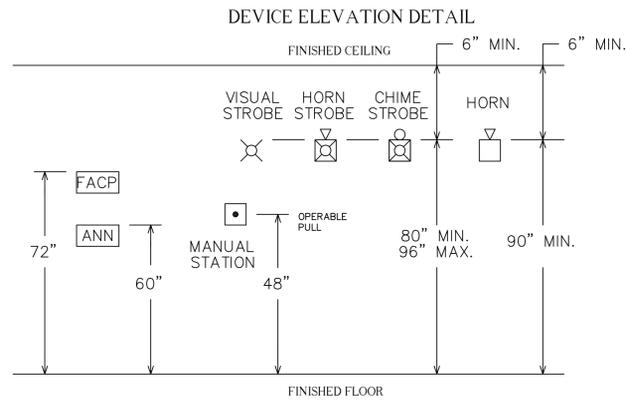


SAILHOUSE APARTMENTS, T.I.
9740 NE 119th WAY KIRKLAND, WA 98034

Richard S. Gehlhausen
NICET Certification No. 140592
Fire Protection Engineering Technology
Fire Alarm Systems - Level III
Certification Expires: August 1, 2024



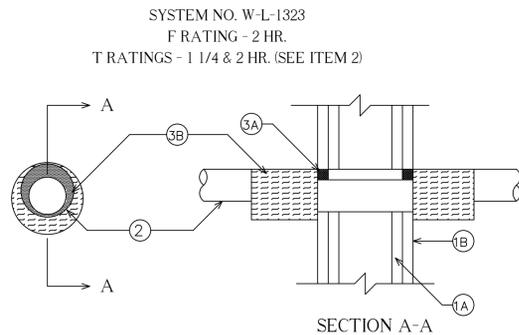
SCOPE OF WORK:
TO PROVIDE TENANT IMPROVEMENTS TO THE FIRE ALARM SYSTEM TO INCLUDE THE FOLLOWING:
- RELOCATE (4) EXISTING SMOKE DETECTORS IN THE LEASING OFFICE
- RELOCATE (1) EXISTING MANUAL STATION IN THE LEASING OFFICE
- REPLACE (2) EXISTING HORN STROBES IN THE LEASING OFFICE
- REPLACE (3) EXISTING STROBES IN THE LEASING OFFICE
- REPLACE & RELOCATE (2) EXISTING HORN STROBES IN LEASING OFFICE
- ADD (1) NEW SMOKE DETECTOR IN THE PRIVATE OFFICE IN THE LEASING OFFICE
- ADD (1) NEW HORN STROBE IN THE LEASING OFFICE
- REPLACE (3) EXISTING HORN STROBES IN THE FITNESS ROOM
- REPLACE & RELOCATE (2) EXISTING STROBES IN THE FITNESS ROOM
- ADD (2) NEW SMOKE DETECTORS IN THE FITNESS ROOM

SYSTEM DESCRIPTION:
THIS IS A MANUAL/AUTOMATIC FIRE ALARM SYSTEM, WITH AN ADDRESSABLE CONTROL PANEL AND INITIATING DEVICES, WIRED STYLE 4 (CLASS B).

THIS BUILDING IS 100% SPRINKLERED AND IS MONITORED BY:
NORTHWEST ALARM MONITORING
1743 1st AVENUE SOUTH
SEATTLE, WASHINGTON 98134
877-870-0910

- GENERAL NOTES: UNLESS OTHERWISE SPECIFIED
- APPLICABLE CODES:
INTERNATIONAL FIRE CODE, 2015 EDITION WITH STANDARDS & AMENDMENTS - WAC 51-54A
WASHINGTON STATE FIRE CODE, 2015 EDITION CHAPTER 9
NFPA 72, NATIONAL FIRE ALARM CODE, 2016 EDITION
NATIONAL ELECTRICAL CODE, EDITION 2017
NATIONAL BUILDING CODE, EDITION 2015
 - WITNESS OF FINAL FIRE ALARM TEST BY LOCAL FIRE AUTHORITY AND PROJECT INSPECTOR.
 - WIRE TYPE & SIZE:
A = 16/2 SOLID, TYPE FPLP FOR INITIATING CIRCUITS
B = 14/2 SOLID, TYPE FPLP FOR NOTIFICATION CIRCUITS
 - UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER-TIGHT FITTINGS AND WIRES TO BE APPROVED FOR WET LOCATIONS.
 - AUDIBLE SIGNALS SHALL BE AT LEAST 15dBA ABOVE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75dBA AT 10FT. OR MORE THAN 120dBA AT THE MINIMUM HEARING DISTANCE FROM THE DEVICE.
 - AUDIBLE DEVICES SHALL SOUND A TEMPORAL 3 PATTERN.
 - VISUAL DEVICE SHOULD NOT EXCEED (2) FLASHES PER SECOND & SHOULD NOT BE SLOWER THAN (1) FLASH EVERY SECOND.
 - ALL VISUAL DEVICES SHALL FLASH IN SYNCHRONIZATION.
 - FIRE ALARM CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION TO THE INSPECTOR OF RECORD AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS.

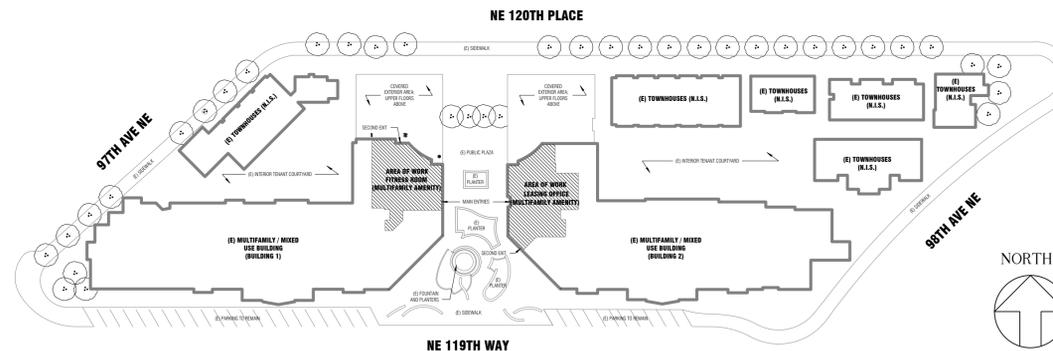
THROUGH PENETRATION DETAIL PER U.L. #W-L-1323



- WALL ASSEMBLY - THE 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES.
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 3-1/2 IN. WIDE AND SPACED MAX. 24 IN. OC.
 - GYPSUM BOARD * - TWO LAYERS OF NOM 5/8 IN. THICK GYPSUM BOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 12-3/4 IN.
- THROUGH PENETRANT - ONE METALLIC PIPE OR TUBING INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN OPENING. ANNULAR SPACE BETWEEN PENETRANT AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (POINT CONTACT) TO MAX 2 IN. PENETRANT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF PENETRANTS MAY BE USED:
 - STEEL PIPE - NOM 10 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - IRON PIPE - NOM 10 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - COPPER TUBING - NOM 4 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - COPPER PIPE - NOM 4 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

THE HOURLY T RATING IS 2 HR FOR PENETRANTS A AND B. THE HOURLY RATING IS 1-1/4 HR FOR PENETRANTS C AND D.
- FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
 - FILL, VOID OR CAVITY MATERIALS * - CAULK, SEALANT OR PUTTY - MIN 5/8 IN. THICKNESS OF CAULK, SEALANT OR PUTTY APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.
 - 3M COMPANY - CP 25WB+ CAULK, FB-3000 WT SEALANT, MP+ STIX PUTTY.
 - DUCT WRAP MATERIAL * - NOM 2 IN. THICK DUCT WRAP TIGHTLY WRAPPED AROUND PENETRANT, BUTTED TO WALL AND EXTENDING 24 IN. BEYOND BOTH SURFACES OF WALL. LONGITUDINAL SEAMS SEALED WITH FOIL TAPE.
 - 3M COMPANY - FIRE BARRIER DUCT WRAP 20A.

* BEARING THE UL CLASSIFICATION MARKING



SITE PLAN
SCALE: 1/64" = 1.0'

FIRE ALARM SYSTEM SEQUENCE OF OPERATION

	FACP ALARM	FACP TRBL	FACP SUPV	ACTIVATE AUD/VIS	OFF SITE ALARM	OFF SITE TRBL	OFF SITE SUPV
AREA SMOKE DETECTOR	X			X	X		
MANUAL PULL STATION	X			X	X		
INITIATING CIRCUIT STYLE 4 (CLASS B)							
OPEN WIRE			X			X	
GROUNDING WIRE		X				X	
SHORTED WIRES		X				X	
NOTIFICATION CIRCUIT STYLE 4 (CLASS B)							
OPEN WIRE		X				X	
GROUNDING WIRE		X				X	
WIRE TO WIRE SHORT/OPEN		X				X	
WIRE TO WIRE SHORT/GND		X				X	
OPEN & GROUND		X				X	
LOSS OF CARRIER		X				X	

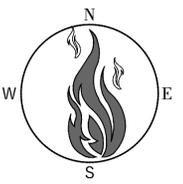
Must Remain On Site

T.Anderson
Reviewed
08/02/2022

SYMBOLS LEGEND

QTY.	SYMBOL	DESCRIPTION	MODEL	MANUFACTURER	BACKBOX
1	FACP	(E) FIRE ALARM CONTROL PANEL	5820XL	SILENT KNIGHT	PROVIDED
13 (E) 3 (N)	⊙	PHOTO SMOKE DETECTOR	SK-PHOTO W/ B210LP BASE	SILENT KNIGHT	4 SQ. DEEP W/ 1G RING
5 (E)	□	(E) MANUAL STATION	SK-PULL-DA	SILENT KNIGHT	4 SQ. DEEP W/ 1G RING
5 (ER)	XX ⊗	VISUAL STROBE, WALL MOUNT (XX = cd)	SRL	SYSTEM SENSOR	4 SQ. DEEP BOX
2 (RE) 1 (N)	XX ⊗	HORN STROBE, CEILING MOUNT (XX = cd)	PC2RL	SYSTEM SENSOR	4 SQ. DEEP BOX
5 (ER) 1 (N)	XX ⊗	HORN STROBE, WALL MOUNT (XX = cd)	P2RL	SYSTEM SENSOR	4 SQ. DEEP BOX
	EOL	END OF LINE DEVICE	N/A	MANUFACTURER	N/A

(E) = EXISTING, (ER) EXISTING TO BE REPLACED, (N) = NEW, (RE) RELOCATE EXISTING, (RR) REPLACE & RELOCATE, N/A NOT APPLICABLE



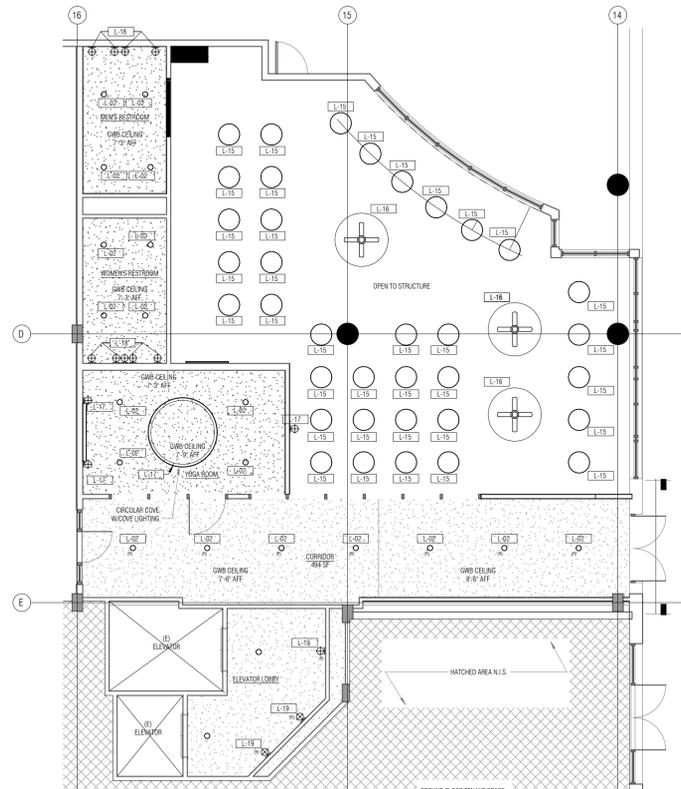
REVISIONS	
0	4-29-2022 Submittal

Drawing Title:
COVER SHEET - SCOPE OF WORK, GENERAL NOTES & SEQUENCE OF OPERATIONS
Project No. 22-1495
Drawn By: Jeré Thompson
Scale: As Noted
Date: 28 April 2022

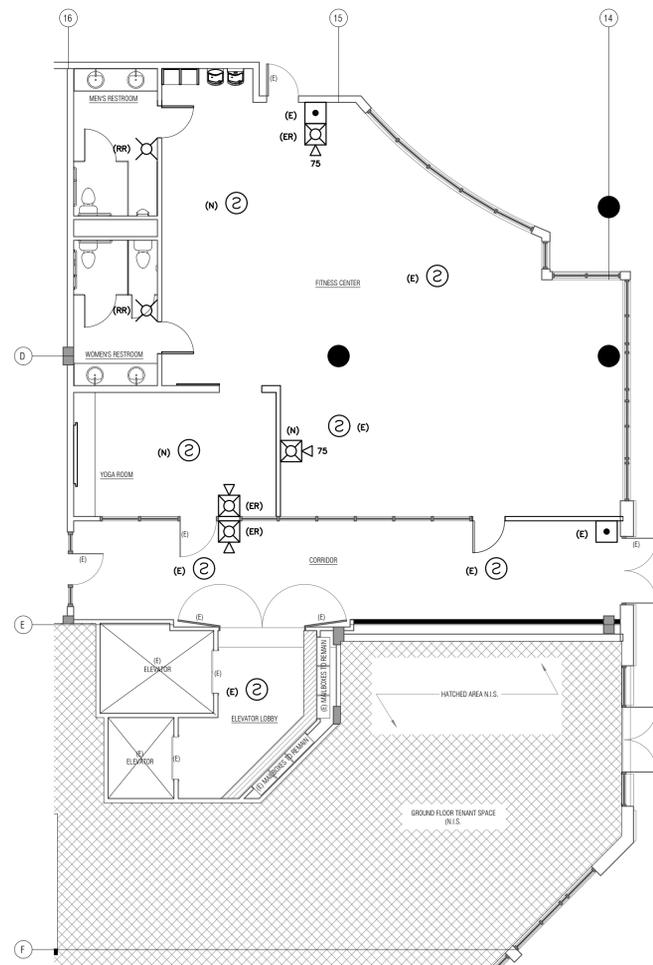
SAILHOUSE APARTMENTS, T.I.
9740 NE 119th Way Kirkland, WA 98034

Brimstone
Fire Safety Management LLC
20628 Broadway Avenue Snohomish, WA 98296
License # EC BRIMSF5902BL

SHEET
FA-01



REFLECTED CEILING PLAN, FITNESS ROOM



FLOOR PLAN, FITNESS ROOM

BATTERY CALCULATIONS FOR ADDED DEVICES THIS PROJECT

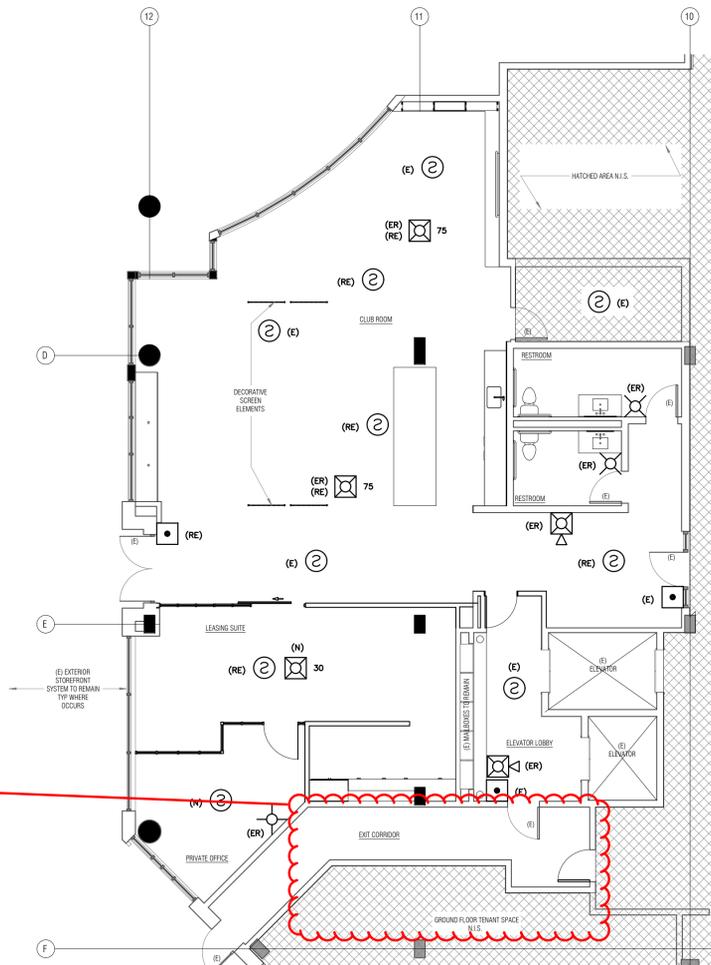
DEVICE	QTY.	SUPERVISORY	ALARM	TOTAL SUPERVISORY	TOTAL ALARM
SD505-PHOTO	3	.00055	.00055	.0016	.0016
P2RL, 75cd	1	0	.111	0	.111
PC2RL, 30cd	1	0	.071	0	.071
TOTALS:				.0016 Ah	.184 Ah

SUPERVISORY: .0016 Ah x 24 HOURS = .038 Ah
 ALARM: .184 Ah x .0833 (5 MINUTES) = .015 Ah
 20% SAFETY MARGIN (ALARM & SUPERVISORY) = .011 Ah
 TOTAL SYSTEM CURRENT: .064 Ah
 THIS SHOULD NOT SIGNIFICANTLY AFFECT THE BATTERY

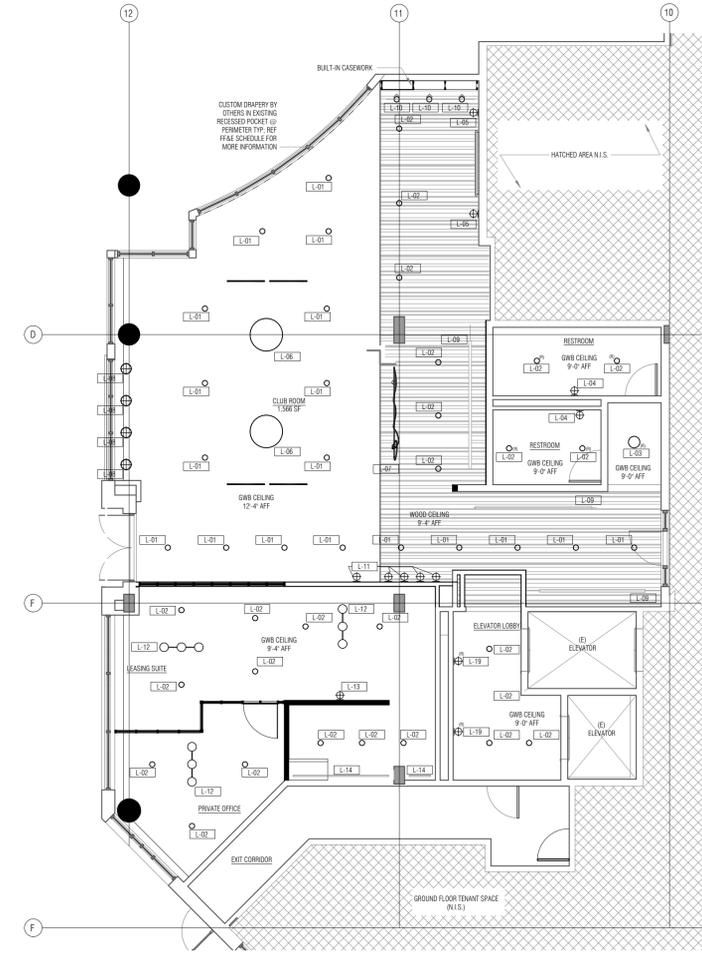
FACP Located in P2 Garage Electrical Room

Must Remain On Site

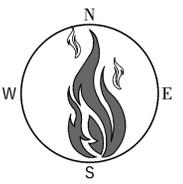
T.Anderson
 Reviewed
 08/02/2022



FLOOR PLAN, LEASING OFFICE/CLUB ROOM



REFLECTED CEILING PLAN, LEASING OFFICE/CLUB ROOM



REVISIONS	
0	4-29-2022 Submittal

Drawing Title:
 FLOOR & RCP PLANS,
 BATTERY CALCULATIONS

Project No. 22-1495

Drawn By: Jeré Thompson

Scale: None

Date: 28 April 2022

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