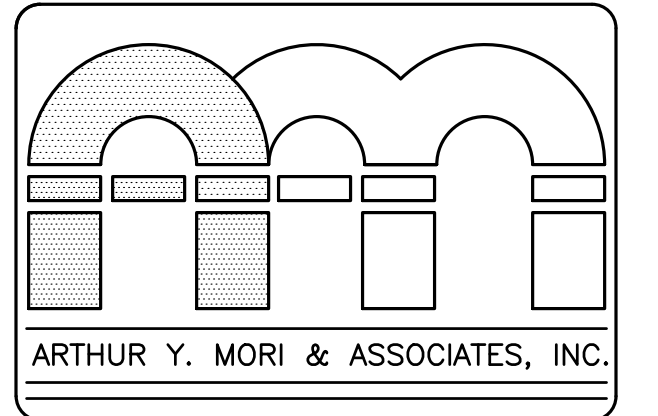


ELECTRICAL DEMOLITION PLAN
 SCALE: 1/4" = 1' - 0"

- NOTES:**
- (D1) REMOVE EXIST. LINE ISOLATION PNL.
 - (D2) EXIST. FA ANNUNCIATOR TO BE RELOCATED.
 - (D3) EXIST. GENSET ANNUNCIATOR, ALARM, & MONITOR PNLS TO BE RELOCATED.
 - (D4) EXIST. ANTENNAS TO BE RELOCATED BY OTHERS.



ARCHITECTS AIA
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EMERGENCY DEPARTMENT RENOVATION
 Kauai Veterans Memorial Hospital
 4643 Waimea Canyon Drive
 Waimea, Kauai HI 96796

TWK 1-2-006.035

SHEET TITLE ELECTRICAL DEMOLITION PLAN

BENNETT ENGINEERS INC.

RYAN R. HASHIRO
 LICENSED PROFESSIONAL ENGINEER
 No. 8717-E
 HAWAII, U.S.A.
 LICENSE EXPIRES: 4/30/24

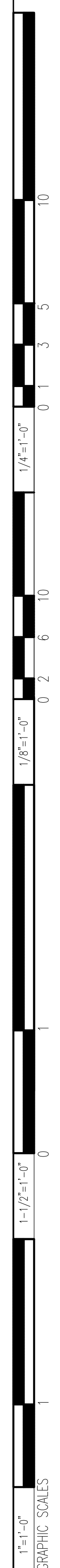
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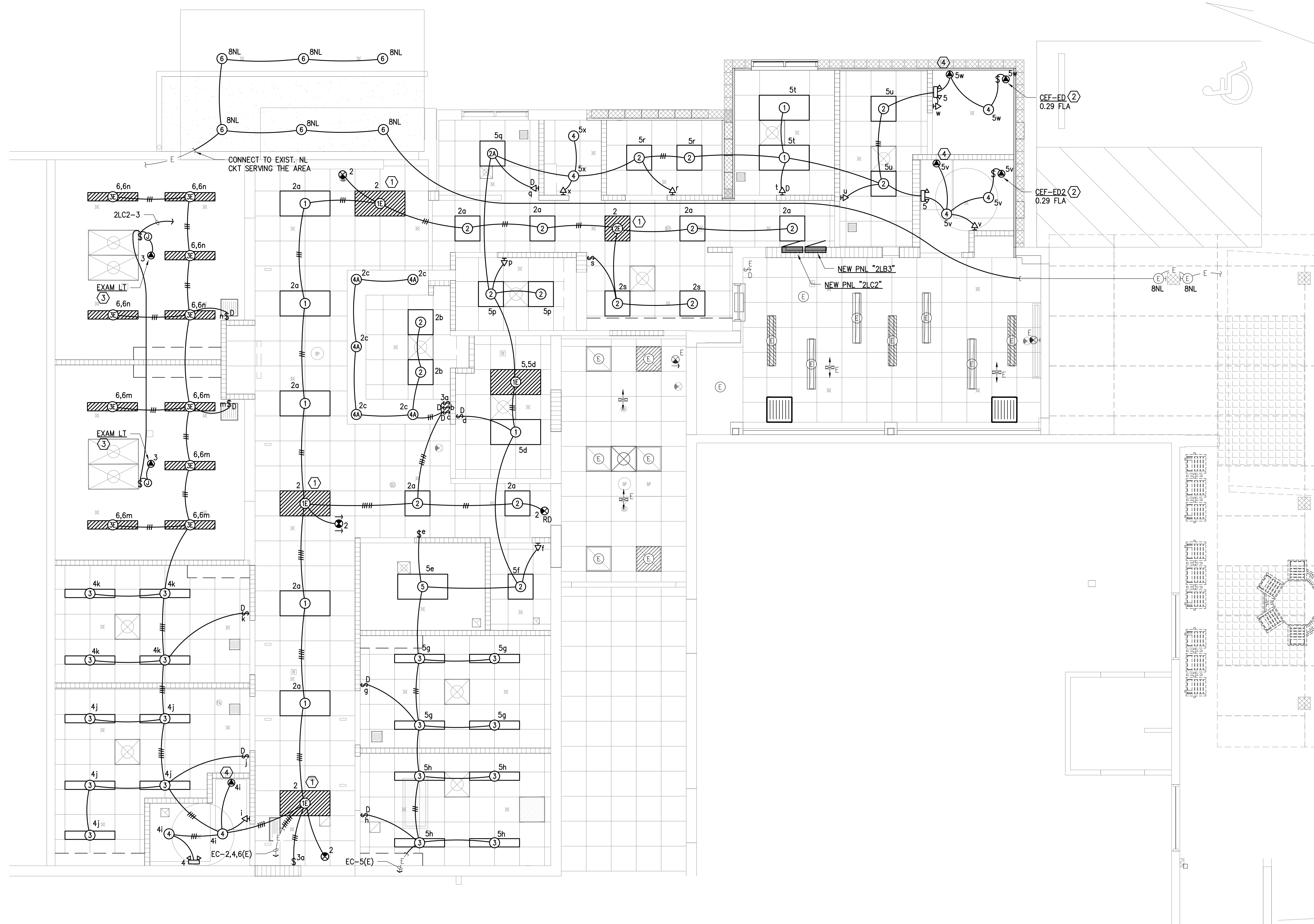
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SHEET **E001** DATE **January 24, 2024**
 47 OF 54 SHTS



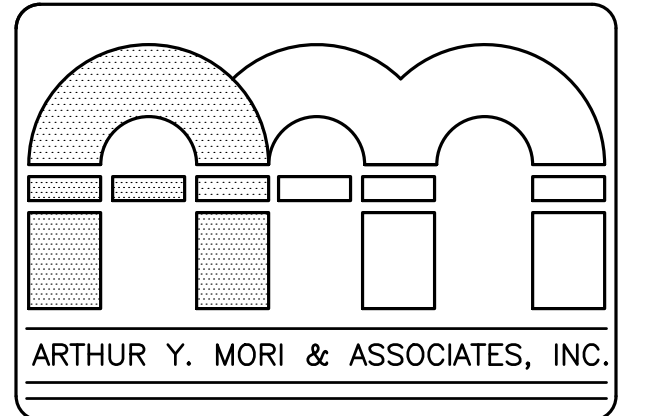


LIGHTING PLAN

SCALE: 1/4" = 1'-0"

NOTES:

- ① DENOTES UNSWITCHED (24-HOUR) LIGHT.
- ② PROVIDE 20A-1P N.F. TOGGLE DISC SW, HP-RATED, AT EQUIPMENT LOCATION.
- ③ PROVIDE 20A-1P N.F. TOGGLE DISC SW ABOVE CLG AT ACCESS PANEL LOCATION.
- ④ WALL-MTD. MIRROR LIGHT. PROVIDE DISCONNECTING MEANS AT LIGHT.



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SHEET TITLE LIGHTING PLAN

BENNETT ENGINEERS INC.

LICENSE EXPIRES: 4/30/24

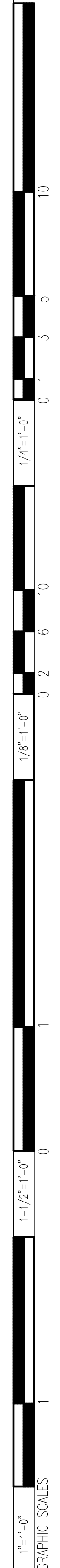
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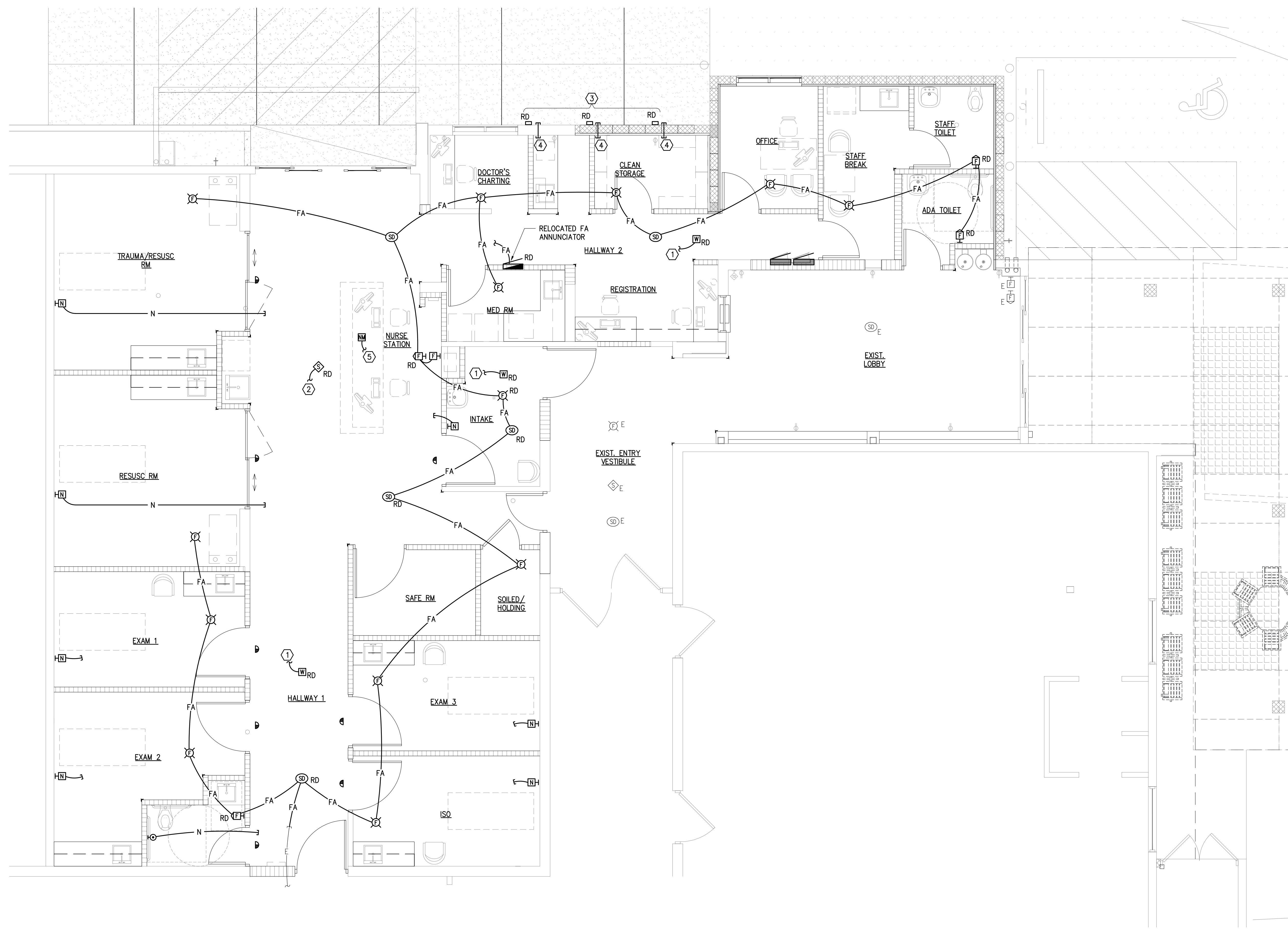
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E003
DATE January 24, 2024
49 OF 54 SHTS



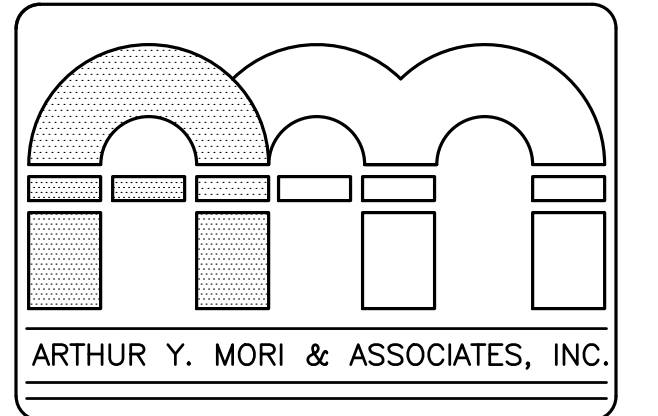


FIRE ALARM & SIGNAL PLAN

SCALE: 1/4" = 1' - 0"

NOTES:

- ① CONNECT TO EXISTING NETWORK WIRING. MAINTAIN EXISTING DEVICE FUNCTIONS.
- ② CONNECT TO EXISTING SPEAKER SYSTEM WIRING. MAINTAIN EXISTING DEVICE FUNCTIONS.
- ③ RELOCATED ANTENNAS BY OTHERS.
- ④ PROVIDE 2" CONDUIT SLEEVE THROUGH WALL AT ±10' FOR ANTENNA CABLES. SEAL OPENINGS AND GAPS AROUND CABLES TO PREVENT INGRESS OF WATER AND INSECTS.
- ⑤ TO FLOOR DATA J-BOX TO BE USED FOR NURSE CALL SYSTEM WIRING. SEE POWER & OUTLETS PLAN.



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SHEET TITLE FIRE ALARM PLAN

BENNETT ENGINEERS INC.

LICENSE EXPIRES: 4/30/24

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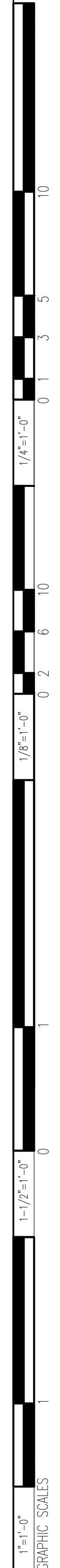
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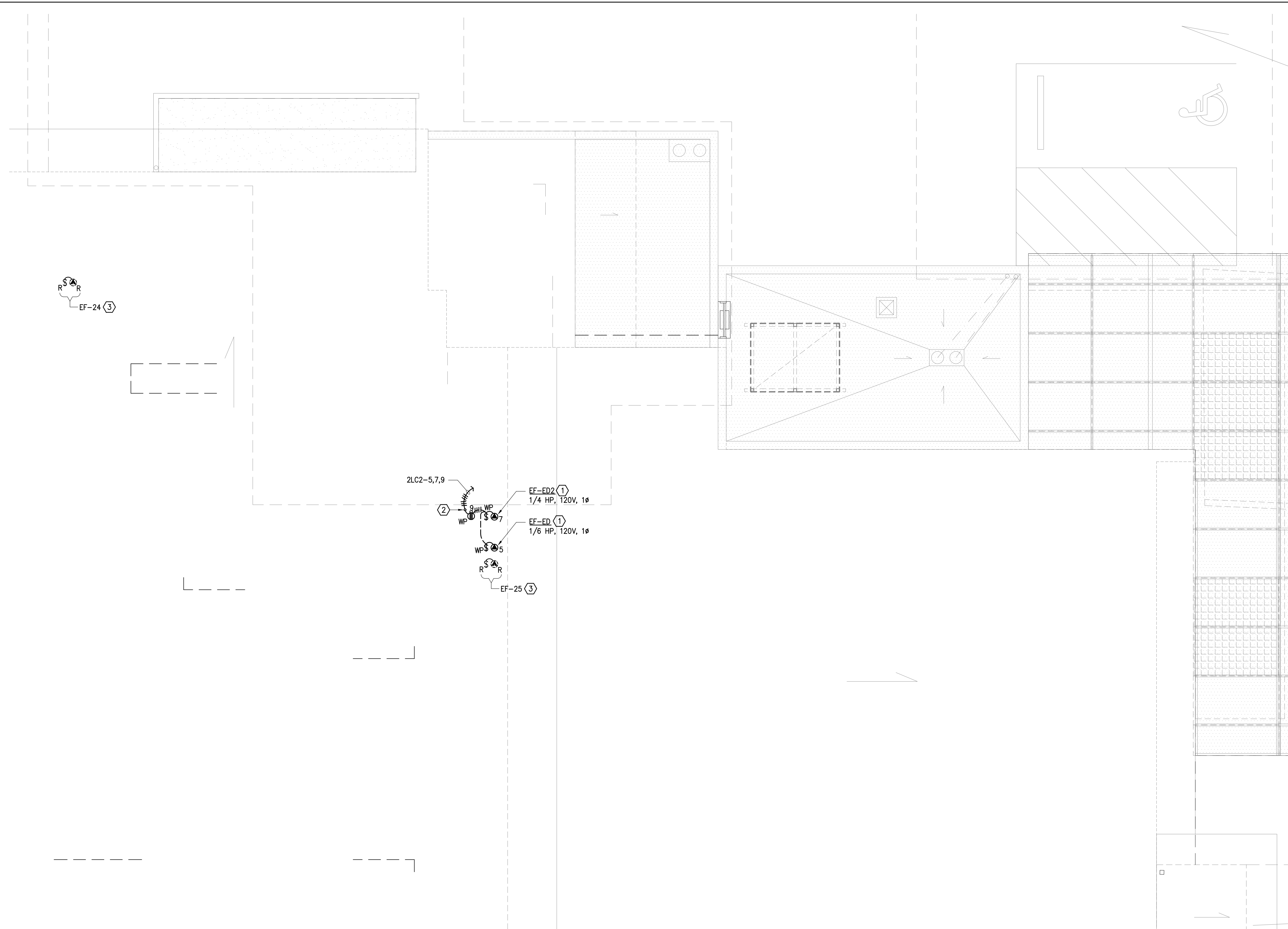
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SHEET E004 DATE January 24, 2024

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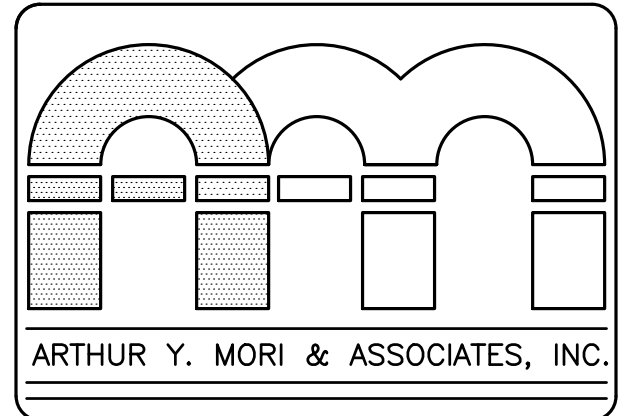


ROOF ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

NOTES:

- ① PROVIDE 20A-1P N.F. TOGGLE DISC SW, HP-RATED, WP, AT EQUIPMENT LOCATION.
- ② PROVIDE ALUMINUM FLASHING AND EDPM BOOT WITH WP SEALS AROUND ALL ROOFTOP CONDUIT PENETRATIONS.
- ③ REMOVE EXISTING EF CONNECTION & DISCONNECT SW.



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TWK 1-2-006.035

SHEET TITLE **ROOF ELECTRICAL PLAN**

BENNETT ENGINEERS INC.

LICENSE EXPIRES: 4/30/24

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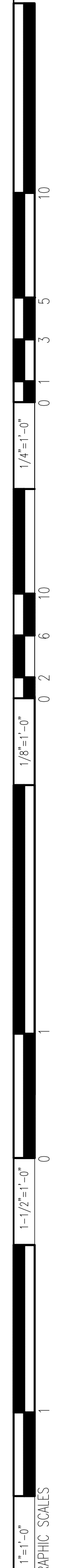
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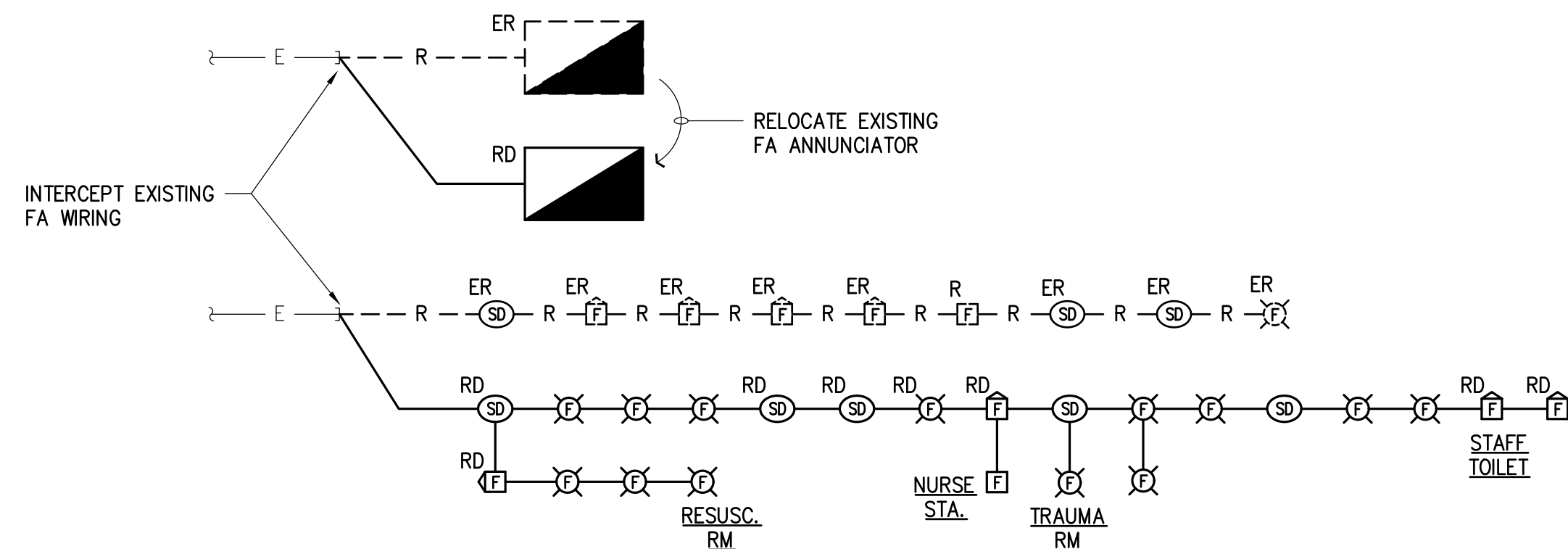
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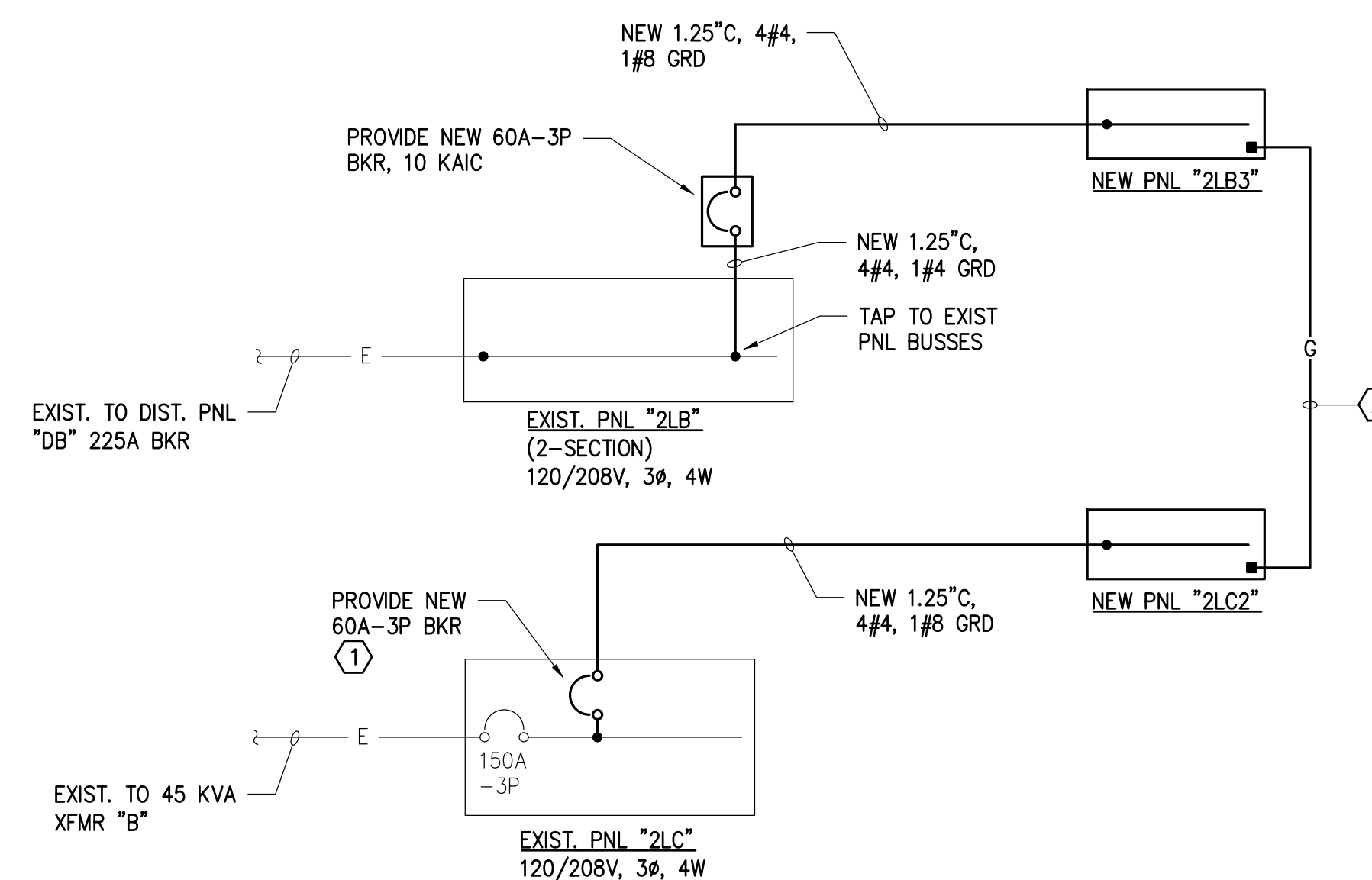




FIRE ALARM DIAGRAM

FIRE ALARM NOTES:

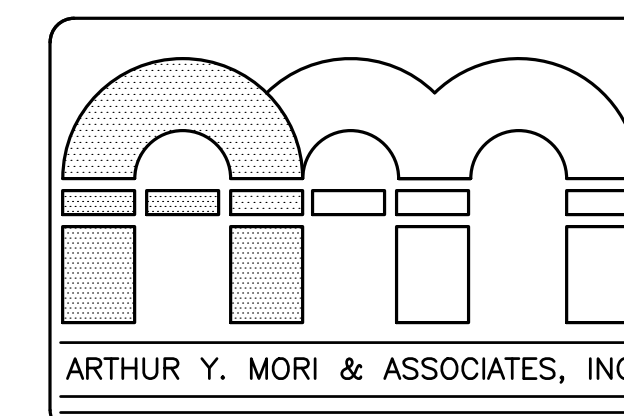
- ① FIRE SAFETY NOTE
STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION OPERATIONS, INCLUDING THOSE IN UNDERGROUND LOCATIONS, SHALL COMPLY WITH NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, AND THIS CHAPTER. 2018 NFPA 1.
- ② 4.5.1 AUTHORITY HAVING JURISDICTION (AHJ).
4.5.1.1 THE AHJ SHALL DETERMINE WHETHER THE PROVISIONS OF THIS CODE ARE MET.
4.5.1.2 WHERE IT IS EVIDENT THAT A REASONABLE DEGREE OF SAFETY IS PROVIDED, ANY REQUIREMENT SHALL BE PERMITTED TO BE MODIFIED IF ITS APPLICATION WOULD BE HAZARDOUS UNDER NORMAL OCCUPANCY CONDITIONS IN THE JUDGEMENT OF THE AHJ.
- ③ 10.1 FUNDAMENTAL REQUIREMENTS.
10.1.1 EVERY NEW AND EXISTING BUILDING OR STRUCTURE SHALL BE CONSTRUCTED, ARRANGED, EQUIPPED, MAINTAINED, AND OPERATED IN ACCORDANCE WITH THIS CODE SO AS TO PROVIDE A REASONABLE LEVEL OF LIFE SAFETY, PROPERTY PROTECTION, AND PUBLIC WELFARE FROM THE ACTUAL AND POTENTIAL HAZARDS CREATED BY FIRE, EXPLOSION, AND OTHER HAZARDOUS CONDITIONS.
- ④ 13.1.2 THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE PROPER TESTING AND MAINTENANCE OF THE EQUIPMENT AND SYSTEMS.
13.1.8 ALL FIRE PROTECTION SYSTEMS AND DEVICES SHALL BE MAINTAINED IN A RELIABLE OPERATING CONDITION AND SHALL BE REPLACED OR REPAIRED WHERE DEFECTIVE OR RECALLED.
13.1.9 WHENEVER IMPAIRMENTS, CRITICAL DEFICIENCIES, OR NONCRITICAL DEFICIENCIES ARE IDENTIFIED IN WATER-BASED FIRE PROTECTION SYSTEMS MAINTAINED IN ACCORDANCE WITH NFPA 25, THEY SHALL BE CORRECTED IN A TIME FRAME APPROVED BY THE AHJ.
13.1.10 THE AHJ SHALL BE NOTIFIED WHEN ANY FIRE PROTECTION SYSTEM IS OUT OF SERVICE AND ON RESTORATION OF SERVICE.
- ⑤ DETECTION, ALARM, AND COMMUNICATION SYSTEMS
13.7.1.1 WHERE BUILDING FIRE ALARM SYSTEMS OR AUTOMATIC FIRE DETECTORS ARE REQUIRED BY OTHER SECTIONS OF THIS CODE, THEY SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH NFPA 70, NFPA 72, NATIONAL FIRE ALARM CODE, AND SECTION 13.7., 2018 NFPA 1.
FIRE ALARM SYSTEM INSTALLATION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE, AND 2018 NFPA 1.
- ⑥ SYSTEM MANUFACTURER/INSTALLER RESPONSIBILITY.
THE SYSTEM MANUFACTURER/INSTALLER SHALL BE RESPONSIBLE FOR INSURING THAT THE DESIGN OF THEIR SYSTEM MEETS THE REQUIREMENTS OF THE NFPA 72, NATIONAL FIRE ALARM CODE, AND 2018 NFPA 1. ADDITIONAL SYSTEM DEVICES AND WIRING SHALL BE PROVIDED AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER IN ORDER TO MEET THESE REQUIREMENTS.
THE FIRE ALARM DEVICES AND LAYOUT SHOWN ON THE PLANS ARE NOT BASED ON ANY SPECIFIC MANUFACTURER'S DESIGN OR DEVICES, AND ARE INTENDED TO SHOW INTENT OF SYSTEM COVERAGE AND FEATURES ONLY.
- ⑦ AUDIBILITY
13.7.1.9.7 AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL BE OF SUCH CHARACTER AND SO DISTRIBUTED AS TO BE EFFECTIVELY HEARD ABOVE THE AVERAGE AMBIENT SOUND LEVEL THAT EXISTS UNDER NORMAL CONDITIONS OF OCCUPANCY. 2018 NFPA 1. [101:9.6.3.7]
13.7.1.9.8 AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL PRODUCE SIGNALS THAT ARE DISTINCTIVE FROM AUDIBLE SIGNALS USED FOR OTHER PURPOSES IN A GIVEN BUILDING. 2018 NFPA 1. [101:9.6.3.8]
- ⑧ AUDIBLE/VISIBLE SIGNALS
13.7.1.9.5 UNLESS OTHERWISE PROVIDED IN 13.7.1.9.5.1 THROUGH 13.7.1.9.5.8, NOTIFICATION SIGNALS FOR OCCUPANTS TO EVACUATE SHALL BE AUDIBLE AND VISIBLE SIGNALS IN ACCORDANCE WITH NFPA 72 AND ICC/ANSI A117.1, AMERICAN NATIONAL STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, OR OTHER MEANS OF NOTIFICATION ACCEPTABLE TO THE AHJ SHALL BE PROVIDED. [101:9.6.3.5]
13.7.1.9.5.1 AREAS NOT SUBJECT TO OCCUPANCY BY PERSONS WHO ARE HEARING IMPAIRED SHALL NOT BE REQUIRED TO COMPLY WITH THE PROVISIONS FOR VISIBLE SIGNALS. [101:9.6.3.5.1]
- ⑨ 13.7.3.2.1 APPROVAL AND ACCEPTANCE.
13.7.3.2.3.2 BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, IF REQUIRED BY THE AHJ, THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT STATING THAT THE SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH APPROVED PLANS AND TESTED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS AND THE APPROPRIATE NFPA REQUIREMENTS. [72:7.5.2]
13.7.3.2.3.6.2 THE RECORD OF COMPLETION FORM, FIGURE 10.18.2.1.1 OF NFPA 72, SHALL BE PERMITTED TO BE A PART OF THE WRITTEN STATEMENT REQUIRED IN 13.7.3.2.3.2 AND PART OF THE DOCUMENTS THAT SUPPORT THE REQUIREMENTS OF 13.7.3.2.3.8. WHEN MORE THAN ONE CONTRACTOR HAS BEEN RESPONSIBLE FOR THE INSTALLATION, EACH CONTRACTOR SHALL COMPLETE THE PORTIONS OF THE FORM FOR WHICH THAT CONTRACTOR HAD RESPONSIBILITY. [72:7.5.6.2] 2018 NFPA 1.
- ⑩ FIRE SAFETY DURING ALTERATION
16.4.4.1 WHERE THE BUILDING IS PROTECTED BY FIRE PROTECTION SYSTEMS, SUCH SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES DURING ALTERATION.
16.4.4.2 WHERE ALTERATION REQUIRES MODIFICATION OF A PORTION OF THE FIRE PROTECTION SYSTEM, THE REMAINDER OF THE SYSTEM SHALL BE KEPT IN SERVICE AND THE FIRE DEPARTMENT SHALL BE NOTIFIED.
16.4.4.3 WHEN IT IS NECESSARY TO SHUT DOWN THE SYSTEM, THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE ALTERNATE MEASURES OF PROTECTION UNTIL THE SYSTEM IS RETURNED TO SERVICE.
10.7.1.1 AS NECESSARY DURING EMERGENCIES, MAINTENANCE, DRILLS, PRESCRIBED TESTING, ALTERATIONS, OR RENOVATIONS, PORTABLE OR FIXED FIRE-EXTINGUISHING SYSTEMS OR DEVICES OR ANY FIRE-WARNING SYSTEM SHALL BE PERMITTED TO BE MADE INOPERATIVE OR INACCESSIBLE. A FIRE WATCH SHALL BE REQUIRED AS SPECIFIED IN SECTIONS 13.3.3.6.5.2(4), 13.7.1.4.4, 16.5.4, 34.6.3.3, 41.2.2.6, 41.2.2.7, 41.2.4, 41.3.5, 41.4.1, 34.5.4.3, AND 25.1.8 AT NO COST TO THE AHJ. NFPA 1 2018, AS AMENDED.
- ⑪ AHJ APPROVAL
13.1.1 THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE THAT CONSTRUCTION DOCUMENTS FOR ALL FIRE PROTECTION SYSTEMS BE SUBMITTED FOR REVIEW AND APPROVAL AND A PERMIT BE ISSUED PRIOR TO THE INSTALLATION, REHABILITATION, OR MODIFICATION. FURTHER, THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE THAT FULL ACCEPTANCE TESTS OF THE SYSTEMS BE PERFORMED IN THE AHJ'S PRESENCE PRIOR TO FINAL SYSTEM CERTIFICATION. FIRE ALARM SYSTEMS, FIRE HYDRANT SYSTEMS, FIRE-EXTINGUISHING SYSTEMS, STANDPIPES, AND OTHER FIRE-PROTECTION SYSTEMS AND APPURTENANCES REQUIRED BY THIS CODE SHALL BE APPROVED BY THE AHJ AS TO INSTALLATION AND LOCATION AND SHALL BE SUBJECT TO ACCEPTANCE TESTS REQUIRED BY THE APPROPRIATE COUNTY AGENCY. NFPA 1, CHAPTER 13 AS AMENDED.
- ⑫ VISUAL FLASHER PLACEMENTS SHOWN ON THE PLANS ARE INTENDED TO PROVIDE MAXIMUM VISIBILITY AT ALL POINTS WITHIN THE RESPECTIVE ROOMS. MINOR RELOCATION OF VISUAL FLASHERS TO FACILITATE INSTALLATION ARE ALLOWED AS LONG AS VISIBILITY OF DEVICES AND SIGNAL CIRCUIT VOLTAGE DROP LIMITS ARE NOT COMPROMISED.
- ⑬ ACTIVATION OF ANY FIRE ALARM INITIATING DEVICE SHALL SOUND A GENERAL ALARM THROUGHOUT THE SYSTEM, EXCEPT THAT INITIATING DEVICES INTENDED FOR THE PRIMARY PURPOSE OF MECHANICAL SYSTEM ACTIVATION/CONTROL (E.G. DUCT DETECTORS) SHALL CAUSE A SUPERVISORY CONDITION TO OCCUR IN THE SYSTEM.
- ⑭ NEW FIRE ALARM CONDUCTORS SHALL BE RUN IN SEPARATE RACEWAYS AND BOXES FROM LINE-VOLTAGE (120VAC) CONDUCTORS. NOTIFY THE ARCHITECT IF EXISTING F.A. CONDUITS AND PULLBOXES TO BE REUSED CONTAIN LINE-VOLTAGE WIRING SYSTEMS.
CONDUCTORS AND EQUIPMENT FOR POWER-LIMITED FIRE ALARM CIRCUITS SHALL BE INSTALLED IN ACCORDANCE WITH NEC 760.135 THROUGH 760.143 AND THE MANUFACTURER'S INSTRUCTIONS.
- ⑮ CABLES AND WIRES SHALL BE MARKED FOR IDENTIFICATION AT ALL ACCESSIBLE LOCATIONS (I.E. PANELS, J-BOXES AND PULLBOXES). MARKING MEANS SHALL BE OF A PERMANENT NATURE AND SECURELY ATTACHED TO THEIR RESPECTIVE CONDUCTORS.
- ⑯ UPON COMPLETION OF THE INSTALLATION OR ALTERATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE CHIEF. ALL FUNCTIONS OF THE SYSTEM SHALL BE TESTED.
- ⑰ ROH 18.5.2 RETENTION OF PLANS
ONE SET OF APPROVED PLANS, SPECIFICATIONS, AND COMPUTATIONS SHALL BE RETAINED BY THE BUILDING OFFICIAL FOR A PERIOD OF NOT LESS THAN 90 DAYS FROM DATE OF COMPLETION OF THE WORK COVERED THEREIN AND ONE SET OF APPROVED PLANS SHALL BE RETURNED TO THE APPLICANT AND SAID SET SHALL BE KEPT ON THE SITE OF WORK AT ALL TIMES DURING THE WORK AUTHORIZED THEREBY IS IN PROGRESS.
- ⑱ 1.14.4 REVIEW AND APPROVAL BY THE AHJ SHALL NOT RELIEVE THE APPLICANT OF THE RESPONSIBILITY OF COMPLIANCE WITH THIS CODE.
- ⑲ LIABILITY.
1.9.4 THIS CODE SHALL NOT BE CONSTRUED TO RELIEVE FROM OR LESSEN THE RESPONSIBILITY OF ANY PERSON OWNING, OPERATING, OR CONTROLLING ANY BUILDING OR STRUCTURE FOR ANY DAMAGES TO PERSONS OR PROPERTY CAUSED BY DEFECTS, NOR SHALL THE CODE ENFORCEMENT AGENCY OR ITS PARENT JURISDICTION BE HELD AS ASSUMING ANY SUCH LIABILITY BY REASON OF THE INSPECTIONS AUTHORIZED BY THIS CODE OR ANY PERMITS OR CERTIFICATES ISSUED UNDER THIS CODE.



ONE-LINE DIAGRAM

NOTES:

- ① REARRANGE EXISTING SPARE BKRS & PFB SPACES TO CREATE A 3P SPACE FOR THE NEW BKR.
- ② BOND PNL GROUND BUSES TOGETHER WITH 3/4"Ø, #6 CU.



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Waimea, Kauai HI 96796

TWK 1-2-006-005

SHEET TITLE ONE-LINE DIAGRAM, FIRE ALARM DIAGRAM

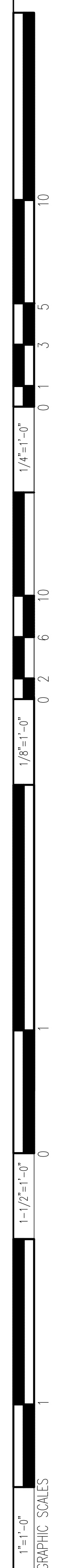
BENNETT ENGINEERS INC.

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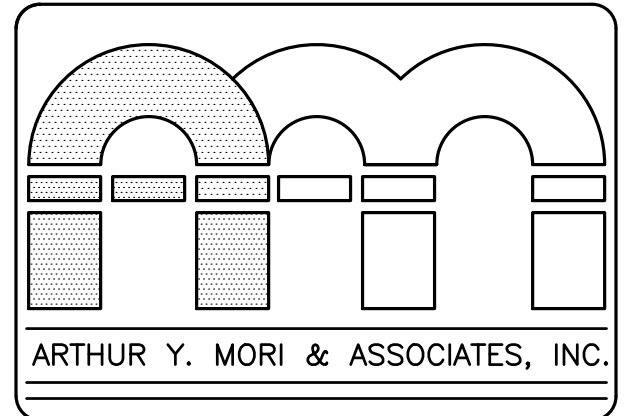
PANEL: "2LB3" (NEW)				120/208V, 3P, 4W			
MOUNTING: FLUSH				225A MAIN LUGS			
A.I.C.: 10,000				OPTIONS:			
CKT. NO.	TYPE OF LOAD	CKT. BKR. AMP	CONN. POLE KVA	CKT. NO.	TYPE OF LOAD	CKT. BKR. AMP	CONN. POLE KVA
1	Recept - Staff Break Rm	20 1	0.2	2	AC-ED	15 1	0.6
3	Recept - Staff fridge	20 1	0.4	4			0.5
5	Recept - Staff Bk ctr	20 1	0.2	6	AHU-29	15 3	0.5
7	Recept - Office	20 1	0.7	8			0.5
9	Recept - Reg.	20 1	0.7	10			0.4
11	Recept - Doc chart	20 1	0.2	12	AHU-30	15 3	0.4
13	Recept - Intake	20 1	0.2	14			0.4
15	Recept - Med Rm ctr	20 1	0.2	16	P F B	- 1	-
17	Recept - Med fridge	20 1	0.4	18	P F B	- 1	-
19	Recept - Med Pyxis	20 1	0.6	20	P F B	- 1	-
21	Recept - Med Pyxis	20 1	0.6	22	P F B	- 1	-
23	Recept - Nurse Sta	20 1	0.7	24	P F B	- 1	-
25	Recept - Nurse Sta	20 1	0.5	26	S P A R E	20 1	-
27	Recept - Trauma Rm	20 1	0.7	28	S P A R E	20 1	-
29	Recept - Trauma Rm	20 1	0.5	30	S P A R E	20 1	-
31	Recept - Resusc Rm	20 1	0.5	32	Recept - Radio niche	20 1	0.5
33	Recept - Resusc Rm	20 1	0.7	34	Recept - Safe Rm	20 1	0.4
35	Recept - Exam 1	20 1	0.5	36	Recept - Exam 3	20 1	0.5
37	Recept - Exam 1	20 1	0.7	38	Recept - Exam 3	20 1	0.7
39	Recept - Exam 2	20 1	0.7	40	Recept - Iso Rm	20 1	0.5
41	Recept - Exam 2	20 1	0.4	42	Recept - Iso Rm	20 1	0.7
10.3				6.6			

TOTAL CONNECTED KVA = 16.9 DEMAND KVA = 10

PANEL: "2LC2" (NEW)				120/208V, 3P, 4W			
MOUNTING: FLUSH				225A MAIN LUGS			
A.I.C.: 10,000				OPTIONS:			
CKT. NO.	TYPE OF LOAD	CKT. BKR. AMP	CONN. POLE KVA	CKT. NO.	TYPE OF LOAD	CKT. BKR. AMP	CONN. POLE KVA
1	FFU-ED	15 1	0.2	2	Recept - Trauma crsh ct	20 1	0.4
3	Exam lights	20 1	0.3	4	Recept - Trauma Rm	20 1	1.3
5	EF-ED	15 1	0.5	6	Recept - Resusc crsh ct	20 1	0.4
7	EF-ED2	15 1	0.7	8	Recept - Resusc Rm	20 1	1.3
9	Recept - Roof	20 1	0.2	10	Recept - Exam 1	20 1	0.7
11	Recept - Safe Rm	20 1	0.4	12	Recept - Exam 2	20 1	0.7
13	Door operator, eye cht	20 1	0.8	14	Recept - Exam 3	20 1	0.7
15	S P A R E	20 1	-	16	Recept - Iso Rm	20 1	0.7
17	S P A R E	20 1	-	18	Recept - Corridor	20 1	0.5
19	S P A R E	20 1	-	20	Recept - Blanket warmer	20 1	0.8
21	P F B	- 1	-	22	Recept - Nourish ctr	20 1	0.5
23	P F B	- 1	-	24	Recept - Ice mach.	20 1	0.5
25	P F B	- 1	-	26	Scrub sink	20 1	0.1
27	P F B	- 1	-	28	P F B	- 1	-
29	P F B	- 1	-	30	P F B	- 1	-
3.1				8.6			

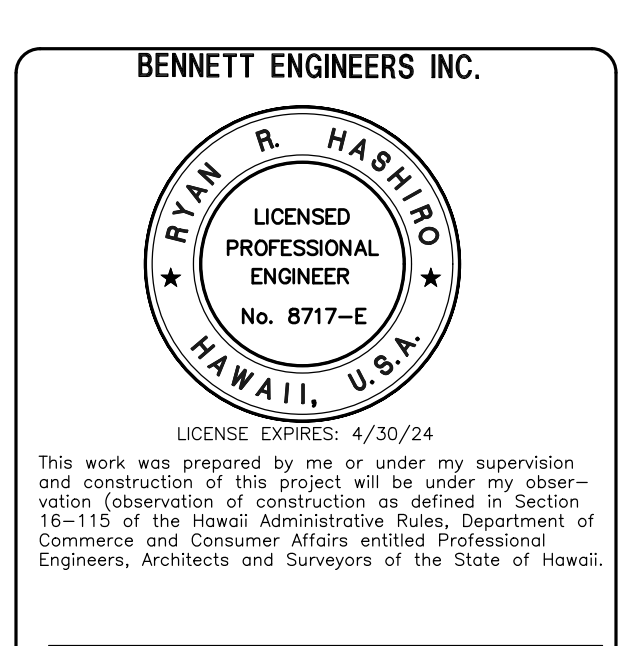
TOTAL CONNECTED KVA = 11.7 DEMAND KVA = 7

PANEL SCHEDULE NOTES:
 GFI DENOTES PROVIDE GFCI TYPE BREAKER



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 SHEET TITLE PANEL SCHEDULES



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SHEET **E007** DATE **January 24, 2024**
 53 OF 54 SHTS

