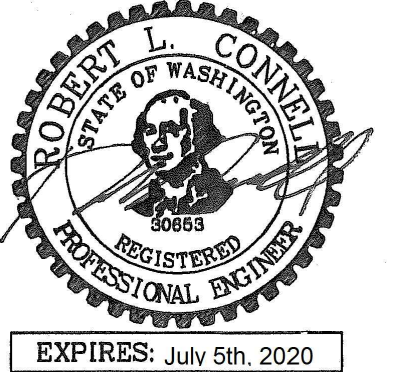


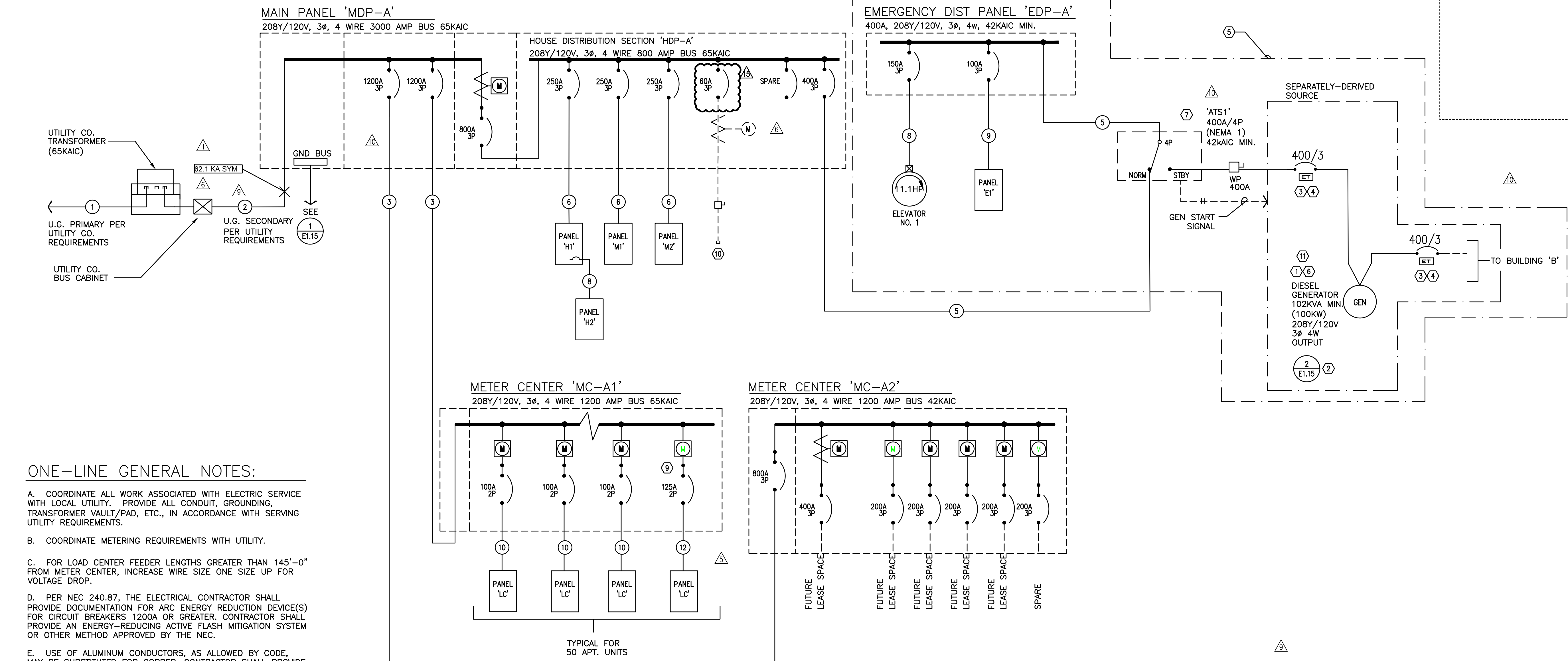
IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.PROJECT # 2017-053
DATE: 11/06/2019
REVISIONS

- PLAN REVIEW 01.24.2020
- PLAN REVIEW 03.13.2020
- PLAN REVIEW 04.24.2020
- PLAN REVIEW 08.10.2020
- PLAN REVIEW 09.17.2020
- PLAN REVIEW 10.16.2020
- PLAN REVIEW 11.25.2020
- PLAN REVIEW 03.26.2021
- PLAN REVIEW 07.15.2021
- COORDINATION 08.27.2021
- COORDINATION 11.05.2021
- COORDINATION 12.10.2021
- COORDINATION 03.03.2022

AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

E1.11



ONE-LINE GENERAL NOTES:

- COORDINATE ALL WORK ASSOCIATED WITH ELECTRIC SERVICE WITH LOCAL UTILITY. PROVIDE ALL CONDUIT, GROUNDING, TRANSFORMER VAULT/PAD, ETC., IN ACCORDANCE WITH SERVING UTILITY REQUIREMENTS.
- COORDINATE METERING REQUIREMENTS WITH UTILITY.
- FOR LOAD CENTER FEEDER LENGTHS GREATER THAN 145'-0" FROM METER CENTER, INCREASE WIRE SIZE ONE SIZE UP FOR VOLTAGE DROP.
- PER NEC 240.87, THE ELECTRICAL CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR ARC ENERGY REDUCTION DEVICE(S) FOR CIRCUIT BREAKERS 1200A OR GREATER. CONTRACTOR SHALL PROVIDE AN ENERGY-REDUCING ACTIVE FLASH MITIGATION SYSTEM OR OTHER METHOD APPROVED BY THE NEC.
- USE OF ALUMINUM CONDUCTORS, AS ALLOWED BY CODE, MAY BE SUBSTITUTED FOR COPPER. CONTRACTOR SHALL PROVIDE WRITTEN SUBSTITUTION REQUEST DEMONSTRATING THE THAT THE PROPOSED PRODUCT IS EQUIVALENT TO COPPER IN ALL ASPECTS.
- "SOLAR READY" WORK FOR FUTURE PHOTOVOLTAIC ARRAY SHALL BE PER THE ELECTRICAL REQUIREMENTS AS DEFINED BY THE WASHINGTON STATE ADMINISTRATION CODE, TITLE 51, CHAPTER 51, SECTION 60106.

ONE-LINE NOTES:

- ESTIMATED GENERATOR STARTING LOAD IS BASED ON THE ELEVATOR & FIRE PUMP MOTORS BEING PROVIDED WITH REDUCED STARTING.
- PROVIDE GROUND FOR SEPARATELY DERIVED SYSTEM PER NEC.
- PROVIDE ELECTRONIC TRIP CIRCUIT BREAKER. EXACT BREAKER TYPE, SETTINGS, ETC. TO BE VERIFIED AND AS DETERMINED BY SELECTIVE COORDINATION STUDY AS PERFORMED BY THE ELECTRICAL DISTRIBUTION EQUIPMENT MANUFACTURER.
- COORDINATE INSTALLATION OF OUTPUT BREAKERS WITH GENERATOR MANUFACTURER TO SELECTIVELY COORDINATE WITH POWER STUDY RECOMMENDATIONS.
- 'LIFE SAFETY' BRANCH TO MEET ALL REQUIREMENTS OF NEC 700. CONTRACTOR SHALL BE AWARE THAT MFIA HAS ATTEMPTED TO INDICATE EQUIPMENT AND SIZES THAT WILL SELECTIVELY COORDINATE, BUT WILL NOT BE KNOWN UNTIL ELECTRICAL EQUIPMENT MANUFACTURER PERFORMS THE REQUIRED POWER STUDIES AS SPECIFIED IN 26 05 73. CHANGES MAY BE NECESSARY AFTER THE BID.
- GENERATOR IS SIZED TO OPERATE ONLY ONE ELEVATOR AT A TIME. COORDINATE WITH ELEVATOR & GENERATOR PROVIDERS FOR AUTOMATIC SEQUENTIAL OPERATION AS REQUIRED UNDER ASME A17.1, SECTION 2.27.2.1 THROUGH 2.27.2.5.
- THE AUTOMATIC TRANSFER SWITCH FOR THE EMERGENCY PANEL "EDP" SHALL OPERATE SUCH THAT THE EGRESS LOADS ARE SWITCHED TO GENERATOR POWER WITHIN 10 SECONDS AND THE ELEVATOR(S) SWITCHED WITHIN 60 SECONDS OF A POWER FAILURE.
- CONSULT MECHANICAL, PLUMBING AND/OR FIRE ALARM PLANS AND VERIFY EXACT POWER REQUIREMENTS FOR THE FIRE PUMP.
- TWO BEDROOM APARTMENT UNITS SHALL HAVE 125A LOAD CENTERS. REFER TO THE TYPICAL DWELLING UNIT CALCULATIONS ON SHEET E1.17 FOR MORE INFORMATION.
- PROVIDE BREAKER AND DISCONNECT SWITCH FOR FUTURE PV SOLAR SYSTEM TO BE PROVIDED AND INSTALLED BY OTHERS.
- VENDOR TO PROVIDE GENERATOR SIZING BASED ON THE LOAD INFORMATION PROVIDED AND SUBMIT SIZING REPORT FOR APPROVAL.

BUILDING 'A'
ELECTRICAL ONE-LINE DIAGRAM1
E1.11

208/120v, 3ph, 4w

FEEDER SCHEDULE (COPPER)

NO.	AMPS	CONDUIT	CONDUCTOR
1		*4"	PER UTILITY CO. & (1) GND
2	3000A	*(8) 4"	ea. w/ (4) #500Kcmil & (1) #3/0 GND
3	1200A	*(3) 4"	ea w/ (4) #600Kcmil & (1) #3/0 GND
4	800A	*(2) 4"	ea w/ (4) #600Kcmil & (1) #1/0 GND
5	600A	(2) 3"	(4) #350Kcmil & (1) #1 GND
6	250A	2 1/2"	(4) #250Kcmil & (1) #4 GND
7	200A	2"	(4) #3/0 & (1) #6 GND
8	150A	2"	(4) #1/0 & (1) #6 GND
9	100A	1 1/2"	(4) #1 & (1) #8 GND
10	100A	1 1/2"	(3) #1 & (1) #8 GND
11	60A	1 1/4"	(4) #4 & (1) #10 GND
12	125A	1 1/2"	(3) #1 & (1) #6 GND

* PARALLEL FEEDERS PER UTILITY PROVIDER'S DIRECTION.

NOTES:

- REFER TO THE UTILITY PROVIDER'S DESIGN AND INCOMING SERVICE DIVISION OF RESPONSIBILITIES SHOWN ON SHEET E1.01 FOR ADDITIONAL INFORMATION.
- ALUMINUM CONDUCTORS MAY BE USED IN LIEU OF COPPER FOR SECONDARY FEEDERS.
- ALUMINUM CONDUCTORS MAY BE USED FOR FEEDERS OVER 100A.
- USE OF ALUMINUM FEEDERS SHALL BE AS ALLOWED BY THE NEC.

FEEDER SCHEDULE (ALUMINUM)

NO.	AMPS	CONDUIT	CONDUCTOR
1		*4"	PER UTILITY CO. & (1) GND
2	3000A	*(8) 4"	ea. w/ (4) #600 & (1) #3/0 GND
3	1200A	*(3) 3 1/2"	ea w/ (4) #500 & (1) #3/0 GND
4	800A	*(2) 3 1/2"	ea w/ (4) #400 & (1) #1/0 GND
5	600A	(2) 2 1/2"	(4) #250 & (1) #1 GND
6	250A	2 1/2"	(4) #350 & (1) #4 GND
7	200A	2 1/2"	(4) #250 & (1) #6 GND
8	150A	2"	(4) #3/0 & (1) #6 GND
9	100A	2"	(4) #2/0 & (1) #8 GND
10	100A	1 1/4"	(3) #1 & (1) #8 GND
11	60A	1"	(3) #4 & (1) #10 GND
12	125A	1 1/2"	(3) #2/0 & (1) #6 GND

M
F
I
A
INC.
Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
WWW.MFIA-ENG.COM
CONTACT: DENISE TAYLOR



EXPIRES: July 5th, 2020

IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.PROJECT # 2017-053
DATE: 11/06/2019
REVISIONS

- PLAN REVIEW 01.24.2020
- PLAN REVIEW 03.13.2020
- PLAN REVIEW 04.24.2020
- PLAN REVIEW 08.10.2020
- PLAN REVIEW 09.17.2020
- PLAN REVIEW 10.16.2020
- PLAN REVIEW 11.25.2020
- PLAN REVIEW 03.26.2021
- PLAN REVIEW 07.15.2021
- COORDINATION 08.27.2021
- COORDINATION 11.05.2021
- COORDINATION 12.10.2021
- COORDINATION 03.03.2022

AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660M
F
A
Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
INC. WWW.MFA-ENG.COM
CONTACT: DENISE TAYLOR

SHEET:

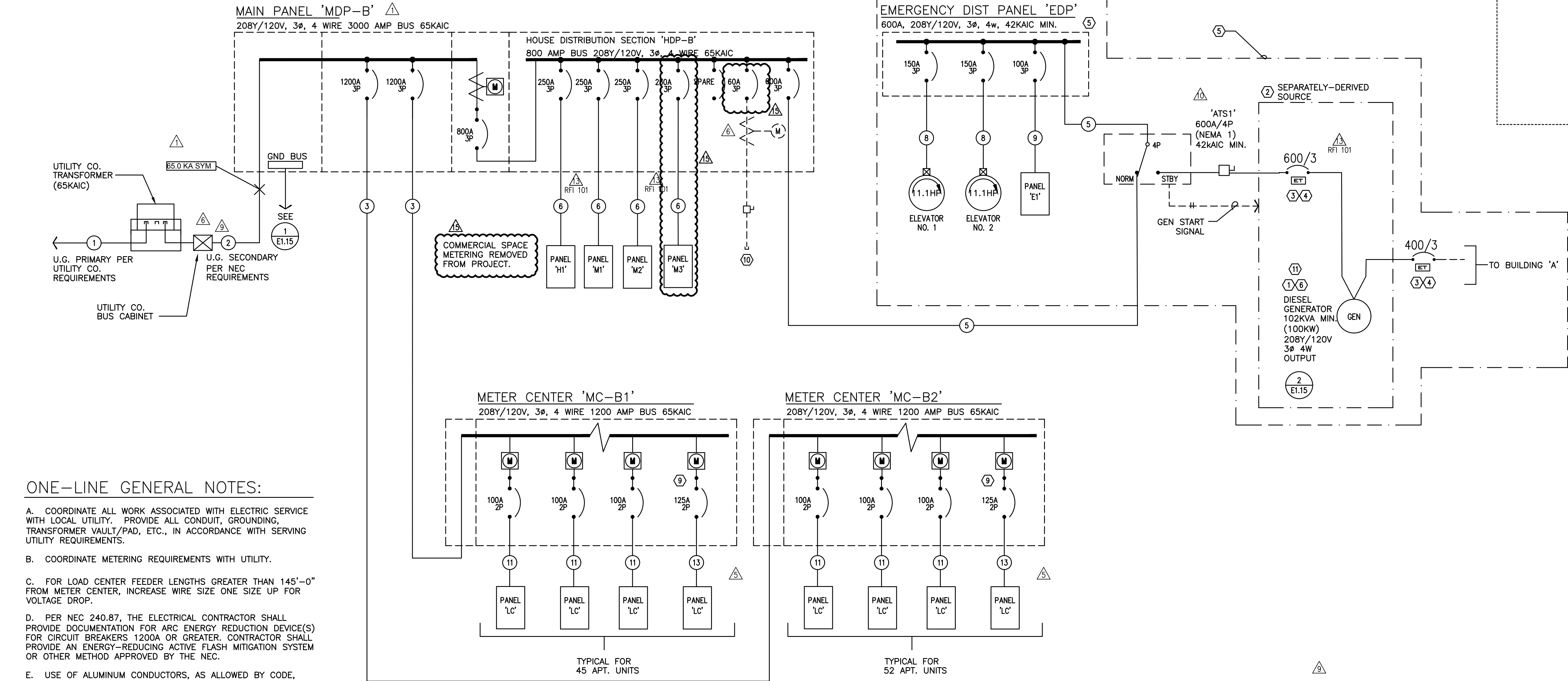
E1.13

MFA PANEL SCHEDULE											
panel			mounting SURFACE			location BLDG 'A'			connected load amps		
E1			2nd Flr Rm 294			52					
voltage			phase			bus & main			calculated load amps		
120/208V			3			100A SCCR: 22K MLO			55		
service	va	a/p	no.	a b c	no.	a/p	va	service	C		
SPARE		20/1	1	*	2	20/1	1500	SMOKE DAMPERS - FLR 1	5		
1 LIGHTS - BLDG EXTERIOR	500	20/1	3	*	4	20/1	1500	SMOKE DAMPERS - FLR 2&3	5		
1 LIGHTS - FLR 1 EGRESS	542	20/1	5	*	6	20/1	1500	SMOKE DAMPERS - FLR 4&5	5		
5 AREA OF REFUGE PANEL	500	20/1	7	*	8	20/1	1500	ELEVATOR PIT - LTS & PLUGS	2		
1 LIGHTS - STAIR 1	266	20/1	9	*	10	20/1	1500	ELEVATOR CAD LIGHTS	1		
1 LIGHTS - STAIR 2	266	20/1	11	*	12	20/1	1500	ELEVATOR CONTROLLER (OPT)	5		
1 LIGHTS - FLR 2 & 3 EGRESS	282	20/1	13	*	14	20/1	0	SPARE			
1 LIGHTS - FLR 4, 5 & 6 EGRESS	1500	20/1	15	*	16	20/1	1178	SP-1 (ELEVATOR PIT)	6		
1 LIGHTS - TERRACE	500	20/1	17	*	18	20/1	1500	ELEVATOR SMOKE CURTAINS	5		
5 FACP	500	20/1	19	*	20	20/1	500	EMERGENCY GAS SHUT OFF	5		
SPARE	0	20/1	21	*	22	20/1	500	EMERGENCY GAS SHUT OFF	5		
5 GENERATOR ANNUNCIATOR	500	20/1	23	*	24	20/1	500	RECEPT - ELEV MACH RM	2		
BLANK			25	*	26			BLANK			
BLANK			27	*	28			BLANK			
BLANK			29	*	30			BLANK			
BLANK			31	*	32			BLANK			
BLANK			33	*	34			BLANK			
BLANK			35	*	36			BLANK			
BLANK			37	*	38			BLANK			
BLANK			39	*	40			BLANK			
BLANK			41	*	42			BLANK			
Phase A	4782 VA							line-line voltage	208		
Phase B	6942 VA							largest motor (va)	0		
Phase C	6808 VA										
Total Connected	18532 VA										
load code:	ph. A	ph. B	ph. C	total	factor			calculated load (va)			
1. LIGHTS=	282	3786	1308	VA	5556	1.25		6695			
2. RECEPT=	1500	0	500	VA	2000	1 + 0.5		2000			
3. HEATING=	0	0	0	VA	0	1.00		0			
4. KITCHEN=	0	0	0	VA	0	1.00		0			
5. EQUIP=	3000	2000	5000	VA	10000	1.00		10000			
6. MOTORS=	0	1176	0	VA	1176	*		1176			
7. MISC=	0	0	0	VA	0	1.00		0			
(* 125% of the largest motor + 100% of the balance)									TOTAL =	19871	

MFA PANEL SCHEDULE											
panel			mounting SURFACE			location BLDG 'A'			connected load amps		
H1			2nd Flr Rm 294			160					
voltage			phase			bus & main			calculated load amps		
120/208V			3			250A SCCR: 22K MLO			155		
service	va	a/p	no.	a b c	no.	a/p	va	service	C		
1 LIGHTS - SITE/PARKING	500	20/1	1	*	2	20/1	1080	RECEPT - FLR 1	2		
1 LIGHTS - BLDG EXTERIOR	500	20/1	3	*	4	20/1	900	RECEPT - FLR 1	2		
1 LIGHTS - FLR 1 (LOBBY DECOR)	814	20/1	5	*	6	20/1	1080	RECEPT - FLR 1 (E. LOBBY)	2		
1 LIGHTS - FLR 1 (LOBBY & CORRID)	407	20/1	7	*	8	20/1	1500	RECEPT - FLR 1 (PKG SYSTEM)	2		
1 LIGHTS - FLR 1 (BOH)	464	20/1	9	*	10	20/1	1500	AUTO DOORS	5		
5 BUILDING SIGNS	1500	20/1	11	*	12	20/1	1440	RECEPT - FLR 1	2		
1 LIGHTS - FLR 2 & 3 (BOH)	566	20/1	13	*	14	20/1	1500	OH DOOR - TRASH ROOM	5		
5 UNIT ENTRY SYSTEM	1500	20/1	15	*	16	20/1	720	RECEPT - FLR 1 (W. LOBBY)	2		
1 LIGHTS - PLAZA	1500	20/1	17	*	18	20/1	500	PHONE BOARD	5		
SPARE	0	20/1	19	*	20	20/1	500	COMMUNICATIONS BOARD	5		
2 RECEPT - FLR 2	1080	20/1	21	*	22	20/1	1500	ACCESS CONTROL SYSTEM	5		
2 RECEPT - FLR 3	1080	20/1	23	*	24	20/1	500	EH-2 (N. STAIR)	3		
2 RECEPT - MAINT. RM	1500	20/1	25	*	26	20/1	500	EH-4 (RISER RM)	3		
2 SECURITY SYSTEM	1500	20/1	27	*	28	20/1	500	EH-2 (S. STAIR)	3		
5 DAS SYSTEM	1500	20/1	29	*	30	20/1	500	EH-2 (E. VESTIBULE)	3		
2 LEASE D&E (TEMP LTS & PLUGS)	1500	20/1	31	*	32	20/1	500	EH-2 (W. VESTIBULE)	3		
2 LEASE B&C (TEMP LTS & PLUGS)	1500	20/1	33	*	34	20/1	228	LIGHTS - FLR 2 & 3 (CORRIDOR)	1		
2 LEASE A (TEMP LTS & PLUGS)	1500	20/1	35	*	36	20/1	0	SPARE			
7 PANEL H2	8320	150/3	37	*	38	20/1	0	SPARE			
7 *	8054	*	39	*	40	20/1	0	SPARE			
7 *	7378	*	41	*	42	20/1	0	SPARE			
Phase A	18373 VA							line-line voltage	208		
Phase B	19946 VA							largest motor (va)	0		
Phase C	19282 VA										
Total Connected	57611 VA										
load code:	ph. A	ph. B	ph. C	total	factor			calculated load (va)			
1. LIGHTS=	1473	1192	2314	VA	4978	1.25		6224			
2. RECEPT=	5580	5700	5100	VA	16380	1 + 0.5		13190			
3. HEATING=	1000	500	1000	VA	2500	1.00		2500			
4. KITCHEN=	0	0	0	VA	0	1.00		0			
5. EQUIP=	2000	4500	3500	VA	10000	1.00		10000			
6. MOTORS=	0	0	0	VA	0	*		0			
7. MISC=	8320	8054	7378	VA	23752	1.00		23752			
(* 125% of the largest motor + 100% of the balance)									TOTAL =	55666	

MFA PANEL SCHEDULE											
panel			mounting SURFACE			location BLDG 'A'			connected load amps		
M1			2nd Flr Rm 292			174					
voltage			phase			bus & main			calculated load amps		
120/208V			3			250A (SCCR: 22K) MLO			174		
service	va	a/p	no.	a b c	no.	a/p	va	service	C		
6 TRASH COMPACTOR	2100	40/3	1	*	2	50/3	3864	BP-1	6		
6 *	2100	*	3	*	4	*	3864	*	6		
6 *	2100	*	5	*	6	*	3864	*	6		
6 TRASH COOMPACTOR	2100	40/3	7	*	8	20/3	1356	FC-1	6		
6 *	2100	*	9	*	10	*	1356	*	6		
6 *	2100	*	11	*	12	*	1356	*	6		
3 WH-1,2 (GAS)	600	20/1	13	*	14	20/2	1500	EH-5 (TRASH RM)	3		
6 RP-1	1176	20/1	15	*	16	*	1500	*	3		
6 SPARE	0	20/1	17	*	18	20/2	1500	EH-5 (BIKE RM)	3		
3 EH-3 (TEMP)	1500	20/2	19	*	20	*	1500	*	3		
3 *	1500	*	21	*	22	20/1	218	EF-3 (TRASH RM)	6		
3 EH-3 (TEMP)	1500	20/2	23	*	24	20/1	1500	DRINKING FOUNTAIN	5		
3 *	1500	*	25	*	26	20/1	500	RRIGATION CONTROLS	5		
3 EH-3 (TEMP)	1500	20/2	27	*	28	20/1	1500	RECEPT - DATA RM FLR 2	2		
3 *	1500	*	29	*	30	20/1	600	WH-3,4 (GAS)	3		
3 EH-3 (TEMP)	1500	20/2	31	*	32	20/1	1176	RP-2	6		
3 *	1500	*	33	*	34	40/2		EV CHARGING STATION (FUTURE)	5		
3 EH-3 (TEMP)	1500	20/2	35	*	36	*		*	5		
3 *	1500	*	37	*	38	20/1	1500	RECEPT - DATA RM FLR 2	2		
3 EH-3 (TEMP)	1500	20/2	39	*	40	20/1	1500	BUILDING SIGNS	5		
3 *	1500	*	41	*	42	20/1	0	SPARE			
Phase A	22196 VA							line-line voltage	208		
Phase B	21314 VA							largest motor (va)	0		
Phase C	19020 VA										
Total Connected	62530 VA										
load code:	ph. A	ph. B	ph. C	total	factor			calculated load (va)			
1. LIGHTS=	0	0	0	VA	0	1.25		0			
2. RECEPT=	1500	1500	0	VA	3000	1 + 0.5		3000			
3. HEATING=	9600	7500	8100	VA	25200	1.00		25200			
4. KITCHEN=	0	0	0	VA	0	1.00		0			
5. EQUIP=	500	1500	1500	VA	3500	1.00		3500			
6. MOTORS=	10596	10614	9420	VA	30830	*		30830			
7. MISC=	0	0	0	VA	0	1.00		0			
(* 125% of the largest motor + 100% of the balance)									TOTAL =	62530	

MFA PANEL SCHEDULE												
panel		mounting			location			connected load amps				
H2		SURFACE			BLDG 'A'						66	
					5th Flr Rm 584							
voltage		phase		bus & main			calculated load amps					
120/208V		3		150A SCOR: 22K			MLO			60		
C	service	va	a/p	no.	a	b	c	no.	a/p	va	service	C
1	LIGHTS - FLR 4, 5, & 6	650	20/1	1	*	*	*	2	20/1	1080	RECEPT - 4TH FLR	2
1	LIGHTS - COMMUNITY RM	1000	20/1	3	*	*	*	4	20/1	1080	RECEPT - 5TH FLR	2
	SPARE		20/1	5	*	*	*	6	20/1	1300	RECEPT - COMMUNITY RM	2
1	LIGHTS - TERRACE	500	20/1	7	*	*	*	8	20/1	450	RECEPT - COMMUNITY RM	2
2	RECEPT - TERRACE	1080	20/1	9	*	*	*	10	20/1	500	RECEPT - COMMUNITY RM	2
2	RECEPT - TERRACE	1280	20/1	11	*	*	*	12	20/1	1200	RECEPT - COMMUNITY RM	2
2	RECEPT - TERRACE	1280	20/1	13	*	*	*	14	20/1	1500	RECEPT - COMMUNITY RM	2
5	A/V SYSTEM	1500	20/1	15	*	*	*	16	20/1	1650	RECEPT - COMMUNITY RM	2
2	RECEPT - ROOF	1080	20/1	17	*	*	*	18	20/1	360	RECEPT - COMMUNITY RM	2
5	COMMUNITY RM FIREPLACE	500	20/1	19	*	*	*	20	20/1	1080	RECEPT - COMMUNITY RM	2
2	LANDSCAPE LIGHTING	524	20/1	21	*	*	*	22	20/1	720	RECEPT - COMMUNITY RM	2
5	LANDSCAPE LIGHTING	1950	20/1	23	*	*	*	24	20/1	228	LIGHTS - FLR 4 & 5 (CORRIDOR)	1
5	LANDSCAPE LIGHTING	1300	20/1	25	*	*	*	26	20/1	0	SPARE	
	SPARE		0	20/1	27	*	*	28	20/1	0	SPARE	
	BLANK				29	*	*	30			BLANK	
	BLANK				31	*	*	32			BLANK	
	BLANK				33	*	*	34			BLANK	
	BLANK				35	*	*	36			BLANK	
	BLANK				37	*	*	38			BLANK	
	BLANK				39	*	*	40			BLANK	
	BLANK				41	*	*	42			BLANK	
Phase A		8320 VA	NOTES:						line-line voltage			
Phase B		8054 VA										208
Phase C		7378 VA										
Total Connected		23752 VA							largest motor (va)			0
load code:			ph. A	ph. B	ph. C	total	factor	calculated load (va)				
1. LIGHTS=		1150	1000		228	VA	1.35				2973	
2. RECEPT =		5370	5030		5200	VA	15600	1 + 0.5			12800	
3. HEATING=					0	VA	0	1.00			0	
4. KITCHEN=					0	VA	0	1.00			0	
5. EQUIP =		1800	2024		1950	VA	5774	1.00			5774	
6. MOTORS=		0	0		0	VA	0	*			0	
7. MISCS=		0	0		0	VA	0	1.00			0	
(* 125% of the largest motor + 100% of the balance)							TOTAL=			21547		



ONE-LINE GENERAL NOTES:

- A. COORDINATE ALL WORK ASSOCIATED WITH ELECTRIC SERVICE WITH LOCAL UTILITY. PROVIDE ALL CONDUIT, GROUNDING, TRANSFORMER VAULT/PAD, ETC., IN ACCORDANCE WITH SERVING UTILITY REQUIREMENTS.
- B. COORDINATE METERING REQUIREMENTS WITH UTILITY.
- C. FOR LOAD CENTER FEEDER LENGTHS GREATER THAN 145'-0" FROM METER CENTER, INCREASE WIRE SIZE ONE SIZE UP FOR VOLTAGE DROP.
- D. PER NEC 240.87, THE ELECTRICAL CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR ARC ENERGY REDUCTION DEVICE(S) FOR CIRCUIT BREAKERS 1200A OR GREATER. CONTRACTOR SHALL PROVIDE AN ENERGY-REDUCING ACTIVE FLASH MITIGATION SYSTEM OR OTHER METHOD APPROVED BY THE NEC.
- E. USE OF ALUMINUM CONDUCTORS, AS ALLOWED BY CODE, MAY BE SUBSTITUTED FOR COPPER. CONTRACTOR SHALL PROVIDE WRITTEN SUBSTITUTION REQUEST DEMONSTRATING THE THAT THE PROPOSED PRODUCT IS EQUIVALENT TO COPPER IN ALL ASPECTS.
- F. "SOLAR READY" WORK FOR FUTURE PHOTOVOLTAIC ARRAY SHALL BE PER THE ELECTRICAL REQUIREMENTS AS DEFINED BY THE WASHINGTON STATE ADMINISTRATION CODE, TITLE 51, CHAPTER 51, SECTION 60106.

ONE-LINE NOTES:

- 1. ESTIMATED GENERATOR STARTING LOAD IS BASED ON THE ELEVATOR MOTOR(S) BEING PROVIDED WITH REDUCED STARTING.
- 2. PROVIDE GROUND FOR SEPARATELY DERIVED SYSTEM PER NEC.
- 3. PROVIDE ELECTRONIC TRIP CIRCUIT BREAKER. EXACT BREAKER TYPE, SETTINGS, ETC. TO BE VERIFIED AND AS DETERMINED BY SELECTIVE COORDINATION STUDY AS PERFORMED BY THE ELECTRICAL DISTRIBUTION EQUIPMENT MANUFACTURER.
- 4. COORDINATE INSTALLATION OF OUTPUT BREAKERS WITH GENERATOR MANUFACTURER TO SELECTIVELY COORDINATE WITH POWER STUDY RECOMMENDATIONS.
- 5. 'LIFE SAFETY' BRANCH TO MEET ALL REQUIREMENTS OF NEC 700. CONTRACTOR SHALL BE AWARE THAT MFIA HAS ATTEMPTED TO INDICATE EQUIPMENT AND SIZES THAT WILL SELECTIVELY COORDINATE, BUT WILL NOT BE KNOWN UNTIL ELECTRICAL EQUIPMENT MANUFACTURER PERFORMS THE REQUIRED POWER STUDIES AS SPECIFIED IN 26 05 73. CHANGES MAY BE NECESSARY AFTER THE BID.
- 6. GENERATOR IS SIZED TO OPERATE ONLY ONE ELEVATOR AT A TIME. COORDINATE WITH ELEVATOR & GENERATOR PROVIDERS FOR AUTOMATIC SEQUENTIAL OPERATION AS REQUIRED UNDER ASME A17.1, SECTION 2.27.2.1 THROUGH 2.27.2.5.
- 7. THE AUTOMATIC TRANSFER SWITCH FOR THE EMERGENCY PANEL "EDP" SHALL OPERATE SUCH THAT THE EGRESS LOADS ARE SWITCHED TO GENERATOR POWER WITHIN 10 SECONDS AND THE ELEVATOR(S) SWITCHED WITHIN 60 SECONDS OF A POWER FAILURE.
- 8. CONSULT MECHANICAL, PLUMBING AND/OR FIRE ALARM PLANS AND VERIFY EXACT POWER REQUIREMENTS FOR THE FIRE PUMP.
- 9. TWO BEDROOM APARTMENT UNITS SHALL HAVE 125A LOAD CENTERS. REFER TO THE TYPICAL DWELLING UNIT CALCULATIONS ON SHEET E1.17 FOR MORE INFORMATION.
- 10. PROVIDE BREAKER AND DISCONNECT SWITCH FOR FUTURE PV SOLAR SYSTEM TO BE PROVIDED AND INSTALLED BY OTHERS.

FEEDER SCHEDULE (COPPER)				
NO.	AMPS	CONDUIT	CONDUCTOR	
1		*4"	PER UTILITY CO.	& (1) GND
2	3000A	*(8) 4"	ea. w/ (4) #500Kcmil	& (1) #3/0 GND
3	1200A	*(3) 4"	ea w/ (4) #600Kcmil	& (1) #3/0 GND
4	800A	*(2) 4"	ea w/ (4) #600Kcmil	& (1) #1/0 GND
5	600A	(2) 3"	(4) #350Kcmil	& (1) #1 GND
6	250A	2 1/2"	(4) #250Kcmil	& (1) #4 GND
7	200A	2"	(4) #3/0	& (1) #6 GND
8	150A	2"	(4) #1/0	& (1) #6 GND
9	100A	1 1/2"	(4) #1	& (1) #8 GND
10	100A	1 1/2"	(3) #1	& (1) #8 GND
11	60A	1 1/4"	(4) #4	& (1) #10 GND
12	125A	1 1/2"	(3) #1	& (1) #6 GND

* PARALLEL FEEDERS PER UTILITY PROVIDER'S DIRECTION.

FEEDER SCHEDULE (ALUMINUM)				
NO.	AMPS	CONDUIT	CONDUCTOR	
1		*4"	PER UTILITY CO.	& (1) GND
2	3000A	*(8) 4"	ea. w/ (4) #600	& (1) #3/0 GND
3	1200A	*(3) 3 1/2"	ea w/ (4) #500	& (1) #3/0 GND
4	800A	*(2) 3 1/2"	ea w/ (4) #400	& (1) #1/0 GND
5	600A	(2) 2 1/2"	(4) #250	& (1) #1 GND
6	250A	2 1/2"	(4) #350	& (1) #4 GND
7	200A	2 1/2"	(4) #250	& (1) #6 GND
8	150A	2"	(4) #3/0	& (1) #6 GND
9	100A	2"	(4) #2/0	& (1) #8 GND
10	100A	1 1/4"	(3) #1	& (1) #8 GND
11	60A	1"	(3) #4	& (1) #10 GND
12	125A	1 1/2"	(3) #2/0	& (1) #6 GND

- NOTES:
 - 1. REFER TO THE UTILITY PROVIDER'S DESIGN AND INCOMING SERVICE DIVISION OF RESPONSIBILITIES SHOWN ON SHEET E1.01 FOR ADDITIONAL INFORMATION.
 - 2. ALUMINUM CONDUCTORS MAY BE USED IN LIEU OF COPPER FOR SECONDARY FEEDERS.
 - 3. ALUMINUM CONDUCTORS MAY BE USED FOR FEEDERS OVER 100A.
 - 4. USE OF ALUMINUM FEEDERS SHALL BE AS ALLOWED BY THE NEC.

Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
WWW.MFIA-ENG.COM
CONTACT: DENISE TAYLOR



IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2017-053
DATE: 11/06/2019
REVISIONS
PLAN REVIEW 01.24.2020
PLAN REVIEW 03.13.2020
PLAN REVIEW 04.24.2020
PLAN REVIEW 08.10.2020
PLAN REVIEW 09.17.2020
PLAN REVIEW 10.16.2020
PLAN REVIEW 11.25.2020
PLAN REVIEW 03.26.2021
PLAN REVIEW 07.15.2021
COORDINATION 08.27.2021
COORDINATION 11.05.2021
COORDINATION 12.10.2021
COORDINATION 03.03.2022

Aegis I - Bldg B Main distribution Center "MDP-B"						
LOAD	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS
PANEL H1	7,438	12,440	1,500	0	8,500	0
PANEL M1/M2	1,047	4,320	25,370		500	99,551
PANEL E1	7,280	1,500	500		11,000	2,352
PANEL M3	13,250	32,184			7,500	18,720
Elevator 1 (15hp)						17,388
Elevator 2 (15hp)						17,388
Residential Meters (MC-B1)				336,000		
Residential Meters (MC-B2)				352,000		
SUBTOTAL	15,765	31,510	59,554	688,000	27,500	155,399
X-FACTOR	1.25	1 + 5	1	1	1	0.25
CODE LOAD	19,706	20,755	59,554	688,000	27,500	155,399

CONN LOAD:	995	KVA
VOLTS:	208	3ph
TOTAL CALC:	975	KVA
CALC AMPS:	2707	AMPS

Aegis I - Bldg B Emergency Distribution Panel "EDP-B"						
LOAD	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS
Panel E1	4,733	1,500	500	0	11,000	2,352
Elevator 1 (15hp)						17,388
Elevator 2 (15hp)						17,388
SUBTOTAL	4,733	1,500	500	0	11,000	37,128
X-FACTOR	1.25	1 + 5	1	1	1	0.25
CODE LOAD:	5,916	1,500	500	0	11,000	37,128

CONN LOAD: 72 KVA

VOLTS:	208	3ph
TOTAL CALC:	60	KVA
CALC AMPS:	168	AMPS

NOTE: BASED ON TOTAL CONNECTED LOAD, AND ESTIMATED LOAD FOR THE LEAST SPACE, THIS SERVICE PANEL IS AT FULL CAPACITY. NO ADDITIONAL LOADS SHALL BE CONNECTED WITHOUT COMPLETE REVIEW OF THE CONNECTED LOAD AS INSTALLED BY THE CONTRACTOR.

Aegis I - Bldg A & B Generator Load Summary						
LOAD	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS
Panel EDP-Bldg A				42,000		
Panel EDP-Bldg B				60,000		
SUBTOTAL	0	0	0	102,000	0	0
X-FACTOR	1.25	1 + 5	1	1	1	0.25
CODE LOAD:	0	0	0	102,000	0	0

CONN LOAD: 102 KVA

VOLTS:	208	3ph
TOTAL CALC:	102	KVA
CALC AMPS:	283	AMPS

Aegis I - Bldg B RESIDENTIAL LOAD SUMMARY 'MC-B1'													
UNIT TYPE:	QTY PER FLOOR						TOTAL	AREA (SF)	LTG/RECEPT (3VA / SF)	SM APPL (1500VA X 2)	LAUNDRY (1500VA)	COOKING GAS (CONNECTED)	MICROWAVE (CONNECTED)
	Lv 1	Lv 2	Lv 3	Lv 4	Lv 5	Lv 6							
Studio	0	2	2	2	2	2	10	540	1620	3000	1500	8000	1500
1bed/1bath	0	4	4	4	4	4	20	750	2250	3000	1500	8000	1500
2bed/2bath	0	3	3	3	3	3	15	985	2955	3000	1500	8000	1500
TOTALS:	0	9	9	9	9	9	45	35175	105525	135000	67500	360000	67500

VOLTS: 208 3ph
TOTAL CONNECTED: 1244 KVA
DEMAND FACTOR: 0.27
TOTAL CALCULATED: 336 KVA
CALCULATED AMPS: 932
NOTE: Based on Total Number of Residential Units = 43-45 (See N.E.C. Article: 220.84)

Aegis I - Bldg B RESIDENTIAL LOAD SUMMARY 'MC-B2'													
UNIT TYPE:	QTY PER FLOOR						TOTAL	AREA (SF)	LTG/RECEPT (3VA / SF)	SM APPL (1500VA X 2)	LAUNDRY (1500VA)	COOKING GAS (CONNECTED)	MICROWAVE (CONNECTED)
	Lv 1	Lv 2	Lv 3	Lv 4	Lv 5	Lv 6							
Studio	3	2	2	2	2	2	13	540	1620	3000	1500	8000	1500
1bed/1bath	2	5	5	5	5	5	27	750	2250	3000	1500	8000	1500
2bed/2bath	2	2	2	2	2	2	12	985	2955	3000	1500	8000	1500
TOTALS:	7	9	9	9	9	9	52	39090	117270	156000	78000	416000	78000

VOLTS: 208 3ph
TOTAL CONNECTED: 1409 KVA
DEMAND FACTOR: 0.25
TOTAL CALCULATED: 352 KVA
CALCULATED AMPS: 978
NOTE: Based on Total Number of Residential Units = 51-55 (See N.E.C. Article: 220.84)

BUILDING 'B' LOAD SUMMARY & EQUIPMENT SCHEDULE

1
E1.15
SCALE: NONE

BUILDING 'B' MECHANICAL EQUIPMENT SCHEDULE

NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
BS-1	BRANCH SELECTOR BOX NO.1		208	1	0.5 MCA	1/2"	#12	#12	SEE UNIT PLANS
EF-1	EXHAUST FAN NO.1	9.9HP	120	1		1/2"	#12	#12	SEE UNIT PLANS
EF-2	EXHAUST FAN NO.2	10.8HP	120	1		1/2"	#12	#12	SEE UNIT PLANS
EF-3	EXHAUST FAN NO.3	8.2HP	120	1		1/2"	#12	#12	SEE E3.01
EF-4	EXHAUST FAN NO. 4	135W	120	1		1/2"	#12	#12	M1-21
EF-5	EXHAUST FAN NO.5	1/10HP	120	1		1/2"	#12	#12	M1-32,34,36
EF-6	EXHAUST FAN NO.6	1/4HP	120	1		1/2"	#12	#12	M2-5
EF-7	EXHAUST FAN NO.7	57W	120	1		1/2"	#12	#12	M2-32
EF-8	EXHAUST FAN NO.8	1/2HP	120	1		1/2"	#12	#12	M2-25
EF-9	EXHAUST FAN NO.9	3/4HP	120	1		1/2"	#12	#12	M2-27,29
EF-10	EXHAUST FAN NO.10	1/2HP	120	1		1/2"	#12	#12	M2-31
EF-11	EXHAUST FAN NO.11	1/2HP	120	1		1/2"	#12	#12	M2-33
EF-12	EXHAUST FAN NO.12	3/4HP	120	1		1/2"	#12	#12	M2-26,28
EF-13	EXHAUST FAN NO.13	1/2HP	120	1		1/2"	#12	#12	M2-30
EH-1	ELECTRIC WALL HEATER NO.1	1.5 KW	208	1		1/2"	#12	#12	SEE UNIT PLANS
EH-2	ELECTRIC WALL HEATER NO.2	500W	120	1		1/2"	#12	#12	SEE E3.01
EH-3	ELECTRIC WALL HEATER NO.3	3.0 KW	208	1		1/2"	#12	#12	SEE E3.01
EH-4	ELECTRIC WALL HEATER NO.4	500W	208	1		1/2"	#12	#12	H1-26
EH-5	ELECTRIC WALL HEATER NO.5	3.0 KW	208	1		1/2"	#12	#12	SEE E3.01
EH-6	ELECTRIC WALL HEATER NO.6	2.0 KW	120	1		1/2"	#12	#12	SEE UNIT PLANS
FC-1	FAN COIL UNIT NO.1	11.3KW	208	3		1/2"	#12	#12	M1-8,10,12
HP-1	HEAT PUMP NO.1		208	3	31.4MCA	3/4"	#6	#10	M2-14,16,18
FC-2	FAN COIL UNIT NO.2		208	3	44.7MCA	1"	#6	#10	H2-15,17,19
HP-2	HEAT PUMP NO.2		208	3	26.0MCA	3/4"	#8	#10	H2-20,22,24
FC-3	FAN COIL UNIT NO.3		208	3	44.7MCA	1"	#6	#10	H2-21,23,25
HP-3	HEAT PUMP NO.3		208	3	26.0MCA	3/4"	#6	#10	H2-26,28,30
IAC-1	MINI SPLIT SYST NO.1 (INDOOR)								
OAC-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	28.0 MCA	1/2"	#10	#10	M2-7,9
IAC-2	MINI SPLIT SYST NO.2 (INDOOR)								
OAC-2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	28.0 MCA	1/2'	#10	#10	M2-8,10
IHP-1	MINI SPLIT SYST NO.1 (INDOOR) (A & B)								
OHP-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	25.0 MCA	3/4"	#8	#10	SEE UNIT PLANS
IHP-2	MINI SPLIT SYST NO.2 (INDOOR) (A & B)								
OHP-2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
IHP-3	MINI SPLIT SYST NO.3 (INDOOR) (A & B)								
OHP-3	MINI SPLIT SYST NO.3 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
IHP-4	MINI SPLIT SYST NO.4 (INDOOR)								
OHP-4	MINI SPLIT SYST NO.4 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
IHP-5	MINI SPLIT SYST NO.5 (INDOOR)								
OHP-5	MINI SPLIT SYST NO.5 (OUTDOOR)		208	1	18.7 MCA	1/2"	#12	#12	SEE UNIT PLANS
RTU-1	AIR HANDLING UNIT NO.1		208	3	71.6MCA	1-1/4'	#2	#8	M2-1,3,5
RTU-2	AIR HANDLING UNIT NO.2		208	3	31.0 MCA	3/4'	#6	#10	M2-7,9,11
PTAC-1	THRU-WALL AC NO.1	3.5KW	208	1	10.6 MCA	1/2"	#12	#12	REFER TO UNIT PLANS
PTAC-2	THRU-WALL AC NO.2	3.5KW	208	1	12.1 MCA	1/2"	#10	#10	REFER TO UNIT PLANS
SF-1	SUPPLY FAN NO.1	12.2KW	208	1		1/2"	#12	#12	M1-35,37
SP-1	SUMP PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	E1-16
RP-1	RECIRC PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	M1-15
RP-2	RECIRC PUMP NO.2	1/2HP	120	1		1/2"	#12	#12	M1-16
BP-1	BOOSTER PUMP NO.1	(2) 5HP	208	3		3/4"	#6	#10	M1-2,4,6
WH-1	WATER HEATER NO.1 (GAS)		120	1		1/2"	#12	#12	M1-13 (PC)
WH-2	WATER HEATER NO.2 (GAS)		120	1		1/2"	#12	#12	M1-13 (PC)
WH-3	WATER HEATER NO.3 (GAS)		120	1		1/2"	#12	#12	M1-14 (PC)
WH-4	WATER HEATER NO.4 (GAS)		120	1		1/2"	#12	#12	M1-14 (PC)

GENERAL EQUIPMENT NOTES:

- CONTRACTOR/DESIGNER SHALL VERIFY ALL MECHANICAL EQUIPMENT CONNECTION LOAD REQUIREMENTS WITH THE MECHANICAL EQUIPMENT PROVIDER PRIOR TO ROUGH IN.
- MECHANICAL EQUIPMENT SIZES SHOWN IN THE MECHANICAL SCHEDULE ABOVE ARE FOR REFERENCE ONLY AND MAY NOT REFLECT THE ACTUAL EQUIPMENT TO BE INSTALLED.

M
E
A
I
INC.
Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
WWW.MFIA-ENG.COM
CONTACT: DENISE TAYLOR

STUDIO
3
ARCHITECTURE
INCORPORATED

275 COURT ST. NE
SALEM, OR 97301-3442
P: 503.390.6500
www.studio3architecture.com



EXPIRES: July 5th, 2020

IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2017-053
DATE: 11/06/2019
REVISIONS

- PLAN REVIEW 01.24.2020
- PLAN REVIEW 03.13.2020
- PLAN REVIEW 04.24.2020
- PLAN REVIEW 08.10.2020
- PLAN REVIEW 09.17.2020
- PLAN REVIEW 10.16.2020
- PLAN REVIEW 11.25.2020
- PLAN REVIEW 03.26.2021
- PLAN REVIEW 07.15.2021
- COORDINATION 08.27.2021
- COORDINATION 11.05.2021
- COORDINATION 12.10.2021
- COORDINATION 03.03.2022

AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

E1.15



EXPIRES: July 6th, 2020

 IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

 PROJECT # 2017-053
DATE: 11/06/2019

REVISIONS

- △ PLAN REVIEW 01.24.2020
- △ PLAN REVIEW 03.13.2020
- △ PLAN REVIEW 04.24.2020
- △ PLAN REVIEW 08.10.2020
- △ PLAN REVIEW 09.17.2020
- △ PLAN REVIEW 10.16.2020
- △ PLAN REVIEW 11.25.2020
- △ PLAN REVIEW 03.26.2021
- △ PLAN REVIEW 07.15.2021
- △ COORDINATION 08.27.2021
- △ COORDINATION 11.05.2021
- △ COORDINATION 12.10.2021
- △ COORDINATION 03.03.2022

AEGIS

MIXED-USE DEVELOPMENT

 312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

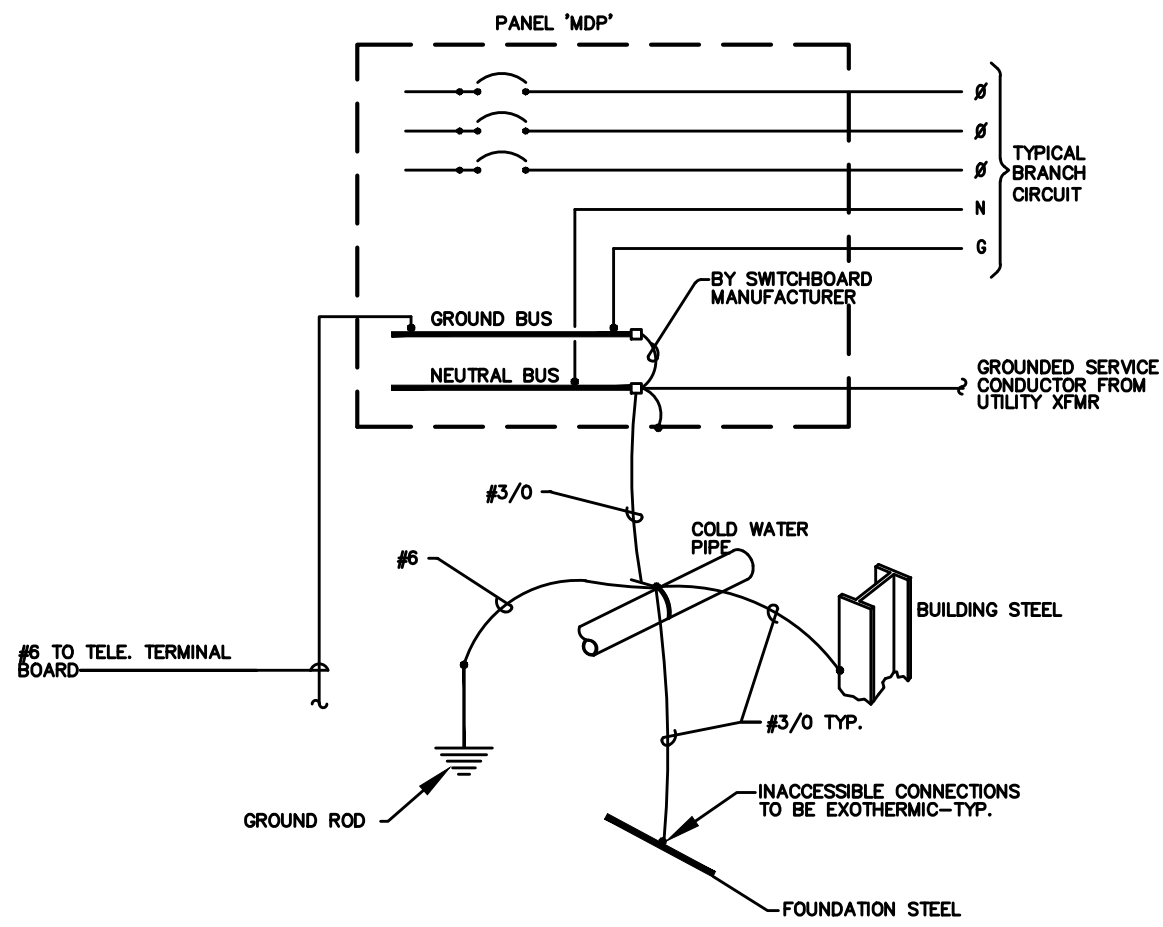
SHEET:

E1.16

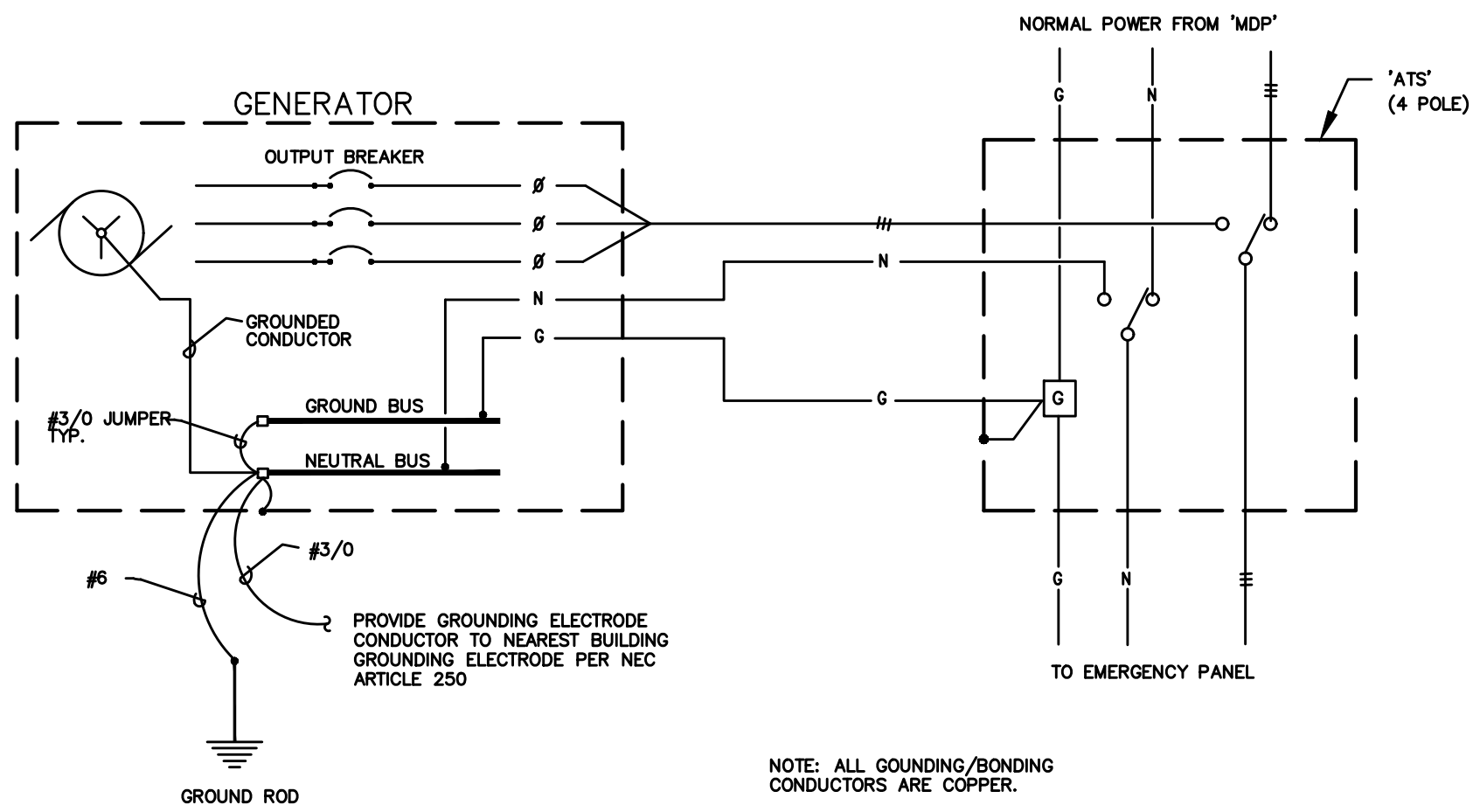
MFIA PANEL SCHEDULE											
panel		mounting		location BLDG 'B'		connected load amps					
E1		SURFACE		2nd Flr Rm 292		58					
voltage		phase		bus & main		calculated load amps					
120/208V		3		100A SCCR: 22K)		MLO					
service		va	a/p	no.	a b c	no.	a/p	va	service		
C	SPARE	0	20/1	1	*	2	20/1	1500	SMOKE DAMPERS - FLR 1 & 2	5	C
1	LIGHTS - BLDG EXTERIOR	500	20/1	3	*	4	20/1	1500	SMOKE DAMPERS - FLR 3 & 4	5	
1	LIGHTS - STAIR 1	500	20/1	5	*	6	20/1	1500	SMOKE DAMPERS - FLR 5 & 6	5	
1	LIGHTS - STAIR 2	500	20/1	7	*	8	20/1	1500	ELEVATOR PIT LITS & PLUGS	2	
1	LIGHTS - FLR 1	673	20/1	9	*	10	20/1	1500	ELEVATOR CAD LIGHTS	1	
1	LIGHTS - FLR 2 & 3	424	20/1	11	*	12	20/1	1500	ELEVATOR CONTROLLER (OPT)	5	
1	LIGHTS - FLR 4 & 5	424	20/1	13	*	14	20/1	0	SPARE		
1	LIGHTS - FLR 6	212	20/1	15	*	16	20/1	1176	SP-1 (ELEVATOR PIT)	6	
5	SMOKE CURTAIN	1500	20/1	17	*	18	20/1	500	GENERATOR BLOCK HEATER	3	
5	SMOKE CURTAIN	1500	20/1	19	*	20	20/1	500	GENERATOR BATTERY CHARGER	5	
5	AREA OF REFUGE PANEL	1500	20/1	21	*	22	20/1	500	RECEPT - ELEV MACHINE RM	2	
5	FACP	500	20/1	23	*	24	20/1	0	SPARE		
5	DAS	500	20/1	25	*	26	20/1	0	SPARE		
5	GENERATOR ANNUNCIATOR	500	20/1	27	*	28	20/1	0	SPARE		
	BLANK			29	*	30			BLANK		
	BLANK			31	*	32			BLANK		
	BLANK			33	*	34			BLANK		
	BLANK			35	*	36			BLANK		
	BLANK			37	*	38			BLANK		
	BLANK			39	*	40			BLANK		
	BLANK			41	*	42			BLANK		
Phase A		6424 VA		NOTES:		line-line voltage					
Phase B		8061 VA									
Phase C		6424 VA						largest motor (va)			
Total Connected		20909 VA						0			
load code:		ph. A	ph. B	ph. C	total	factor	calculated load (va)				
1. LIGHTS=		924	2885	924	VA	4733	1.25	5916			
2. RECEPT.=		1500	500	0	VA	2000	1 + 0.5	2000			
3. HEATING=		0	0	500	VA	500	1.00	500			
4. KITCHEN=		0	0	0	VA	0	1.00	0			
5. EQUIP.=		4000	3500	5000	VA	12500	1.00	12500			
6. MOTORS=		0	1176	0	VA	1176	*	1176			
7. MISC=		0	0	0	VA	0	1.00	0			
(* 125% of the largest motor + 100% of the balance)						TOTAL =		22092			

MFIA PANEL SCHEDULE											
panel		mounting		location		BLDG 'B'		connected load amps			
H1		SURFACE		FLR 1 RM 198						86	
voltage		phase		bus & main				calculated load amps			
120/208V		3		250A (SCCR: 22K)		MLO				83	
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C	
	1 LIGHTS - SITE/PARKING	1440	20/1	1	*	2	20/1	900	RECEPT - FLR 1	2	
	1 LIGHTS - BLDG EXTERIOR	500	20/1	3	*	4	20/1	900	RECEPT - FLR 1 (E. LOBBY)	2	
	1 LIGHTS - FLR 1 (LOBBY)	1032	20/1	5	*	6	20/1	1500	**RECEPT - FLR 1 (OFFICE)	2	
	1 LIGHTS - FLR 1 (CORRIDOR)	241	20/1	7	*	8	20/1	1500	RECEPT - FLR 1 (OFFICE)	2	
	1 LIGHTS - FLR 1 (BOH)	1169	20/1	9	*	10	20/1	1080	RECEPT - FLR 1	2	
	1 LIGHTS - UNIT ENTRIES	500	20/1	11	*	12	20/1	1080	RECEPT - FLR 1	2	
	1 LIGHTS - FLR 2 & 3 (BOH)	698	20/1	13	*	14	20/1	1260	RECEPT - FLR 1 (W. LOBBY)	2	
	1 LIGHTS - FLR 2 & 3 (CORRIDOR)	370	20/1	15	*	16	20/1	1500	BUILDING SIGNS	5	
	5 WIFI SYSTEM	500	20/1	17	*	18	20/1	1500	DRINKING FOUNTAINS	5	
	5 UNIT ENTRY SYSTEM	1500	20/1	19	*	20	20/1	1500	RECEPT - MAINT. RM	2	
	2 RECEPT - FLR 2	1080	20/1	21	*	22	20/1	1500	RECEPT - SECURITY	2	
	2 RECEPT - FLR 3	1080	20/1	23	*	24	20/1	1500	RECEPT - FLR 1 (PKG SYSTEM)	2	
	3 EH-2 (N. STAIR)	500	20/1	25	*	26	20/1	0	SPARE		
	3 EH-2 (S. STAIR)	500	20/1	27	*	28	20/1	0	SPARE		
	3 EH-4 (RISER)	500	20/1	29	*	30	20/1	0	SPARE		
	5 A/V SYSTEM	1500	20/1	31	*	32	20/1	0	SPARE		
	5 FIREPLACE	500	20/1	33	*	34	20/1	0	SPARE		
	5 DAS SYSTEM	1500	20/1	35	*	36	20/1	0	SPARE		
	BLANK			37	*	38			BLANK		
	BLANK			39	*	40			BLANK		
	BLANK			41	*	42			BLANK		
Phase A		11039 VA		NOTES:		line-line voltage					
Phase B		9099 VA		* RECEPTILES CONTROLLED VIA						208	
Phase C		10692 VA		OCC SENSOR						largest motor (va)	
Total Connected		30830 VA								0	
load code:		ph. A	ph. B	ph. C	total	factor	calculated load (va)				
1. LIGHTS=		2379	2039	1532	VA	5950	1.25	7438			
2. RECEPT.=		5160	4560	5160	VA	14880	1 + 0.5	12440			
3. HEATING=		500	500	500	VA	1500	1.00	1500			
4. KITCHEN=		0	0	0	VA	0	1.00	0			
5. EQUIP.=		3000	2000	3500	VA	8500	1.00	8500			
6. MOTORS=		0	0	0	VA	0	*	0			
7. MISC=		0	0	0	VA	0	1.00	0			
(* 125% of the largest motor + 100% of the balance)						TOTAL =		28878			

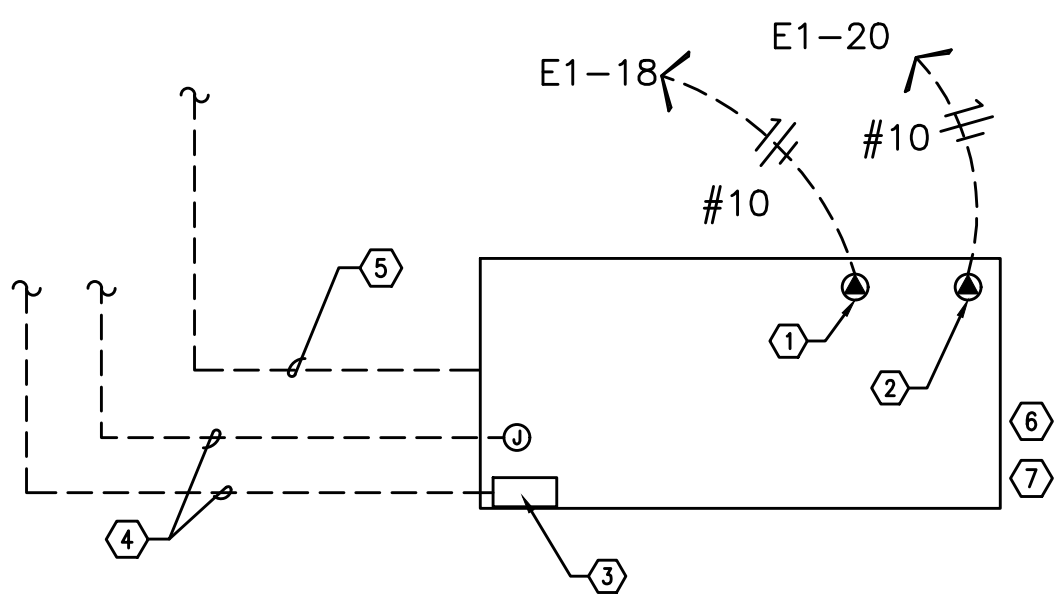
MFIA PANEL SCHEDULE														
panel		mounting			location BLDG 'B'			connected load amps						
M1		SURFACE			ELECT. RM 198						178			
voltage		phase			bus & main			calculated load amps						
120/208V		3			250A (SCCR: 22K)			MLO			178			
C		va	a/p	no.	a	b	c	no.	a/p	va	service			
6	TRASH COMPACTOR	2100	40/3	1	*	*	*	2	50/3	3864	BP-1			
6	*	2100	*	3	*	*	*	4	*	3864	*			
6	*	2100	*	5	*	*	*	6	*	3864	*			
6	TRASH COMPACTOR	2100	40/3	7	*	*	*	8	20/3	1356	FC-1			
6	*	2100	*	9	*	*	*	10	*	1356	*			
6	*	2100	*	11	*	*	*	12	*	1356	*			
3	WH-1.2 (GAS)	600	20/1	13	*	*	*	14	20/1	600	WH-3.4 (GAS)			
6	RP-1	1176	20/1	15	*	*	*	16	20/1	1176	RP-2			
5	EV CHARGING (FUTURE)	40/2	17	*	*	*	*	18	20/1	500	IRRIGATION CONTROLS			
5	*	40/2	19	*	*	*	*	20	20/1	1500	AUTO DOORS			
5	EV CHARGING (FUTURE)	40/2	21	*	*	*	*	22	20/1	1000	PHONE & COMM BOARDS			
5	*	40/2	23	*	*	*	*	24	20/1	500	ACCESS CONTROL			
5	EV CHARGING (FUTURE)	40/2	25	*	*	*	*	26	20/3	1500	EH-5 (BIKE RM)			
5	*	40/2	27	*	*	*	*	28	*	1500	*			
2	RECEPT - DATA RM FLR 2	1500	20/1	29	*	*	*	30	*	1500	*			
2	RECEPT - DATA RM FLR 2	1500	20/1	31	*	*	*	32	20/3	1500	EH-5 (TRASH RM)			
	SPARE	20/1	33	*	*	*	*	34	*	1500	*			
3	SP-1	6085	60/2	35	*	*	*	36	*	1500	*			
3	*	6085	37	*	*	*	*	38	20/1	500	EF-4			
3	EH-3 (TEMP)	1500	20/2	39	*	*	*	40	20/1	1500	BUILDING SIGNS			
3		1500	*	41	*	*	*	42	20/1	0	SPARE			
Phase A										22840 VA		NOTES: line-line voltage	208	
Phase B										18772 VA				
Phase C										22505 VA				
Total Connected		64117 VA										largest motor (va)		0
load code:		ph A	ph B	ph C		total		factor		calculated load (va)				
1. LIGHTS=		0	0	0		VA		0		1.25		0		
2. RECEPT.=		15000	0	0		15000 VA		3000		1 + 0.5		30000		
3. HEATING=		10285	4500	0		10585 VA		25370		1.00		25370		
4. KITCHEN=		0	0	0		0 VA		0		1.00		0		
5. EQUIP=		1500	2500	0		1000 VA		5000		1.00		5000		
6. MOTORS=		9555	11772	0		9420 VA		30747		*		30747		
7. MISCE=		0	0	0		0 VA		0		1.00		0		
(* 125% of the largest motor + 100% of the balance)										TOTAL =		64117		



1
E1.18 GROUNDING/BONDING DIAGRAM
208Y/120V, 3ø, 4 WIRE

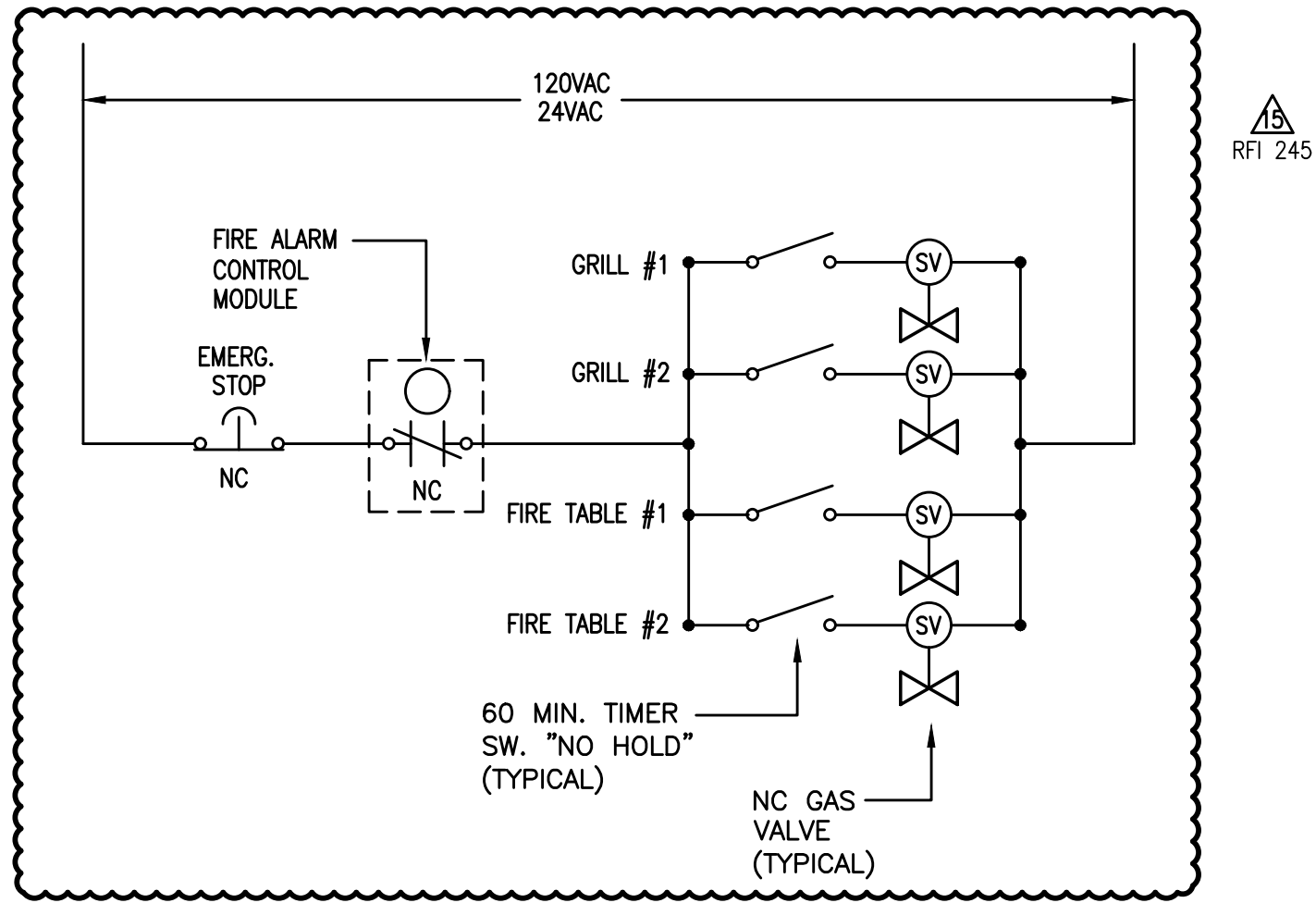


2
E1.18 GENERATOR - ELECTRICAL GROUNDING/BONDING DETAIL
NO SCALE

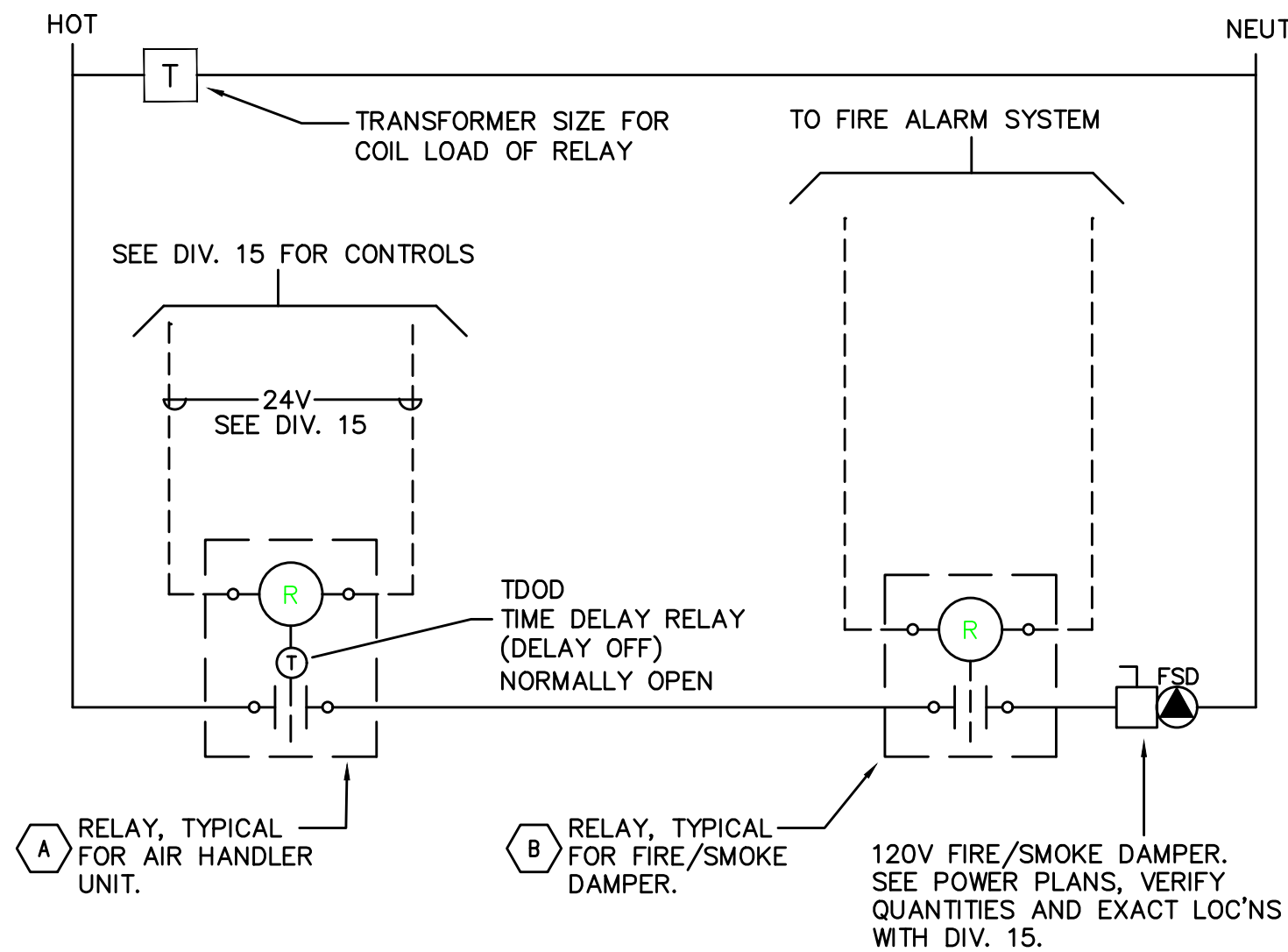


3
E1.18 GENERATOR CIRCUITING DETAIL
NO SCALE

- NOTES:
- 120V GENERATOR BLOCK HEATER. PANEL E1 AT BUILDING 'B'.
 - 120V GENERATOR BATTERY CHARGER. PANEL E1 AT BUILDING 'B'.
 - GENERATOR OUTPUT BREAKER AND CONTROL SECTION. PANEL S1 AT BUILDING 'B'.
 - POWER AND CONTROL TO TRANSFER SWITCH WITH REMOTE ANNUNCIATOR. SEE ONE-LINE DIAGRAM ON SHEETS E1.11 & E1.14.
 - TO AUTOMATIC TRANSFER SWITCH. SEE E1.11 & E1.14.
 - DIESEL GENERATOR TO BE PROVIDED WITH DOUBLE-WALLED FUEL TANK AND SPILL CONTAINMENT PER ALL NATIONAL, STATE & LOCAL CODES.
 - DIESEL GENERATOR TANK SHALL BE EQUIPPED WITH OVERFILL PROTECTION (AUTO SHUTOFF), 5-GALLON INFILL SPILL BUCKET WITH DRAIN BACK, 12FT ABOVE GRADE TANK FUME VENTING AND ONSITE PRESSURE TESTING PER CITY REQUIREMENTS.



4
E1.18 ROOFTOP GAS APPLIANCE EMERGENCY SHUT-OFF DIAGRAM
SCALE: NONE



5
E1.18 SMOKE/FIRE DAMPER CONTROL DIAGRAM
NO SCALE

ADDRESSABLE DETECTOR CONTROL

- A RELAY TO BE 'NORMALLY OPEN'. TDOD (TIME DELAY ON DE-ENERGY) SET FOR 15 SECONDS. RELAY TO CLOSE UPON SIGNAL FROM HVAC CONTROL SYSTEM (ALLOWS DAMPER TO OPEN); DAMPERS TO CLOSE ON DE-ENERGIZE AFTER 15 SEC. TIME-OUT. PROVIDE WITH 20A CONTACTS AND COIL VOLTAGE AS REQ'D BY HVAC CONTROL SYSTEM. MOUNT RELAY IN NEMA 1 ENCLOSURE ADJACENT TO HVAC CONTROL PANEL.
- B RELAY TO BE 'NORMALLY ENERGIZED'. RELAY TO BE DE-ENERGIZED UPON SIGNAL FROM FIRE ALARM SYSTEM (ALLOWS DAMPERS TO CLOSE). PROGRAM FIRE ALARM SYSTEM FOR 15 SECOND DELAY BETWEEN SMOKE DETECTOR ACTIVATION AND FIRE/SMOKE DAMPER SHUTDOWN. PROVIDE WITH 20A CONTACTS AND COIL VOLTAGE AS REQ'D BY FIRE ALARM SYSTEM. MOUNT RELAY IN NEMA 1 ENCLOSURE ADJACENT TO FIRE/SMOKE DAMPER.

DETAIL MOVED TO SHEET E1.24

STUDIO

3

ARCHITECTURE
INCORPORATED

275 COURT ST. NE
SALEM, OR 97301-3442
P: 503.390.6500
www.studio3architecture.com



EXPIRES: July 5th, 2020

IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2017-053

DATE: 11/06/2019

REVISIONS

- PLAN REVIEW 01.24.2020
- PLAN REVIEW 03.13.2020
- PLAN REVIEW 04.24.2020
- PLAN REVIEW 08.10.2020
- PLAN REVIEW 09.17.2020
- PLAN REVIEW 10.16.2020
- PLAN REVIEW 11.25.2020
- PLAN REVIEW 03.26.2021
- PLAN REVIEW 07.15.2021
- COORDINATION 08.27.2021
- COORDINATION 11.05.2021
- COORDINATION 12.10.2021
- COORDINATION 03.03.2022

AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
WWW.MFIA-ENG.COM
CONTACT: DENISE TAYLOR

SHEET:

E1.18

LIGHTING FIXTURE LIST					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
⚠ A1 A1E	LED 3000K 2000LM/80CRI 28W	LITHONIA (OR APPROVED OTHER)	CSS L48 AL03 SERIES	TYPE :4" GEN. PURPOSE STRIP MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :DIFFUSED ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE 'AE' SIMILAR TO TYPE 'A' EXCEPT WITH EMERGENCY BATTERY BACK-UP EQUIP. RMS, TRASH RM, LEASE SPACE
A2	LED 4000K 5000LM/80CRI 49W	LITHONIA (OR APPROVED OTHER)	XVML L48SERIES	TYPE :4" ENCLOSED INDUSTRIAL MOUNTING :SURFACE HOUSING :POLYCARBONATE LENS/REFL :CLEAR POLYCARBONATE VOLTAGE :MVOLT BALLAST :LED DRIVER	WALL MOUNT AT +7'-0" AFF IN ROOF TERRACE MECH. ROOM. ELEVATOR PIT & TOP OF SHAFT
B1 ②	LED 3000K 3000LM/80CRI 25W	LITHONIA (OR APPROVED OTHER)	BLWP4 30L SERIES	TYPE :4" WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR, DIM50 STANDBY MODE STAIRWELLS
B2	LED 3000K 3000LM/80CRI 20W	LITHONIA (OR APPROVED OTHER)	CLXL48 SERIES	TYPE :4" WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :WIDE DIFFUSED VOLTAGE :MVOLT BALLAST :LED DRIVER	WIDE DISTRIBUTION STANDARD OUTPUT BIKE ROOM
B3	LED 3000K 2000LM/80CRI 28W	LITHONIA (OR APPROVED OTHER)	CSS L48 ADPT SERIES	⚠ TYPE :3" WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :WIDE DIFFUSED VOLTAGE :MVOLT BALLAST :LED DRIVER	STANDARD OUTPUT ELEVATOR MACHINE ROOM
⚠ ⚠ ⚠ C1a/b ① ③	LED 3000K/90CRI 150LM/FT 3.5W/FT	INSIGHT LIGHTING (OR APPROVED OTHER)	PIVOT PCM SERIES	TYPE :LED COVE LIGHT MOUNTING :SURFACE (IN COVE) HOUSING :ALUMINUM LENS/REFL :CLEAR POLYCARBONATE VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING-ELV)	C1a = 2FT LENGTH C1b = 4FT LENGTH MAIN LOBBY ⚠
⚠ C2	LED 600LM/80CRI 3000K 10W	COOPER LIGHTING (OR APPROVED OTHER)	SMD4R12 SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	WHITE TRIM UL LISTED DAMP LOCATION RESTROOMS, DOG WASH
C3	LED 1200LM/80CRI 3000K 15W	COOPER LIGHTING (OR APPROVED OTHER)	SMD6R12 SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC/CLEAR DIFFUSE VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	WHITE TRIM OR ARCHITECT LOBBY, CORRIDORS
C4	LED 1500LM/80CRI 3000K 16W	COOPER LIGHTING (OR APPROVED OTHER)	LCR6159F SERIES HL6RSMF	TYPE :5" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :ACRYLIC/CLEAR DIFFUSE VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	IC RATED WHITE TRIM CORRIDORS
⚠ C5	LED 650LM/80CRI 3000K 10W	COOPER LIGHTING (OR APPROVED OTHER)	H4A406FL SERIES	TYPE :4" DIA. ADJ.DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	IC RATED FIELD AIM PER ARCHITECT'S DIRECTION WHITE TRIM LOBBY, CORRIDOR

⚠

⚠

⚠

⚠

⚠

⚠

⚠

⚠

Copyright © 2017-18 STUDIO 3 ARCHITECTURE, INC.

LIGHTING FIXTURE LIST – DECORATIVE					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
⚠ ⚠ LF1	LED 330LM/FT 3000K 3W/FT	KELVIX (OR APPROVED OTHER)	PH30K 24V W/ CH409 CHANNEL	TYPE :UNDER CABINET LIGHT MOUNTING :SURFACE HOUSING :ALUMINUM CHANNEL LENS/REFL :WHITE ACRYLIC LENS VOLTAGE :24V BALLAST :LED DRIVER 0-10 DIMMING	TAPE & CHANNEL TO MOUNT AT UNDER- SIDE OF SHELF. CONSULT WITH INTERIOR DECORATOR'S DETAILS AND COORDINATE INSTALLATION. COFFEE BAR, COMMUNITY RM
LF2	LED 3000K/90CRI 5040LM 56W	KUZCO (OR APPROVED OTHER)	EEREIE PD19347 SERIES	TYPE :LINEAR PENDANT MOUNTING :SUSPENDED HOUSING :ALUMINUM LENS/REFL :OPAL SILICON VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING/ELV)	FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR MAIL ROOMS
LF3		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF4	LED 3000K 850LM/90CRI 9W	USAI LIGHTING (OR APPROVED OTHER)	B3RDM SERIES	TYPE :3" DIA DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :SOLITE VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	45 DEGREE BEAM SPREAD PROVIDE WITH USAI POWER SUPPLY BLACK BEVEL TRIM & MILLWORK FLANGE IC RATED BLDG A COFFEE BAR
LF5	(8) JCD/G9 LED 3000K/80CRI 24W	ARTCRAFT LIGHTING (OR APPROVED OTHER)	AC1188 SERIES	TYPE :LARGE PENDANT MOUNTING :SUSPENDED HOUSING : LENS/REFL : VOLTAGE :120V BALLAST :LED DRIVER (0/10 DIMMING)	FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR BLDG B LOBBY
⚠ LF6	(1) LED LAMP (MED. BASE) 3000K/80CRI 15W	CREATIVE SYSTEMS LTG (OR APPROVED OTHER)	LP2102730 SERIES	TYPE :MINI PENDANT MOUNTING :SUSPENDED HOUSING :UNKNOWN LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BLACK PATINE FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR. BLDG B LOUNGE
LF7	(1) G9 LED 3000K 220LM/80CRI 4W	ANDLight (OR APPROVED OTHER)	ORB-P SERIES	TYPE :PENDANT MOUNTING :SUSPENDED HOUSING :STEEL WIRE LENS/REFL :ETCHED GLASS VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BLACK FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR RESTROOM
LF8	(3) LED LAMPS (MED. BASE) 3000K/80CRI 225W	TROY LIGHTING (OR APPROVED OTHER)	HENDRIX F6886 SERIES	TYPE :CHANDELIER MOUNTING :SUSPENDED HOUSING :UNKNOWN LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BLACK IRON FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR BLDG A CLUBROOM
LF9	(1) GU10 LED 3000K/80CRI 9W	RESTORATION HARDWARE (OR APPROVED OTHER)	ORBITER II 68830997 SERIES	TYPE :SCONCE MOUNTING :SURFACE HOUSING :UNKNOWN LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BRONZE FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR BLDG A CLUBROOM
⚠ LF10		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
⚠ ⚠ LF11	LED 3000K/90CRI 780LM 13W	KUZCO LIGHTING (OR APPROVED OTHER)	WS83218 SERIES	TYPE :SCONCE MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :OPAL GLASS VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	VERIFY ADA COMPLIANT BLACK FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR TYPICAL UNIT ENTRY
⚠ ⚠ LF12	LED 3000K/80CRI 500LM/FT 9.4W/FT	NULITE (OR APPROVED OTHER)	RP14-B-FF SERIES	TYPE :8FT DIRECT/INDIRECT LINEAR MOUNTING :SUSPENDED HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	60% DOWN-40% UP DISTRIBUTION MOUNT AT 10FT AFF TO BOTTOM OF FIXTURE. STANDARD WHITE FINISH BIKE ROOMS BLDG B FITNESS ROOM
LF13		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF14	LED 3000K/80CRI 1300LM 16W	KUZCO (OR APPROVED OTHER)	FM11410 SERIES	TYPE :9" DIA DOWNLIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING/ELV)	BLACK FINISH PER INTERIOR DECORATOR BLDG A WOOD CEILINGS
⚠ LF15		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF16	(1) G9 LED (WEDGE BASE) 3000K/80CRI 13W	HUDSON VALLEY LIGHTING (OR APPROVED OTHER)	8701-AGB SERIES	TYPE :WALL SCONCE MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :GLASS VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	FINISH PER INTERIOR DECORATOR. MOUNTING HEIGHT PER INTERIOR DECORATOR. BLDG A LOBBY, CLUB RM/BLDG B LOBBY

⚠

⚠

⚠

⚠

⚠

⚠

GENERAL NOTES:

- ⚠
- A. ALL LIGHT FIXTURES SHALL HAVE ENERGY EFFICIENT LAMPING AND BALLASTS.
- B. LIGHT FIXTURES FOR LIVING UNITS SHALL BE "ENERGY STAR" RATED.
- C. EXTERIOR LIGHT FIXTURES SHALL BE "NIGHT SKY" FRIENDLY.
- D. VERIFY ALL FIXTURE FINISHES WITH ARCHITECT PRIOR TO BID.
- E. VERIFY ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO BID.
- F. VERIFY ALL FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH IN.
- ⚠

G. ALL INTERIOR LIGHTING SHALL BE 3000 KELVIN UNLESS OTHERWISE NOTED.
- H. ALL PRODUCT SUBSTITUTIONS AND VALUE ENGINEERING SHALL BE SUBMITTED DURING BID PHASE, SHALL MEET DESIGN INTENT AND IS SUBJECT TO OWNER APPROVAL.
- I. CONTRACTOR SHALL CONSULT MANUFACTURER INSTALLATION INSTRUCTIONS FOR ALL FIXTURES AND DEVICES AND INSTALL AS INSTRUCTED. THIS INCLUDES ALL ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION. WORK SHALL BE PERFORMED SUCH THAT MANUFACTURER WARRANTY IS NOT VOIDED.
- J. THE ELECTRICAL CONTRACTOR SHALL CONSULT THE INTERIOR DESIGN PLAN SET FOR ALL FINISHES, MOUNTING HEIGHTS AND OTHER INSTALLATION REQUIREMENTS REGARDING THE "LF" LIGHT FIXTURES LISTED IN THE FIXTURE SCHEDULE ON THIS SHEET.
- ⚠

K. IF NECESSARY, CONTRACTOR SHALL PROVIDE IC RATED BOXES FOR ANY APPROVED, SUBSTITUTED FIXTURES NOT MEETING INSULATED CEILING REQUIREMENTS.
- ⚠

L. BUILDING MOUNTED EXTERIOR WALL SCONCES, TYPE S3b, TO BE CONTROLLED VIA PHOTOCELL AND BE PROVIDED WITH A TIME CLOCK TO REDUCE LIGHT OUTPUT BY 30% DURING LATE NIGHT TO REDUCE REFLECTANCE INTO TENANT LIVING UNITS. FIXTURES DESIGNATED TO BE EGRESS SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER OUTAGE, THE LIGHTS AUTOMATICALLY RETURN TO FULL OUTPUT. TIME CLOCK SETTINGS TO BE DETERMINED BY THE OWNER.

KEYED LIGHTING NOTES:

- ⚠
1. CONTRACTOR TO DETERMINE FIXTURE LENGTH BASED ON ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING PLANS. DESIGN INTENT IS FOR THE FIXTURE TO RUN THE ENTIRE LENGTH OF THE "COVE" TO PROVIDE EVEN LIGHT DISTRIBUTION.
2. STAIRWELL AND BOH CORRIDOR LIGHT FIXTURES TO BE EQUIPPED WITH FACTORY INSTALLED (OR REMOTE) OCCUPANCY SENSORS FOR MIN. 50% LIGHT REDUCTION DURING PERIODS OF NO ACTIVITY.
- ⚠

3. MAXIMUM RUN LENGTH FOR SPECIFIED COVE LIGHT FIXTURE IS (186) 4FT UNITS. MULTIPLE RUNS SHALL BE CIRCUITED AS NOTED ON THE PLANS. CONTRACTOR SHALL PROVIDE THE APPROPRIATE MOUNTING AND CONNECTING HARDWARE PER MANUFACTURER'S REQUIREMENTS. CONSULT VENDOR FOR ADDITIONAL INSTALLATION INFORMATION.
- ⚠

4. CONTRACTOR TO PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE INSTALL. 24V FIXTURE TRANSFORMER/POWER SUPPLY TO BE LOCATED IN THE CABINET BELOW THE SHELVING.
5. CONTRACTOR TO PROVIDE SINGLE POLE DIMMER SWITCHES AS INDICATED ON SHEETS E4.01-E4.03. DIMMER SWITCHES SHALL MATCH THE DECORATOR TYPE ROCKER SWITCH SPECIFIED IN THE TYPICAL UNIT LIGHTING PLANS OR AS DIRECTED BY THE OWNER. DIMMER SWITCHES SHALL BE COMPATIBLE WITH THE LED LIGHT FIXTURES AND SHALL BE FULLY ADJUSTABLE. CONTRACTOR SHALL FIELD ADJUST TO REDUCE ANY MOMENTARY FLASH DURING START UP.
6. PROVIDE BLOCKING AT CEILING TO SUPPORT 35LB., MINIMUM, FOR CEILING FAN INSTALLATION. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. PROVIDE FIXTURE CONTROL SWITCH(ES) AS DIRECTED BY MANUFACTURER.
7. PROVIDE WITH WEATHER PROOF J-BOX FOR SOIL CONTACT.
- ⚠

8. VERIFY MOUNTING HEIGHT OF FIXTURES IS NOT IN CONFLICT WITH ROOM EQUIPMENT.
- ⚠

9. BOLLARD LIGHTS ALONG THE BUILDING WALKWAYS SHALL BE INSTALLED SUCH THAT ANY PROJECTION FACES AWAY FROM THE BUILDING.
- ⚠

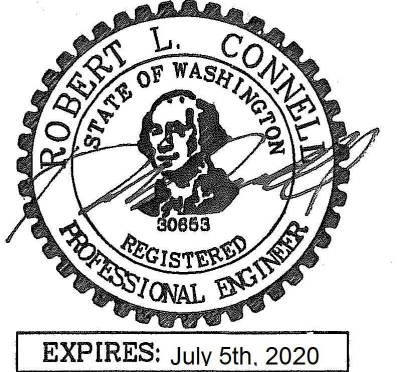
10. LED TAPE & CHANNEL LIGHTS AT EXTERIOR PLAZA SHALL BE MOUNTED AS DIRECTED BY THE LANDSCAPE ARCHITECT. CONTRACTOR TO PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE INSTALL.
- ⚠

11. CONTRACTOR TO SUPPLY AND INSTALL BACK-LIT VANITY MIRROR. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND SIZE OF THE BACK-LIT VANITY MIRROR FOR EACH UNIT TYPE. MIRROR TO BE HARDWIRED INTO A RECESSED J-BOX. CONSULT ARCHITECT FOR ANY ADDITIONAL INFORMATION REGARDING THESE FIXTURES.
- ⚠

⚠

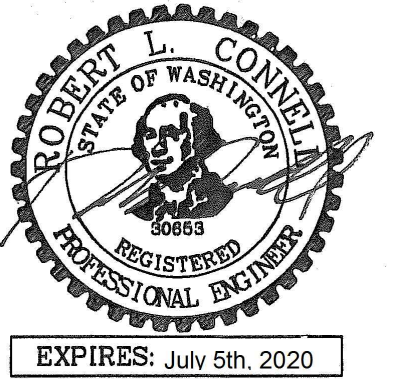
12. FIXTURE TYPE S9 TO BE MOUNTED BEHIND EXTERIOR ART INSTALLATION. REFER TO DETAILS ON SHEET E1.24. CONTRACTOR SHALL CONSULT WITH THE OWNER & ARTIST FOR EXACT QUANTITY & LENGTHS OF FIXTURE, AND EXACT LOCATIONS FOR THE FIXTURE MOUNTING PRIOR TO PURCHASE AND ROUGH IN. CONTRACTOR SHALL PROVIDE ALL COMPONENTS FOR A COMPLETE INSTALL. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS & DETAILS FOR MORE INFORMATION.

M
E
T
A
INC.
Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
WWW.METIA-ENG.COM
CONTACT: DENISE TAYLOR



IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.
PROJECT # 2017-053
DATE: 11/06/2019
REVISIONS
⚠ PLAN REVIEW 01.24.2020
⚠ PLAN REVIEW 03.13.2020
⚠ PLAN REVIEW 04.24.2020
⚠ PLAN REVIEW 08.10.2020
⚠ PLAN REVIEW 09.17.2020
⚠ PLAN REVIEW 10.16.2020
⚠ PLAN REVIEW 11.25.2020
⚠ PLAN REVIEW 03.26.2021
⚠ PLAN REVIEW 07.15.2021
⚠ COORDINATION 08.27.2021
⚠ COORDINATION 11.05.2021
⚠ COORDINATION 12.10.2021
⚠ COORDINATION 03.03.2022

SHEET:

IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.PROJECT # 2017-053
DATE: 11/06/2019
REVISIONS

- PLAN REVIEW 01.24.2020
- PLAN REVIEW 03.13.2020
- PLAN REVIEW 04.24.2020
- PLAN REVIEW 08.10.2020
- PLAN REVIEW 09.17.2020
- PLAN REVIEW 10.16.2020
- PLAN REVIEW 11.25.2020
- PLAN REVIEW 03.26.2021
- PLAN REVIEW 07.15.2021
- COORDINATION 08.27.2021
- COORDINATION 11.05.2021
- COORDINATION 12.10.2021
- COORDINATION 03.03.2022

AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

E1.22

LIGHTING FIXTURE LIST – SITE & EXTERIOR

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
LS1 ⑦	LED 3000K 100LM 3W	DALS LIGHTING (OR APPROVED OTHER)	LEDSTEP00SD SERIES	TYPE :STEP LIGHT (+10" AFF) HOUSING :RECESSED LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	VERIFY UL LISTED FOR WET LOCATION FINISH PER ARCHITECT. VERIFY EXACT LOCATION WITH LANDSCAPE DESIGNER PRIOR TO ROUGH IN. ROOF TERRACE
LS2 ⑩	LED 3000K 500LM/FT 5W/FT	JESCO LIGHTING (OR APPROVED OTHER)	DL-AC-FLEX SERIES DL-AC-FLEX2-HW08 DL-AC-FLEX2-UT-CH6M12 DL	TYPE :LED COVE LIGHT MOUNTING :SURFACE (CHANNEL) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	MOUNT UNDER COUNTER TOP EDGE. VERIFY EXACT LENGTH BEFORE ORDERING. VERIFY EXACT LOCATION WITH LANDSCAPE DESIGNER PRIOR TO ROUGH IN. UL LISTED FOR WET LOCATION ROOF TERRACE
LS3	LED 3000K 342LM 8W	BEGA LIGHTING (OR APPROVED OTHER)	33-054 SERIES	TYPE :LED STEP LIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :120V BALLAST :LED DRIVER	VERIFY EXACT LENGTH BEFORE ORDERING. VERIFY EXACT LOCATION AND MOUNTING WITH LANDSCAPE DESIGNER PRIOR TO ROUGH IN. UL LISTED FOR WET LOCATION ROOF TERRACE, PLAZA
LS4	LED 3000K 11W	TARGETTI LIGHTING (OR APPROVED OTHER)	KPLM-41 SERIES	TYPE :ADJ. GIMBLE FEATURE LIGHT MOUNTING :RECESSED (IN-GROUND) HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :120V BALLAST :LED DRIVER	VERIFY TRIM & BEAM SPREAD WITH ARCHITECT. COORDINATE WITH ART INSTALLER FOR FIELD ADJUSTMENT. UL LISTED FOR WET LOCATION PLAZA
S1 ⑨	LED 3000K 1000LM 12W	KUZCO LIGHTING (OR APPROVED OTHER)	EB3036 SERIES	TYPE :36" BOLLARD LIGHT MOUNTING :AT GRADE HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	PROVIDE WITH PHOTOCELL, EITHER INTAGRAL OR REMOTE. TYPE II DISTRIBUTION. MOUNT PER MFR'S REQUIREMENTS UL LISTED WET LOCATION/VERIFY ADA BUILDING WALKWAYS
S2	LED 3000K 5500LM 51W	LITHONIA LIGHTING (OR APPROVED OTHER)	RSX1 LED P1 SERIES	TYPE :AREA LIGHT (SINGLE/TWIN HEAD) MOUNTING :POLE MOUNT (+20'-0") HOUSING :ALUMINUM LENS/REFL :ALUMINUM VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE III MEDIUM DISTRIBUTION INTEGRAL PHOTOCELL PARKING AREA
S3a	LED 3000K 975LM 14W	USAI LIGHTING (OR APPROVED OTHER)	BEVELED 1020 SERIES	TYPE :4.5" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :SOLITE VOLTAGE :MVOLT BALLAST :LED DRIVER	UL LISTED WET LOCATION CUSTOM FINISH TO MATCH METAL SOFFIT BLACK OR BRONZE FINISH PER ARCHITECT
S3b	LED 3000K 650LM 11W	LUMENART LIGHTING (OR APPROVED OTHER)	AWL18 SERIES	TYPE :EXTERIOR SCONCE MOUNTING :SURFACE (+8'-0" AFF) HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	20 DEGREE BEAM ANGLE. FIXTURE SHALL BE DOWNLIGHT ONLY. FIXTURES LOCATED AT ROOF TERRACE MOUNT AT 7'-0" AFF. BLACK OR BRONZE FINISH PER ARCHITECT BUILDING EXTERIOR, ROOF TERRACE
S4	LED 3000K 1000LM 14W	COOPER LIGHTING (OR APPROVED OTHER)	SMD6R SERIES	TYPE :6" DIA. DOWNLIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	WHITE FINISH UL LISTED WET LOCATION BUILDING EXTERIOR
S5	LED 3000K 2450LM 22W	GARDCO LIGHTING (OR APPROVED OTHER)	PWS SERIES	TYPE :EXTERIOR WALL PACK MOUNTING :SURFACE (+8'-0") HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE III DISTRIBUTION BUILDING SERVICE ENTRANCES
S6	LED 3000K 1000LM 15W	ALCON LIGHTING (OR APPROVED OTHER)	11235 DIR-15 SERIES	TYPE :5" DIA EXTERIOR CYLINDER MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :CLEAR TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	60 DEGREE WIDE FLOOD UL LISTED WET LOCATION ROOF TERRACE
S7	LED 3500K 1000LM 10W	EMERGENSEE LIGHTING (OR APPROVED OTHER)	SEEUVE SERIES	TYPE :EXTERIOR EMERGENCY LIGHT MOUNTING :MULLION MOUNTED HOUSING :ALUMINUM LENS/REFL :ALUMINUM VOLTAGE :MVOLT BALLAST :LED DRIVER	DARK BRONZE FINISH PER ARCHITECT UL LISTED WET LOCATION LEASE SPACE STOREFRONT
S8	LED 3000K 3400LM 17W/FT	INSIGHT LIGHTING (OR APPROVED OTHER)	ME-HO-30K SERIES	TYPE :LINEAR SIGN LIGHTER MOUNTING :SURFACE (VERIFY HEIGHT) HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	VERIFY FIXTURE LENGTH, QUANTITY, FINISH, LENS AND BEAM SPREAD WITH THE OWNER. UL LISTED WET LOCATION BUILDING EXTERIOR
S9	LED 3000K 390LM/FT 3.3W/FT	KELVIX LIGHTING (OR APPROVED OTHER)	400 DK30K-WR SERIES W/ CH-409 CHANNEL & MOUNTING ACCESSORIES	TYPE :LED TAPE & CHANNEL MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :24VOLT BALLAST :LED DRIVER	REFER TO KEYED NOTE #12 ON SHEET E1.21. CONTRACTOR TO PROVIDE ALL COMPONENTS FOR COMPLETE INSTALL UL LISTED WET LOCATION BLDG EXTERIOR ART INSTALLATIONS
S10	LED 3000K 115LM 4W	WAC LIGHTING (OR APPROVED OTHER)	WL-LED310-W-BZ SERIES	TYPE :STEP LIGHT MOUNTING :RECESSED (IN WALL) HOUSING :ALUMINUM LENS/REFL :TEMP. GLASS VOLTAGE :120V BALLAST :LED DRIVER	REFER TO ART INSTALLATION DETAILS ON SHEET E1.24. CONTRACTOR TO PROVIDE ALL COMPONENTS FOR COMPLETE INSTALL UL LISTED WET LOCATION BLDG EXTERIOR ART INSTALLATIONS

LIGHTING NOTES:

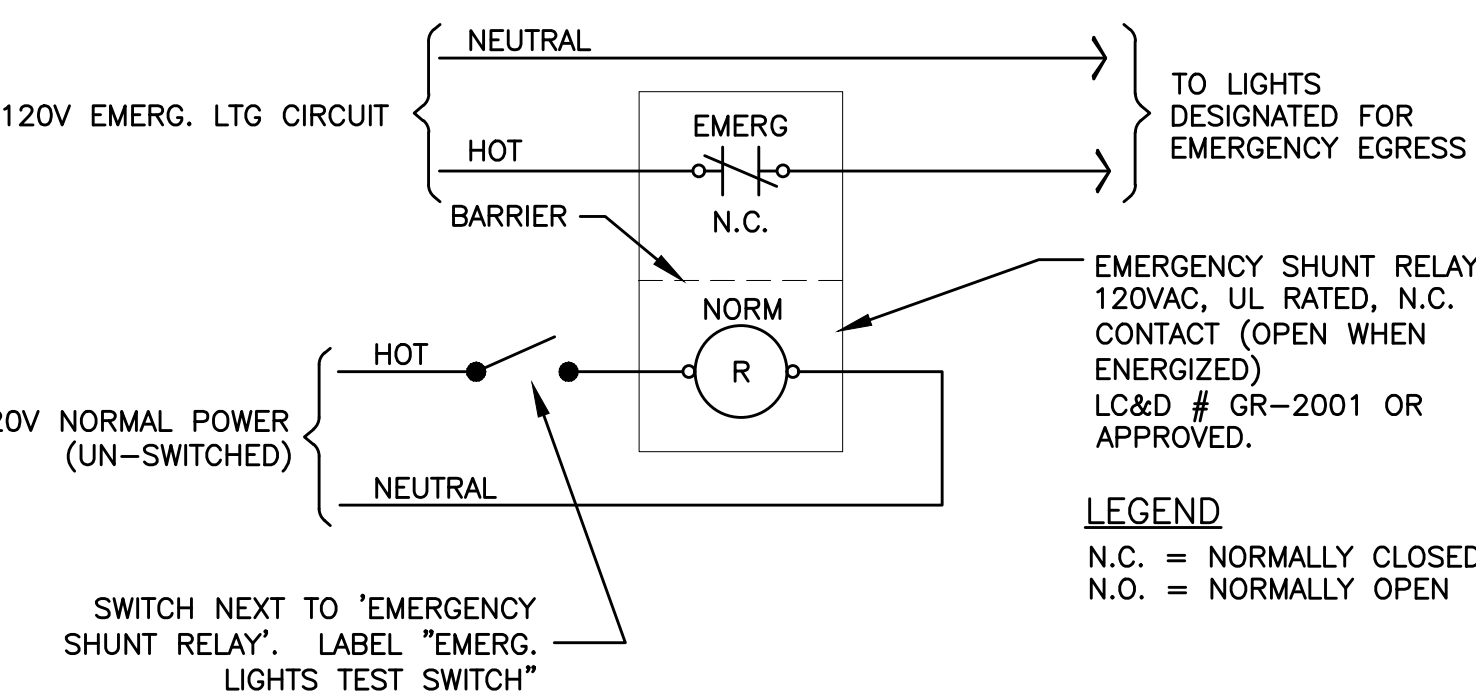
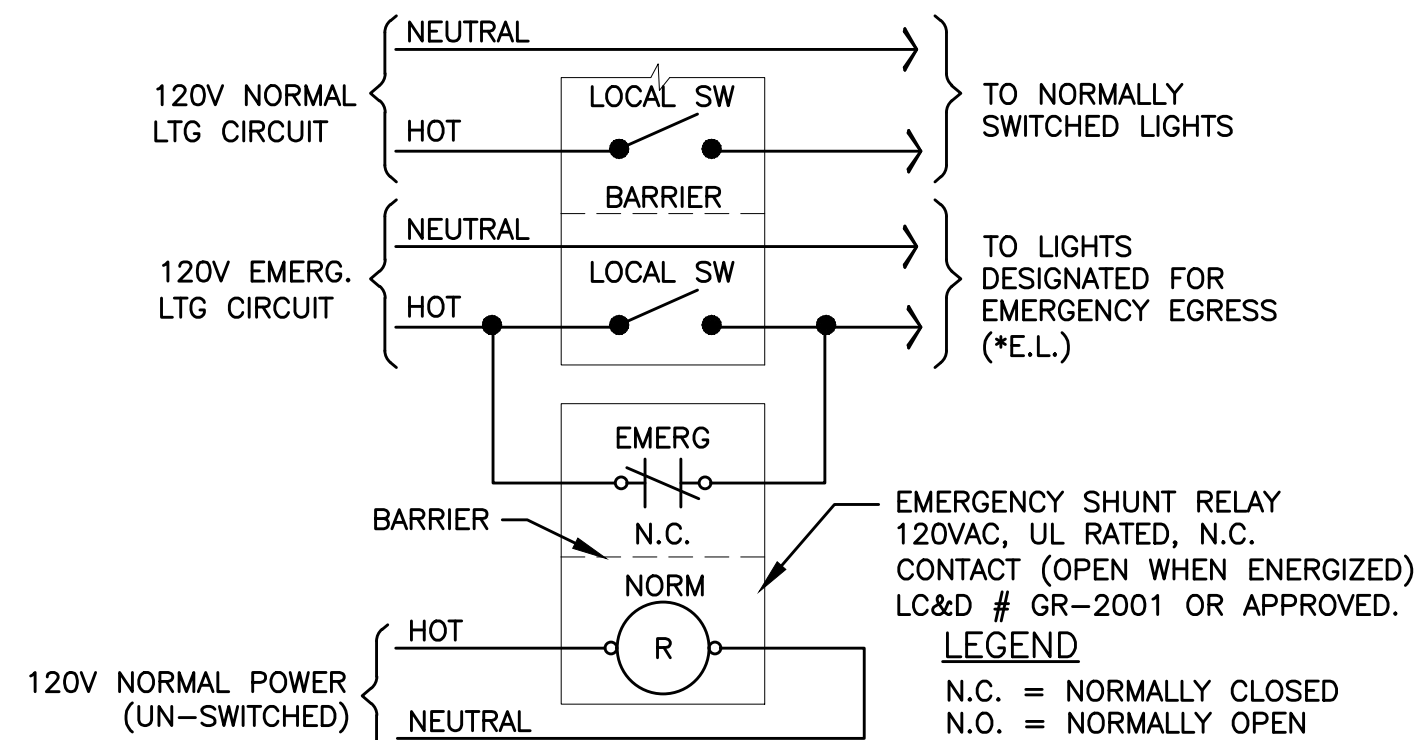
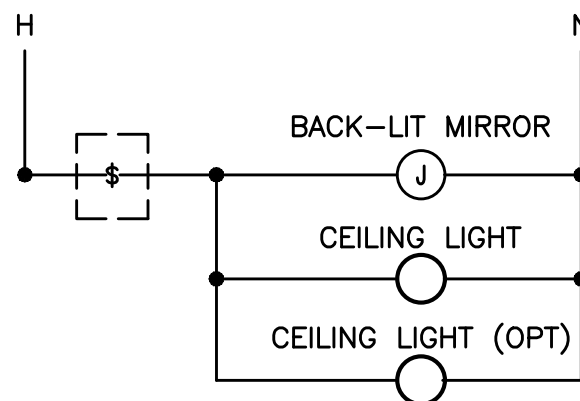
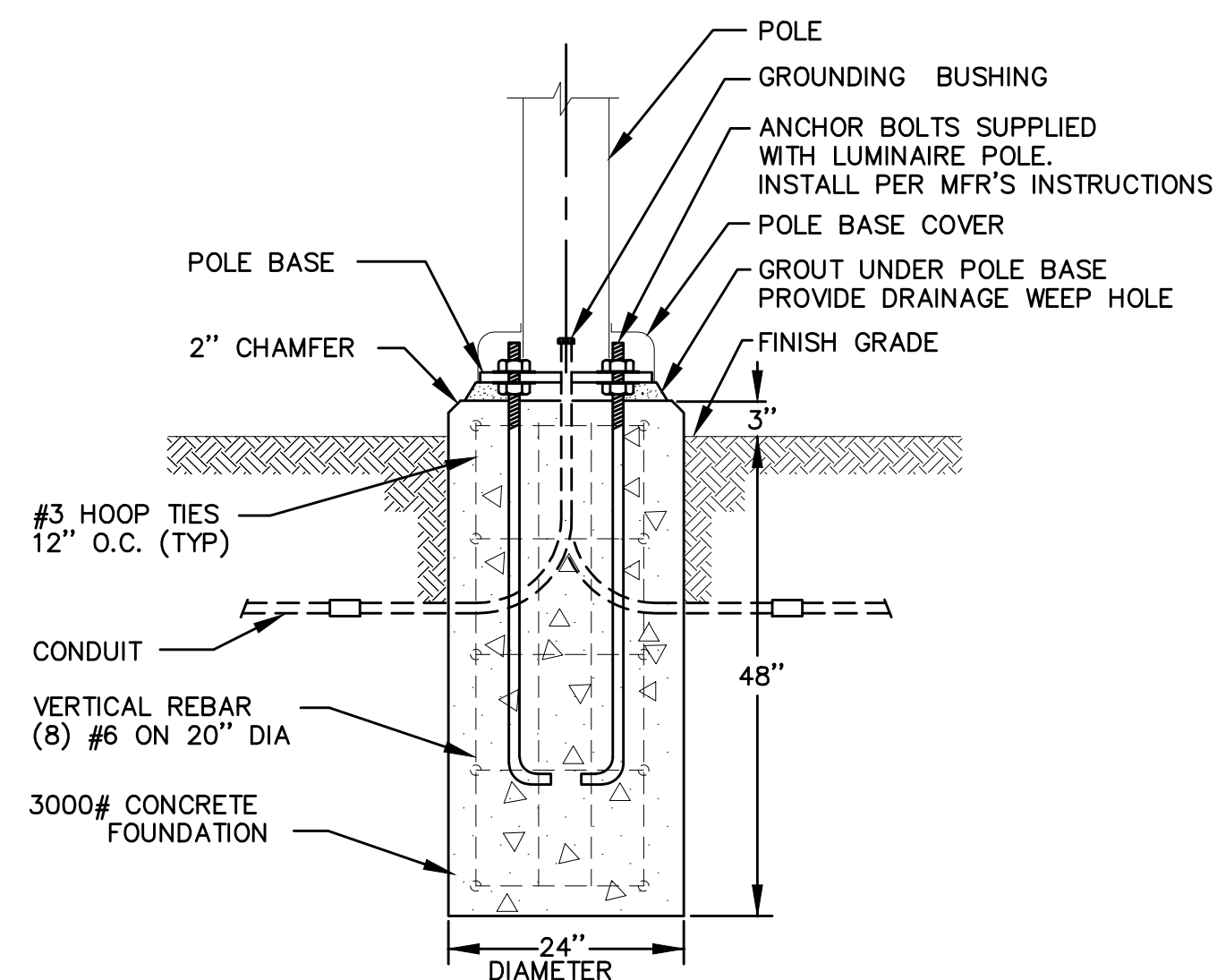
- A. REFER TO SHEET E1.21 FOR ADDITIONAL LIGHTING AND KEYED NOTES.

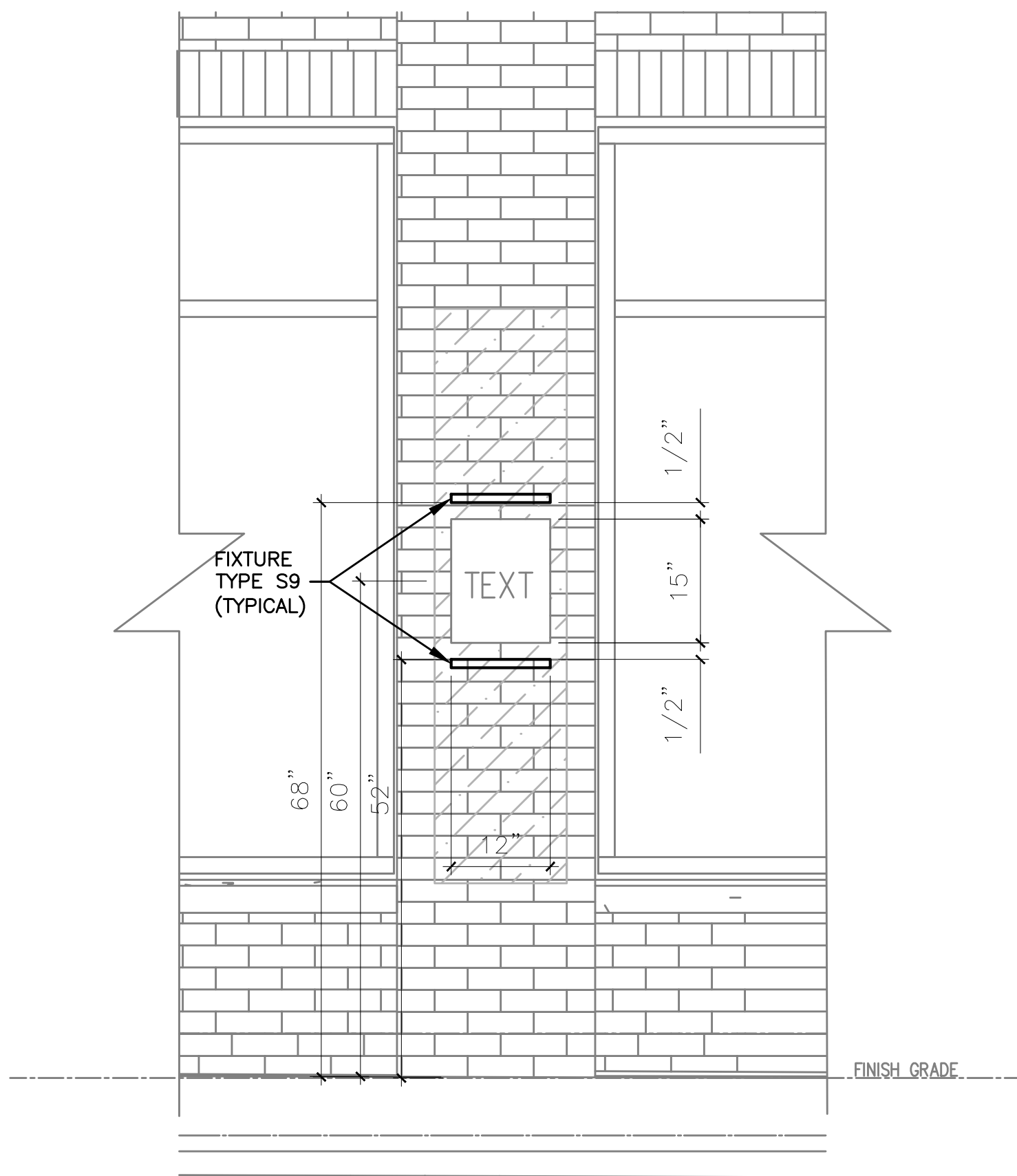
LIGHTING FIXTURE LIST – EXITING

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
'X1'	LED (GREEN LETTERS) (1.5W)	LITHONIA (OR APPROVED OTHER)	EXG LED EL SERIES	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE/DUAL FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	
X2		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
'X3'	LED (GREEN LETTERS) (3.5W)	LITHONIA (OR APPROVED OTHER)	WLTE EL SERIES BLACK FINISH	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	UL LISTED WET LOCATION
'X4'	LED (GREEN LETTERS) (1.5W)	LITHONIA (OR APPROVED OTHER)	EDGR 1 GMR EL SERIES	TYPE :EXIT SIGN MOUNTING :RECESSED HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	MOUNTED CENTERED ABOVE DOOR UNLESS OTHERWISE NOTED.
'X5'	LED (GREEN LETTERS) (3.5W)	EATON (OR APPROVED OTHER)	EUX SERIES	TYPE :EXIT SIGN MOUNTING :SURFACE HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	SURFACE MOUNT AT STOREFRONT MULLION
'X6'	LED (GREEN LETTERS) (3.5W)	EATON (OR APPROVED OTHER)	EUX SERIES	TYPE :EXIT SIGN MOUNTING :SURFACE HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE/DOUBLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	SURFACE MOUNT AT CEILING

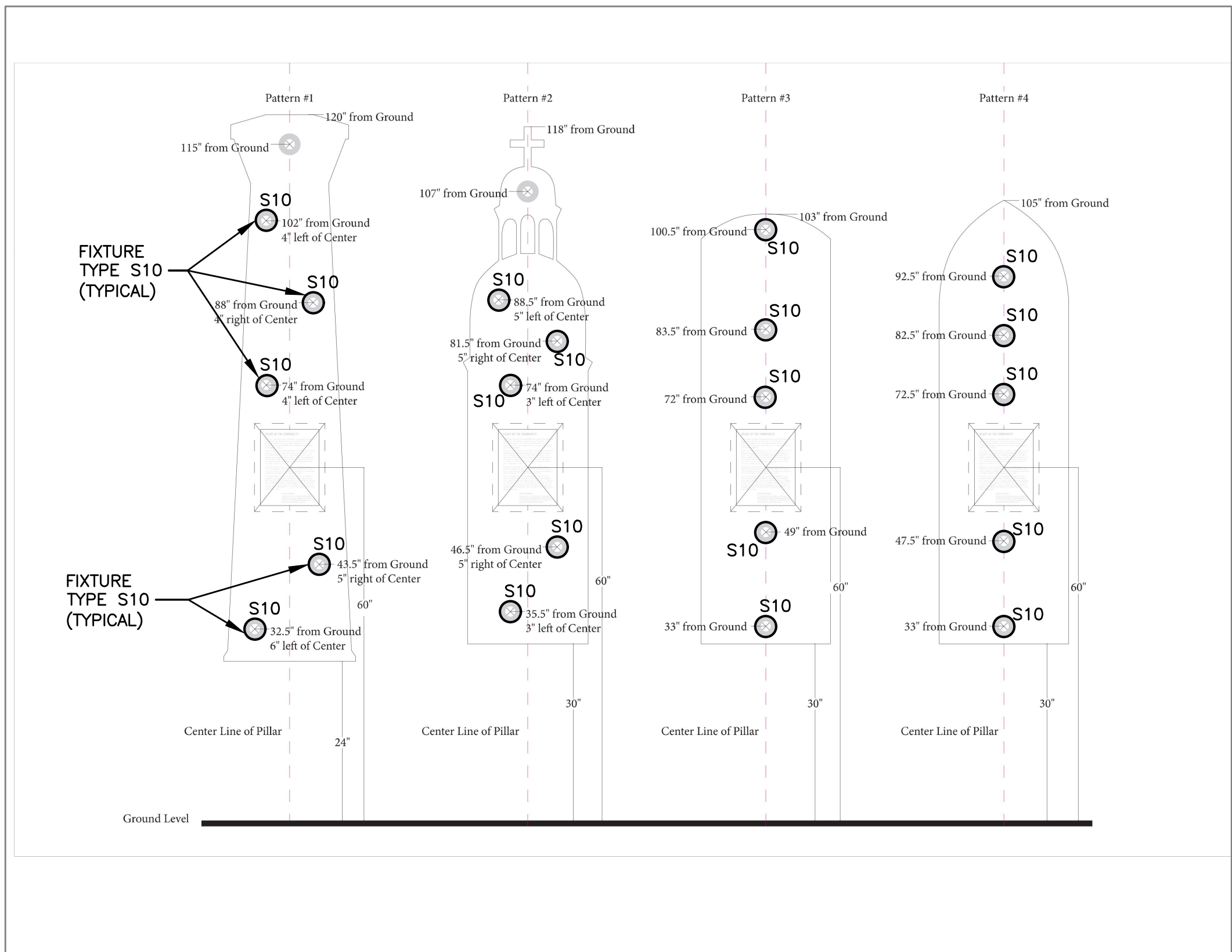
LIGHTING FIXTURE LIST – TYPICAL LIVING UNITS

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
U1 ⑤	LED 600 LM 3000K 10W	COOPER LIGHTING (OR APPROVED OTHER)	SMD4 SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT. UNIT KITCHEN, HALL
U2	LED 750 LUMEN 3000K (18W)	KUZCO LIGHTING (OR APPROVED OTHER)	FM3511 SERIES	TYPE :11" DIA. CEILING LIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :GLASS VOLTAGE :120V BALLAST :LED DRIVER	CHROME FINISH UNIT DINING
U3	LED 3000K 200LM 5W	COOPER LIGHTING (OR APPROVED OTHER)	HU119D9SP SERIES	TYPE :UNDER CABINET LIGHT MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :24V BALLAST :LED DRIVER	WHITE FINISH UNIT KITCHEN
U4 ⑥	LED 1200LM/90CRI 3000K 35W	ROYAL PACIFIC (OR APPROVED OTHER)	1097 SERIES	TYPE :52" CEILING FAN W/ LIGHT KIT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LAMP W/INTEGRAL LED DRIVER	WHITE FINISH PROVIDE BRACING AT CEILING TO SUPPORT A MINIMUM OF 35 LBS. PROVIDE W/ MODEL #WC2WH CONTROL SWITCH UNIT BEDROOM
U5 ⑪	LED 2400LM 3000K 29W	KUZCO LIGHTING (OR APPROVED OTHER)	VL61224 SERIES	TYPE :24" VANITY LIGHT MOUNTING :SURFACE (+6" ABOVE MIRROR) HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :INTEGRAL LED DRIVER	REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION/MOUNTING HEIGHT. FINISH PER ARCHITECT. UNIT BATHROOM

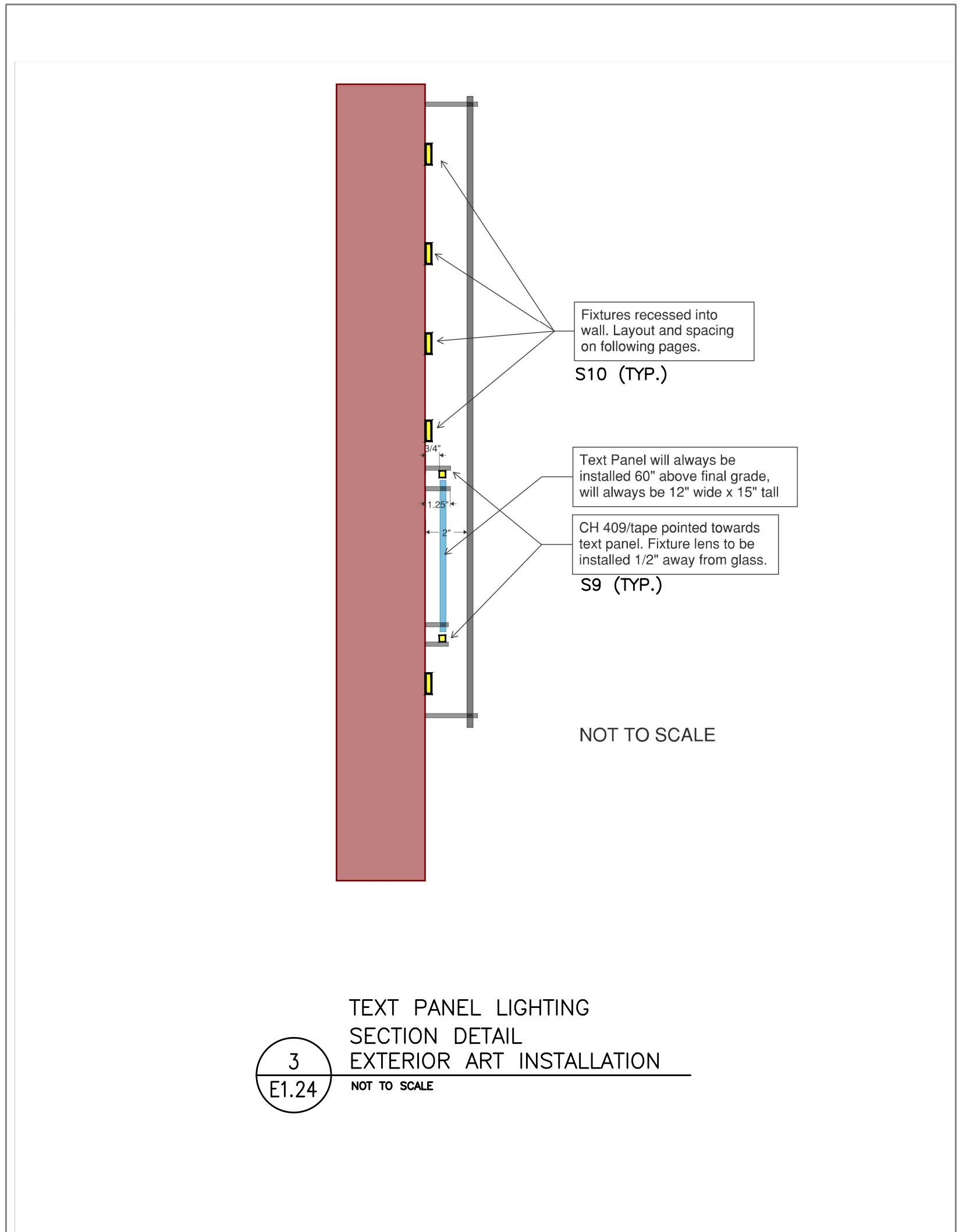
3
E1.22
NO SCALE
EMERGENCY EGRESS LIGHTING – UNSWITCHED4
E1.22
NO SCALE
EMERGENCY EGRESS LIGHTING – SWITCHEDBATHROOM WITH CEILING LIGHT(S)
& BACK-LIT MIRROR1
E1.22
NO SCALE
BATHROOM SWITCHING DIAGRAMS – TYPICAL2
E1.22
NO SCALE
TYPICAL POLE BASE DETAILM
F
I
A
INC. Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
CONTACT: DENISE TAYLOR



1
E1.24
TEXT PANEL LIGHTING DETAIL
FIXTURE TYPE S9 (TYPICAL)
EXTERIOR ART INSTALLATION
NOT TO SCALE



2
E1.24
FIXTURE S10 PATTERNS (TYPICAL)
EXTERIOR ART INSTALLATION
NOT TO SCALE



3
E1.24
TEXT PANEL LIGHTING
SECTION DETAIL
EXTERIOR ART INSTALLATION
NOT TO SCALE

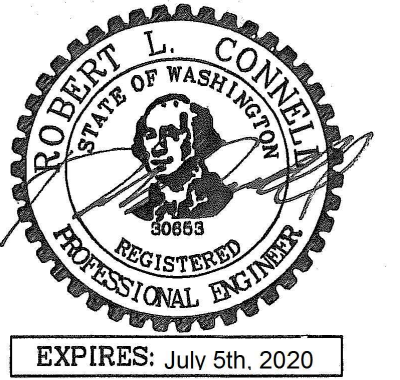
ART LIGHTING INSTALLATION NOTES:

1. REFER TO SHEETS E2.01A & E2.01B FOR EXTERIOR LIGHT FIXTURE LOCATIONS.
2. REFER TO SHEET E1.22 FOR LIGHTING FIXTURE SCHEDULE.
3. CONTRACTOR TO REFER TO THE ARTIST'S DETAILS AND ARCHITECTURAL ELEVATIONS TO COORDINATE EXACT LOCATIONS AND PROVIDE FIELD COORDINATION AS REQUIRED.
4. THE S9 LIGHT FIXTURES FOR THE ART TEXT PANELS ARE TO BE SURFACE MOUNTED WITH CLIPS ON STAND-OFFS, WITH THE CONDUCTORS ROUTED THROUGH THE STAND-OFFS AND EXTERIOR WALL WHERE IT WILL BE TIED INTO THE EXTERIOR BUILDING LIGHT CIRCUITS. REFER TO THE FIRST FLOOR LIGHTING PLANS. ALL PENETRATIONS ARE TO BE SEALED. SEE DETAIL #3 THIS SHEET.
5. THE 1/4" THICK TEXT PANEL IS 3/4" OFF THE SURFACE OF THE BRICK. THE S9 LIGHTS WILL ALSO BE 3/4" OFF THE SURFACE OF THE BRICK, ON THE STAND-OFFS.
6. THE LED DRIVERS/POWER PACKS FOR THE S9 FIXTURES SHALL BE LOCATED WITHIN THE SOFFIT ABOVE (OVER HANG AT 2ND FLOOR), PROVIDE AN ACCESS PANEL PAINTED TO MATCH THE SOFFIT.
7. REFER TO ARCHITECTURAL ELEVATIONS FOR WHICH "PATTERN" OF THE S10 LIGHT FIXTURES WILL BE INSTALLED AT EACH BUILDING COLUMN LOCATION. REFER TO AE2.01 & BE2.01 FOR POWER LOCATIONS. SEE DETAIL 2 ON THIS SHEET FOR LIGHT "PATTERNS".
8. THE S10 LIGHT FIXTURES SHALL BE RECESSED INTO THE EXTERIOR WALL AND THE LOCATIONS INDICATED BY THE ARTIST AND OWNER. REFER TO DETAIL #2 THIS SHEET.

**M
F
A**
INC.
Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
WWW.MFIA-ENG.COM
CONTACT: DENISE TAYLOR

STUDIO
3
ARCHITECTURE
INCORPORATED

275 COURT ST. NE
SALEM, OR 97301-3442
P: 503.390.6500
www.studio3architecture.com



EXPIRES: July 6th, 2020

IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2017-053
DATE: 11/06/2019

- REVISIONS
- PLAN REVIEW 01.24.2020
 - PLAN REVIEW 03.13.2020
 - PLAN REVIEW 04.24.2020
 - PLAN REVIEW 08.10.2020
 - PLAN REVIEW 09.17.2020
 - PLAN REVIEW 10.16.2020
 - PLAN REVIEW 11.25.2020
 - PLAN REVIEW 03.26.2021
 - PLAN REVIEW 07.15.2021
 - COORDINATION 08.27.2021
 - COORDINATION 11.05.2021
 - COORDINATION 12.10.2021
 - COORDINATION 03.03.2022

AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:
E1.24



EXPIRES: July 6th, 2020

IN THE EVENT CONFLICTS ARE DISCOVERED

BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2017-053

DATE: 11/06/2019

REVISIONS

PLAN REVIEW 01.24.2020

PLAN REVIEW 03.13.2020

PLAN REVIEW 04.24.2020

PLAN REVIEW 08.10.2020

PLAN REVIEW 09.17.2020

PLAN REVIEW 10.16.2020

PLAN REVIEW 11.25.2020

PLAN REVIEW 03.26.2021

PLAN REVIEW 07.15.2021

COORDINATION 08.27.2021

COORDINATION 11.05.2021

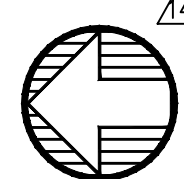
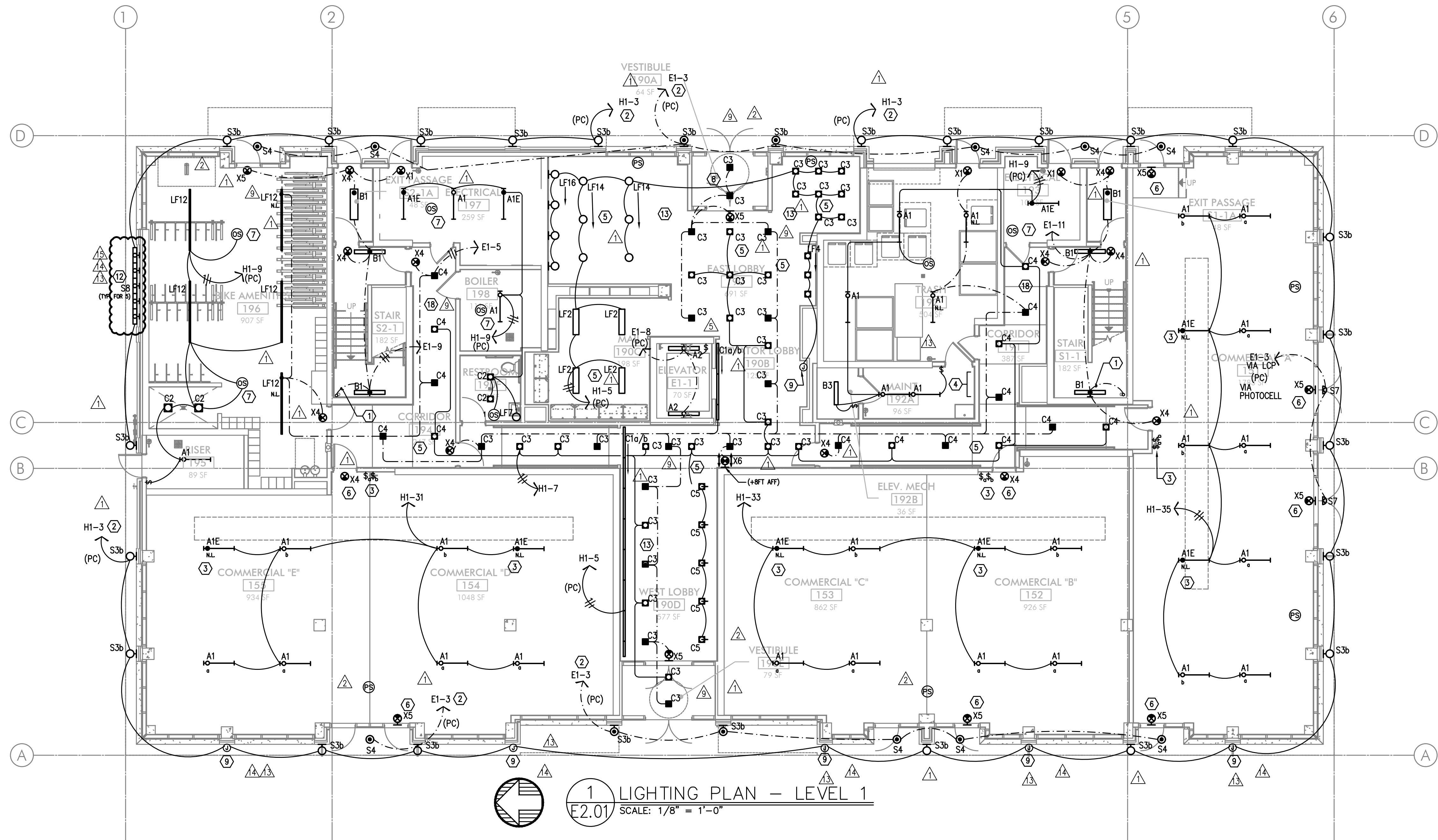
COORDINATION 12.10.2021

COORDINATION 03.03.2022

AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

A
E2.01



1 LIGHTING PLAN - LEVEL 1
E2.01 SCALE: 1/8" = 1'-0"

GENERAL LIGHTING NOTES:

- ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL & INTERIOR DESIGN DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.
- REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.
- THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND/OR INTERIOR DESIGNER FOR THE EXACT LOCATION OF ALL LIGHT FIXTURES PRIOR TO THE START OF ANY ROUGH IN WORK
- REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
- PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- CORRIDOR LIGHTING TO BE CONSTANT "ON" AND PROVIDED WITH LOCAL MANUAL OVERRIDE SWITCHES FOR MAINTENANCE. REFER TO SHEET E1.22 FOR SWITCH WIRING DIAGRAMS.
- REFER TO SHEET E1.23 FOR LIGHTING CONTROL DIAGRAMS AND DESIGN INTENT. VERIFY LIGHTING CONTROLLABILITY WITH ARCHITECT AND/OR OWNER'S REPRESENTATIVE TO DETERMINE EXACT NEEDS FOR ALL PUBLIC/Common AREAS SUCH AS LOBBIES, OFFICES, LOUNGE AREAS, ETC., PRIOR TO THE START OF ANY WORK.
- THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.
- ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

KEYED NOTES:

- CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
- EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.21-E1.22 FOR ADDITIONAL INFORMATION.
- LEASE SPACE LIGHTING TO HAVE DUAL SWITCHES. ONE TO CONTROL NORMAL POWER LIGHTS AND ONE TO ACT AS A MANUAL OVERRIDE FOR NIGHT LIGHT FIXTURES (NL). INTENT IS THAT THE NIGHT LIGHTS ARE TO BE "ON" 24/7 AND ONLY ILLUMINATED AT NIGHT VIA PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. NIGHT LIGHT FIXTURES SHALL ALSO BE EQUIPPED WITH EMERGENCY BATTERY BACKUP IN THE EVENT OF A POWER FAILURE. ALL LIGHT FIXTURES IN THE LEASE SPACE ARE TO BE ON A SINGLE CIRCUIT AND TEMPORARILY FED FROM THE HOUSE PANEL.
- LIGHTING CONTROL FOR LOBBY, CORRIDOR & COMMON SPACES. REFER TO DETAIL #1, SHEET E1.23 FOR MORE INFORMATION.
- LIGHTING CONTROLS FOR THIS AREA LOCATED IN THE MAINTENANCE ROOM. SEE SHEET NOTE #4 FOR MORE INFORMATION.
- TIE INTO TEMPORARY LIGHTING CIRCUIT AND ENSURE BATTERY BACK UP POWER FOR EGRESS.
- LIGHT FIXTURES IN THIS SPACE CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
- FIXTURE FINISH TO MATCH SOFFIT METAL.
- REFER TO ART LIGHTING DETAILS ON SHEET E1.24. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.22. ROUTE CONDUCTORS THROUGH EXTERIOR WALL AND TIE INTO CIRCUIT INDICATED. PROVIDE SEALANT AS REQUIRED. COORDINATE WORK WITH ALL TRADES. FIXTURE PROVIDER, ARCHITECT AND DESIGNER.
- REFER TO DETAIL #3, SHEET E1.23 FOR CLUBROOM LIGHTING CONTROL ASSIGNMENT.
- PROVIDE PHOTOCELL FOR DAY-LIGHT REDUCTION OF LIGHT LEVELS.
- MOUNT (5) FIVE TYPE S8 LIGHT FIXTURES, EVENLY SPACED, AT 4-INCHES BELOW THE TOP OF WALL FOR ART INSTALLATION. COORDINATE WITH THE ARTIST AND OWNER FOR EXACT LOCATION AND FIELD AIM.
- CONTRACTOR TO COORDINATE WITH LANDSCAPE LIGHTING INSTALLER AND PROVIDE ROUGH-IN AND POWER CONNECTION(S) AS REQUIRED.
- TYPICAL LIGHTING CONTROL FOR RESIDENTIAL CORRIDORS. REFER TO DETAIL #2, SHEET E1.23 FOR MORE INFORMATION.
- TIE INTO 5TH FLOOR CORRIDOR CIRCUITS. SEE DETAIL 4 ON SHEET E1.23 FOR CONTROLS LOCATED IN THE 6TH FLOOR MAINTENANCE ROOM.
- EGRESS LIGHT FIXTURES TO BE CONSTANT 'ON' AND FAIL SAFE TO FULL LIGHT OUTPUT IN THE EVENT OF A POWER OUTAGE. TIE FIXTURES INTO CORRIDOR EGRESS CIRCUIT. SEE DETAIL 4 ON E1.23.
- COORDINATE EXACT LOCATION OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH IN.
- CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.

PROVIDE LIGHT FIXTURE(S) AT TOP OF WALL FOR ART INSTALLATION. COORDINATE WITH THE ARTIST AND OWNER FOR EXACT LOCATION AND FIELD AIM.

M
E
T
A
INC.
Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
WWW.META-ENG.COM
CONTACT: DENISE TAYLOR



EXPIRES: July 6th, 2020

IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2017-053
DATE: 11/06/2019

REVISIONS

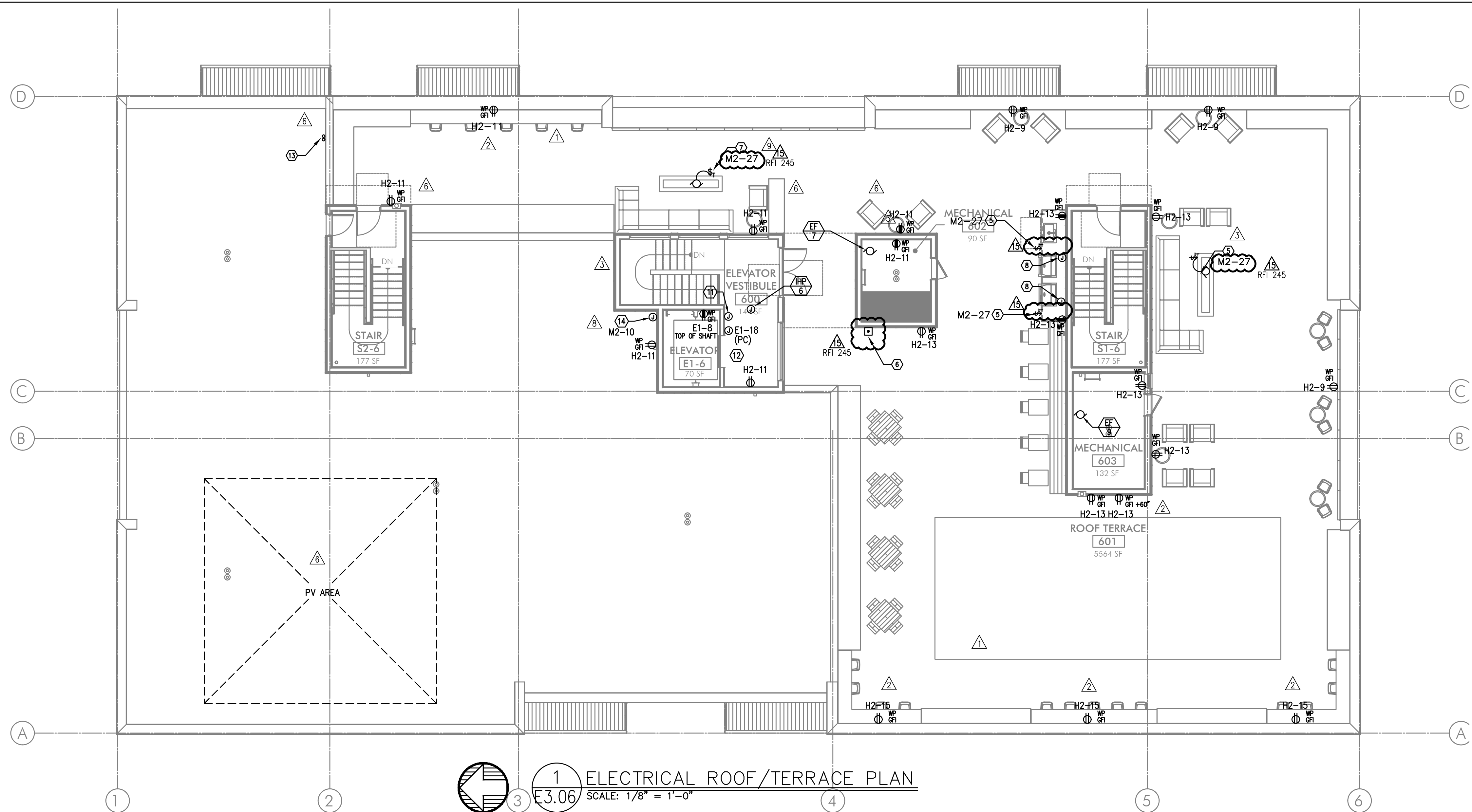
△ PLAN REVIEW 01.24.2020
△ PLAN REVIEW 03.13.2020
△ PLAN REVIEW 04.24.2020
△ PLAN REVIEW 08.10.2020
△ PLAN REVIEW 09.17.2020
△ PLAN REVIEW 10.16.2020
△ PLAN REVIEW 11.25.2020
△ PLAN REVIEW 03.26.2021
△ PLAN REVIEW 07.15.2021
△ COORDINATION 08.27.2021
△ COORDINATION 11.05.2021
△ COORDINATION 12.10.2021
△ COORDINATION 03.03.2022

AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

A
E3.06

M
F
A
INC.
Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
WWW.MFIA-ENG.COM
CONTACT: DENISE TAYLOR



1
E3.06 ELECTRICAL ROOF/TERRACE PLAN
SCALE: 1/8" = 1'-0"

GENERAL POWER NOTES:

- A. ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.
- B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- G. REFER TO INTERIOR DECORATOR AND/OR ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATION(S) AND ELEVATIONS OF FIXTURES & DEVICES. OTHER DEVICES SHOWN ON THE ELECTRICAL PLANS AND NOT INDICATED ON THE DECORATOR'S OR ARCHITECT'S DRAWINGS, SHALL BE INSTALLED AT STANDARD MOUNTING HEIGHT AS INDICATED THE SYMBOL LIST.
- H. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- I. ELECTRICAL EQUIPMENT SHOWN IN THE ELECTRICAL ROOMS IS APPROXIMATE, BASED ON TYPICAL PRODUCTS. CONTRACTOR SHALL VERIFY ANY SUBMITTED EQUIPMENT WILL FIT WITHIN THE SPACE PROVIDED, PRIOR TO PRODUCT SUBMITTAL REVIEW.
- J. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOW VOLTAGE ("T" SERIES) PLANS, INCLUDING FIRE ALARM AND SYSTEMS INSTALLER, AND PROVIDE ROUGH IN AS NEEDED.
- K. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.
- L. "SOLAR READY" WORK FOR FUTURE PHOTOVOLTAIC ARRAY SHALL BE PER THE ELECTRICAL REQUIREMENTS AS DEFINED BY THE WASHINGTON STATE ADMINISTRATION CODE, TITLE 51, CHAPTER 51, SECTION 60106.

KEYED NOTES:

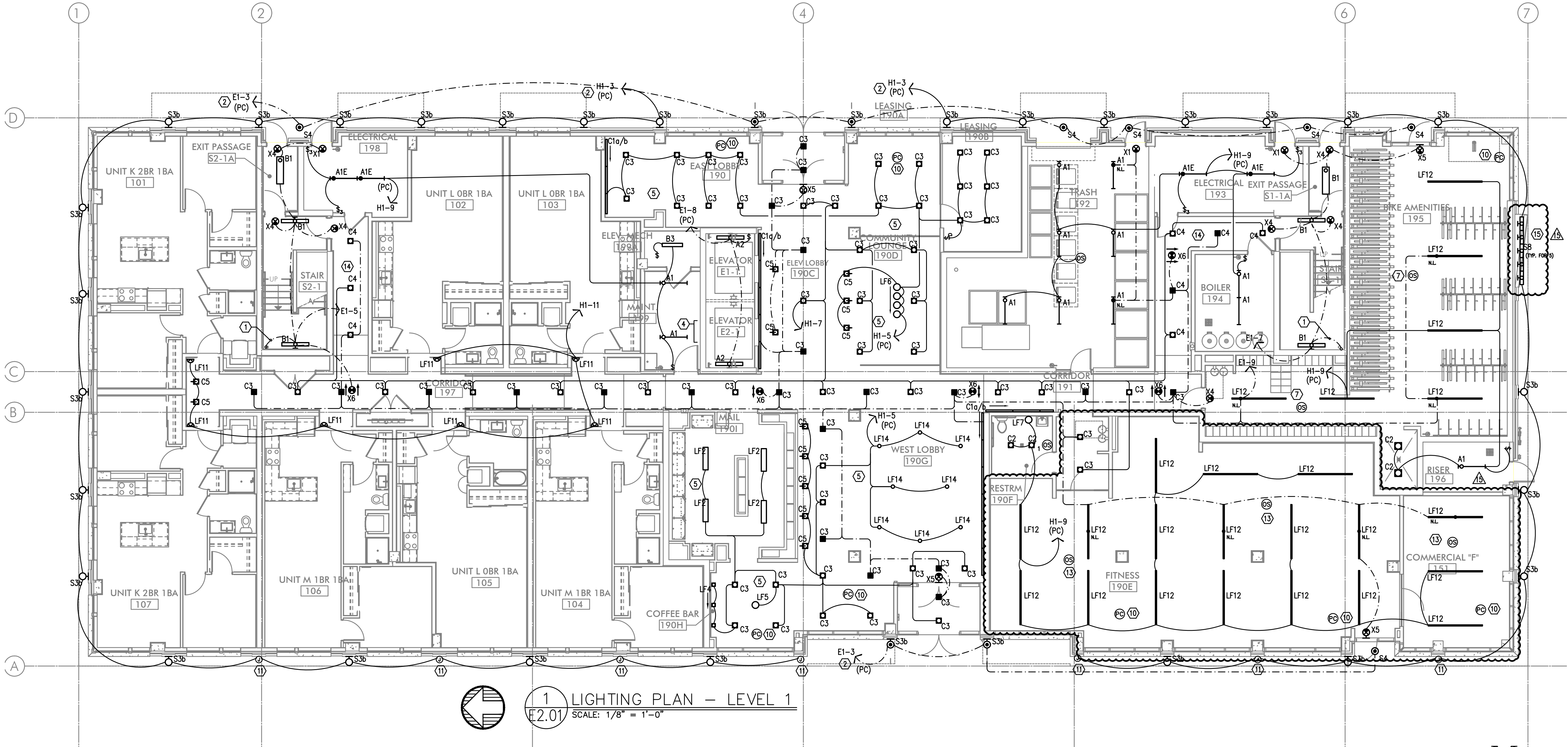
- HEAT PUMP UNITS TO BE INTERCONNECTED WITH A CORRESPONDING APARTMENT FAN COIL UNIT. REFER TO TYPICAL UNIT PANEL SCHEDULES ON E1.17 FOR CIRCUITING INFO. COORDINATE WITH THE MECHANICAL EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH IN. FOR ADDITIONAL INFORMATION, CONSULT THE MECHANICAL PLAN SHEETS.
- NOT USED.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH LANDSCAPE PROVIDER FOR EXACT LOCATION OF POWER CONNECTIONS AS REQUIRED FOR LANDSCAPE IRRIGATION AND SHALL BE CIRCUITED VIA CIRCUIT H2-19.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GAS FIREPLACE. CONSULT WITH MECHANICAL CONTRACTOR FOR EXACT WIRING REQUIREMENTS PRIOR TO ROUGH IN. CONSULT INTERIOR DECORATOR FOR EXACT LOCATION OF CONTROL SWITCH(ES) IF REQUIRED.
- PROVIDE 120V TWIST TIMER SWITCH (MAX. 60 MINUTES, "NO HOLD") IN WEATHER PROOF BOX FOR GAS GRILL CONTROLS. SWITCH TO BE MOUNTED IN FACE OF CABINET (SEE SHEET L704 FOR MOUNTING LOCATION. CIRCUIT FROM PANEL "M2". SEE DETAIL 4/E1.18 FOR EMERGENCY SHUT-OFF DIAGRAM.
- PROVIDE EMERGENCY SHUT-OFF CONTROL FOR GAS APPLIANCES LOCATED ON TERRACE. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. CIRCUIT FROM PANEL "M2". SEE DETAIL 4/E1.18 FOR EMERGENCY SHUT-OFF.
- PROVIDE 120V TWIST TIMER SWITCH (MAX. 60 MINUTES, "NO HOLD") IN WEATHER PROOF BOX FOR FIRE PIT IGNITER CONTROLS. MOUNT IN SIDE OF TABLE AT 15" AFF. CIRCUIT FROM PANEL "M2". SEE DETAIL 4/E1.18 FOR EMERGENCY SHUT-OFF DIAGRAM.
- THE CONTRACTOR TO PROVIDE TWO(2) WEATHER PROOF J-BOXES BELOW GRILL COUNTER FOR FUTURE USE. EACH TO BE FED WITH ONE 20A, 120V CIRCUIT RESERVED IN PANEL "M2".
- PROVIDE ROUGH IN, AS NEEDED, FOR AUDIO SYSTEM CONTROLS.
- PROVIDE ROUGH IN, AS NEEDED, FOR WIFI SYSTEM.
- AREA OF REFUGE PANEL. CONSULT FIRE ALARM PLANS ("T" SERIES SHEETS) AND PROVIDE ROUGH IN AS NEEDED.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT

GENERAL LIGHTING NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- D. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL & INTERIOR DESIGN DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- E. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.
- F. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.
- G. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND INTERIOR DESIGNER FOR ALL FIXTURE LOCATIONS PRIOR TO THE START OF ANY ROUGH IN WORK.
- H. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- I. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
- J. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- K. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.
- L. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
2. EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.21-E1.22 FOR ADDITIONAL INFORMATION.
3. LEASE SPACE LIGHTING TO HAVE DUAL SWITCHES. ONE TO CONTROL NORMAL POWER LIGHTS AND ONE TO ACT AS A MANUAL OVERRIDE FOR NIGHT LIGHT FIXTURES (NL). INTENT IS THAT THE NIGHT LIGHTS ARE TO BE "ON" 24/7 AND ONLY ILLUMINATED AT NIGHT VIA PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. NIGHT LIGHT FIXTURES SHALL ALSO BE EQUIPPED WITH EMERGENCY BATTERY BACKUP IN THE EVENT OF A POWER FAILURE. ALL LIGHT FIXTURES IN THE LEASE SPACE ARE TO BE ON A SINGLE CIRCUIT AND TEMPORARILY FED FROM THE HOUSE PANEL.
4. LIGHTING CONTROL FOR LOBBY, CORRIDOR & COMMON SPACES. REFER TO DETAIL #1, SHEET E1.23 FOR MORE INFORMATION.
5. LIGHTING CONTROLS FOR THIS AREA LOCATED IN THE MAINTENANCE ROOM. SEE SHEET NOTE #4 FOR MORE INFORMATION.
6. NOT USED.
7. BIKE ROOM LIGHT FIXTURES CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
8. FIXTURE FINISH TO MATCH SOFFIT METAL.
9. PROVIDE POWER CONNECTION FOR COVE LIGHTING AT ALL WALL NICHES TO WALL WASH ART INSTALLATIONS. REFER TO INTERIOR DECORATOR'S INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING LENGTH, LOCATIONS AND CONTROL TYPE TO BE INSTALLED. USE FIXTURE TYPE 'C1' AND TIE INTO LOBBY LIGHTING CIRCUIT H1-5.
10. PROVIDE CEILING MOUNTED PHOTOCELL TO PROVIDE DIMMING OF LIGHT FIXTURES DURING DAYLIGHT PERIODS.
11. REFER TO ART LIGHTING DETAILS ON SHEET E1.22. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.22. ROUTE CONDUCTORS THROUGH EXTERIOR WALL AND TIE INTO CIRCUIT INDICATED. PROVIDE SEALANT AS REQUIRED. COORDINATE WORK WITH ALL TRADES, FIXTURE PROVIDER, ARCHITECT AND DESIGNER.
12. TYPICAL LIGHTING CONTROL FOR RESIDENTIAL CORRIDORS. REFER TO DETAIL #2, SHEET E1.23 FOR MORE INFORMATION.
13. FITNESS ROOM LIGHT FIXTURES SHALL BE CONTROLLED VIA OCCUPANCY SENSOR, SUCH THAT LIGHTS SHALL DIM DOWN BY 50% DURING PERIODS OF NO ACTIVITY AND RETURN TO 100% LIGHT OUTPUT ON OCCUPANCY DETECTION. FIXTURES SHALL REMAIN ON FOR A MINIMUM OF 30 MINUTES OF AREA VACANCY.
14. CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.
15. MOUNT (5) FIVE TYPE S8 LIGHT FIXTURES, EVENLY SPACED, AT 4-INCHES BELOW THE TOP OF WALL FOR ART INSTALLATION. COORDINATE WITH THE ARTIST AND OWNER FOR EXACT LOCATION AND FIELD AIM.

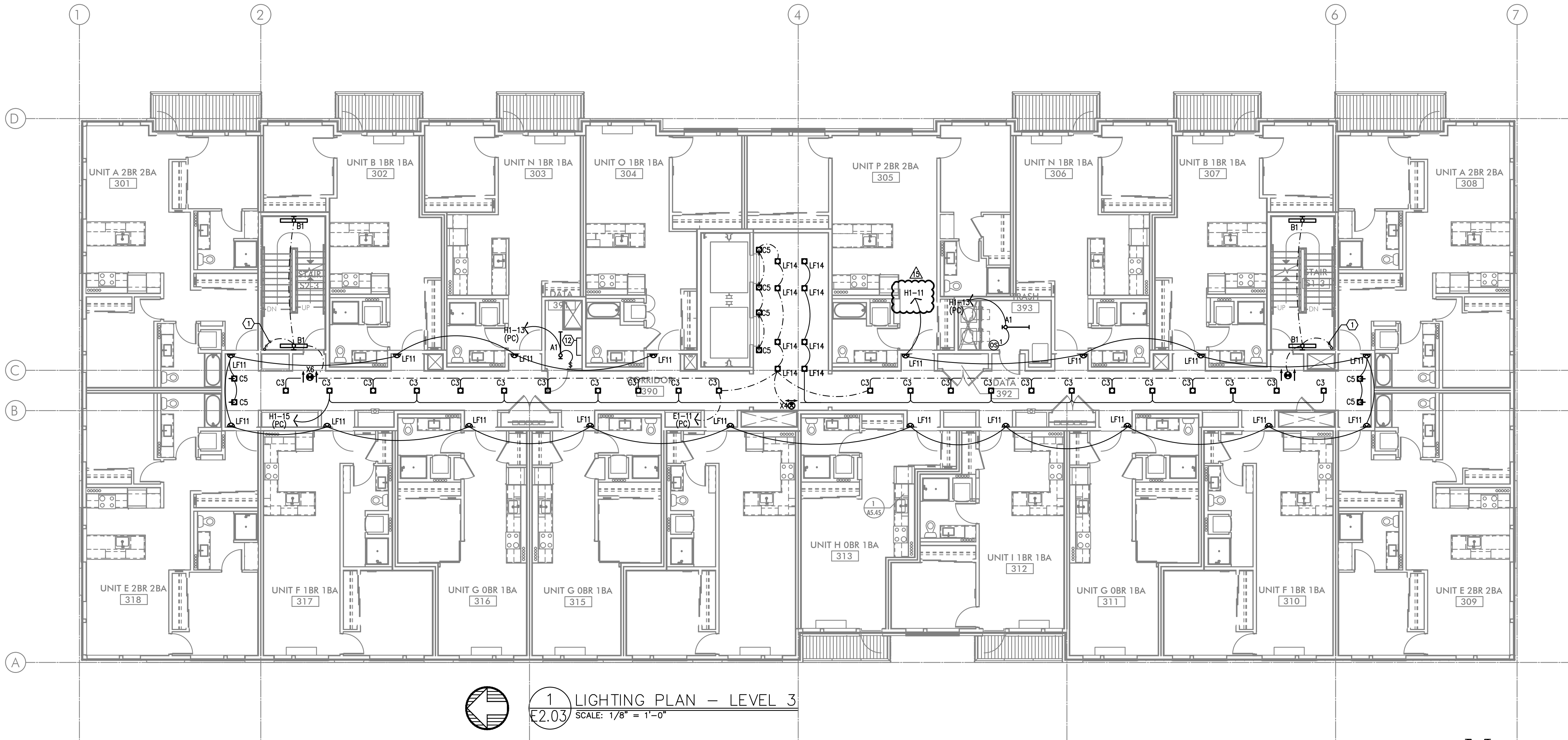


GENERAL LIGHTING NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- D. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL & INTERIOR DESIGN DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- E. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.
- F. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.
- G. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND INTERIOR DESIGNER FOR ALL FIXTURE LOCATIONS PRIOR TO THE START OF ANY ROUGH IN WORK
- H. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- I. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
- J. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- K. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.
- L. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
2. EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.21-E1.22 FOR ADDITIONAL INFORMATION.
3. LEASE SPACE LIGHTING TO HAVE DUAL SWITCHES. ONE TO CONTROL NORMAL POWER LIGHTS AND ONE TO ACT AS A MANUAL OVERRIDE FOR NIGHT LIGHT FIXTURES (NL). INTENT IS THAT THE NIGHT LIGHTS ARE TO BE "ON" 24/7 AND ONLY ILLUMINATED AT NIGHT VIA PHOTOCELL FOR DUSK-TILL-DAWN OPERATION.. NIGHT LIGHT FIXTURES SHALL ALSO BE EQUIPPED WITH EMERGENCY BATTERY BACKUP IN THE EVENT OF A POWER FAILURE. ALL LIGHT FIXTURES IN THE LEASE SPACE ARE TO BE ON A SINGLE CIRCUIT AND TEMPORARILY FED FROM THE HOUSE PANEL.
4. LIGHTING CONTROL FOR LOBBY, CORRIDOR & COMMON SPACES. REFER TO DETAIL #1, SHEET E1.23 FOR MORE INFORMATION.
5. LIGHTING CONTROLS FOR THIS AREA LOCATED IN THE MAINTENANCE ROOM. SEE SHEET NOTE #4 FOR MORE INFORMATION.
6. NOT USED.
7. BIKE ROOM LIGHT FIXTURES CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
8. FIXTURE FINISH TO MATCH SOFFIT METAL.
9. PROVIDE POWER CONNECTION FOR COVE LIGHTING AT ALL WALL NICHES TO WALL WASH ART INSTALLATIONS. REFER TO INTERIOR DECORATOR'S INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING LENGTH, LOCATIONS AND CONTROL TYPE TO BE INSTALLED. USE FIXTURE TYPE 'C1' AND TIE INTO LOBBY LIGHTING CIRCUIT H1-5.
10. PROVIDE CEILING MOUNTED PHOTOCELL TO PROVIDE DIMMING OF LIGHT FIXTURES DURING DAYLIGHT PERIODS.
11. REFER TO ART LIGHTING DETAILS ON SHEET E1.24. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.22. ROUTE CONDUCTORS THROUGH EXTERIOR WALL AND TIE INTO CIRCUIT INDICATED. PROVIDE SEALANT AS REQUIRED. COORDINATE WORK WITH ALL TRADES, FIXTURE PROVIDER, ARCHITECT AND DESIGNER.
12. TYPICAL LIGHTING CONTROL FOR RESIDENTIAL CORRIDORS. REFER TO DETAIL #2, SHEET E1.23 FOR MORE INFORMATION.
13. FITNESS ROOM LIGHT FIXTURES SHALL BE CONTROLLED VIA OCCUPANCY SENSOR, SUCH THAT LIGHTS SHALL DIM DOWN BY 50% DURING PERIODS OF NO ACTIVITY AND RETURN TO 100% LIGHT OUTPUT ON OCCUPANCY DETECTION. FIXTURES SHALL REMAIN ON FOR A MINIMUM OF 30 MINUTES OF AREA VACANCY.
14. CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.
15. MOUNT (5) FIVE TYPE S8 LIGHT FIXTURES, EVENLY SPACED, AT 4-INCHES BELOW THE TOP OF WALL FOR ART INSTALLATION. COORDINATE WITH THE ARTIST AND OWNER FOR EXACT LOCATION AND FIELD AIM.



GENERAL POWER NOTES:

- ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.
- ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- REFER TO INTERIOR DECORATOR AND/OR ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATION(S) AND ELEVATIONS OF FIXTURES & DEVICES. OTHER DEVICES SHOWN ON THE ELECTRICAL PLANS AND NOT INDICATED ON THE DECORATOR'S OR ARCHITECT'S DRAWINGS, SHALL BE INSTALLED AT STANDARD MOUNTING HEIGHT AS INDICATED THE SYMBOL LIST.
- REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- ELECTRICAL EQUIPMENT SHOWN IN THE ELECTRICAL ROOMS IS APPROXIMATE, BASED ON TYPICAL PRODUCTS. CONTRACTOR SHALL VERIFY ANY SUBMITTED EQUIPMENT WILL FIT WITHIN THE SPACE PROVIDED, PRIOR TO PRODUCT SUBMITTAL REVIEW.
- CONSULT ARCHITECTURAL AND/OR INTERIOR DECORATOR PLANS FOR EXACT RECEPTACLE LOCATION IN THE COMMUNITY AREAS, SUCH AS THE LOBBY, CLUB ROOM, LEASE OFFICE, ETC.
- THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.
- "SOLAR READY" WORK FOR FUTURE PHOTOVOLTAIC ARRAY SHALL BE PER THE ELECTRICAL REQUIREMENTS AS DEFINED BY THE WASHINGTON STATE ADMINISTRATION CODE, TITLE 51, CHAPTER 51, SECTION 60106.

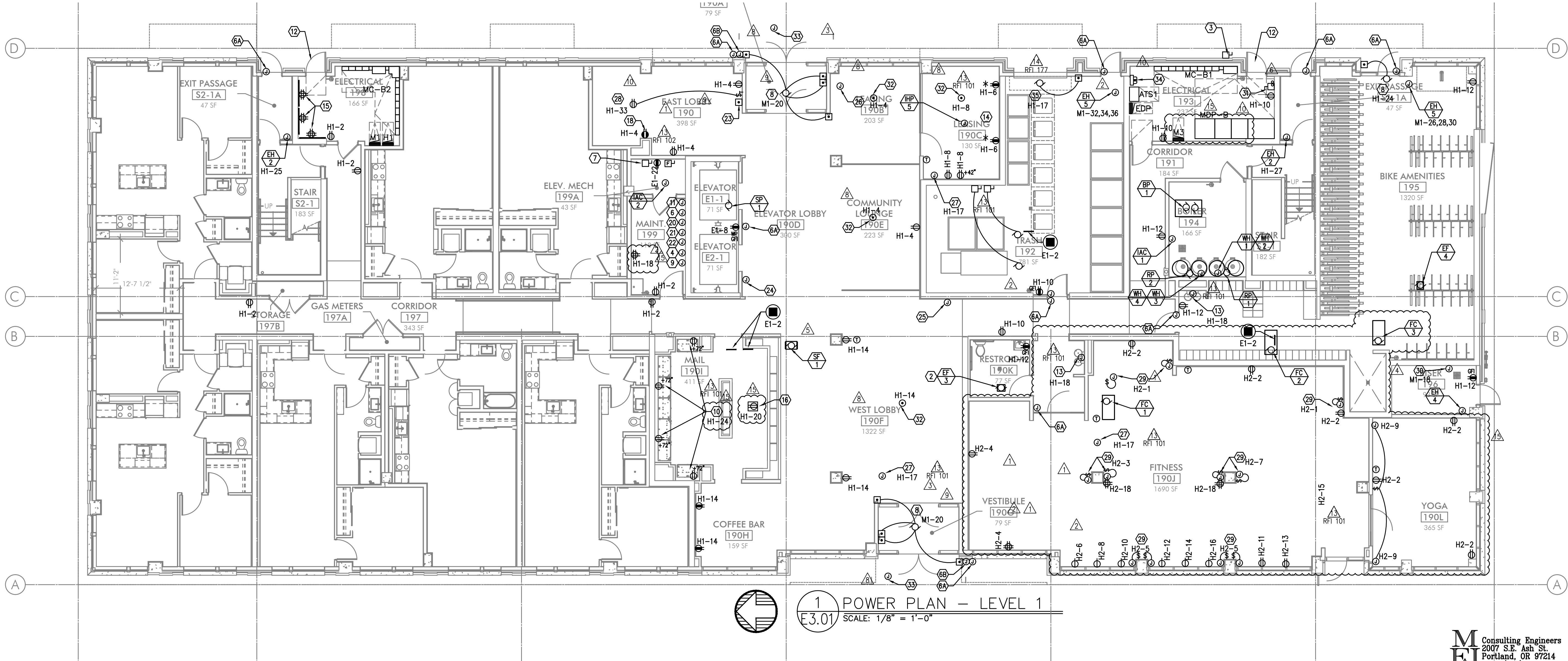
KEYED NOTES:

- NOT USED.
- EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
- GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. FED FROM PANEL E1, CKT 27.
- NOT USED.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL M1, CKT 24 FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS LOCATED ON PLANS. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
- ENTRY ACCESS POINT.
- APARTMENT CALL DIRECTORY.
- VERIFY ELEVATOR EQUIPMENT LOCATION AND ELECTRICAL REQUIREMENTS WITH ARCHITECT AND/OR ELEVATOR PROVIDER.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 'M1' FOR AUTOMATIC DOOR OPENERS.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 'H1' FOR DAS SYSTEM.
- PACKAGE CONCIERGE SYSTEM. MOUNT DUPLEX RECEPTACLES AT 76" AFF.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR A/V SYSTEM CONTROL, FROM PANEL H1, CKT 31. CONSULT INTERIORS GROUP FOR EXACT LOCATION. COORDINATE WITH SYSTEM INSTALLER FOR EXACT REQUIREMENTS.

- ELECTRICAL SERVICE METER ROOMS SHALL HAVE OUTWARD SWING DOORS EQUIPPED WITH PANIC HARDWARE. PROVIDE A KEY BOX AT THE EXTERIOR FOR CLARK PUBLIC UTILITIES 24/7 ACCESS.
- CONSULT MECHANICAL AND/OR PLUMBING CONTRACTOR FOR EXACT ELECTRICAL REQUIREMENTS OF THE DRINKING FOUNTAIN, IF ANY AND PROVIDE CIRCUIT FROM PANE H1.
- PER WASHINGTON STATE ENERGY CODE C405.10, AT LEAST 50% OF THE RECEPTACLES IN THIS SPACE SHALL BE CONTROLLED. RECEPTACLES NOTED WITH '*' SHALL BE CONTROLLED VIA OCCUPANCY SENSOR AND SHALL "TURN OFF" AFTER A MINIMUM OF 30 MINUTES OF IN-ACTIVITY WITHIN THE SPACE. PROVIDE APPROPRIATE IDENTIFICATION OF EACH CONTROLLED RECEPTACLE. REFER TO THE PANEL SCHEDULES ON E1.16 FOR ADDITIONAL INFORMATION ON WHICH CIRCUIT IS TO BE THE CONTROLLED CIRCUIT.
- LOW VOLTAGE/COMMUNICATIONS SYSTEM DEMARCATION BOARD(S). COORDINATE LOCATIONS AND ELECTRICAL POWER REQUIREMENTS WITH THE TELECOM PLANS ('T' SERIES SHEETS) AND LOW VOLTAGE SYSTEMS INSTALLERS, AND PROVIDE ROUGH IN AND/OR FINAL ELECTRICAL POWER CONNECTIONS & DEVICES. REFER PANEL 'M1' SCHEDULE ON E1.16 FOR CIRCUITS.
- CEILING MOUNTED 20A DUPLEX RECEPTACLE FOR SECURITY CAMERA. CONSULT ARCHITECT FOR ADDITIONAL INFORMATION.
- SHAFT FOR THE ROUTING OF ELECTRICAL FEEDERS FROM TENANT METERS TO RESIDENTIAL UNITS.
- HORIZONTAL RECEPTACLE IN BANQUETTE FACE. REFER TO THE ARCHITECT AND INTERIOR DECORATOR PLANS FOR ADDITIONAL INFORMATION. PROVIDE WITH TYPES A & C USB PORTS, LEVITON T5633-T OR APPROVED EQUAL.

- PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM THE EMERGENCY PANEL E1, CKTS 19 & 21 FOR ELEVATOR SMOKE CURTAINS. SMOKE CURTAINS ARE TO BE SMOKE GUARD SYSTEM MODEL 200 AND SHALL BE INSTALLED AT EACH ELEVATOR LOBBY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WITH THE EQUIPMENT PROVIDER/INSTALLER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN. EACH SMOKE CURTAIN SHALL BE INTERLINKED WITH THE NEAREST SMOKE DETECTOR AT EACH LOCATION.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 17 FOR THE APARTMENT ENTRY SYSTEM PRIMARY CONTROL PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED, TO EACH UNIT ENTRY. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 34 FOR THE SECURITY SYSTEM PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL E1, CKT 23 FOR THE FIRE ALARM CONTROL PANEL. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
- PROVIDE EMERGENCY SHUTOFF CONTROLS FOR GAS APPLIANCES. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. CIRCUIT FROM PANEL 'E1'. SEE DETAIL 5/E1.22 FOR EMERGENCY SHUT-OFF DIAGRAM.
- AREA OF REFUGE PANEL. CONSULT FIRE ALARM PLANS ('T' SERIES SHEETS) AND PROVIDE ROUGH IN AS NEEDED. PROVIDE POWER CONNECTION FROM PANEL E1.
- PROVIDE ROUGH IN, AS NEEDED, FOR FIRE ALARM REMOTE ANNUNCIATION PANEL.
- PROVIDE ROUGH IN, AS NEEDED, FOR AUDIO SYSTEM CONTROLS.

- PROVIDE ROUGH IN, AS NEEDED, FOR WIFI SYSTEM. CIRCUIT FROM PANEL 'H1'.
- CONSULT ARCHITECT AND/OR MECHANICAL PLANS FOR ADDITIONAL INFORMATION REGARDING THE FIREPLACE. PROVIDE ELECTRICAL CONNECTION(S) AS NEEDED FROM PANEL 'H1', CKT 33. PROVIDE 120V TWIST-TIMER SWITCH (MAX. 60 MINUTES "NO HOLD") FOR FIREPLACE IGNITOR CONTROLS. INTERCONNECT WITH POWER VENT FAN LOCATED ON ROOF.
- PROVIDE TWO 20A, 120V CIRCUITS, FROM PANEL 'H1' FOR WALL MOUNTED FANS, PROVIDED BY OTHERS. CONSULT INTERIOR DECORATOR FOR EXACT POWER REQUIREMENTS AND MOUNTING HEIGHTS. PROVIDE CONTROL SWITCH PER MANUFACTURER'S/DECORATOR'S DIRECTION.
- PROVIDE ONE 20A, 120V CIRCUIT, FROM PANEL 'M1' FOR IRRIGATION CONTROLS. COORDINATE WITH LANDSCAPING FOR EXACT POWER REQUIREMENTS AND PREFERRED LOCATION PRIOR TO ROUGH IN.
- PROVIDE TWO 1-1/2" EMPTY CONDUITS W/ PULL STRING, ROUTED FROM THE ELECTRICAL ROOM TO THE ROOF FOR PV SOLAR SYSTEM PROVIDED AND INSTALLED BY OTHERS. COORDINATE WITH THE STRUCTURAL ENGINEER FOR THE ROUTING OF THE CONDUITS UP THROUGH THE BUILDING PRIOR TO ANY WORK.
- CONSULT INTERIORS PLANS TO VERIFY EXACT LOCATION OF FLOOR BOX DEVICES PRIOR TO ROUGH IN.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 16 TO J-BOX BEHIND FACE OF CANOPY FOR BUILDING SIGNAGE BY OTHERS. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION. SIGNS TO BE CONTROLLED VIA PHOTOCELL, ALONG WITH BUILDING LIGHTS.
- METER LOCATION FOR PV SYSTEM. VERIFY AND COORDINATE WITH SYSTEM INSTALLER.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 17 FOR OVERHEAD DOOR OPENER.



1 POWER PLAN - LEVEL 1
E3.01 SCALE: 1/8" = 1'-0"

STUDIO

3

ARCHITECTURE
INCORPORATED

275 COURT ST. NE
SALEM, OR 97301-3442
P: 503.390.6500
www.studio3architecture.com



EXPIRES: July 6th, 2020

IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENT SHALL GOVERN.

PROJECT # 2017-053
DATE: 11/06/2019
REVISIONS

- PLAN REVIEW 01.24.2020
- PLAN REVIEW 03.13.2020
- PLAN REVIEW 04.24.2020
- PLAN REVIEW 08.10.2020
- PLAN REVIEW 09.17.2020
- PLAN REVIEW 10.16.2020
- PLAN REVIEW 11.25.2020
- PLAN REVIEW 03.26.2021
- PLAN REVIEW 07.15.2021
- COORDINATION 08.27.2021
- COORDINATION 11.05.2021
- COORDINATION 12.10.2021
- FITNESS EXP. 03.03.2022

AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

B
E3.01

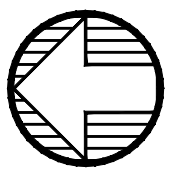
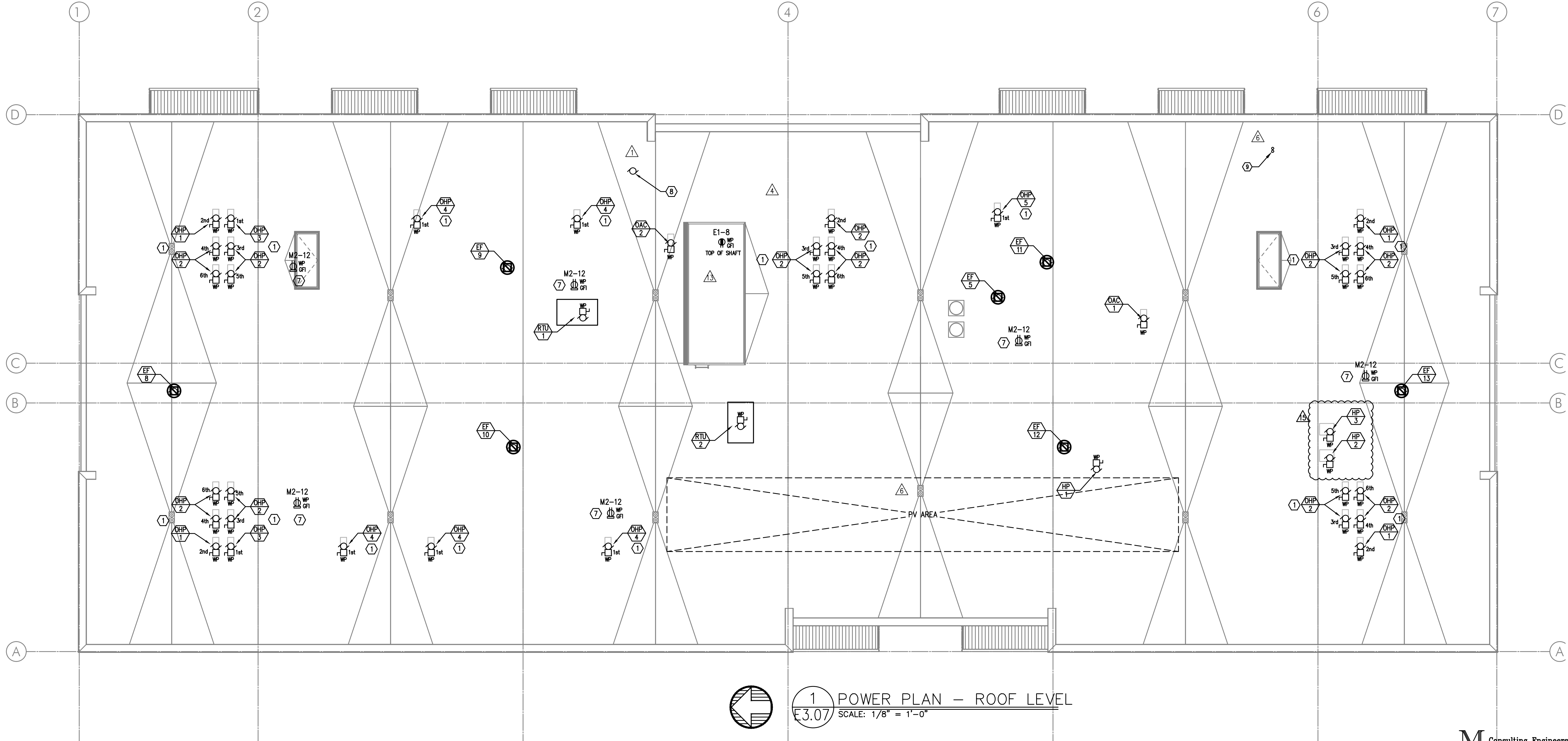
M
E
I
A
INC.
Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
CONTACT: DENISE TAYLOR

GENERAL POWER NOTES:

- A. ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.
- B. COORDINATE WITH MECHANICAL INSTALLER FOR EXACT POWER REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH IN AND THROUGHOUT CONSTRUCTION.
- C. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.
- △ D. "SOLAR READY" WORK FOR FUTURE PHOTOVOLTAIC ARRAY SHALL BE PER THE ELECTRICAL REQUIREMENTS AS DEFINED BY THE WASHINGTON STATE ADMINISTRATION CODE, TITLE 51, CHAPTER 51, SECTION 60106.

KEYED NOTES:

1. HEAT PUMP UNITS TO BE INTERCONNECTED WITH A CORRESPONDING APARTMENT FAN COIL UNIT. REFER TO TYPICAL UNIT PANEL SCHEDULES ON E1.17 FOR CIRCUITING INFO. COORDINATE WITH THE MECHANICAL EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH IN. FOR ADDITIONAL INFORMATION, CONSULT THE MECHANICAL PLAN SHEETS.
2. ELECTRICAL CONTRACTOR TO COORDINATE WITH LANDSCAPE PROVIDER FOR EXACT LOCATION OF POWER CONNECTIONS TO LOW VOLTAGE LIGHTING. LANDSCAPE LIGHTING SHALL BE CIRCUITED VIA CIRCUIT H2-21.
3. ELECTRICAL CONTRACTOR TO COORDINATE WITH LANDSCAPE PROVIDER FOR EXACT LOCATION OF POWER CONNECTIONS AS REQUIRED FOR LANDSCAPE IRRIGATION AND SHALL BE CIRCUITED VIA CIRCUIT H2-19.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GAS FIREPLACE. CONSULT WITH MECHANICAL CONTRACTOR FOR EXACT WIRING REQUIREMENTS PRIOR TO ROUGH IN. CONSULT INTERIOR DECORATOR FOR EXACT LOCATION OF CONTROL SWITCH(ES) IF REQUIRED.
5. PROVIDE 120V TWIST TIMER SWITCH (MAX. 60 MINUTES, "NO HOLD") IN WEATHER PROOF BOX FOR GAS GRILL AND FIRE PIT IGNITER CONTROLS. CIRCUIT FROM PANEL 'H2'. SEE DETAIL 5/E1.22 FOR EMERGENCY SHUFF-OFF DIAGRAM.
6. PROVIDE EMERGENCY SHUTOFF CONTROLS FOR GAS APPLIANCES LOCATED ON TERRACE. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. CIRCUIT FROM PANEL 'H2'. SEE DETAIL 5/E1.22 FOR EMERGENCY SHUFF-OFF DIAGRAM. PROVIDE WEATHER PROOF LABEL EACH BUTTON WITH DEVICE IT CONTROLS.
7. LOCATE WEATHERPROOF GFCI RECEPTACLES WITHIN 25'-0" OF ALL MECHANICAL EQUIPMENT AS REQUIRED BY CODE. MOUNT AT CURBS WHEREVER POSSIBLE. CIRCUIT AS INDICATED.
- △ 8. CONSULT ARCHITECT AND/OR MECHANICAL PLANS FOR ADDITIONAL INFORMATION REGARDING THE FIREPLACE VENT FAN ON ROOF. PROVIDE ELECTRICAL CONNECTION INTERCONNECT WITH FIREPLACE LOCATED AT THE FIRST FLOOR LOBBY.
- △ 9. CONDUIT STUB-UPS FOR PV SOLAR SYSTEM PROVIDED AND INSTALLED BY OTHERS. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION AND COORDINATE WITH SYSTEM INSTALLER FOR EXACT LOCATION. COORDINATE WITH THE STRUCTURAL ENGINEER FOR THE ROUTING OF THE CONDUITS UP THROUGH THE BUILDING PRIOR TO ANY WORK.



1 POWER PLAN — ROOF LEVEL
E3.07 SCALE: 1/8" = 1'-0"



EXPIRES: July 6th, 2020

IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

- PROJECT # 2017-053
DATE: 11/06/2019
REVISIONS
△ PLAN REVIEW 01.24.2020
△ PLAN REVIEW 03.13.2020
△ PLAN REVIEW 04.24.2020
△ PLAN REVIEW 08.10.2020
△ PLAN REVIEW 09.17.2020
△ PLAN REVIEW 10.16.2020
△ PLAN REVIEW 11.25.2020
△ PLAN REVIEW 03.26.2021
△ PLAN REVIEW 07.15.2021
△ COORDINATION 08.27.2021
△ COORDINATION 11.05.2021
△ COORDINATION 12.10.2021
△ FITNESS EXP. 03.03.2022

AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:
B
E3.07

M
F
A
INC.
Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
CONTACT: DENISE TAYLOR