED CEILING
BLDG.	BUILDING
P Q H	

BACK OF HOUSE CONDUIT CAT. CATEGORY

CALIFORNIA BUILDING CODE CBC

CALIFORNIA ELECTRICAL CODE COMM. COMMUNICATIONS C.L. CENTERLINE **CONDUIT ONLY** C.O. CONT CONTINUATION

COMMUNICATIONS SYSTEM (D) DEMOLISH EXISTING DED **DEDUCTIVE** DIAMETER DIVISION

EXISTING (E) EACH EA. **ELECTRONIC INDUSTRIES ASSOCIATION**

ELEV. **ELEVATION END OF LINE** E.O.L **EQUIPMENT** FIN FINISHED **FUTURE** HOME RUN H.R.

HEIGHT JUNCTION BOX LAN LOCAL AREA NETWORK MASTER ANTENNA TELEVISION

MAXIMUM MAX. MINIMUM MOD. **MODULAR**

MON. **MONUMENT** NEW NATIONAL ELECTRICAL CODE

NOT IN CONTRACT NOT TO SCALE O.C. ON CENTER O.D. **OUTSIDE DIAMETER** OWNER FURNISHED EQUIPMENT

OPPOSITE OPP. **PROJECT**

PROJECT STANDARD RECEPTACLE HEIGHT +18" AFF, U.O.N. PROJECT STANDARD SWITCH HEIGHT +48" AFF TO \(\frac{1}{2} \), U.O.N.

RE: REFER TO REF. REFERENCE SIMILAR

SINGLE MODE OPTICAL FIBER

SHEET NOTE

SHIELDED PAIR - SEE SPECIFICATIONS

SPECIFICATION SURFACE RACEWAY S.R. STD STANDARD

STP SHIELDED TWISTED PAIR T.C. TELECOMMUNICATIONS CLOSET

TEL TELEPHONE

TELCOM TELECOMMUNICATIONS

TELECOMMUNICATIONS INDUSTRY ASSOCIATION TELEPHONE CABLE, OUTSIDE PLANT, DUCTWAY

TWISTED PAIR TYP. **TYPICAL**

UNLESS OTHERWISE NOTED WITH

WEATHERPROOF



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REGIS. NO. 106011

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NO.	DESCRIPTION	DATE
	100% DESIGN DEVELOPMENT	12/17/20
	ISSUED FOR PERMIT	04/01/20
JOB	NO.	

0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

GENERAL NOTES, LEGEND, SYMBOLS, ABBREVIATIONS AND JBOX SCHEDULE



SYMBOL	DEVICE	FUNCTION OR SERVICE	LOCATION	WORK OF	ROUGH-IN	RACEWAY	ELEVATION	CABLE FILL & HOMERUN DESTINATION, U.O.N.	FINISH	WEIGHT, LB	DETAIL SHEET(S)
[—]	WALL SLEEVE/CONDUIT	PATHWAY	INDICATED	27 05 33	N/A	R5					
FC6	FLOOR BOX, CONCRETE SLAB, FOR AUDIO VISUAL.	AUDIO VISUAL	FLUSH IN FLOOR. COORDINATE EXACT LOCATION/DIMENSION WITH THE ARCHITECT.		FLOOR BOX FC6 WITH MANUFACTURERS "POUR PAN" TO PROTECT AT SLAB ON GRADE CONDITIONS.	R4	FLUSH IN FLOOR	AS SCHEDULED	COORDINATE COVER TYPE WITH ARCHITECT. SUBMIT CUT-SHEETS.		
3D <u>₩</u>	DATA AND VOICE DEVICE PLATE. DN1	COMMUNICATIONS	INDICATED		PROVIDE ONE (1) 5" SQUARE x 2.875" DEEP BOX WITH 1 GANG RING EQUAL TO RANDL INDUSTRIES 5 SQUARE.	R3	+18" AFF TO CL, U.O.N.	AS SCHEDULED	WHITE		
1B	BROADBAND VIDEO DEVICE PLATE. DN2	COMMUNICATIONS	INDICATED	28 05 33, 27 15 00	PROVIDE ONE (1) 5" SQUARE x 2.875" DEEP BOX WITH 1 GANG RING EQUAL TO RANDL INDUSTRIES 5 SQUARE.	R3	INDICATED	1 TRIPLE SHIELD RG6 COAX			
	FLOOR MOUNTED STATION CABLING/SWITCH RACK, 2 POST, 44 RU, SEISMIC RATED.	COMMUNICATIONS	FLOOR	27 11 16			BOLT TO SLAB		BLACK	250	
R28	FLOOR MOUNTED SERVER CABINET, 44 RU MIN, 30" WIDE MAX, 42" DEEP, 4 POST, SEISMIC RATED.	COMMUNICATIONS	FLOOR	27 11 16			BOLT TO SLAB.		BLACK	500	

RACEWAY NOTES

ACCESSIBLE CEILING.

ACCESSIBLE CEILING.

IN ACCESSIBLE CEILING.

NOTE NO. DEVICE NOTES

SUBSCRIPT INDICATES QUANTITY OF CATEGORY 6 CABLES PROVIDED AT WAO. **EXAMPLE**: 2D REPRESENTS 2 CAT6 CABLES AND JACKS TERMINATED AT THE INDICATED

WAO AND SERVING TR.

SUBSCRIPT INDICATES QUANTITY OF COAX CABLES PROVIDED AT WAO. BROADBAND VIDEO CABLING IS RG-6. **EXAMPLE**:

1B IS 1 RG-6 TERMINATED AT THE INDICATED WAO AND SERVING TR.

LOCATION NOTES

FLUSH IN FLOOR. COORDINATE EXACT LOCATION/DIMENSION WITH ARCHITECTURAL PLANS.

FOR AV, (2) 1-1/4" C TO 4 GANG COMPARTMENT STUBBED TO ACCESSIBLE CEILING. FOR TELECOM, (1) 1-1/4" TO 1 GANG COMPARTMENT AND HOMERUN THE CONDUIT UNDER THE SLAB DIRECTLY TO THE SERVING BDF OR IDF ROOM. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL ROUGH-IN.

3/4" C. STUBBED UP TO ACCESSIBLE CEILING. PROVIDE J-HOOKS AT 4' O.C. IN

1" C. STUBBED UP TO ACCESSIBLE CEILING. PROVIDE J-HOOKS AT 4' O.C. IN

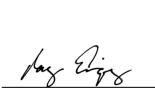
1.25" C. STUBBED UP TO ACCESSIBLE CEILING. PROVIDE J-HOOKS AT 4' O.C.

UNLESS OTHERWISE SHOWN, PROVIDE (1) 4" EMT SLEEVE, WITH INSULATED THROAT BUSHING AT EACH END, STUBBED OUT 4 INCHES FROM FACE OF WALL, AT ELEVATION APPROXIMATELY 6 INCHES ABOVE ACCESSIBLE CEILING. INSTALL SLEEVE IN AN ACCESSIBLE LOCATION AS DEFINED IN CALIFORNIA ELECTRICAL CODE, ARTICLE 100 DEFINITIONS. PROVIDE FIRESTOPPING UNDER WORK OF SECTION 27 05 33. BOND TO GROUND. COMPLY WITH DIVISION 26 AND SECTION 27 05 26 GROUNDING.

ACCESSIBLE CEILING IS A T-BAR OR SIMILAR GRID BASED, PANELIZED REMOVABLE CEILING MEETING THE DEFINITION FOR ACCESSIBLE WIRING METHODS IN ARTICLE 100 OF THE CALIFORNIA ELECTRICAL CODE.



STAMP





03/11/2021

REGIS. NO. 106011 EXPIRES 12/31/2022

PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

CLIENT: KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR T. (415) 522-0600

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANTZ

T: (650) 394-8869

BKF ENGINEERS 1646 N. CALIFORNIA BLVD STE 400 WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200

HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS

2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE T: (831) 373-4390

T: (510) 879-4544

LIST ENGINEERING CO.

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET SAN FRANCISCO, CA 94103

CONTACT: PETER MCDONALD T: (415) 255-9140

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

NO.	DESCRIPTION	DATE
	100% DESIGN DEVELOPMENT	12/17/202
	ISSUED FOR PERMIT	04/01/202

0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

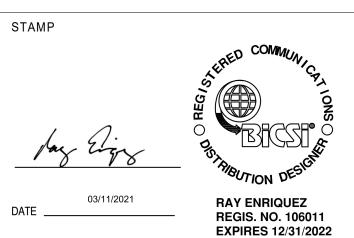
DESCRIPTION SYMBOL SCHEDULE



PROVIDE 12"x12"x4"D NEMA BOX WITH HINGED COVER AND (1) 2" C. STUB CONDUIT UP TO THE ROOF. PROVIDE SERVICE ENTRANCE WEATHERHEAD FITTING ON TOP OF THE CONDUIT.

TKN1075 MOUNT INSIDE THE FPWB. SEE TA202.





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ARCHITECT: MARJANG ARCHITECTURE
930 COLE STREET STE 101
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STRUCTURAL: ZFA STRUCTURAL ENGINEERS
1390 EL CAMINO REAL STE 100
SAN CARLOS, CA 94070

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WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200 GEOTECH: HALEY ALDRICH

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LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940

351 8TH STREET

SAN FRANCISCO, CA 94103

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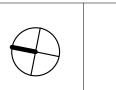
ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

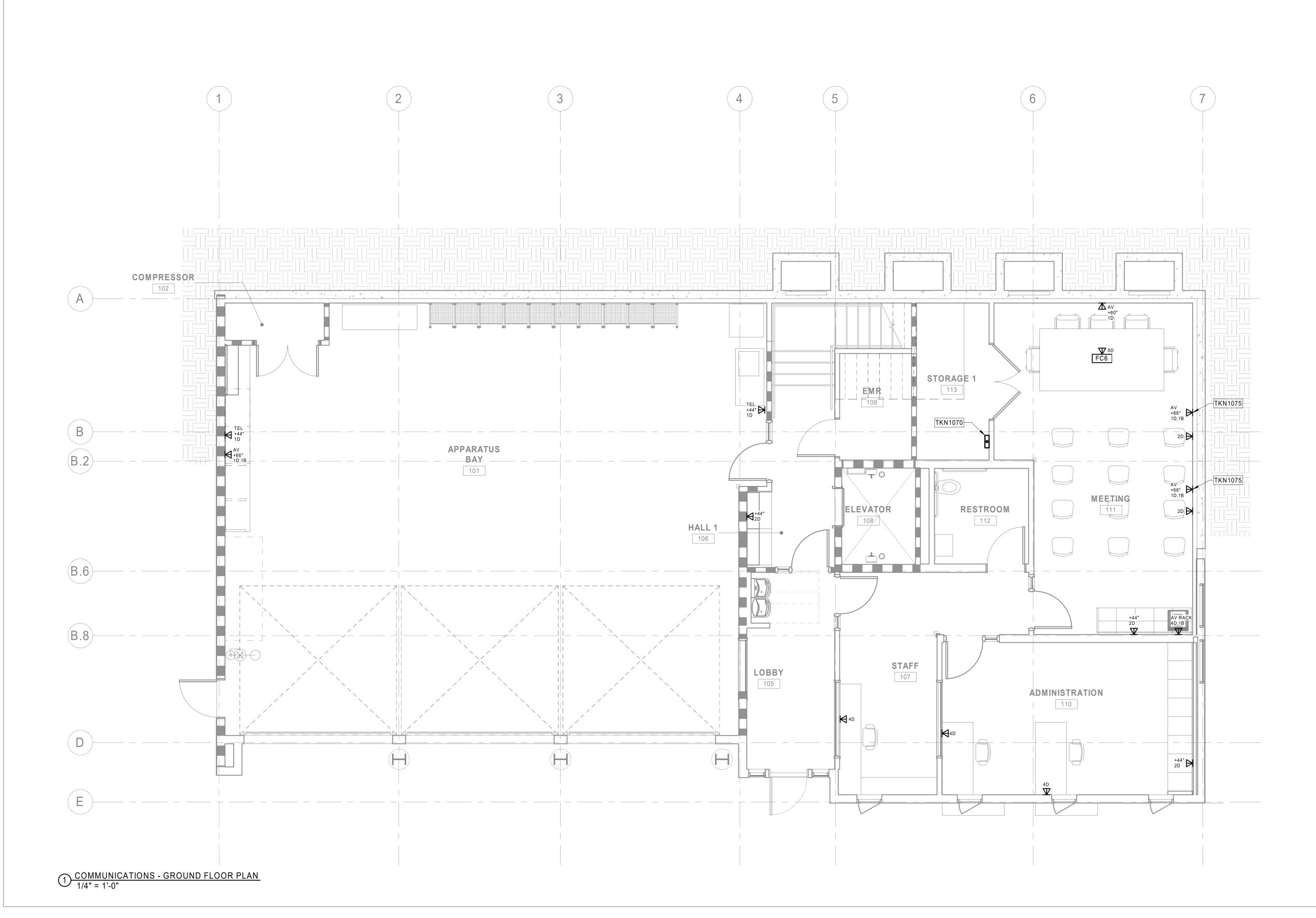
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	ISSUED FOR PERMIT	04/01/20

0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

COMMUNICATIONS - GROUND FLOOR PLAN







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RAY ENRIQUEZ REGIS. NO. 106011 EXPIRES 12/31/2022

www.sfmi.com info@sfmi.com

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CIVIL:

KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE CLIENT: KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR T. (415) 522-0600

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070

CONTACT: MATT FRANTZ T: (650) 394-8869

BKF ENGINEERS 1646 N. CALIFORNIA BLVD STE 400

WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200

GEOTECH: HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS T: (510) 879-4544

> MONTEREY, CA 93940 CONTACT: RON BLUE T: (831) 373-4390

LIST ENGINEERING CO. 2 HARRIS CT STE A7

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC.

351 8TH STREET
SAN FRANCISCO, CA 94103
CONTACT: PETER MCDONALD
T: (415) 255-9140

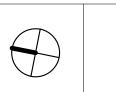
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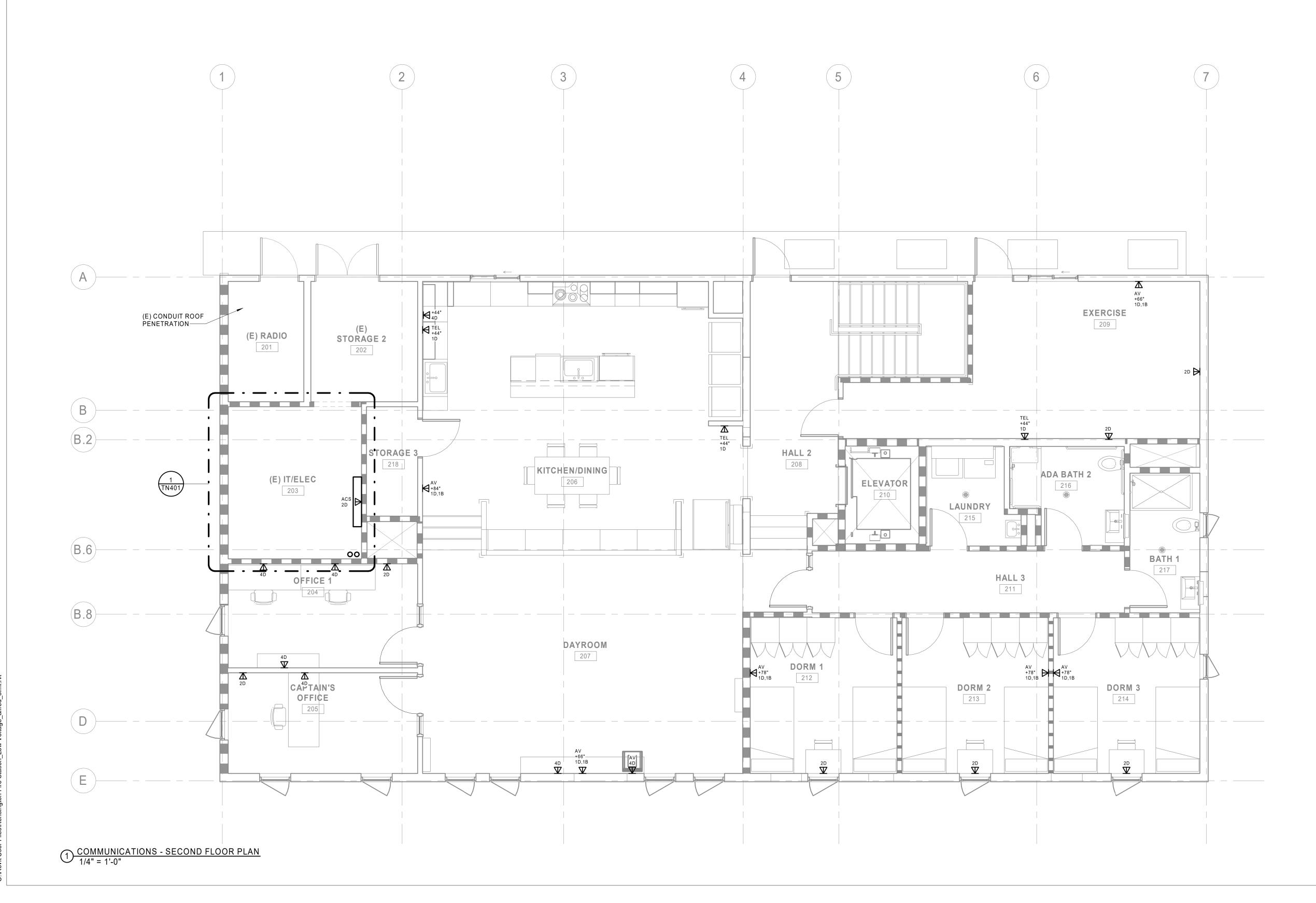
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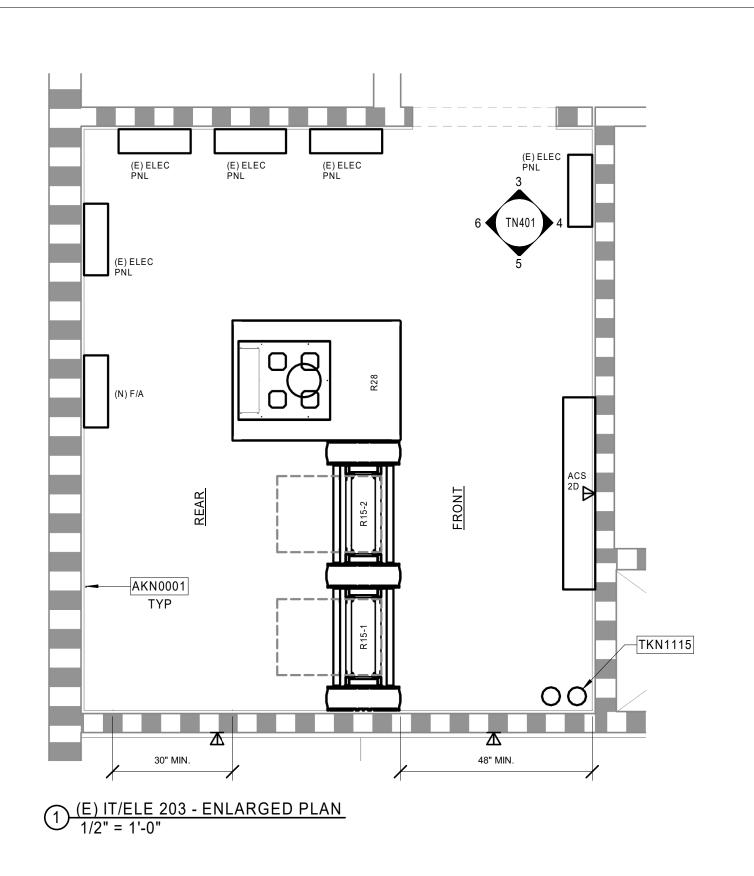
0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

COMMUNICATIONS - SECOND FLOOR PLAN

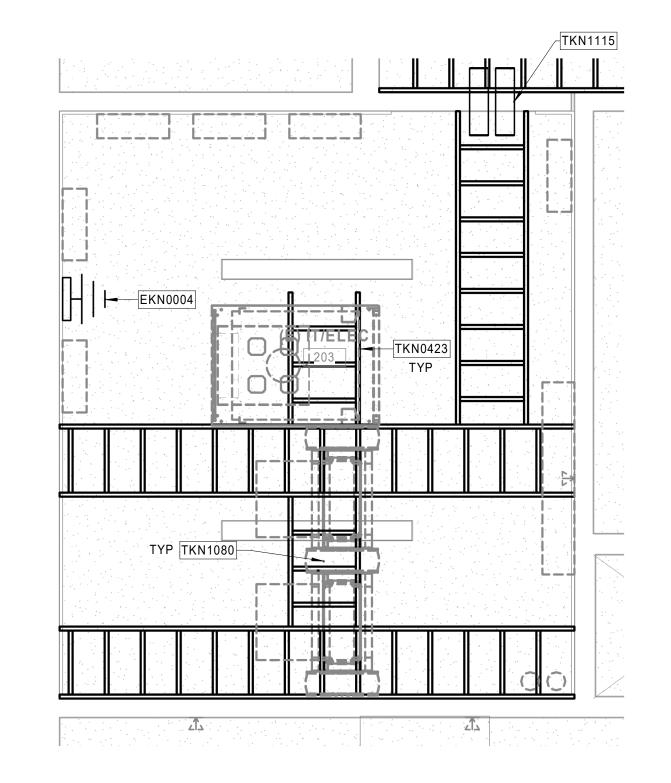


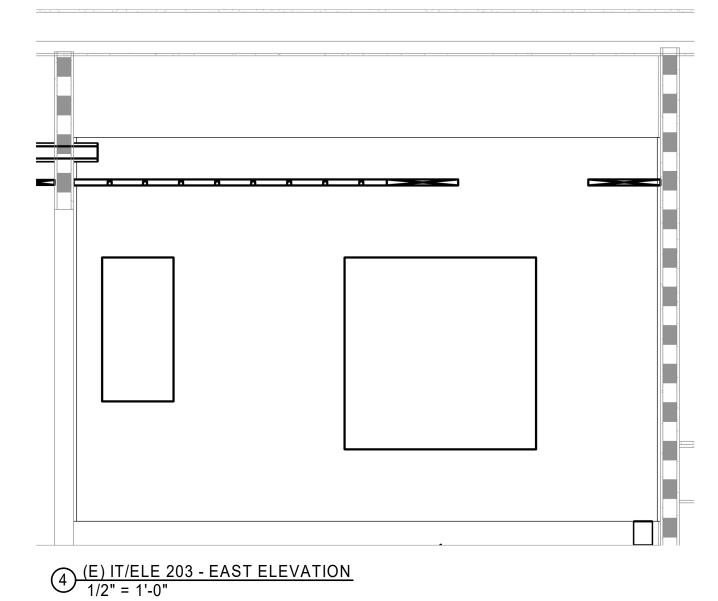


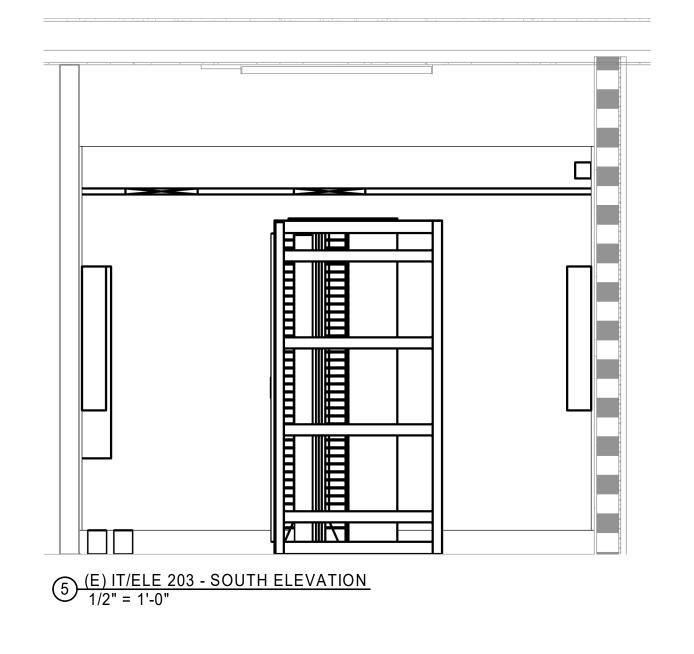


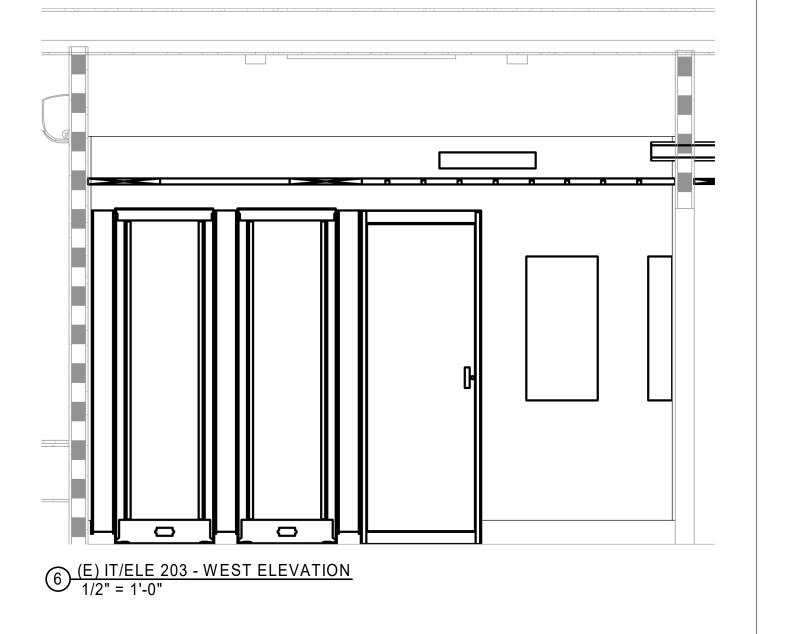
(E) IT/ELE 203 - NORTH ELEVATION
1/2" = 1'-0"

00









KEYNOTES

PROVIDE 3/4" THICK, FIRE-RESISTANT TREATED

THE PERIMETER OR 4 SIDES OF THE ROOM. PAINT, COLOR WHITE. TRIM TO FIT. LEAVE ONE FIRE RATING

STAMP PER SHEET OF PLYWOOD UNPAINTED. SEE

ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

EKN0004 SB-477-K. MOUNT ON THE BACKBOARD AT APPROX +84"

TKN0423 FROM CEILING/STRUCTURE. MOUNT BOTTOM @ 7'-6"

TKN1080 PROVIDE WATERFALL DROPOUTS FOR EACH RACK, TYP. TKN1115 PROVIDE (2) 4" C. FIRESTOP CONDUIT PENETRATIONS.

A.F.F., BELOW THE CABLE TRAY

PLYWOOD BACKBOARD FROM 6" A.F.F. TO 8'-6" A.F.F, IN

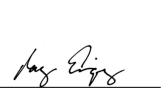
PROVIDE GROUNDING BUS BAR EQUIVALENT TO B-LINE

PROVIDE 18" WIDE CABLE RUNWAY (CR-18) SUPPORTED



351 8th Street, San Francisco, CA 94103 (415) 255-9140 Fax (415) 255-9180 www.sfmi.com info@sfmi.com

STAMP





REGIS. NO. 106011 EXPIRES 12/31/2022

E _____

PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

CLIENT:

KENSINGTON FIRE
PROTECTION DISTRICT
217 ARLINGTON AVE
KENSINGTON, CA 94707
CONTACT: BILL HANSELL
T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE
930 COLE STREET STE 101
SAN FRANCISCO, CA. 94117
CONTACT: KAREN MAR
T. (415) 522-0600

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070

> T: (650) 394-8869 BKF ENGINEERS 1646 N. CALIFORNIA BLVD STE 400

CONTACT: MATT FRANTZ

WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200 EOTECH: HALEY ALDRICH

1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS T: (510) 879-4544

2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE T: (831) 373-4390

LIST ENGINEERING CO.

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET SAN FRANCISCO, CA 94103

CONTACT: PETER MCDONALD T: (415) 255-9140

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

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	ISSUED FOR PERMIT	04/01/202

0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

(E) IT/ELE 203 - ENLARGED PLAN, RCP & ELEVATIONS



TKN0009 4" C.

PROVIDE (2) 4" C. MOUNTED ON THE UNDERSIDE OF THE HIGHER CEILING OF THE APPARATUS BAY. FIRESTOP CONDUIT PENETRATIONS.

TKN1115 PROVIDE (2) 4" C. FIRESTOP CONDUIT PENETRATIONS.



STAMP **RAY ENRIQUEZ** REGIS. NO. 106011

EXPIRES 12/31/2022

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BKF ENGINEERS 1646 N. CALIFORNIA BLVD STE 400 WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200

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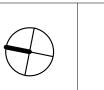
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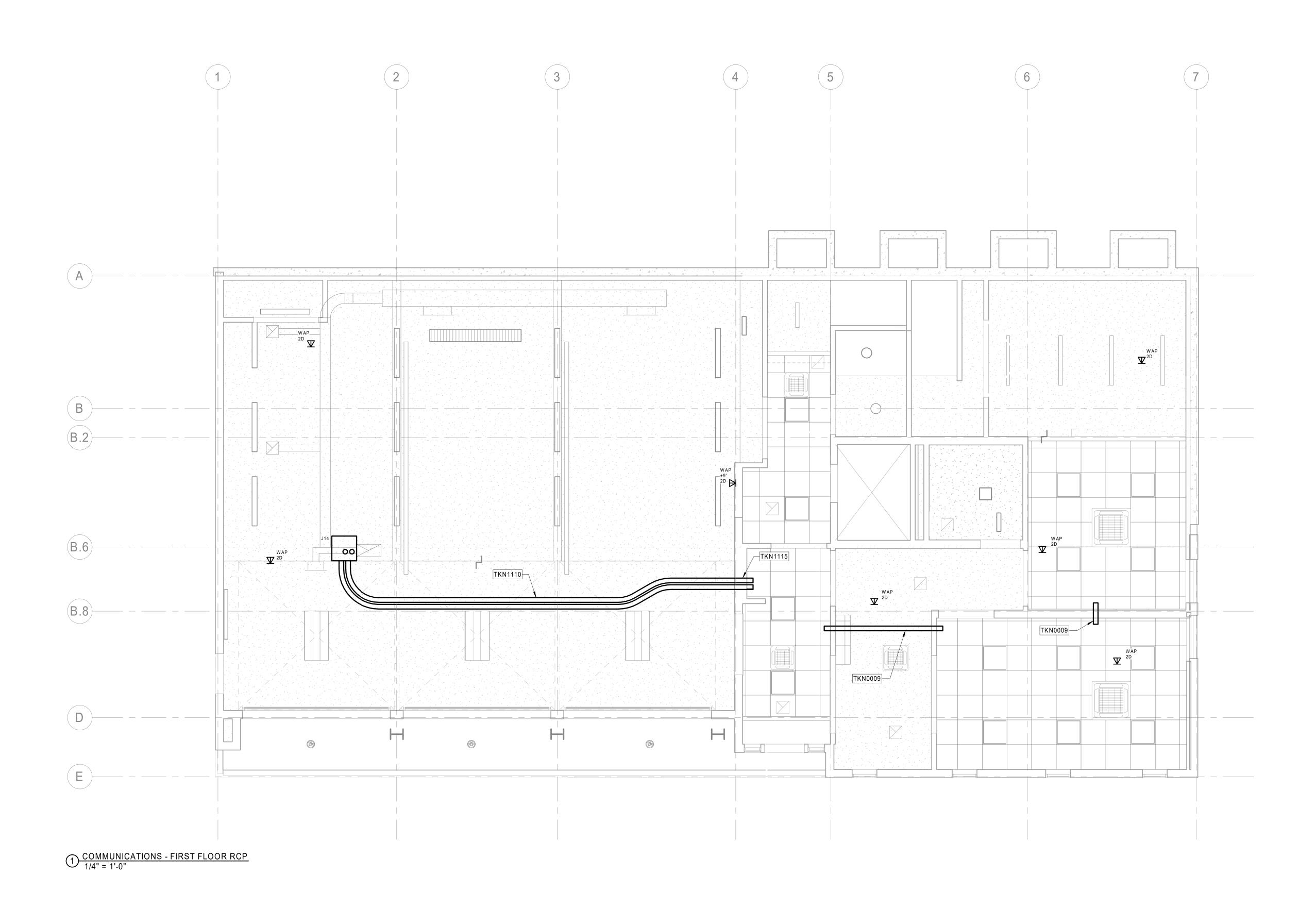
NO.	DESCRIPTION	DATE
	ISSUED FOR PERMIT	04/01/202
JOB	NO.	
0	000 KENSINGTON FIRE PROTECT	ION DISTRICT

KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

COMMUNICATIONS - FIRST FLOOR RCP





TKN0019 (2) 4" C.

PROVIDE 12" WIDE CABLE RUNWAY (CR-12) SUPPORTED FROM CEILING/STRUCTURE. MOUNT BOTTOM @ 7'-6"

Smith, McDonald Inc. 351 8th Street, San Francisco, CA 94103 (415) 255-9140 Fax (415) 255-9180 www.sfmi.com info@sfmi.com

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STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANTZ

T: (650) 394-8869 BKF ENGINEERS 1646 N. CALIFORNIA BLVD STE 400

WALNUT CREEK, CA 94596

CONTACT: ERIC SWANSON T: (925) 940-2200 GEOTECH: HALEY ALDRICH 1956 WEBSTER ST #300

OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS T: (510) 879-4544 LIST ENGINEERING CO.

T: (831) 373-4390 AUDIO/VISUAL: SMITH FAUSE MCDONALD INC.

2 HARRIS CT STE A7 MONTEREY, CA 93940 CONTACT: RON BLUE

351 8TH STREET
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CONTACT: PETER MCDONALD
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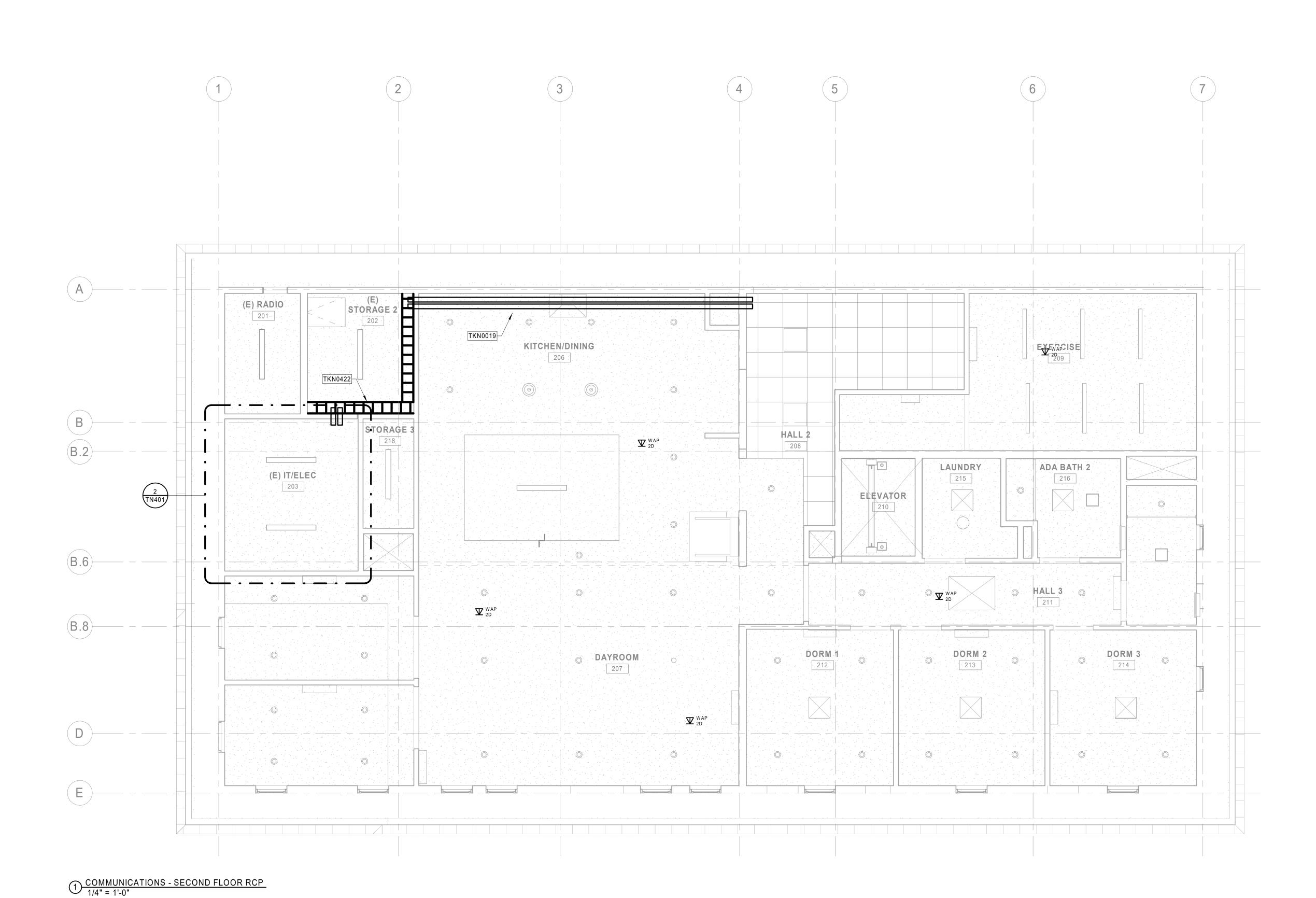
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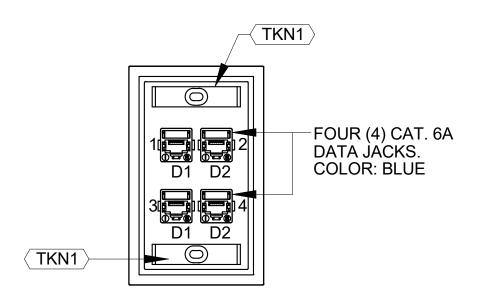
DESCRIPTION

COMMUNICATIONS - SECOND FLOOR RCP



2D OUTLET

 \langle TKN1 \rangle



4D OUTLET

1 2 TWO (2) CAT.6A DATA JÁCKS. **COLOR: BLUE**

PROVIDE BLANK

COVERS

TEL HANDSET IS N.I.C. WALL MOUNTED TEL. MOUNTING STUDS PROVIDE STAINLESS STEEL PLATE. PROVIDE RJ-45 CAT.6A JACK CLEAR

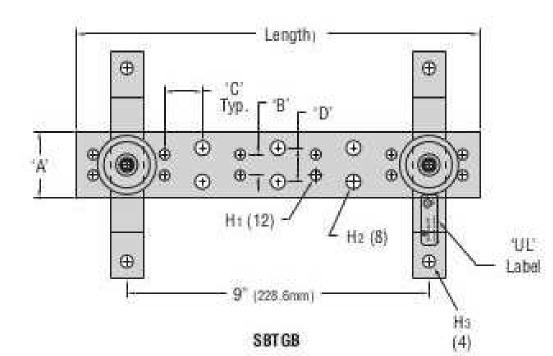
NTS

NTS

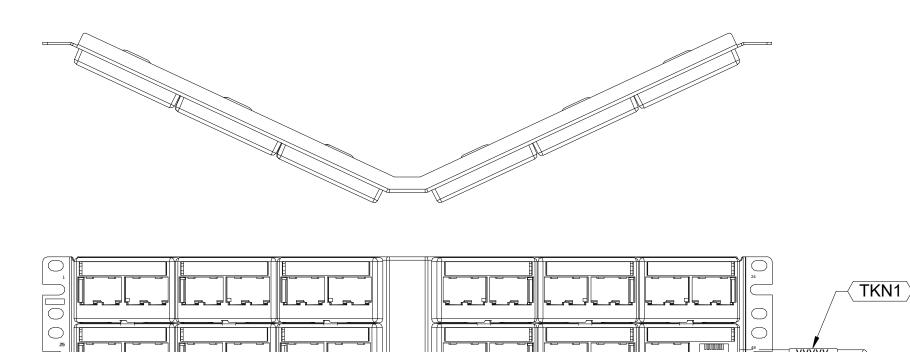
1V OUTLET

12"

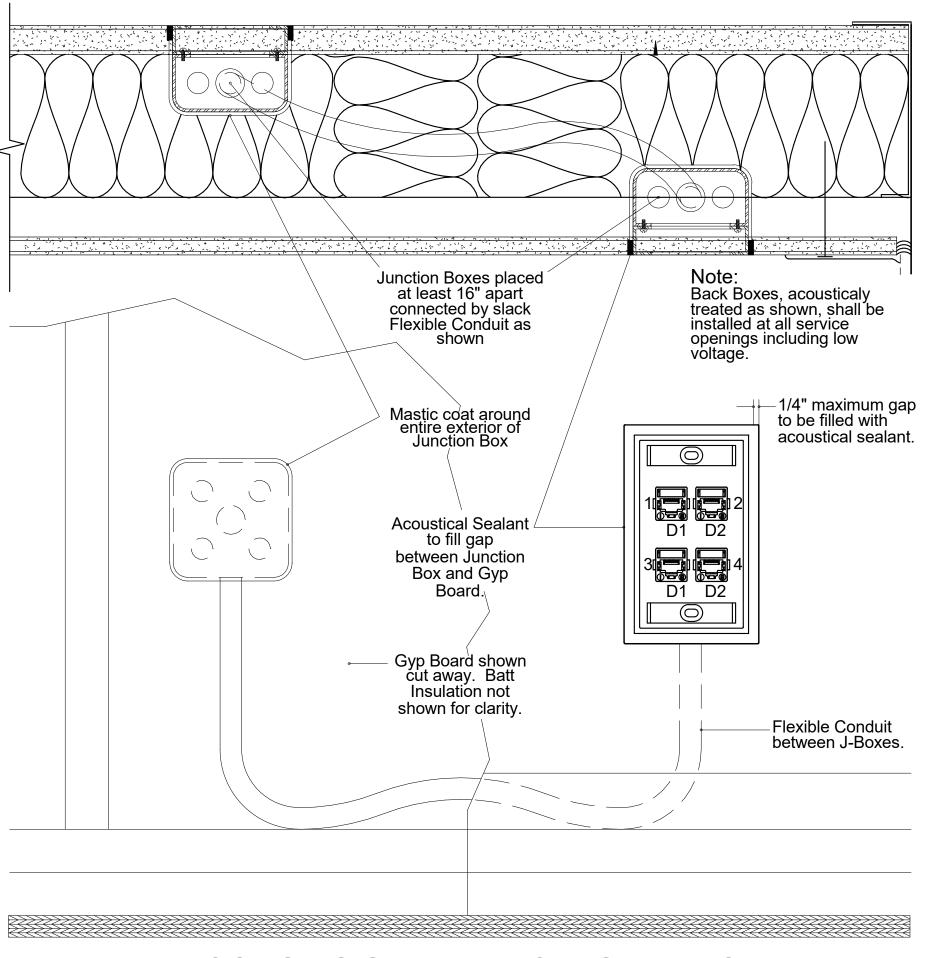
CLEAR



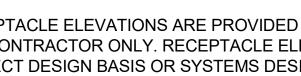
GROUNDING BUS BAR DETAIL



PATCH PANEL AND CABLE LABELING



ACOUSTIC SEALANT & INSULATION AT INTERIOR PARTITIONS NTS



- RECEPTACLE ELEVATIONS ARE PROVIDED AS A CONVENIENCE FOR THE CONTRACTOR ONLY. RECEPTACLE ELEVATIONS GENERALLY REFLECT DESIGN BASIS OR SYSTEMS DESIGN BASIS ALTERNATES. CONTRACTOR TO COORDINATE ELEVATION WITH ALTERNATE
- RECEPTACLE ELEVATIONS MAY BE INCOMPLETE, REFER TO RECEPTACLE SCHEDULE FOR COMPLETE DETAILS.
- WHERE RECEPTACLE ELEVATIONS AND RECEPTACLE SCHEDULE CONFLICT. RECEPTACLE SCHEDULE TAKES PRECEDENCE OVER RECEPTACLE ELEVATIONS.

KEYNOTES

NTS

[52.3]

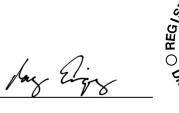
SHEET NOTES

- TKN TELECOMMUNICATIONS SYSTEMS, WORK OF DIVISIONS 27.
- TKN1 LABEL THE OUTLET WITH THE IDF ROOM NUMBER, ROOM NUMBER OF THE WORK AREA, STATION NUMBER, JACK NUMBER (PREFIXED WITH TYPE "V" FOR VOICE, "D" FOR DATA) (EXAMPLE: "109 122-1-V1" WHERE "109" IS THE IDF, "122" IS THE ROOM WHERE THE JACK IS LOCATED, "1" IS THE STATION LOCATION, "V1" IS THE 1ST VOICE JACK IN THAT PARTICULAR WALL PLATE.
- TKN2 LABEL THE CABLE AND PATCH PANEL PORTS. MATCH THE JACKS LABEL.
- TKN3 PROVIDE 12" CLEAR ON ALL SIDES IN ORDER TO MOUNT THE TEL HANDSET. COORDINATE WITH ELECTRICAL AND SECURITY CONTRACTORS. HANDSET IS N.I.C.



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CONTACT: MATT FRANTZ T: (650) 394-8869 **BKF ENGINEERS**

WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON

1646 N. CALIFORNIA BLVD STE 400

T: (925) 940-2200 HALEY ALDRICH

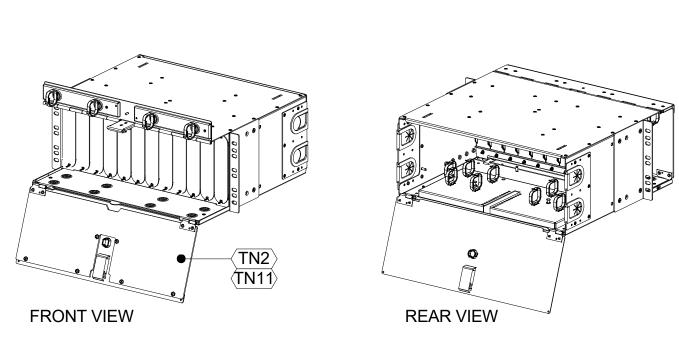
1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS T: (510) 879-4544

MONTEREY, CA 93940 CONTACT: RON BLUE T: (831) 373-4390

AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD

LIST ENGINEERING CO. 2 HARRIS CT STE A7

T: (415) 255-9140 ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

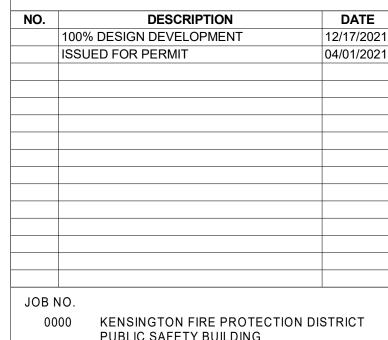


FIBER PATCH PANEL

TWO PORT SMB

NTS

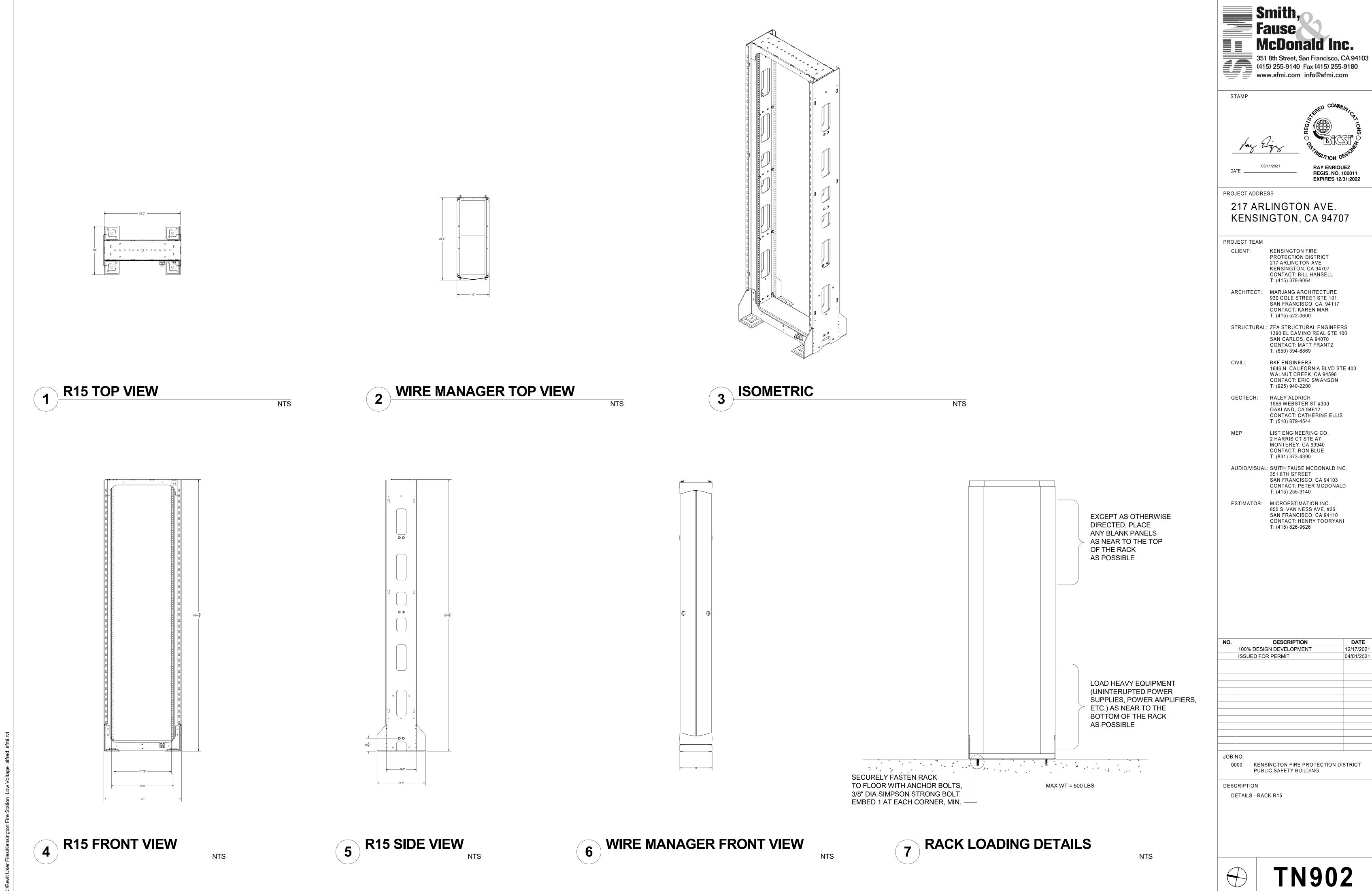
NTS

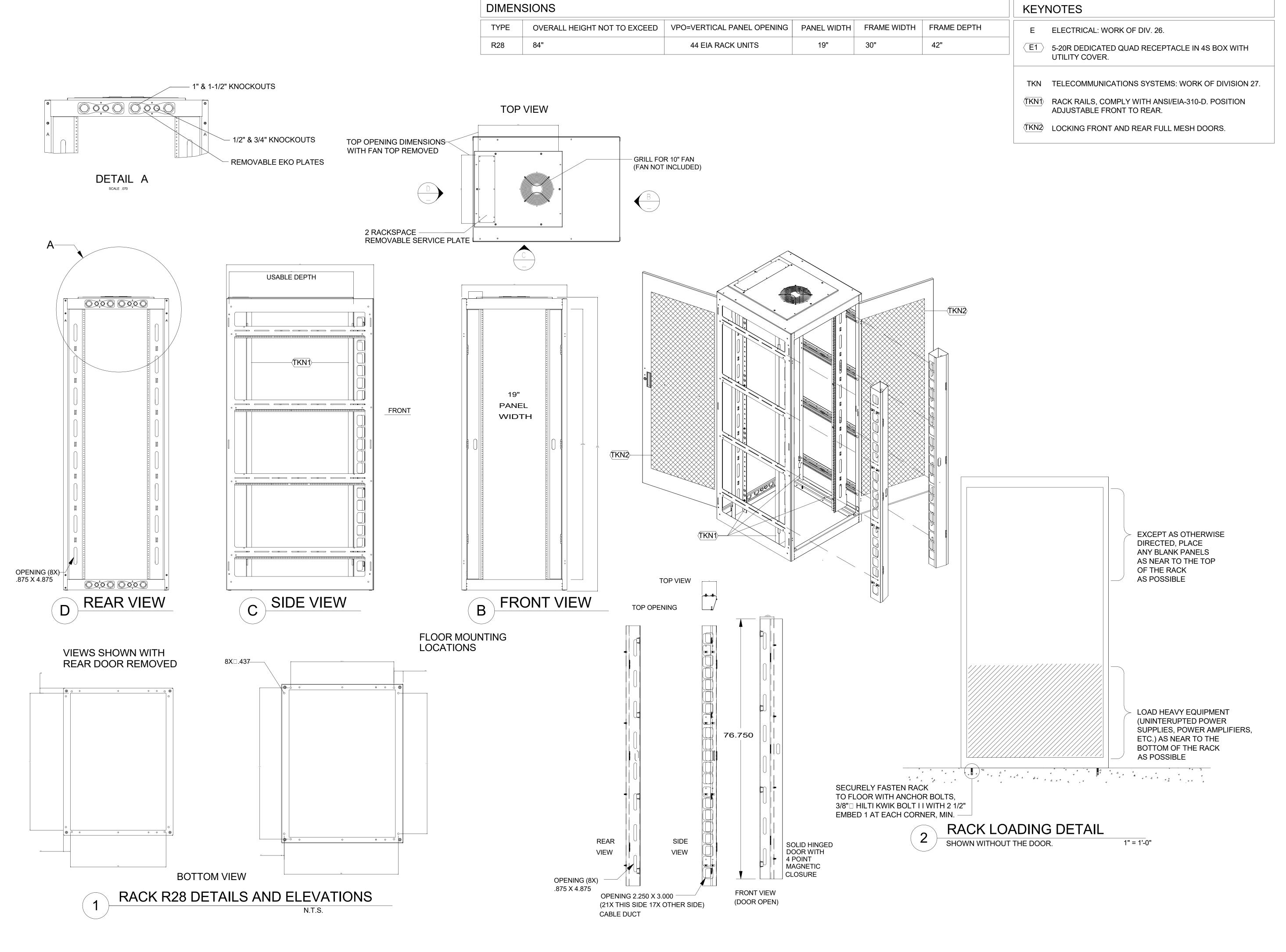


PUBLIC SAFETY BUILDING

DESCRIPTION DETAILS - DEVICES



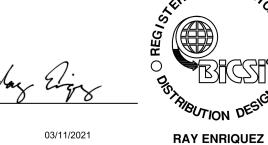






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ARCHITECT: MARJANG ARCHITECTURE
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CONTACT: MATT ERANTZ

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WALNUT CREEK, CA 94596

1646 N. CALIFORNIA BLVD STE 400

CONTACT: ERIC SWANSON T: (925) 940-2200 GEOTECH: HALEY ALDRICH 1956 WEBSTER ST #300

1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS T: (510) 879-4544

MONTEREY, CA 93940 CONTACT: RON BLUE T: (831) 373-4390 AUDIO/VISUAL: SMITH FAUSE MCDONALD INC.

LIST ENGINEERING CO. 2 HARRIS CT STE A7

351 8TH STREET
SAN FRANCISCO, CA 94103
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ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

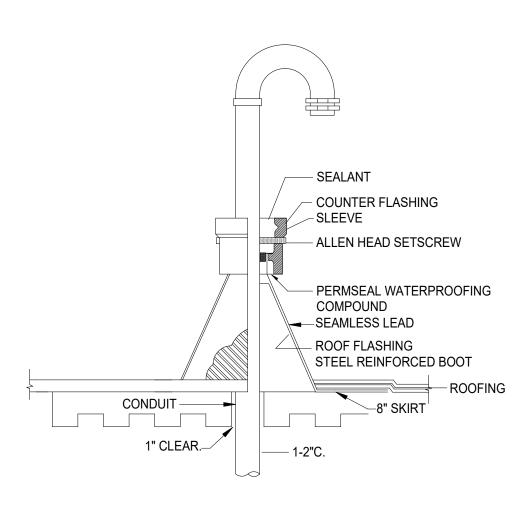
NO.	DESCRIPTION	DATE
	ISSUED FOR PERMIT	04/01/2021
IOB	NO	

0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

DETAILS - RACK R28





1 DETAILS - ROOF ENTRANCE WEATHERHEAD



STAMP



03/11/2021 RAY ENRIQUEZ
REGIS. NO. 106011
EXPIRES 12/31/2022

PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

PROJECT TEAM

CIVIL:

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PROTECTION DISTRICT
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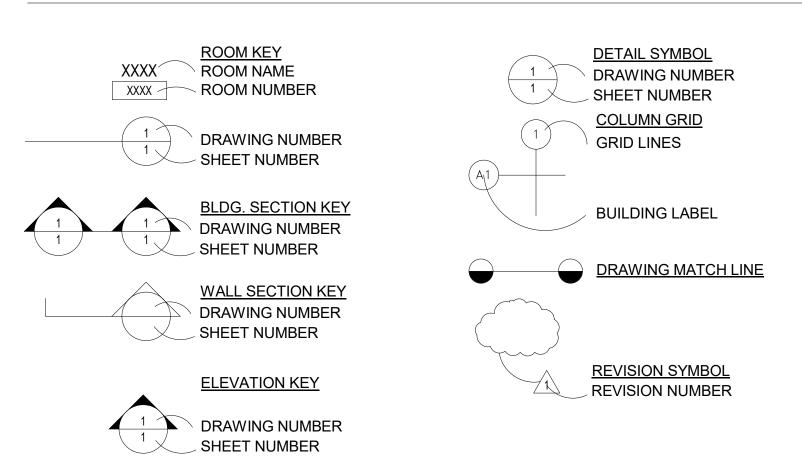
DETAILS - OUTSIDE PLANT



ELECTRONIC SECURITY SYSTEMS GENERAL NOTES

- 1 REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
- PROVIDE CONDUIT, BOXES AND FITTINGS SHOWN ON ELECTRONIC SECURITY SYSTEMS (TY)
 SYSTEM DRAWINGS UNDER THE WORK OF SECTION 28 05 28 PATHWAYS FOR ELECTRONIC SAFETY
 AND SECURITY. UNLESS OTHERWISE INDICATED, PROVIDE 1 INCH TRADE SIZE MINIMUM. PROVIDE
 RACEWAY SIZE AS REQUIRED FOR A MAXIMUM OF 30 PERCENT WIRE FILL.
- 3 PROVIDE FIRESTOPPING UNDER THE WORK OF SECTION 28 05 28 PATHWAYS FOR ELECTRONIC SAFETY AND SECURITY.
- 4 LOCATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON THE COMMUNICATIONS SYSTEMS DRAWINGS.
- DEVICE QUANTITIES SHOWN ON FLOOR PLANS AND REFLECTED CEILING PLANS TAKE PRECEDENCE OVER DEVICE QUANTITIES SHOWN ON FUNCTIONAL DIAGRAMS.
- 6 QUANTITIES SHOWN ON FUNCTIONAL DIAGRAMS TAKE PRECEDENCE OVER QUANTITIES SHOWN ON RACK ELEVATIONS.
- 7 QUANTITIES SHOWN ON DEVICE SCHEDULES TAKE PRECEDENCE OVER QUANTITIES SHOWN ON FUNCTIONAL DIAGRAMS, FLOOR PLANS AND REFLECTED CEILING PLANS.
- 8 LOCATIONS SHOWN ON LARGE SCALE DRAWINGS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON SMALL SCALE DRAWINGS.
- 9 NOT USED.
- WIRING FOR THE WORK OF ELECTRONIC SECURITY SYSTEMS IS NOT PERMITTED TO SHARE CONDUIT, SLEEVES OR J-HOOKS WITH WIRING FOR WORK OF DIVISION 27. MAINTAIN AT LEAST 2 INCHES SEPARATION IF RUNNING PARALLEL. MAINTAIN AT LEAST 3 INCHES OF SEPARATION VERTICALLY IF CROSSING AT RIGHT ANGLES.

GENERAL SYMBOLS



MATERIAL & EQUIPMENT LEGEND

MULTI MODE OPTICAL FIBER

SEE SPECIFICATION SECTIONS FOR REFERENCE DESCRIPTIONS AND REQUIREMENTS. FOR OTHER MATERIAL AND EQUIPMENT

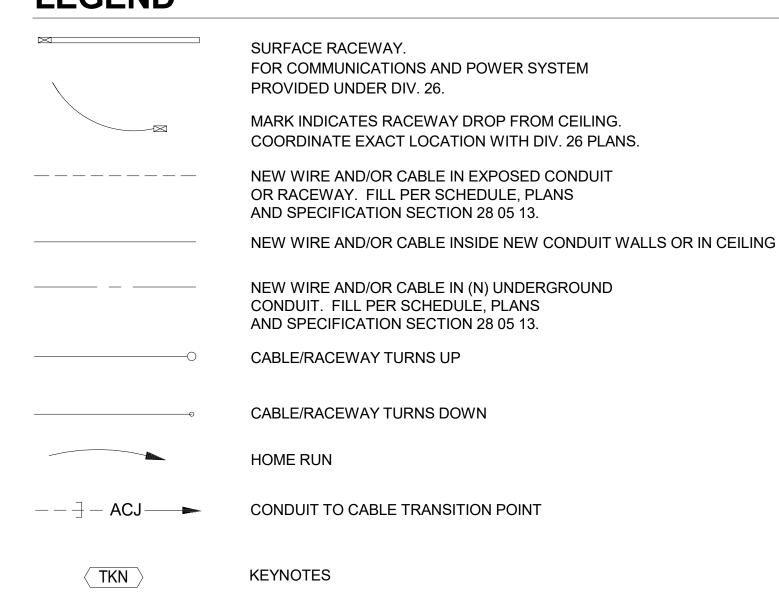
MULTIMEDIA PLATE

TYPES REFER TO SPECIFICATIONS.

MMP

1IDP	1" INNERDUCT, PLENUM RATED	OSP	OUTSIDE PLANT
2IDP	2" INNERDUCT, PLENUM RATED	SM	SINGLE MODE OPTICAL FIBER
C5ePP	CATEGORY 5e PATCH PANEL	UTP5e-4	UNSHIELDED TWISTED PAIR, CAT. 5e
C6PP	CATEGORY 6 PATCH PANEL.	UTP5e-4P	UNSHIELDED TWISTED PAIR, CAT. 5e PLENUM
FOH-P	FIBER OPTIC CABLE HYBRID, PLENUM RATED	UTP5e-4OP	UNSHIELDED TWISTED PAIR, CAT. 5e OUTSIDE PLANT
FOH-OPR	FIBER OPTIC CABLE HYBRID, OUTSIDE PLANT RISER RATED		•
FOM ODD	FIDED ODTIC CARLE MULTIMODE OUTSIDE DI ANT DISED DATED	UTP6-4	UNSHIELDED TWISTED PAIR, CAT. 6
FOM-OPR	FIBER OPTIC CABLE, MULTI MODE OUTSIDE PLANT RISER RATED	UTP6-4P	UNSHIELDED TWISTED PAIR, CAT. 6 PLENUM
FOS-OPR	FIBER OPTIC CABLE, SINGLE MODE OUTSIDE PLANT RISER RATED	UTP6-4OP	UNSHIELDED TWISTED PAIR, CAT. 6 OUTSIDE PLANT
FPP	FIBER PATCH PANEL	110TBXX	110 TERMINAL BLOCK, CAT.5, XX-NO OF PAIRS
FSC	FIBER SPLICE CLOSURE	-	, ,
FSP	FIBER SPLICE PANEL	110PWTBXX	110 TERMINAL BLOCK, PRE-WIRED W/50 PIN CONNECTOR, XX- NO OF PAIRS
FTB	FIBER TERMINAL BOX	TD4 <i>E</i>	
IDF	INTERMEDIATE DISTRIBUTION FACILITY	TB15	TERMINAL BLOCK WITH 15 AMP SWITCH BLADE.
MDF	MAIN DISTRIBUTION FACILITY.		

LEGEND



JUNCTION BOX SCHEDULE

SYMBOL	H (INCHES)	W (INCHES)	(INCHES)
J1	6	6	4
J2	8	8	4
J3	12	12	4
J4	12	12	6
J5	12	12	8
J6	16	12	6
J7	18	18	8
J8	20	16	6
J9	20	16	8
J10	20	20	6
J11	20	20	8
J12	24	20	6
J13	24	20	8
J14	24	24	8
J15	30	24	8
J16	30	30	8
J17	36	30	8
J18	36	36	8

SUFFIX:

NON	E - NEMA 1	С -	NEMA 4
Α	- NEMA 12	D -	NEMA 4X
В	- NEMA 3R		

EXAMPLE: J16C= 30"H X 30"W X 8"D HINGED NEMA 4 JBOX.

NOTE 1

ALL JUNCTION BOXES TO BE HINGED TYPE, PROVIDED WITHOUT PRE-PUNCHED KNOCKOUTS. PENETRATIONS IN JUNCTION BOXES SHALL BE CUT OR PUNCHED AS REQUIRED FOR INSTALLATION. PAINT ALL INTERIOR BOXES TO MATCH WALL FINISH. COORDINATE FINISH WITH ARCH. PLANS.

1SR-1	SINGLE CHAMBER SURFACE RACEWAY
3SR-2.5	THREE CHAMBER SURFACE RACEWAY
A.D.A. ADF	AMERICANS WITH DISABILITIES ACT AREA DISTRIBUTION FACILITY
A.F.C.	
A.F.F.	
ALT A.M.F.F.	ALTERNATE ABOVE MEZZANINE FINISHED FLOOR
A.W.F.F. BDF	BUILDING DISTRIBUTION FACILITY
B.F.C.	
BLDG. B.O.H. C.	
CAT.	CATEGORY
CBC	CALIFORNIA BUILDING CODE
CEC	CALIFORNIA ELECTRICAL CODE
COMM.	COMMUNICATIONS
C.L.	CENTERLINE
C.O.	CONDUIT ONLY
CONT.	CONTINUATION
CS	COMMUNICATIONS SYSTEM
(D)	DEMOLISH EXISTING
DED	DEDUCTIVE
⊅, DIA.	DIAMETER
DIV	DIVISION
(E)	EXISTING
EA.	EACH
EIA	ELECTRONIC INDUSTRIES ASSOCIATION
ELEV.	ELEVATION
E.O.L.	END OF LINE
EQPT.	EQUIPMENT
FIN	FINISHED
FUT LL D	FUTURE
H.R. ⊔⊤	HOME RUN
HT.	HEIGHT
J, JBOX	
LAN	LOCAL AREA NETWORK
MATV	MASTER ANTENNA TELEVISION
MAX.	MAXIMUM
MIN.	MINIMUM
MOD.	MODULAR
MON.	MONUMENT
(N)	NEW
NEC	NATIONAL ELECTRICAL CODE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.E.	OWNER FURNISHED EQUIPMENT
OPP.	OPPOSITE
PNL.	PANEL
PROJ.	PROJECT
P.S.R.H	PROJECT STANDARD RECEPTACLE HEIGHT +18" AFF, U.O.N
P.S.S.H.	PROJECT STANDARD SWITCH HEIGHT +48" AFF TO ♀, U.O.N
RE:	REFER TO
REF.	REFERENCE
SIM.	SIMILAR
SM	SINGLE MODE OPTICAL FIBER
SN	SHEET NOTE
SP	SHIELDED PAIR - SEE SPECIFICATIONS
SPEC	SPECIFICATION
S.R.	SURFACE RACEWAY
STD	STANDARD
STP	SHIELDED TWISTED PAIR
T.C.	TELECOMMUNICATIONS CLOSET
TEL	TELEPHONE
TEI COM	TELECOMMUNICATIONS

TELCOM TELECOMMUNICATIONS

TWISTED PAIR

WEATHERPROOF

UNLESS OTHERWISE NOTED

TYPICAL

TP

TYP.

TELECOMMUNICATIONS INDUSTRY ASSOCIATION

NO. DESCRIPTION DATE

100% DESIGN DEVELOPMENT 12/17/2021

ISSUED FOR PERMIT 04/01/2021

McDonald Inc.

351 8th Street, San Francisco, CA 94103

RAY ENRIQUEZ

REGIS. NO. 106011

EXPIRES 12/31/2022

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CONTACT: HENRY TOORYANI

CONTACT: PETER MCDONALD

PROJECT ADDRESS

PROJECT TEAM

GEOTECH:

CLIENT:

JOB NO.

0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

GENERAL NOTES, LEGEND, SYMBOLS, ABBREVIATIONS AND JBOX SCHEDULE

 \mathcal{D}

Y001

SYMBOL	DEVICE	FUNCTION OR SERVICE	LOCATION	WORK OF	ROUGH-IN	RACEWAY	ELEVATION	CABLE FILL	FINISH	DETAIL SHEET(S)
1 PTZ	CCTV IP CAMERA, PTZ, INDOOR/OUTDOOR.	VISUAL SURVEILLANCE	WALL OR CLG AS INDICATED	28 23 00	FLUSH 4S BOX. 2 G. RING	(1) 1" C. STUBBED UP TO ACCESSIBLE CEILING.	AS SCHEDULED	1 CAT 6 CABLE PER DIV 27.	AS SPECIFIED	TY-902
3	CCTV IP CAMERA, 180 DEGREE CAPABLE, THREE SENSOR MINIMUM, FIXED FOCUS, INDOOR/OUTDOOR.	VISUAL SURVEILLANCE	WALL OR CLG AS INDICATED	28 23 00	FLUSH 4S BOX. 2 G. RING	(1) 1" C. STUBBED UP TO ACCESSIBLE CEILING.	AS SCHEDULED	1 CAT 6 CABLE PER DIV 27.	AS SPECIFIED	TY-902
1	CCTV IP CAMERA, 90 DEGREE CAPABLE, SINGLE SENSOR, FIXED FOCUS, INDOOR/OUTDOOR.	VISUAL SURVEILLANCE	WALL OR CLG AS INDICATED	28 23 00	FLUSH 4S BOX. 2 G. RING	(1) 1" C. STUBBED UP TO ACCESSIBLE CEILING.	AS SCHEDULED	1 CAT 6 CABLE PER DIV 27.	AS SPECIFIED	TY-902
⊢CN	CARD READER, NARROW, DOOR MULLION MOUNT TYPE.	ACCESS CONTROL	INDICATED	28 05 28 28 13 00	MOUNT ON DOOR MULLION.	SEE TY-901	+44" AFF TO CL U.O.N.	SEE ACS FUNCTIONAL DIAGRAM	AS SPECIFIED	TY9.1
⊢CR	CARD READER	ACCESS CONTROL/IDS	INDICATED	28 05 28 28 13 00	FLUSH 4S BOX, 2-1/8" DEEP MIN., 1 GANG RING	SEE TY-901	+44" AFF TO CL U.O.N.	SEE ACS FUNCTIONAL DIAGRAM	AS SPECIFIED	TY9.1
СКР	CARD READER, MULTI-PROTOCOL PROX/SMART WITH INTEGRAL KEYPAD. PROVIDE A HOOD ON ALL EXTERIOR LOCATIONS.	ACCESS CONTROL/IDS	INDICATED	28 05 28 28 13 00	FLUSH 4S BOX, 2-1/8" DEEP MIN., 1 GANG RING. PROVIDE COVER ON ALL EXTERIOR LOCATIONS.	SEE TY-901	+44" AFF TO CL U.O.N.	SEE ACS FUNCTIONAL DIAGRAM	AS SPECIFIED	TY-901
DO	DOOR OPERATOR FOR ADA PUSH PLATE.	ACCESS CONTROL	PEDESTAL	WO 2		SEE TY-901	AS DETAILED ON ARCH PLANS	SEE ACS FUNCTIONAL DIAGRAM		TY-901
DS	DOOR POSITION SWITCH	ACCESS CONTROL/IDS	LRI 1	28 13 00	LRI 1	SEE TY-901	AS DETAILED			TY-901
DU	ROLL-UP DOOR POSITION SWITCH	ACCESS CONTROL/IDS		28 16 19		SEE TY-901	AS DETAILED	SEE ACS FUNCTIONAL DIAGRAM		TY-901
EL	ELECTRIC LOCK	ACCESS CONTROL/IDS	INDICATED	WO1	MUD BOX AT SOLID GROUTED DOOR FRAMES	SEE TY-901	WIRE TO MIDDLE HINGE OF DOOR OPPOSITE LOCK			TY-901
ER	ELECTRIC LOCK WITH INTEGRAL REX MICROSWITCH	ACCESS CONTROL/IDS	INDICATED	08 71 00 WO1	MUD BOX AT SOLID GROUTED DOOR FRAMES	SEE TY-901	AS DETAILED	PER FUNCTIONAL		TY-901
GC	GARAGE ROLL-UP DOOR/PARKING GATE MOTOR CONTROLLER	INTRUSION DETECTION	INDICATED	28 1300	N/A - STUB TO MOTOR CONTROLLER AT LV TERMINAL SIDE.	(1) 3/4" C. STUBBED UP TO ACCESSIBLE CEILING.		AS REQUIRED - COORDINATE INTERFACE TYPE WITH WORK OF DIV 8 AND 26.		
HS	HATCH SWITCH	ACCESS CONTROL/IDS	ACCESS HATCH	28 13 00	AS SPECIFIED	(1) 1/2" C. UP TO ACCESSIBLE CEILING	ACCESS HATCH	PER MANUFACTURER'S RECOMMENDATION		
LA	DOOR LOCAL ALARM	ACCESS CONTROL/IDS	INDICATED	28 13 00	4S BOX W/ 1 G RING, U.O.N.	(1) 3/4" C. STUBBED UP TO ACCESSIBLE CEILING.	+84" AFF TO CL U.O.N.	SEE ACS FUNCTIONAL DIAGRAM	AS SPECIFIED	
КР	KEYPAD, INTRUSION. PROVIDE MULTIPLE ZONES OR PARTITIONS, AS DIRECTED BY THE CITY'S REPRESENTATIVE.	INTRUSION DETECTION	INDICATED	28 13 00	4S BOX W/ 1 G RING, U.O.N.	(1) 1" C. UP TO ACCESSIBLE CEILING SPACE.	+44" AFF TO CL, U.O.N.	AS SPECIFIED	AS SPECIFIED	
PO	POWERED OPERATOR, MOTOR ASSISTED DOOR	ACCESS CONTROL	INDICATED	WO2	N/A - STUB TO MOTOR CONTROLLER AT LV TERMINAL SIDE.	SEE TY-901	ABOVE THE DOOR FRAME.	SEE ACS FUNCTIONAL DIAGRAM	N/A	
RB	RELEASE DOOR BUTTON, CASEWORK MOUNTED	ACCESS CONTROL	UNDERSIDE OF CASEWORK	28 16 19	AS SPECIFIED	(1) 3/4" C. STUBBED UP TO ACCESSIBLE CEILING.	TOP OF CASEWORK	SEE ACS FUNCTIONAL DIAGRAM		
REX	REQUEST-TO-EXIT BUTTON, WALL MOUNTED	ACCESS CONTROL/IDS	INDICATED	28 16 19	4S BOX W/ 1 G RING, U.O.N.	SEE TY-901	+44" AFF TO CL U.O.N.			TY-901
VI	VIDEO IP INTERCOM STATION AT DOOR, OFOI. PROVIDE ROUGH-IN ONLY.	TELECOMMUNICATIONS	AT DOOR	28 23 00	4S BOX W/ 2 G RING, U.O.N.	(1) ¾" C. STUBBED UP TO ACCESSIBLE CEILING.	+44" AFF TO CL U.O.N.	1 CAT 6 CABLE PER DIV 27.	AS SPECIFIED	
VM	VIDEO IP MASTER STATION, OFOI. PROVIDE ROUGH-IN ONLY.	TELECOMMUNICATIONS	WALL	28 23 00	4S BOX W/ 2 G RING, U.O.N.	(1) ¾" C. STUBBED UP TO ACCESSIBLE CEILING.	+44" AFF TO CL U.O.N.	1 CAT 6 CABLE PER DIV 27.	AS SPECIFIED	
ws	WINDOW POSITION SWITCH	ACCESS CONTROL/IDS	WINDOW	28 13 00	AS SPECIFIED	(1) 1/2" C. UP TO ACCESSIBLE CEILING	WINDOW	PER MANUFACTURER'S RECOMMENDATION		

NOTE NO. WORK OF NOTES

LRI 1

ELECTRIC LOCK, ELECTRIC STRIKE, TRANSFER HINGE AND PANIC DOOR REX

INTEGRATED IN PANIC HARDWARE BY DIV. 8, LOW VOLTAGE FIELD WIRING AND POWER
SUPPLIES BY DIVISION 28

WO2 MOTOR ASSISTED POWER DOOR OPERATOR BY DIVISION 8 AND 26. DOOR ENTRY FROM UNSECURE SIDE UNDER CONTROL OF ACCESS CONTROL SYSTEM.

NOTE NO. LOCATION & ROUGH-IN NOTES

TOP OF DOOR AND IN DOOR FRAME, NOT MORE THAN 6" FROM JAMB SIDE. INSTALLATION SHALL NOT COMPROMISE FIRE RATING OF DOOR.

LRI 2 4S BOX W/ 1 GANG RING AND BLANK COVER PLATE

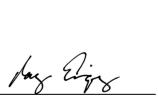
4S BOX W/ BLANK COVER PLATE W/ GROMMET OPENING MTD WITHIN 6" OF LATCH AT UNDERSIDE OF ROOF. EXTEND HS TO HATCH FRAME AND INSTALL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.

LRI 4 SURFACE MOUNT ON DOOR FRAME. INSTALLATION SHALL NOT COMPROMISE FIRE RATING OF DOOR.



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03/11/2021 RAY ENRIQUEZ

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217 ARLINGTON AVE. KENSINGTON, CA 94707

REGIS. NO. 106011 EXPIRES 12/31/2022

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DESCRIPTION

SYMBOL SHCEDULE



TKN2045 CONFIGURE THE READER TO PROVIDE ACCESS FOR A VALID FOB OR A VALID CODE.



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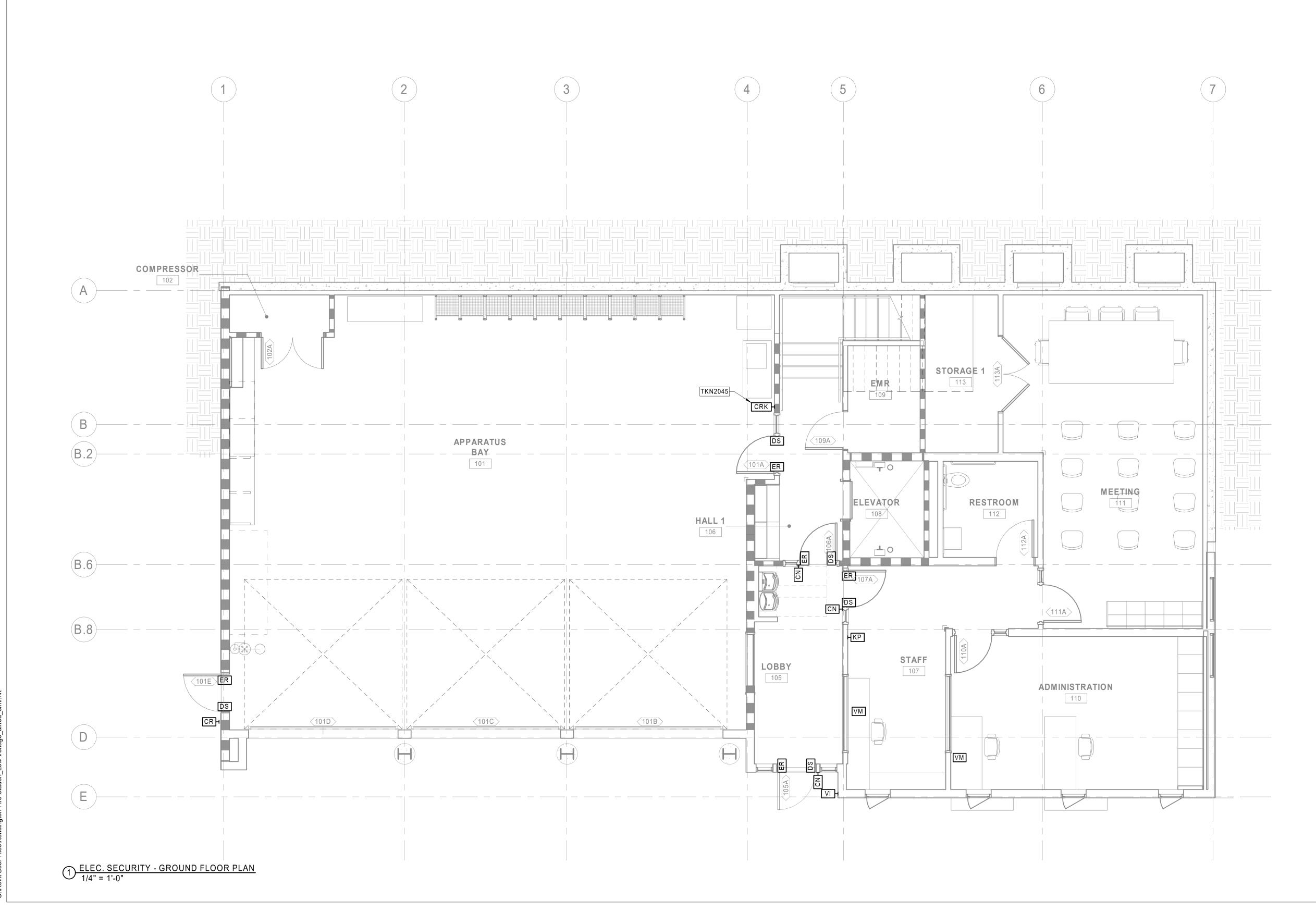
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DESCRIPTION

ELEC. SECURITY - GROUND FLOOR PLAN



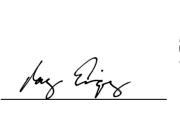


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217 ARLINGTON AVE. KENSINGTON, CA 94707

CLIENT:

PROJECT TEAM KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

ARCHITECT: MARJANG ARCHITECTURE 930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR T. (415) 522-0600

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANTZ

T: (650) 394-8869 BKF ENGINEERS 1646 N. CALIFORNIA BLVD STE 400 CIVIL: WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON T: (925) 940-2200

GEOTECH: HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612 CONTACT: CATHERINE ELLIS

T: (510) 879-4544 LIST ENGINEERING CO. 2 HARRIS CT STE A7

T: (831) 373-4390 AUDIO/VISUAL: SMITH FAUSE MCDONALD INC.

MONTEREY, CA 93940

CONTACT: RON BLUE

351 8TH STREET
SAN FRANCISCO, CA 94103
CONTACT: PETER MCDONALD T: (415) 255-9140

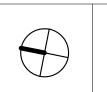
ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110 CONTACT: HENRY TOORYANI T: (415) 826-9626

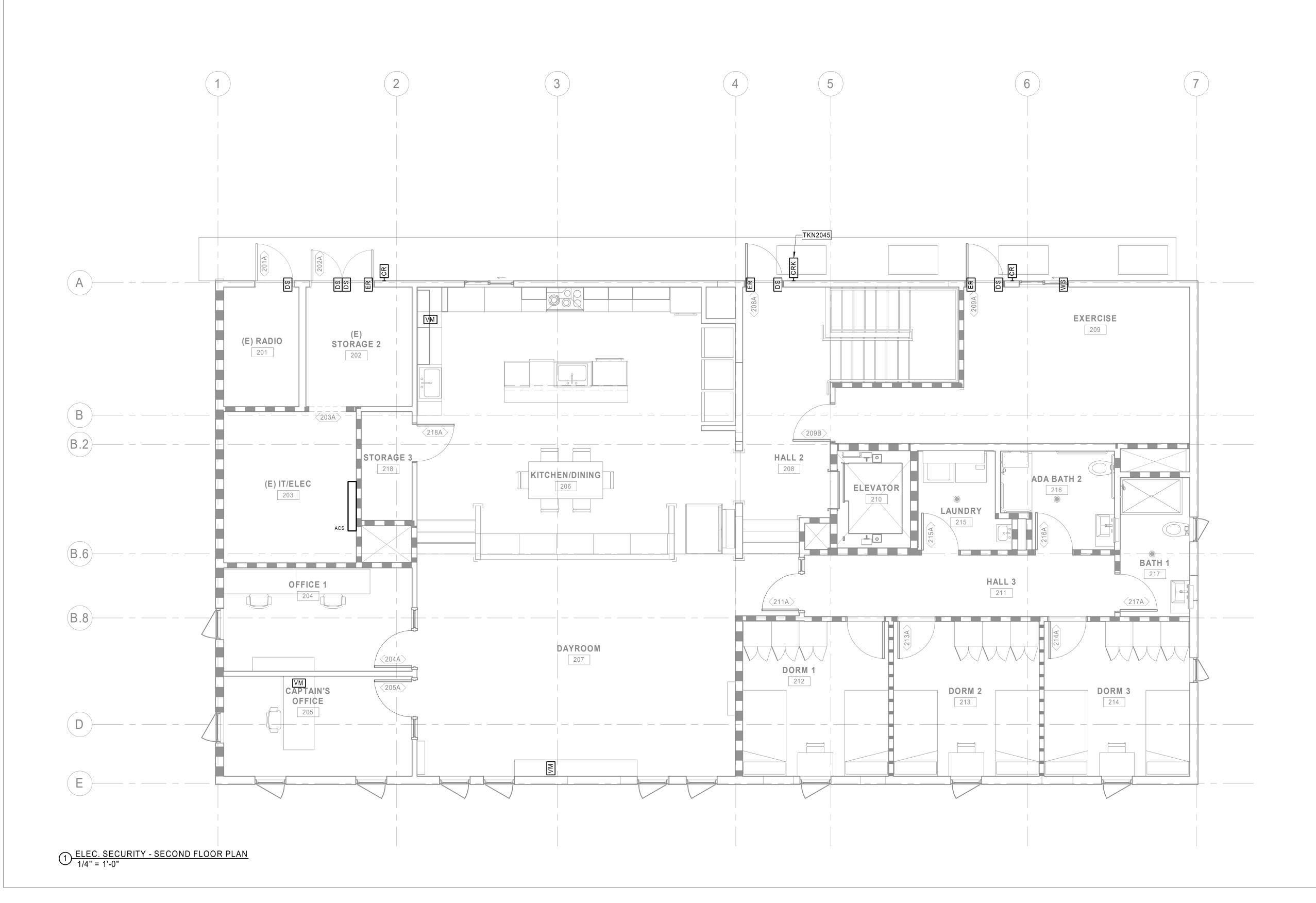
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JOB	NO.	1

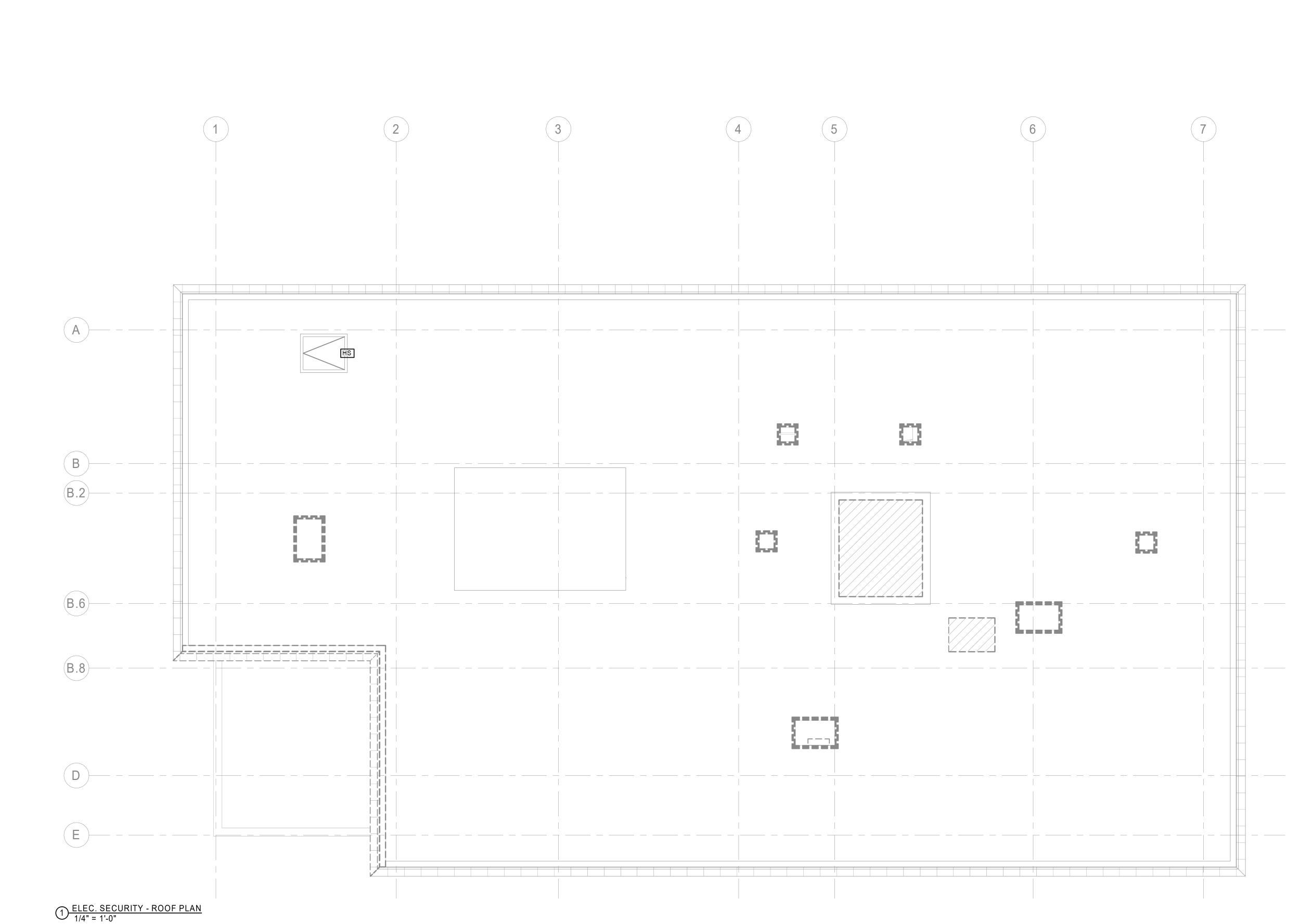
0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

ELEC. SECURITY - SECOND FLOOR PLAN









STAMP



PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

RAY ENRIQUEZ REGIS. NO. 106011 **EXPIRES 12/31/2022**

PROJECT TEAM

CIVIL:

KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE CLIENT: KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

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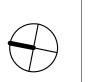
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DESCRIPTION 100% DESIGN DEVELOPMENT 12/17/2021 ISSUED FOR PERMIT 04/01/2021

0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

ELEC. SECURITY - ROOF PLAN





REGIS. NO. 106011

PROJECT ADDRESS

217 ARLINGTON AVE. KENSINGTON, CA 94707

RAY ENRIQUEZ

EXPIRES 12/31/2022

PROJECT TEAM

CIVIL:

KENSINGTON FIRE PROTECTION DISTRICT 217 ARLINGTON AVE CLIENT: KENSINGTON, CA 94707 CONTACT: BILL HANSELL T: (415) 378-9064

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LIST ENGINEERING CO. 2 HARRIS CT STE A7 MONTEREY, CA 93940

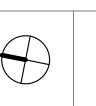
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	000 KENSINGTON FIRE PROTECT	ION DISTRICT

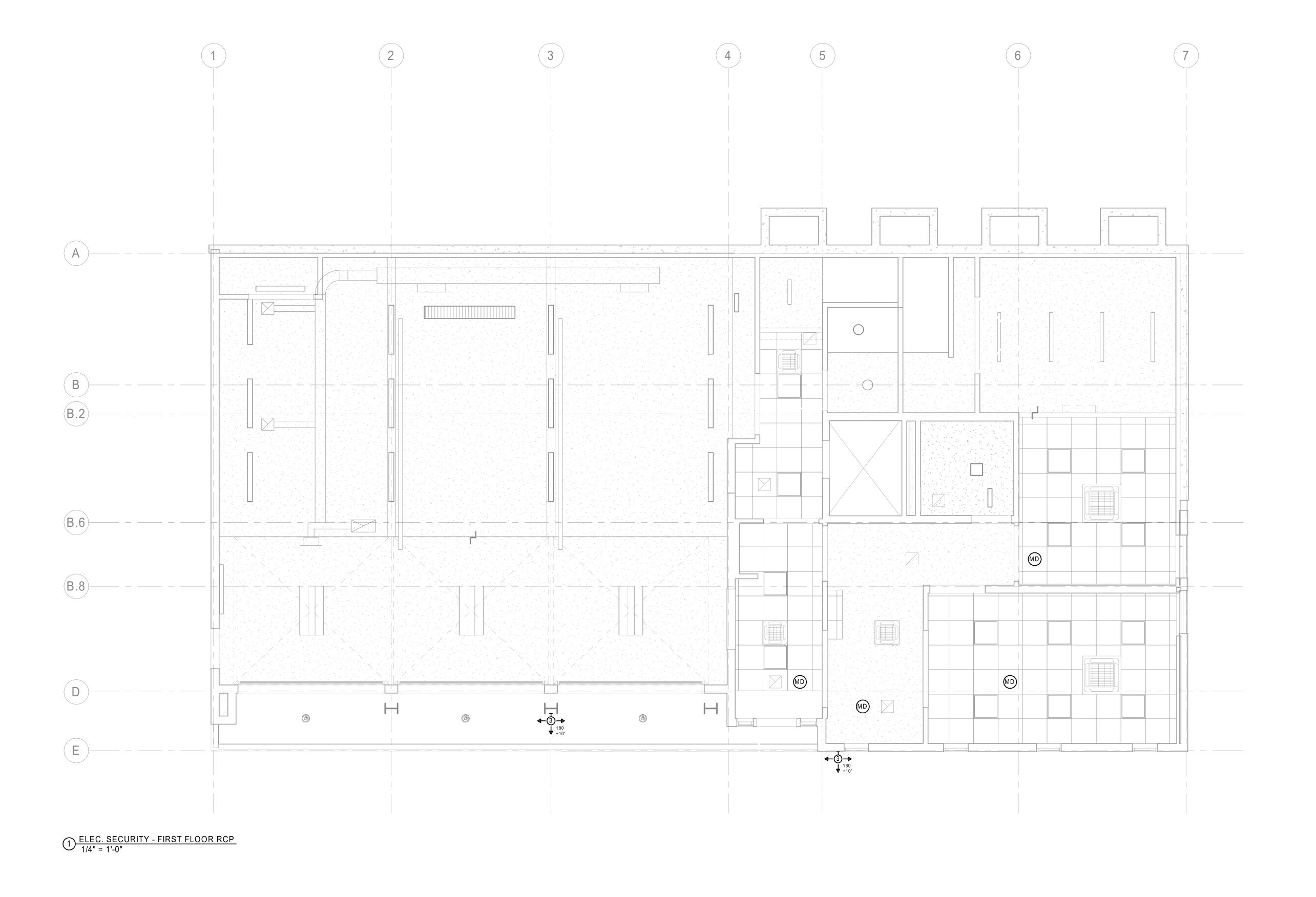
0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

ELEC. SECURITY - FIRST FLOOR RCP



TY602

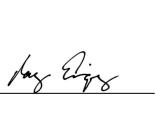


TKN2030 PROVIDE CORNER BRACKET TO HAVE A 270 DEGREE COVERAGE.



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RAY ENRIQUEZ REGIS. NO. 106011 **EXPIRES 12/31/2022**

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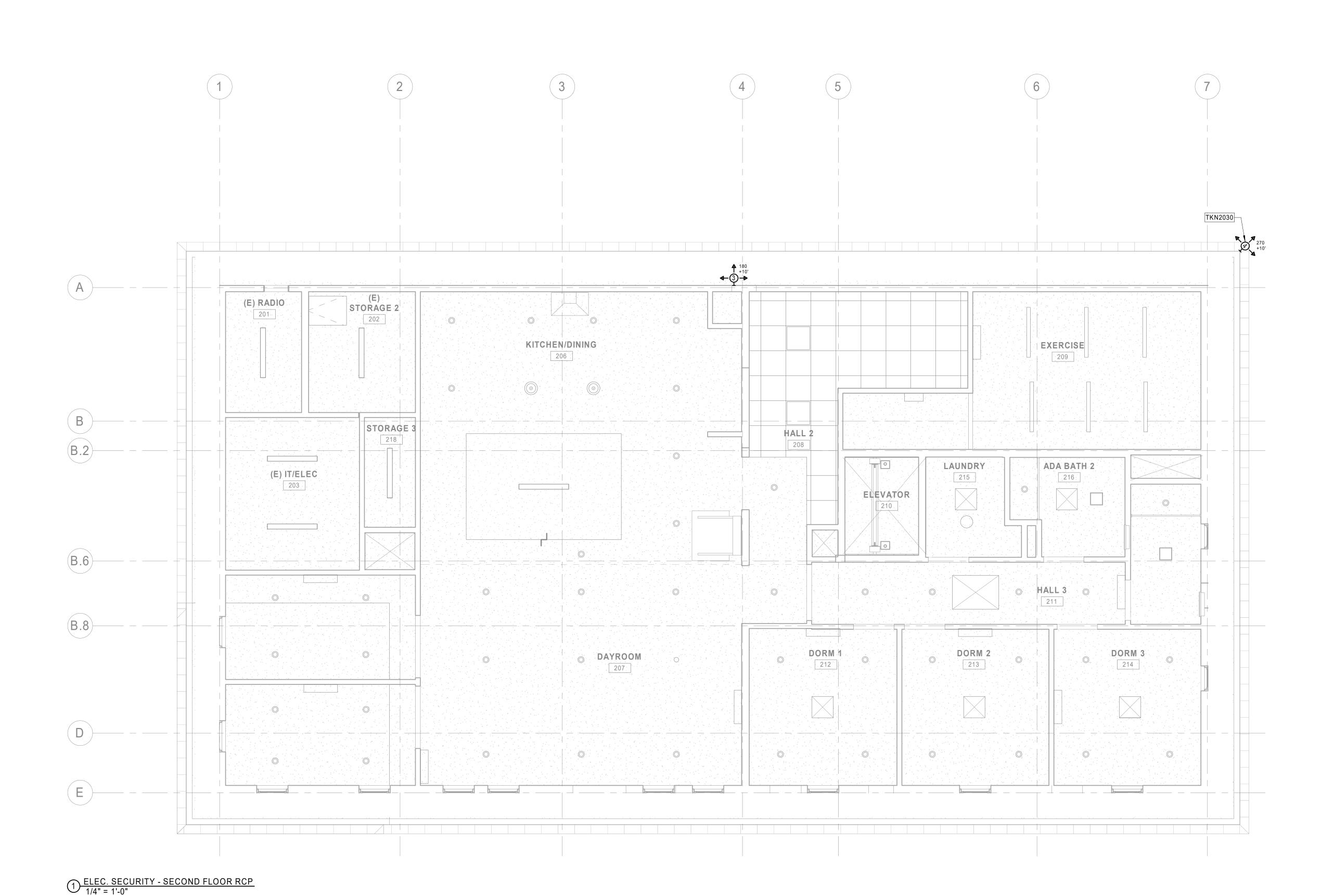
0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

ELEC. SECURITY - SECOND FLOOR RCP



TY604



1 ACCESS CONTROL AND IDS SINGLE LINE DIAGRAM 1 501

SHEET NOTES

FUNCTIONAL BLOCK DIAGRAMS ARE DIAGRAMMATIC. CONTRACTOR TO SUBMIT SHOP DRAWINGS INDICATING EXACT QTY AND LOCATION OF ACCESS CONTROLLERS AND RELATED HARDWARE REQUIRED TO MEET THE FUNCTIONAL REQUIREMENTS OF THE PROJECT.

KEYNOTES

TKA ARCHITECTURAL: COMPLY WITH DIVISIONS 3
THROUGH 14 - SEE ARCHITECTURAL DRAWINGS.

TKA1 DOOR POWER OPERATOR, WHERE OCCURS - REFER TO DOOR SCHEDULE AND DIVISION 8 SPECIFICATIONS.

TKN TELECOMMUNICATIONS & ELECTRONIC SECURITY SYSTEMS: COMPLY WITH DIVISIONS 27

KN1 PROVIDE AS MANY AS REQUIRED TO SUPPORT ALL END DEVICES AND SENSORS. REFER TO PLANS FOR QUANTITY.

TKN2 NOT USED.

TKN3

PROVIDE WIRE GAGE, SHIELDING, PAIR COUNT AND CONSTRUCTION AS REQUIRED TO SUIT DEVICE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. BRING ALL CONTACT POINTS BACK TO THE SECURITY ELECTRONICS TERMINAL ENCLOSURES AT THE IDF ROOMS - DO NOT LOOP OR DAISY CHAIN ANY FIELD DEVICES UNLESS THEY ARE SPECIFIED AS DIGITALLY ADDRESSABLE TYPE. PROVIDE JACKET TYPE IN CONFORMANCE WITH THE INSTALLATION CONDITIONS AND THE CALIFORNIA ELECTRIC CODE.

TKN4 PLACE ALL SECURITY ELECTRONICS WIRING INSIDE TR'S AREA IN METALLIC RACEWAY FROM THE POINT OF ENTRY TO ROOM. WITHIN TR ROOM, PROTECT IN SURFACE MOUNTED GUTTER AT BACKBOARDS.

TKN5 THE ADA DOOR OPERATOR/ACTUATOR SHALL BE CONTROLLED BY THE ACS CONTROLLER.

TKN6 CAT 6 PATCH CORDS. PROVIDE QTY. AS REQUIRED.

TKN7 MULTMEDIA PLATE (BISCUIT BOX) BY FOR TERMINATION OF STATION CABLING. CONCEAL INSIDE ACS GUTTER.

TKN8 PROVIDE POWER SUPPLY WITH 2-HR BATTERY BACKUP, AS SPECIFIED.

TKN9 1 CAT 6 CABLE. REFER TO PLANS.

TKN10 INPUT CLOSURE FROM FIRE ALARM PANEL. COORDINATE WITH THE CITY WHICH DOORS REQUIRE TO BE UNLOCKED.

TKN11 WORK OF DIV. 27.

SEQUENCE OF OPERATION

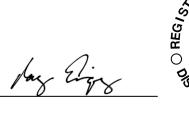
IN THE NORMAL STATE, THE DOOR IS CLOSED, LOCKED ON THE UNSECURED SIDE, AND UNLOCKED FROM THE SECURED SIDE. NORMAL OPERATION IS BY ACCESS CARD ON THE UNSECURED SIDE AND BY DOOR HARDWARE FROM THE SECURED SIDE. THE REQUEST-TO-EXIST MICROSWITCH, OPERATED BY THE SECURED SIDE DOOR HARDWARE, WILL SHUNT THE ALARM. IF THE DOOR IS HELD PAST THE PRESET OPEN TIME OR IF THE DOOR IS LEFT OPEN OR IS FORCED OPEN, AN ALARM WILL BE SENT TO THE ELECTRONIC SYSTEM NETWORK UNTIL THE DOOR IS CLOSED. IF THE DOOR IS OPENED FROM THE UNSECURED SIDE WITH A KEY, A DOOR FORCED ALARM WILL BE GENERATED.

AFTER OFFICE HOURS, THE HANDICAP DOOR OPERATOR
(DO) AT THE UNSECURED SIDE WILL BE
NON-OPERATIONAL UNLESS A VALID ACCESS CARD IS
PRESENTED TO THE CARD READER AFTER WHICH,
PRESSING THE HANDICAP DOOR OPERATOR WILL UNLOCK
AND OPEN THE DOOR.

Smith, Fause McDonald Inc.

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03/11/2021 RAY ENRIQUEZ
REGIS. NO. 106011
EXPIRES 12/31/2022

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PROJECT TEAM

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1646 N. CALIFORNIA BLVD STE 400

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LIST ENGINEERING CO. 2 HARRIS CT STE A7

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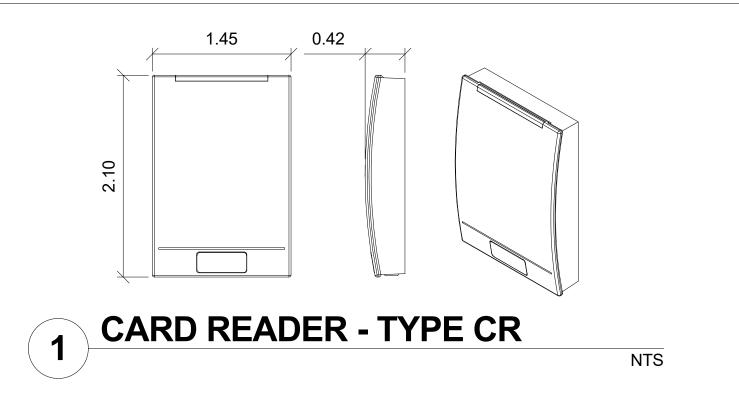
0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

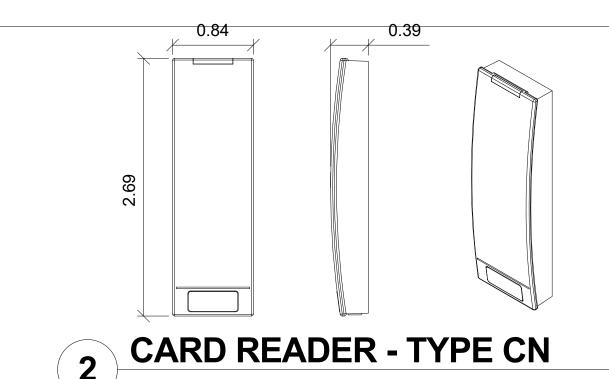
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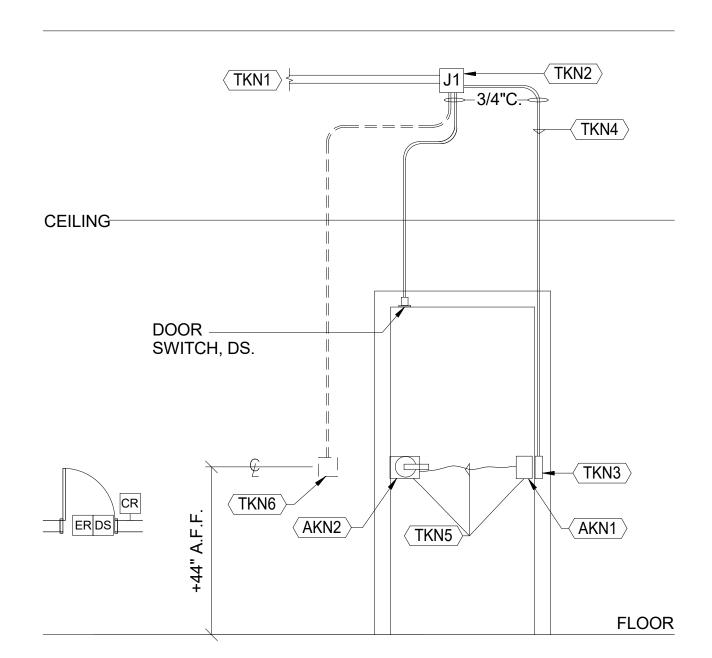
ACCESS CONTROL AND IDS SINGLE LINE DIAGRAM



TY701



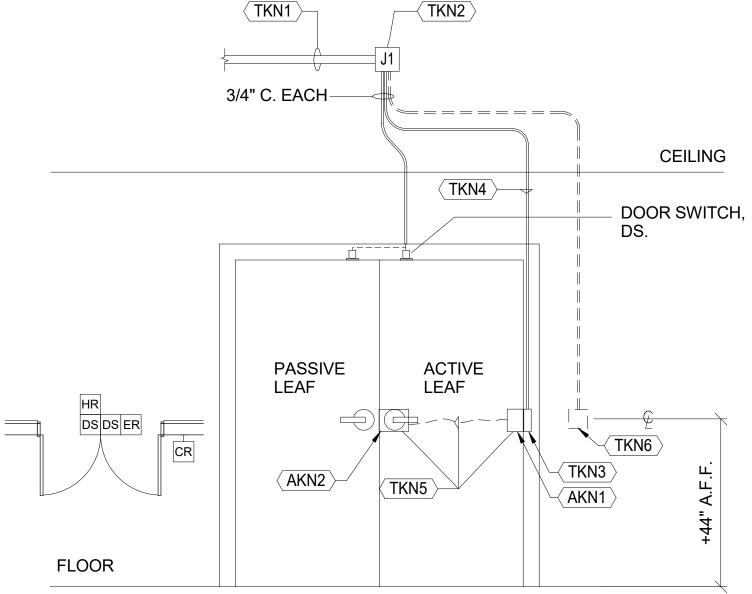




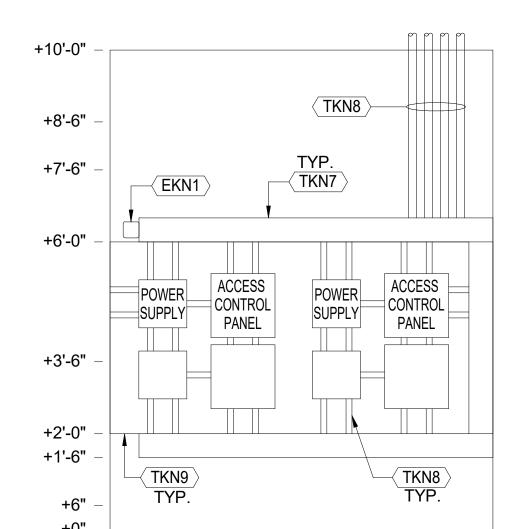
TYPICAL ACCESS CONTROLLED

SINGLE DOOR ELEVATION, DOOR

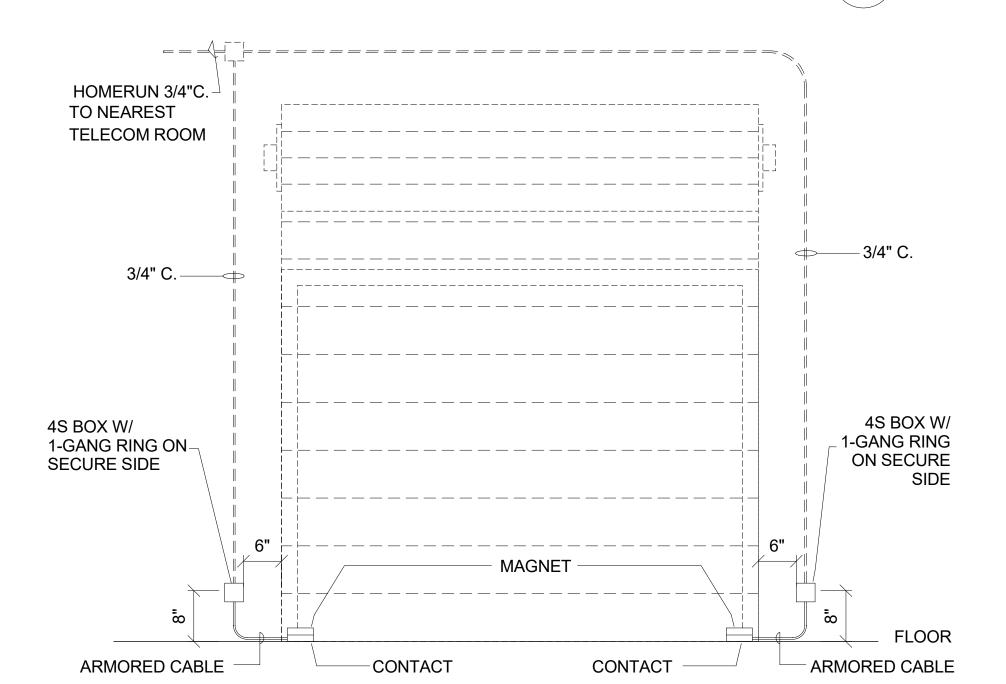
HARDWARE EXIT ALARM SUPPRESSION



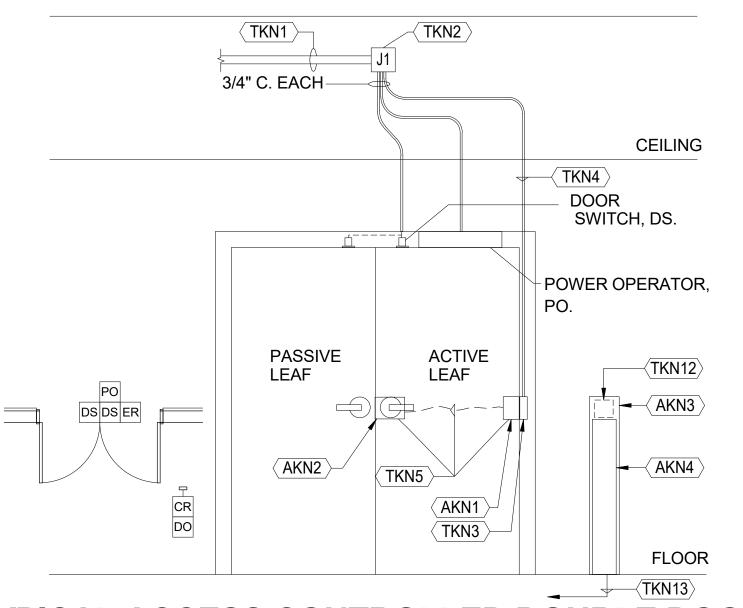
TYPICAL ACCESS CONTROLLED DOUBLE DOOR OPENING, WALL MOUNT CARD READER, DOOR HARDWARE EXIT ALARM SUPPRESSION



ACS ELEVATION VIEW FROM SECURE SIDE, CEILING ACCESS NTS







TYPICAL ACCESS CONTROLLED DOUBLE DOOR OPENING, PEDESTAL MOUNT CARD READER, DOOR HARDWARE EXIT ALARM SUPPRESSION VIEW FROM SECURE SIDE, CEILING ACCESS

SHEET NOTES

KEYNOTES

- NOT EVERY DOOR CONDITION IS DEPICTED. REFER TO THE FLOOR PLANS FOR THE DEVICES REQUIRED AT EACH OPENING AND PROVIDE ROUGH-IN AS REQUIRED BASED ON SIMILAR ASSEMBLIES DETAILED ON THE TY SHEETS.
- 2. AT ACCESSIBLE CEILING CONDITIONS, SUPPORT ELECTRONIC SECURITY CABLING ON CABLE HOOKS OR BASKET TRAYS.
- WHERE ESS SIGNAL CABLING IS CONSOLIDATED WITH A NETWORK OF CONDUITS AND PULL BOXES, MAINTAIN 40% MAXIMUM FILL.

ARCHITECTURAL. WORK OF DIVISIONS 8.

TRANSFER HINGE WITH 2 PR CONDUCTORS MIN.

DETECT OPERATION OF DOOR FROM SECURE SIDE.

OF OPENING. WIRED TO DGP BY DIVISION 28.

ACCESS CONTROL SYSTEM POWER.

ER - DOOR HANDLE OR PANIC HARDWARE WITH MECHANICAL

ARCHITECTURAL PEDESTAL - WHERE OCCURS, SEE PLANS.

DO - POWERED DOOR OPERATOR SWITCH MOUNTED TO

PROVIDE TWO DEDICATED 20A CKT, 120V HARDWIRED FOR

LOCK AND INTEGRAL ALARM SUPPRESSION MICRO-SWITCH TO

PEDESTAL OR WALL ON BOTH SECURE AND UN-SECURE SIDES

HORIZONTAL ARRANGEMENT OF DEVICES MAY VARY - REFER TO THE FLOOR PLANS FOR THE REQUIRED ARRANGEMENTS. CARD READERS SHOULD GENERALLY BE PLACED ADJACENT TO THE DOOR HANDLE OF THE ACCESS CONTROLLED DOOR REFER TO THE DIVISION 8 HW SCHEDULES AND THE APPROVED DIVISION 8 SUBMITTALS TO DETERMINE WHETHER EL OR ES ARE USED AT EACH OPENING

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EXPIRES 12/31/2022



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930 COLE STREET STE 101 SAN FRANCISCO, CA. 94117 CONTACT: KAREN MAR

STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070

ELECTRONIC SECURITY SYSTEMS: COMPLY WITH DIVISION 28

EXTEND 1.25" MIN C. TO THE NEAREST TELECOM ROOM.

LOCATE ABOVE DOOR AT SECURED ACCESSIBLE CEILING CONDITIONS. AT GYP CEILING CONDITIONS, LOCATE REMOTELY AT NEAREST UTILITY SPACE.

PROVIDE MUD BOX INSIDE DOOR FRAME AT GROUTED DOOR ASSEMBLIES.

STUB CONDUIT INSIDE DOOR FRAME TO ABOVE THE MIDDLE HINGE OPPOSITE DOOR HANDLE/EL/ER/ES/PANIC HW. MEASURE DOOR ON SITE. COORDINATE SIDE OF DOOR SCHEDULED TO RECEIVE ACTIVE DOOR HARDWARE, INCLUDING EL OR ES WITH **WORK OF DIVISION 8**

DOOR HARDWARE (DOOR HANDLE, ES, EL, ER, AND/OR PHR AS APPLIES) AND TRANSFER HINGE FURNISHED AND INSTALLED UNDER THE WORK OF DIVISION 8. WORK OF DIVISION 28 WIRES LOCKING HARDWARE VIA TRANSFER HINGE AND PROVIDES WIRING AND PATHWAY BACK TO DGP.

WALL OR PEDESTAL MOUNTED CARD READER WITH 4S BOX AND 1 GANG RING INSTALLED FACING UN-SECURE SIDE OF DOOR. REFER TO PLANS FOR LEFT OR RIGHT SIDE PLACEMENT.

PROVIDE 6"X6" METALLIC WIREWAY/GUTTER.

TKN8 PROVIDE MULTIPLE 1"C. AND 2"C. AS REQUIRED.

PROVIDE 3/4" THICK FIRE RESISTANT TREATED PLYWOOD BACKBOARD. PROVIDE AS MANY AS SHOWN ON PLAN. PAINT COLOR WHITE TRIM TO FIT. LEAVE ONE FIRE RATING STAMP PER SHEET OF PLYWOOD UNPAINTED.

FUTURE WALL OR PEDESTAL MOUNTED CARD READER WITH 4S BOX AND 1 GANG RING INSTALLED FACING UN-SECURE SIDE OF DOOR. REFER TO PLANS FOR LEFT OR RIGHT SIDE PLACEMENT.

EXTEND 1" CONDUIT TO ACCESSIBLE CEILING SPACE.

CARD READER MOUNTED TO WALL OR PEDESTAL AT POWER DOOR OPERATOR ENABLED ENTRIES ON UN-SECURE SIDE.

PROVIDE 1" C. TO NEAREST IDF ROOM.

PROJECT TEAM

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CONTACT: MATT FRANTZ

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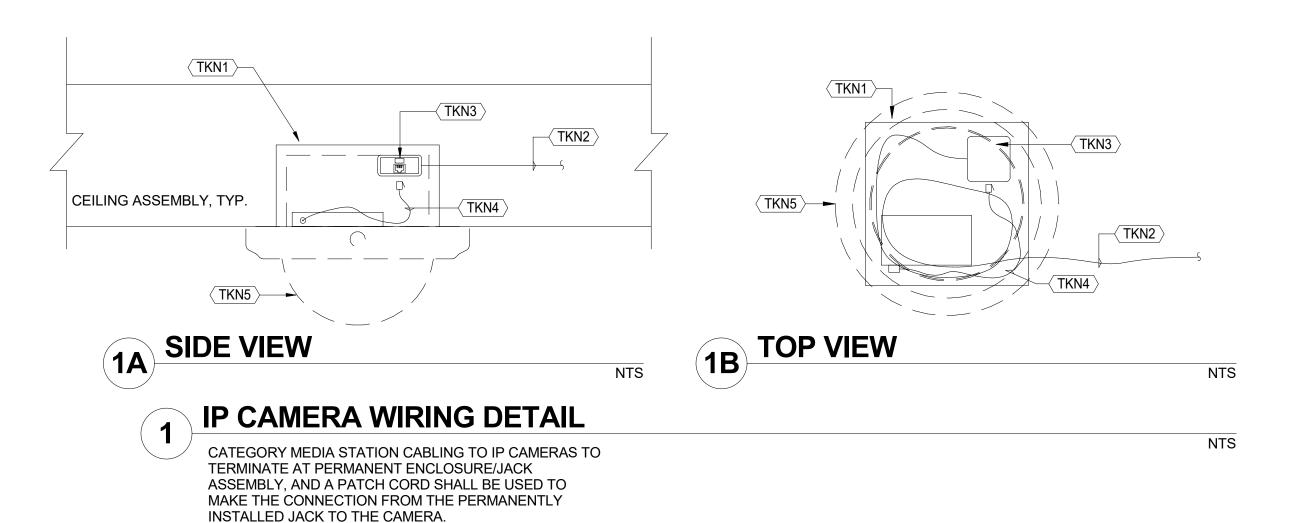
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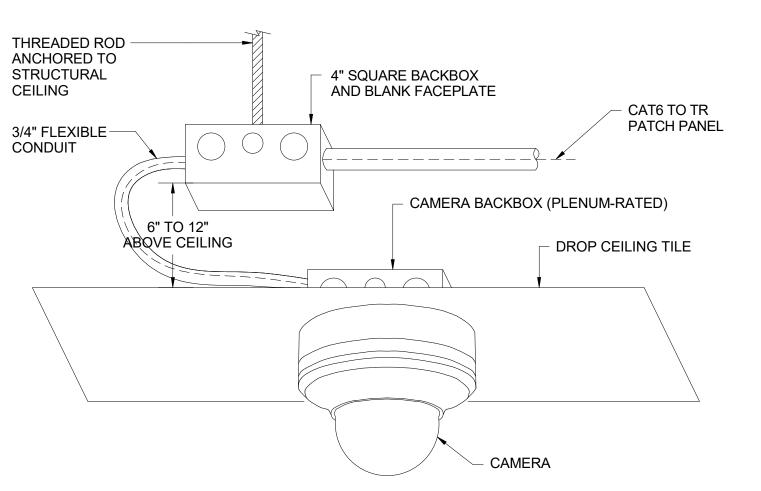
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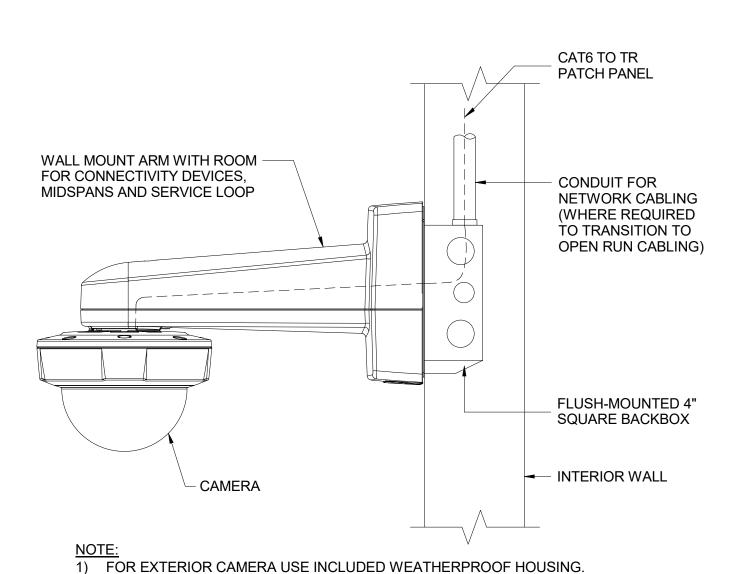
DETAILS - ELECTRONIC SECURITY SYSTEMS ACCESS CONTROL



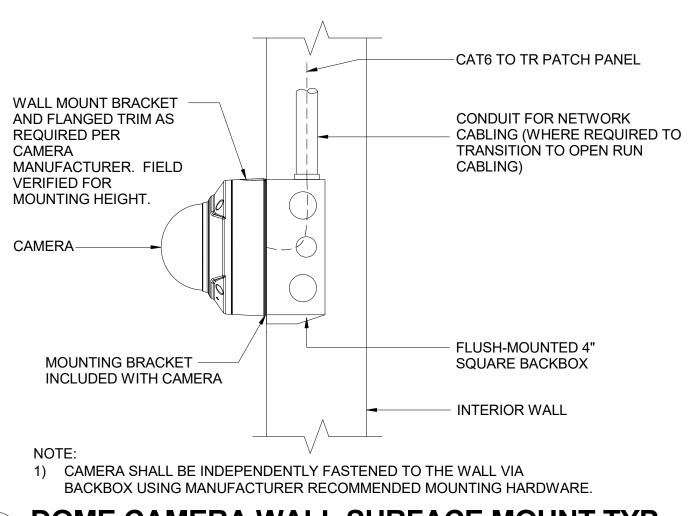


1) CAMERAS AND CONDUIT SHALL BE INDEPENDENTLY SUPPORTED AND SHALL NOT RELY ON CEILING SYSTEM CABLE SUPPORTS, FRAME OR TILES FOR SUPPORT. 2) WHERE CEILING-MOUNTED CAMERAS ARE TO BE INSTALLED ON CEILING TILES, THEY SHALL BE CENTERED ON THE TILE IN BOTH DIRECTIONS.

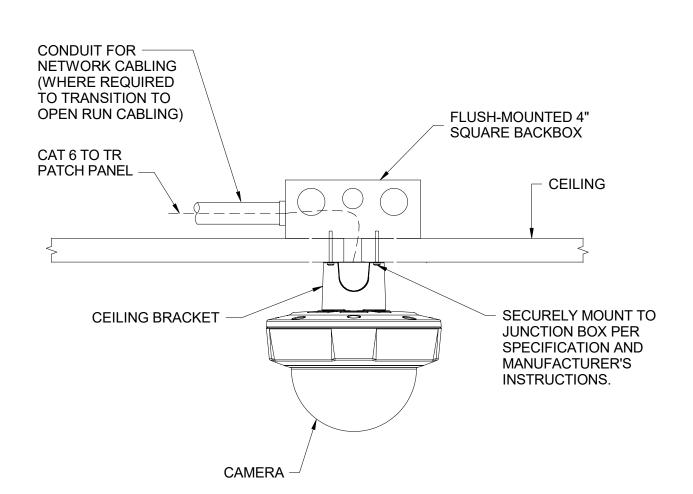
DOME CAMERA DROP CEILING MOUNT TYP.



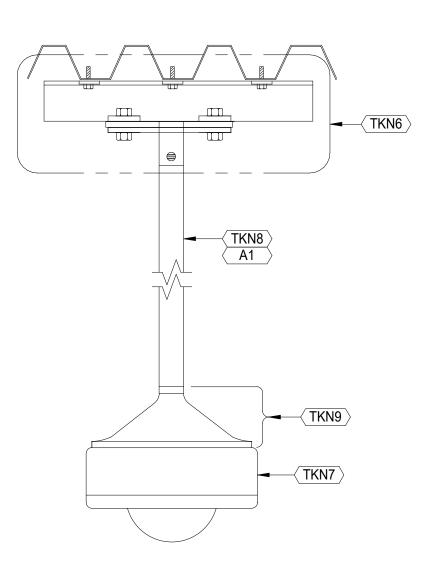
6 180° CAMERA WALL ARM MOUNT TYP.



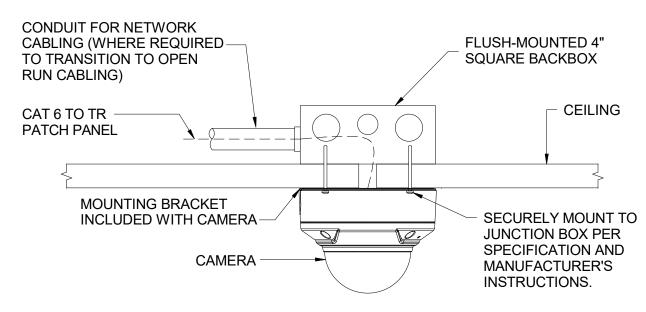




7 180° CAMERA CEILING MOUNT TYP.



IP CAMERA PENDANT MOUNT INTERIOR CEILING/STRUCTURE MOUNTED NTS



DOME CAMERA 5 CEILING MOUNT TYP.

NTS

KEYNOTES

ARCHITECTURAL. WORK OF DIVISIONS 3-14.

PAINT AS DESCRIBED/REQUIRED IN DIVISION 9

ELECTRONIC SECURITY SYSTEMS: COMPLY WITH DIVISION 28.

4S TYPE ELECTRICAL BACKBOX EQUAL TO RANDL INDUSTRIES T-55017 WHERE SURFACE MOUNT OF IP CAMERA TO FLUSH MOUNT BACKBOX WITH INTEGRAL STRUCTURED CABLING BISCUIT BOX REQUIRED. PROVIDE EXTERIOR GRADE BOX AT EXTERIOR CONDITIONS AS REQUIRED BY SECTION 28 05 28 -PATHWAYS FOR ELECTRONIC SAFETY AND SECURITY

CATEGORY 6 STATION CABLING BY DIVISION 27.

SMALL FORM FACTOR MULTIMEDIA ENCLOSURE SUITABLE FOR SURFACE MOUNTING WITH INTEGRAL UNIVERSITY STANDARD CATEGORY 6 JACK FOR TERMINATION OF STATION CABLING.

CATEGORY SIX PATCH CORD PROVIDE LENGTH AS REQUIRED. WHERE CAMERA IS MOUNTED TO BACKBOX. COIL INSIDE BACKBOX.

SURFACE MOUNT IP CAMERA SUPPORTED FROM FLUSH MOUNTED BACKBOX.

PENDANT MOUNT ADAPTER - SONY UNIMDPDH120 OR

PROVIDE EQUAL TO CHIEF MANUFACTURING CMA110, 8" X 8" STEEL PLATE CEILING PLATE FITTING WITH 1" NPT PIPE THREAD ADAPTER.

 $\langle \mathsf{TKN7} \rangle$ 1" NPT PIPE THREADED FOR PENDENT MOUNTING FROM

EQUAL.

IP SECURITY CAMERA.

STRUCTURE ABOVE.

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03/11/2021 **RAY ENRIQUEZ REGIS. NO. 106011 EXPIRES 12/31/2022**

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STRUCTURAL: ZFA STRUCTURAL ENGINEERS 1390 EL CAMINO REAL STE 100 SAN CARLOS, CA 94070 CONTACT: MATT FRANTZ

> T: (650) 394-8869 **BKF ENGINEERS** 1646 N. CALIFORNIA BLVD STE 400 WALNUT CREEK, CA 94596 CONTACT: ERIC SWANSON

GEOTECH: HALEY ALDRICH 1956 WEBSTER ST #300 OAKLAND, CA 94612

T: (925) 940-2200

CONTACT: CATHERINE ELLIS T: (510) 879-4544 LIST ENGINEERING CO. 2 HARRIS CT STE A7

T: (831) 373-4390 AUDIO/VISUAL: SMITH FAUSE MCDONALD INC. 351 8TH STREET

MONTEREY, CA 93940 CONTACT: RON BLUE

SAN FRANCISCO, CA 94103 CONTACT: PETER MCDONALD T: (415) 255-9140

CONTACT: HENRY TOORYANI

ESTIMATOR: MICROESTIMATION INC. 850 S. VAN NESS AVE, #26 SAN FRANCISCO, CA 94110

T: (415) 826-9626

DESCRIPTION 12/17/2021 100% DESIGN DEVELOPMENT 04/01/2021 ISSUED FOR PERMIT

JOB NO. 0000 KENSINGTON FIRE PROTECTION DISTRICT PUBLIC SAFETY BUILDING

DESCRIPTION

DETAILS - ELECTRONIC SEURITY SYSTEMS VIDEO SURVEILLANCE SYSTEMS

