ELECTRICAL SHEET INDEX

E0.00	ELECTRICAL SYMBOLS, NOTES, & LEGENDS
E0.01	LIGHT FIXTURE SCHEDULES
E0.02	LIGHTING CONTROLS
E0.03	DETAILS
E0.04	DETAILS
E0.05	DETAILS
E0.06	RISER DIAGRAM - DWELLING
E0.07	RISER DIAGRAM - HOUSE
E0.08	SERVICE SCHEDULES
E0.09	DWELLING CALCULATIONS
E0.10	DWELLING CALCULATIONS
E0.17	LOAD CENTER SCHEDULES
E0.18	LOAD CENTER SCHEDULES
E0.19	LOAD CENTER SCHEDULES
E0.20	LOAD CENTER SCHEDULES
E0.21	EQUIPMENT CONNECTION SCHEDULES
E1.00	POWER SITE PLAN
E1.01	LIGHTING SITE PLAN
E2.00	UNIT PLANS
E2.01	UNIT PLANS
E2.02	UNIT PLANS
E2.03	UNIT PLANS
E2.04	UNIT PLANS
E2.05	UNIT PLANS
E2.06	UNIT PLANS
E2.07	UNIT PLANS
E2.08	UNIT PLANS
E2.09	UNIT PLANS
E2.10	UNIT PLANS
E2.11	UNIT PLANS
E2.12	UNIT PLANS
E2.13	UNIT PLANS
E2.14	UNIT PLANS
E2.15	UNIT PLANS
E2.16	UNIT PLANS
E2.17	UNIT PLANS
E2.18	UNIT PLANS
E2.19	UNIT PLANS
E2.20	UNIT PLANS
E2.21	UNIT PLANS
E2.22	UNIT PLANS
E2.23	UNIT PLANS
E2.24	UNIT PLANS
E3.04	ENLARGED BUILDING PLAN - BLDG. #1A - LVL. 1
E3.05	ENLARGED BUILDING PLAN - BLDG. #1A - LVL. 2
E3.06	ENLARGED BUILDING PLAN - BLDG. #1A - LVL. 3
E3.07	ENLARGED BUILDING PLAN - BLDG. #1A - LVL. 4
E3.08	ENLARGED BUILDING PLAN - BLDG. #1A - LVL. 5
E3.09	ENLARGED BUILDING PLAN - BLDG. #1A - LVL. 6
E3.10	ENLARGED BUILDING PLAN - BLDG. #1A - LVL. 7
E3.11	ENLARGED BUILDING PLAN - BLDG. #1A - ROOF
E3.12	ENLARGED BUILDING PLAN - BLDG. #1B - LVL. 1
E3.13	ENLARGED BUILDING PLAN - BLDG. #1B - LVL. 2
E3.14	ENLARGED BUILDING PLAN - BLDG. #1B - LVL. 3
E3.15	ENLARGED BUILDING PLAN - BLDG. #1B - LVL. 4
E3.16	ENLARGED BUILDING PLAN - BLDG. #1B - LVL. 5
E3.17	ENLARGED BUILDING PLAN - BLDG. #1B - LVL. 6
E3.18	ENLARGED BUILDING PLAN - BLDG. #1B - LVL. 7
E3.19	ENLARGED BUILDING PLAN - BLDG. #1B - ROOF
E3.20	ENLARGED BUILDING PLAN - BLDG. #2 - LVL. 1
E3.21	ENLARGED BUILDING PLAN - BLDG. #2 - LVL. 2
E3.22	ENLARGED BUILDING PLAN - BLDG. #2 - LVL. 3
E3.23	ENLARGED BUILDING PLAN - BLDG. #2 - LVL. 4
E3.24	ENLARGED BUILDING PLAN - BLDG. #2 - LVL. 5
E3.25	ENLARGED BUILDING PLAN - BLDG. #2 - LVL. 6
E3.26	ENLARGED BUILDING PLAN - BLDG. #2 - LVL. 7
E3.27	ENLARGED BUILDING PLAN - BLDG. #2 - ROOF
E4.04	ENLARGED CEILING PLAN - BLDG. #1A - LVL. 1
E4.05	ENLARGED CEILING PLAN - BLDG. #1A - LVL. 2
E4.06	ENLARGED CEILING PLAN - BLDG. #1A - LVL. 3
E4.07	ENLARGED CEILING PLAN - BLDG. #1A - LVL. 4
E4.08	ENLARGED CEILING PLAN - BLDG. #1A - LVL. 5
E4.09	ENLARGED CEILING PLAN - BLDG. #1A - LVL. 6
E4.10	ENLARGED CEILING PLAN - BLDG. #1A - LVL. 7
E4.12	ENLARGED CEILING PLAN - BLDG. #1B - LVL. 1
E4.13	ENLARGED CEILING PLAN - BLDG. #1B - LVL. 2
E4.14	ENLARGED CEILING PLAN - BLDG. #1B - LVL. 3
E4.15	ENLARGED CEILING PLAN - BLDG. #1B - LVL. 4
E4.16	ENLARGED CEILING PLAN - BLDG. #1B - LVL. 5
E4.17	ENLARGED CEILING PLAN - BLDG. #1B - LVL. 6
E4.18	ENLARGED CEILING PLAN - BLDG. #1B - LVL. 7
E4.20	ENLARGED CEILING PLAN - BLDG. #2 - LVL. 1
E4.21	ENLARGED CEILING PLAN - BLDG. #2 - LVL. 2
E4.22	ENLARGED CEILING PLAN - BLDG. #2 - LVL. 3
E4.23	ENLARGED CEILING PLAN - BLDG. #2 - LVL. 4
E4.24	ENLARGED CEILING PLAN - BLDG. #2 - LVL. 5
E4.25	ENLARGED CEILING PLAN - BLDG. #2 - LVL. 6
E4.26	ENLARGED CEILING PLAN - BLDG. #2 - LVL. 7

ABBREVIATIONS

1P	1 POLE (2P, 3P, 4P, ETC.)	LV	LOW VOLTAGE
A	AMPERE	MAX	MAXIMUM
AC	ABOVE COUNTER OR AIR CONDITIONER	MAG.S	MAGNETIC STARTER
ACLG	ABOVE CEILING	M/C	MOMENTARY CONTACT
ADO	AUTOMATIC DOOR OPENER	MC	MECHANICAL CONTRACTOR
AF	AMP FRAME	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MDC	MAIN DISTRIBUTION CENTER
AFI	ARC FAULT CIRCUIT INTERRUPTER	MDP	MAIN DISTRIBUTION PANEL
AHU	AIR HANDLING UNIT	MFR	MANUFACTURER
AL	ALUMINUM	MFS	MAIN FUSED DISCONNECT SWITCH
ALT	ALTERNATE	MH	MANHOLE
AMP	AMPERE	MIC	MICROPHONE
AMPL	AMPLIFIER	MIN	MINIMUM
ANNUN	ANNUNCIATOR	MISC	MISCELLANEOUS
APPROX	APPROXIMATELY	MLO	MAIN LUGS ONLY
AQ-STAT	AQUASTAT	MMS	MANUAL MOTOR STARTER
ARCH	ARCHITECT, ARCHITECTURAL	MOA	MULTIOUTLET ASSEMBLY
AS	AMP SWITCH	MSP	MOTOR STARTER PANELBOARD
AT	AMP TRIP	MSBD	MAIN SWITCHBOARD
ATS	AUTOMATIC TRANSFER SWITCH	MT	MOUNT
AUTO	AUTOMATIC	MT.C	EMPTY CONDUIT
AUX	AUXILIARY	MTS	MANUAL TRANSFER SWITCH
AV	AUDIO VISUAL	MTR	MOTOR, MOTORIZED
AWG	AMERICAN WIRE GAUGE	N.C.	NORMALLY CLOSED
BATT	BATTERY	NEC	NATIONAL ELECTRICAL CODE
BD	BOARD	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
BLDG	BUILDING		
BMS	BUILDING MANAGEMENT SYSTEM	NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
C	CONDUIT		
CAB	CABINET	NIC	NOT IN CONTRACT
CAT	CATALOG	NL	NIGHT LIGHT
CATV	CABLE TELEVISION	N.O.	NORMALLY OPEN
CB	CIRCUIT BREAKER	NPF	NORMAL POWER FACTOR
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CKT	CIRCUIT	OH	OVERHEAD
CLG	CEILING	OL	OVERLOADS
COMB	COMBINATION	PA	PUBLIC ADDRESS
CMPR	COMPRESSOR	PB	PULL BOX OR PUSHBUTTON
CONN	CONNECTION	PE	PNEUMATIC ELECTRIC
CONST	CONSTRUCTION	PED	PEDESTAL
CONT	CONTINUATION OR CONTINUOUS	PF	POWER FACTOR
CONTR	CONTRACTOR	PH	PHASE
CONV	CONVECTOR	PIV	POST INDICATING VALVE
CP	CIRCULATING PUMP	PNL	PANEL
CRT	CATHODE-RAY TUBE	PP	POWER POLE
CT	CURRENT TRANSFORMER	PR	PAIR
CTR	CENTER	PRI	PRIMARY
CU	COPPER	PROJ	PROJECTION
DCP	DOMESTIC WATER CIRCULATING PUMP	PRV	POWER ROOF VENTILATOR
DEPT	DEPARTMENT	PT	POTENTIAL TRANSFORMER
DET	DETAIL	PVC	POLYVINYL CHLORIDE (CONDUIT)
DIA	DIAMETER	PWR	POWER
DISC	DISCONNECT	QUAN	QUANTITY
DIST	DISTRIBUTION	RCPT	RECEPTACLE
DN	DOWN	REQD	REQUIRED
DPR	DAMPER	RM	ROOM
DS	SAFETY DISCONNECT SWITCH	RSC	RIGID STEEL CONDUIT
DT	DOUBLE THROW	RTU	ROOF TOP UNIT
DWG	DRAWING	SC	SURFACE CONDUIT
EC	ELECTRICAL CONTRACTOR	SEC	SECONDARY
ELEC	ELECTRIC, ELECTRICAL	SHT	SHEET
ELEV	ELEVATOR	SIM	SIMILAR
EM	EMERGENCY	S/N	SOLID NEUTRAL
EMS	ENERGY MANAGEMENT SYSTEM	SPEC	SPECIFICATION
EMT	ELECTRICAL METALLIC TUBING	SPKR	SPEAKER
EP	ELECTRIC PNEUMATIC	SP	SPARE
EQUIP	EQUIPMENT	SR	SURFACE RACEWAY
EWC	ELECTRIC WATER COOLER	SS	STAINLESS STEEL
EXIST	EXISTING	SSW	SELECTOR SWITCH
EXH	EXHAUST	S/S	STOP/START PUSHBUTTONS
EXP	EXPLOSION PROOF	STA	STATION
FA	FIRE ALARM	STD	STANDARD
FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL	SURF	SURFACE MOUNTED
		SW	SWITCH
FACP	FIRE ALARM CONTROL PANEL	SWBD	SWITCHBOARD
FCU	FAN COIL UNIT	SYM	SYMMETRICAL
FIXT	FIXTURE	SYS	SYSTEM
FLR	FLOOR	TEL	TELEPHONE
FLUOR	FLUORESCENT	TEL/DATA	TELEPHONE/DATA
FU	FUSE	TERM	TERMINAL
FUDS	FUSED SAFETY DISCONNECT SWITCH	TL	TWIST LOCK
GA	GAUGE	TR	TAMPER RESISTANT
GAL	GALLON	T-STAT	THERMOSTAT
GALV	GALVANIZED	TTC	TELEPHONE TERMINAL CABINET
GC	GENERAL CONTRACTOR	TV	TELEVISION
GEN	GENERATOR	TVTC	TELEVISION TERMINAL CABINET
GFI	GROUND FAULT CIRCUIT INTERRUPTER	TYP	TYPICAL
GFP	GROUND FAULT PROTECTOR	UC	UNDER COUNTER
GND	GROUND	UE	UNDERGROUND ELECTRICAL
GRS	GALVANIZED RIGID STEEL (CONDUIT)	UG	UNDERGROUND
GYP BD	GYPSUM BOARD	UH	UNIT HEATER
HOA	HANDS-OFF-AUTOMATIC SWITCH	UT	UNDERGROUND TELEPHONE
HORIZ	HORIZONTAL	UTIL	UTILITY
HP	HORSEPOWER	UV	UNIT VENTILATOR OR ULTRAVIOLET
HPF	HIGH POWER FACTOR		
HT	HEIGHT	V	VOLT
HTG	HEATING	VA	VOLT-AMPERES
HTR	HEATER	VDT	VIDEO DISPLAY TERMINAL
HV	HIGH VOLTAGE	VERT	VERTICAL
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	VFD	VARIABLE FREQUENCY DRIVE
		VOL	VOLUME
HWP	HYDRONIC WATER PUMP	W	WATT
IC	INTERRUPTING CAPACITY	W/	WITH
IG	ISOLATED GROUND	WG	WIRE GUARD
IMC	INTERMEDIATE METAL CONDUIT	WH	WATER HEATER
INCAND	INCANDESCENT	W/O	WITHOUT
IR	INFRARED	WP	WEATHERPROOF
I/W	INTERLOCK WITH	XFMR	TRANSFORMER
J-BOX	JUNCTION BOX	XFR	TRANSFER
KV	KILOVOLT		
KVA	KILOVOLT-AMPERE	∠	ANGLE
KVAR	KILOVOLT-AMPERE REACTIVE	@	AT
KW	KILOWATT	▲	DELTA
KWH	KILOWATT HOUR	'	FEET
LOC	LOCATE OR LOCATION	"	INCHES
LT	LIGHT	#	NUMBER
LTG	LIGHTING	Ø	PHASE
LTNG	LIGHTNING	C	CENTER LINE
		P	PLATE

ELECTRICAL SYMBOLS

NOTE	HEIGHT	SYMBOL	DESCRIPTION
L-1	18"		SINGLE RECEPTACLE
L-1	18"		DUPLEX RECEPTACLE
L-1	18"		QUADRAPLEX RECEPTACLE
L-1	43"		DUPLEX RECEPTACLE ABOVE COUNTER
L-1	18"		DUPLEX RECEPTACLE GFCI
L-1	43"		DUPLEX RECEPTACLE GFCI ABOVE COUNTER
L-1	18"		DUPLEX RECEPTACLE WITH (2) DC USB CHARGING PORTS
L-1	43"	AC	DUPLEX RECEPTACLE ABOVE COUNTER WITH (2) DC USB CHARGING PORTS
L-1	18"		DUPLEX GF PROTECTED RECEPTACLE WITH (2) DC USB CHARGING PORTS
L-1	43"	AC	DUPLEX GF PROTECTED RECEPTACLE ABOVE COUNTER WITH (2) DC USB CHARGING PORTS
L-1	43"		ISOLATED GROUND DUPLEX RECEPTACLE
L-1	18"		SPLIT WIRED DUPLEX RECEPTACLE. ONE RECEPTACLE SHALL BE CONTROLLED WHERE USED TO CONSERVE ENERGY, RECEPTACLE SHALL BE SUITABLY MARKED PER NEC REQUIREMENTS.
L-1	18"		SPECIAL PURPOSE RECEPTACLE OUTLET, NEMA CONFIGURATION TO MATCH PLUG
			DUPLEX RECEPTACLE CEILING MOUNTED
			DUPLEX RECEPTACLE FLOOR MOUNTED
			QUAD RECEPTACLE CEILING MOUNTED
			QUAD RECEPTACLE FLOOR MOUNTED
			CLOCK (WALL RECESSED)
L-1			JUNCTION BOX
			JUNCTION BOX CEILING MOUNTED
			JUNCTION BOX FLOOR MOUNTED
			FIRE-RATED POKE-THRU DEVICE
			MULTI-OUTLET ASSEMBLY WITH OUTLETS ON CENTERS AS INDICATED IN NOTES OR SPECIFICATIONS. MOUNT 6" ABOVE COUNTER OR AS INDICATED
			PANELBOARD - WALL MOUNTED (SURFACE)
			PANELBOARD - WALL MOUNTED (RECESSED)
			DISTRIBUTION PANELBOARD - WALL MOUNTED (SURFACE)
			CURRENT TRANSFORMER CABINET
			POWER METER AND SOCKET
		60/3/3R	NONFUSIBLE DISCONNECT SWITCH, RATING/POLES/NEMA ENCLOSURE
		60/3/3R/40	FUSIBLE DISCONNECT SWITCH, RATING/POLES/NEMA ENCLOSURE/FUSE RATING
		SIZE 3/3R	MAGNETIC MOTOR STARTER. NEMA SIZE RATING/ENCLOSURE (NEMA 1 IF NOT SHOWN)
		SIZE 3/3R	COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT MEANS, NEMA SIZE RATING/ENCLOSURE (NEMA 1 IF NOT SHOWN)
		XX-1	MOTOR
L-1	46"		SINGLE POLE SINGLE THROW TOGGLE SWITCH
L-1	46"		3-WAY TOGGLE SWITCH
L-1	46"		4-WAY TOGGLE SWITCH
L-1	46"		MOTOR RATED SWITCH
L-1	46"		KEYED SWITCH
L-1	46"		TIMER SWITCH
L-1	46"		OCCUPANCY SWITCH
L-1	46"		DIMMER SWITCH
L-1	46"		3-WAY DIMMER SWITCH
L-1	46"		OCCUPANCY DIMMER SWITCH
			EMERGENCY LIGHTING FIXTURE
		TC	LIGHTING CONTACTOR / TIMECLOCK
		LS	LIGHT LEVEL SENSOR
		OS	OCCUPANCY SENSOR

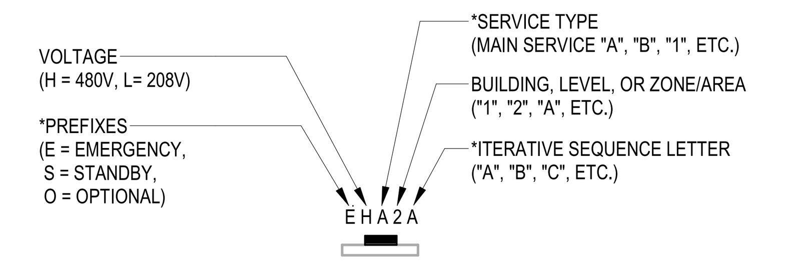
SYMBOL	DESCRIPTION
	LIGHTING FIXTURE, 2X4, 1X4, 2X2
	LIGHTING FIXTURE, 2X4, 1X4, 2X2 - PROVIDING EMERGENCY ILLUMINATION
	RECESSED LIGHTING FIXTURE. NORMAL AND EMERGENCY.
	SURFACE MOUNTED LIGHTING FIXTURE. NORMAL AND EMERGENCY.
	WALL MOUNTED LIGHTING FIXTURE. NORMAL AND EMERGENCY.
	STRIP FIXTURE - OVERHEAD/WALLMOUNTED
	DIRECTIONAL OR WALL WASH LIGHTING FIXTURE
	LIGHT TRACK AND LIGHT TRACK FIXTURES
	POLE MOUNTED LIGHT FIXTURE WITH ARM. SEE PLANS FOR NUMBER OF LUMINAIRES AND LIGHT DIRECTION.
	POST TOP OR BOLLARD LIGHT FIXTURE
	CEILING/PENDANT MOUNTED PADDLE FAN
	EXIT SIGN, CEILING/WALL MOUNTED. SHADED QUADRANT INDICATES FACE(S). PROVIDE ARROWS PER PLANS.

NOTE	HEIGHT	SYMBOL	DESCRIPTION
		F	FIRE ALARM MANUAL PULL STATION
L-3, L-5		H 15cd	FIRE ALARM HORN WITH VISUAL DEVICE, WALL/CEILING MOUNTED. NUMERAL INDICATES CANDELA RATING.
L-3, L-5		S 75cd	FIRE ALARM SPEAKER WITH VISUAL DEVICE, WALL/CEILING MOUNTED. NUMERAL INDICATES CANDELA RATING.
L-3, L-5		H	FIRE ALARM HORN, WALL/CEILING MOUNTED.
L-3, L-5		S	FIRE ALARM SPEAKER, WALL/CEILING MOUNTED.
L-3		75cd	FIRE ALARM VISUAL DEVICE, WALL/CEILING MOUNTED. NUMERAL INDICATES CANDELA RATING.
	42"		FIREMAN PHONE
	42"	J	FIREMAN PHONE JACK
L-4			FIRE ALARM SMOKE DETECTOR, WALL/CEILING MOUNTED
L-4, L-5		H	FIRE ALARM SMOKE DETECTOR WITH INTEGRAL HORN, WALL/CEILING MOUNTED
L-4, L-5		CO H	FIRE ALARM SMOKE/CO DETECTOR WITH INTEGRAL HORN, WALL/CEILING MOUNTED
L-4, L-6		SA	120V AUDIBLE SMOKE ALARM WITH BATTERY, WALL/CEILING MOUNTED
L-4, L-6		SA 15cd	120V AUDIBLE/VISUAL SMOKE ALARM WITH BATTERY, WALL/CEILING MOUNTED. NUMERAL INDICATES CANDELA
L-4, L-6		CA	120V AUDIBLE COMBINATION SMOKE/CO ALARM, WALL/CEILING MOUNTED. NUMERAL INDICATES CANDELA
L-4, L-6		CA 75cd	120V AUDIBLE/VISUAL COMBINATION SMOKE/CO ALARM, WALL/CEILING MOUNTED. NUMERAL INDICATES CANDELA
		AIM	ADDRESSABLE INTELLIGENT MODULE - FIRE ALARM SYSTEM
			FIRE ALARM HEAT DETECTOR, WALL/CEILING MOUNTED.
		A	FIRE ALARM ANALOG HEAT DETECTOR, WALL/CEILING MOUNTED.
		WF	CONNECTION TO FIRE PROTECTION SYSTEM WATER FLOW
		VS	VALVE SUPERVISORY
		DH	FIRE ALARM DOOR HOLDER
			FIRE ALARM DOOR CLOSER
			DUCT MOUNTED SMOKE DETECTOR
		RS	REMOTE TEST STATION
		RI	REMOTE INDICATOR LIGHT
			FIRE ALARM CONTROL PANEL, SURFACE
			FIRE ALARM CONTROL PANEL, RECESSED
			FIRE ALARM ANNUNCIATOR PANEL, RECESSED
	18"		TELEPHONE OUTLET, WALL MOUNTED.
L-1, L-2	43"		TELEPHONE OUTLET, ABOVE COUNTER
			TELEPHONE OUTLET, FLOOR MOUNTED
			TELEPHONE OUTLET, CEILING MOUNTED
	18"		COMBINATION TELEPHONE/DATA OUTLET, WALL MOUNTED.
L-1, L-2	43"		COMBINATION TELEPHONE/DATA OUTLET, ABOVE COUNTER
			COMBINATION TELEPHONE/DATA OUTLET, FLOOR MOUNTED
			COMBINATION TELEPHONE/DATA OUTLET, CEILING MOUNTED
	18"		DATA OUTLET, WALL MOUNTED.
L-1, L-2	43"		DATA OUTLET, ABOVE COUNTER
			DATA OUTLET, FLOOR MOUNTED
			DATA OUTLET, CEILING MOUNTED
L-1	18"	TV	TELEVISION OUTLET, WALL MOUNTED.
		TV	TELEVISION OUTLET, FLOOR MOUNTED
		TV	TELEVISION OUTLET, CEILING MOUNTED
L-1	36"	EV	ELECTRIC VEHICLE OUTLET, WALL MOUNTED.
		EV	ELECTRIC VEHICLE OUTLET, FLOOR MOUNTED
	46"	BS	TWO-WAY COMMUNICATION BASE STATION
	46"	CBX	CALL BOX

CIRCUITING/CONDUIT

SYMBOL	DESCRIPTION
X-1,3,5	ARROWHEAD INDICATES HOMERUN. X-1,3,5 ADJACENT TO HOMERUN ARROWHEADS INDICATES HOMERUN TO PANEL X CIRCUIT NUMBERS 1, 3, AND 5.
3,5	INDICATES CIRCUIT CONTINUATION OF CIRCUITS 3 AND 5 OF PANEL X.
	MARKS ACROSS RACEWAY SYMBOLS INDICATE THE NUMBER OF #12 CONDUCTORS (2 PHASE, 1 NEUTRAL) UNLESS OTHERWISE NOTED. NO MARKS INDICATES TWO #12 CONDUCTORS. EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED BY MARKS.
	RACEWAY/CABLE CONCEALED IN WALL AND/OR ABOVE CEILING
	RACEWAY CONCEALED BELOW GRADE OR IN-SLAB
	RACEWAY/CABLE CONCEALED IN WALL AND/OR ABOVE CEILING - EMERGENCY CIRCUIT
	RACEWAY INSTALLED EXPOSED
	GROUNDING CONNECTION (SYSTEM AND/OR EQUIPMENT)
	CONDUIT TURNING UP/DOWN
	CONDUIT STUB. TERMINATE IN INSULATED BUSHING OR CAP IF UNDERGROUND

PANELBOARD IDENTIFICATION



* DENOTES ONLY USED IF APPLICABLE

EXAMPLES:

HA1A (480V PANEL, SERVED FROM MSA, MECHANICAL LOADS, (NO BUILDING, LEVEL, OR ZONE), FIRST PANEL)

LB2C (208V PANEL, SERVED FROM MSB, METERING LOAD TYPE NOT APPLICABLE, LEVEL 2, THIRD PANEL)

SPECIFIC CODE NOTES

FIRE PROTECTION REQUIREMENTS

A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.

1. CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRE-STOPPED.
2. OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION.
3. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.

B. LIGHT FIXTURES AND OTHER APPARATUS SUPPORTED BY THE ACOUSTICAL CEILING GRID MUST MEET THE REQUIREMENTS OF NEC SECTION 410.16, MEANS OF SUPPORT.

C. RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING ASSEMBLIES SHALL BE FIRE RATED FIXTURES BEARING THE UL FIRE RATED LABEL. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE REQUIREMENTS OF THE UL FIRE RESISTANCE DIRECTORY.

LEGEND NOTES

L-1 MOUNTING HEIGHTS NOTED ARE TO THE CENTER OF DEVICE ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE.

L-2 STUB 3/4" CONDUIT 6" ABOVE ACCESSIBLE CEILING AND TERMINATE WITH NYLON GROMMET.

L-3 WHERE FIRE ALARM VISUAL DEVICES ARE WALL-MOUNTED, THE ENTIRE LENS SHALL BE MOUNTED A MINIMUM OF 80" AFF AND NOT GREATER THAN 96" AFF. TOPS OF WALL-MOUNTED AUDIBLE-ONLY DEVICES SHALL NOT BE LESS THAN 90" AFF AND NOT LESS THAN 6" BELOW FINISHED CEILING. WITHIN SLEEPING AREAS, WHERE DISTANCE FROM CEILING TO TOP OF VISUAL DEVICE LENS IS LESS THAN 24", DEVICE SHALL HAVE INTENSITY OF 177 CANDELA.

L-4 120V SMOKE AND CO ALARMS SHALL HAVE BATTERY BACKUP AND BE PROVIDED WITH AUXILIARY CONTACTS. WALL MOUNTED DEVICE SHALL BE LOCATED 4" MIN. AND 12" MAX. FROM CEILING.

L-5 AUDIBLE SIGNAL OF FIRE ALARM DEVICES LOCATED IN SLEEPING ROOMS SHALL BE 520HZ.

L-6 AUDIBLE SIGNAL OF SMOKE AND CO ALARMS LOCATED IN SLEEPING ROOMS AND DWELLINGS DESIGNATED FOR H/C ACCESSIBILITY OR HEARING IMPAIRED SHALL BE 520HZ.

ELECTRICAL GENERAL NOTES

G1 PROJECT DESIGN IS BASED UPON THE 2023 EDITION OF THE NATIONAL ELECTRICAL CODE AND THE 2022 DENVER BUILDING CODE & ASSOCIATED AMENDMENTS.

G2 WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOMERUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.

G3 REFER TO THE APPROPRIATE DRAWINGS (INCLUDING ARCHITECTURAL DRAWINGS) FOR THE EXACT LOCATION OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS OF THE DOCUMENTS WHICH REQUIRE ELECTRICAL SERVICE.

G4 CAPITAL LETTER BESIDE LIGHTING SYMBOL INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SELECTION.

G5 EQUIPMENT GROUNDING CONDUCTORS ARE TO BE INCLUDED IN ALL RACEWAYS AND CABLES.

G6 REFER TO SPRINKLER FIRE PROTECTION SHOP DRAWINGS FOR ALL FLOW AND TAMPER SWITCH LOCATIONS AND CONNECTIONS FOR THE FIRE ALARM SYSTEM.

G7 REFER TO ARCHITECTURAL DOOR SCHEDULES FOR DOORS REQUIRING FIRE ALARM SYSTEM INTERFACE AND SMOKE OPERATION. PROVIDE 120V POWER AND FIRE ALARM CONNECTION TO ALL FIRE/SMOKE AND SMOKE DAMPERS INDICATED ON THE MECHANICAL DRAWINGS. WHERE ANY DAMPER IS EQUIPPED WITH INTEGRAL SMOKE DETECTOR, PROVIDE A ZONE ADDRESSABLE MODULE FOR CONNECTION TO FIRE ALARM SYSTEM WIRING.

G8 IN BUILDINGS WITH MULTIPLE SERVICES, THE CONTRACTOR SHALL PROVIDE A PLAQUE AT EACH SERVICE EQUIPMENT LOCATION DENOTING ALL OTHER SERVICES IN THE BUILDING AND THE AREA SERVED BY EACH.

G9 ANY CABLE ROUTED TO A WALL SWITCH CONTROLLING LIGHTING SHALL CONTAIN A GROUNDED CONDUCTOR (NEUTRAL), IN ADDITION TO AN EQUIPMENT GROUNDING CONDUCTOR. EXCEPTION: SWITCHES IN ROOMS WITH ACCESSIBLE CEILINGS GIVING ACCESS TO OPEN WALL CAVITIES.

G10 CONTRACTOR SHALL ENSURE TO THE GREATEST EXTENT POSSIBLE THAT LOADS ON THE ELECTRICAL DISTRIBUTION SYSTEM ARE PHASED-BALANCED. WHERE MULTI-METER PACKS ARE INSTALLED, EQUIPMENT LUGS SHALL BE ADJUSTED ACCORDINGLY TO BALANCE PHASES.

G11 FIRE ALARM INITIATING DEVICES LOCATED IN ELEVATOR SHAFTS ARE REQUIRED TO BE ACCESSIBLE FOR SERVICE, TESTING, AND MAINTENANCE FROM OUTSIDE THE ELEVATOR HOISTWAY PER NFPA 72 20.3.7.

G12 WHERE CIRCUIT BREAKERS OR FUSES ARE SERIES COMBINATION RATED, THE ENCLOSURE FOR THE OVERCURRENT DEVICES SHALL BE CLEARLY AND LEGIBLY MARKED IN THE FIELD TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION RATING. THE MARKING SHALL BE READILY VISIBLE AND STATE THE FOLLOWING: CAUTION - SERIES COMBINATION SYSTEM RATED ____ AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED.

G13 CONTRACTOR SHALL PROVIDE PANIC HARDWARE FOR ALL ELECTRICAL ROOM DOORS MEETING REQUIREMENTS OF NEC 110.26 (C)(3). COORDINATE WITH THE ARCHITECT'S DOOR HARDWARE SCHEDULE AND PROVIDE ACCORDINGLY PER REQUIREMENTS. CONFIRM WITH THE ELECTRICAL ENGINEER PRIOR TO FINALIZING DOOR HARDWARE SUBMITTAL TO ENSURE REQUIRED EQUIPMENTS ARE BEING ORDERED AND INSTALLED PER THE NEC. CONTRACTOR SHALL VERIFY ELECTRICAL ROOM DOORS OPEN IN THE DIRECTION OF EGRESS PER NEC 110.26(C)(3). CONTRACTOR SHALL NOTIFY IF ANY DISCREPANCIES THROUGHOUT THE PLAN PRIOR TO GMP, ROUGH-IN.

G14 UNLESS NOTED OTHERWISE, ALL COMMON AREA BRANCH CIRCUITS SHALL BE #12 AWG FOR 20A BRANCH CIRCUITS OR LESS, #10 AWG FOR 25A AND 30A BRANCH CIRCUITS, #8 AWG FOR 40A BRANCH CIRCUITS, AND #6 AWG FOR 50A BRANCH CIRCUITS. FOR EVERY 75 FEET, INCREASE WIRE SIZE TO THE NEXT AVAILABLE AMPACITY SIZE IN NEC TABLE 316, 60 DEGREE C. CONTRACTOR SHALL NOT EXCEED 3% AT THE FARTHEST OUTLET OF POWER, HEATING, AND LIGHTING LOADS OR COMBINATIONS OF SUCH LOADS, AND WHERE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET DOES NOT EXCEED 5 PERCENT. REFER TO FRONT END FAULT CALCULATIONS OF SERVICES AND FEEDERS FOR ADDITIONAL INFORMATION.

G15 PROVIDE 120V, 20 AMP, SINGLE POLE OR 208V, 1-PHASE, 20 AMP, DOUBLE POLE BRANCH CIRCUIT FOR HEAT TRACE PER PLUMBING, FIRE PROTECTION AND MANUFACTURER ACTUALLY FURNISHED. COORDINATE WITH PLUMBING PRIOR TO FINAL ROUGH-INS TO ENSURE ALL P-TRAPS, FIRE PROTECTION APPLICABLE PIPING, ETC. IS BEING PROVIDED APPROPRIATELY PER MANUFACTURER SPECIFICATIONS.

G16 JSE RECOMMENDS COORDINATING RANGE OUTLETS/EQUIPMENT WITH THE FURNISHED MANUFACTURER PRIOR TO ROUGH-IN TO HELP PREVENT NUISANCE TRIPPING PER LATEST NEC 210.8(A) GFCI KITCHEN REQUIREMENTS. CONTRACTOR COULD ALSO HARDWIRE RANGE EQUIPMENT AS PER FURNISHED MANUFACTURER REQUIREMENTS/SPECIFICATIONS.

ELECTRICAL GMP NOTES

1. THE INFORMATION CONTAINED WITHIN THESE DOCUMENTS IS GENERAL IN NATURE AND, AS SUCH, MAY NOT DESCRIBE ALL COMPONENTS OR CONDITIONS NECESSARY FOR THE COMPLETED PROJECT. BY USING THESE DOCUMENTS AS PART OF ANY EFFORT TO ESTABLISH A GUARANTEED MAXIMUM PRICE (GMP) FOR CONSTRUCTION, THE CONTRACTOR WILL INCORPORATE REASONABLE AMOUNTS AND ASSUMPTIONS IN THEIR ESTIMATE NECESSARY TO PROVIDE A COMPLETE PROJECT THAT IS CONSISTENT WITH THE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION FEATURES INDICATED IN THE DOCUMENTS AS COMPLETE AND WORKING SYSTEMS. ANY FEATURE INDICATED IN ONE DISCIPLINE IS ASSUMED TO BE INCLUDED AND INCORPORATED IN ALL AND SHOULD BE COORDINATED BETWEEN SUB-CONTRACTORS AS NECESSARY AND REQUIRED FOR FULLY FUNCTIONING SYSTEMS. SHOULD THE CONTRACTOR NOTE ANY CONFLICTING OR CONTRADICTORY INFORMATION IN THESE DOCUMENTS, THEY ARE INSTRUCTED TO NOTIFY THE ARCHITECT AND ENGINEER AS SOON AS POSSIBLE OR IDENTIFY THE ITEM AS A SEPERATE LINE ITEM AND PRICE THE MORE COSTLY OF THE DIFFERING CONDITIONS.
2. REFER TO INTERIOR DESIGNER AND LIGHTING DESIGNER (IF APPLICABLE) DOCUMENTS FOR ADDITIONAL ELECTRICAL SCOPE TO BE INCLUDED IN THE PRICING, INCLUDING BUT NOT LIMITED TO LIGHTING FIXTURE SPECIFICATIONS, DIMMING SYSTEM REQUIREMENTS, MILLWORK REQUIRING ELECTRICAL CONNECTIONS, MOTORIZED SHADES (SINGLE POINT OR INDIVIDUAL), UNDERCABINET LIGHTING, SPECIALTY LIGHTING, EXTERIOR BUILDING LIGHTING/LANDSCAPE LIGHTING (IF LIGHTING DESIGNER/CONSULTANT ON PROJECT), ETC.
3. REFER TO LANDSCAPE ARCHITECT DOCUMENTS FOR ADDITIONAL ELECTRICAL SCOPE TO BE INCLUDED IN THE PRICING, INCLUDING BUT NOT LIMITED TO ELECTRICAL PROVISIONS AT THE FIRE PIT, WATER FEATURES, IRRIGATION SYSTEM, ETC.
4. PROVIDE LIGHTING CONTROL PANELS THROUGHOUT THE PROJECT FOR CONTROL OF EXTERIOR BUILDING/SITE/LANDSCAPE LIGHTING/INTERIOR LIGHTING AS REQUIRED. PROVIDE 120V POWER PER APPROVED MANUFACTURER FOR EACH REQUIRED CONTROL PANEL, DEVICE, ETC. AS REQUIRED.
5. REFER TO AUDIO/VISUAL DESIGNER DOCUMENTS (IF APPLICABLE AT TIME OF PRICING/BIDDING) FOR ADDITIONAL ELECTRICAL SCOPE TO BE INCLUDED IN THE PRICING.
6. REFER TO FIRE ALARM SYSTEM DESIGNER DOCUMENTS FOR ADDITIONAL ELECTRICAL SCOPE TO BE INCLUDED IN THE PRICING. PROVIDE 120V CONNECTIONS TO ALL NAC PANELS.
7. PROVIDE DUCT MOUNTED SMOKE DETECTORS, INSTALLED BY DIVISION 23, WIRED BY DIVISION 26. REFER TO MECHANICAL AND FIRE SHOP DRAWINGS.
8. PROVIDE 120V CONNECTIONS TO ALL FIRE SMOKE AND SMOKE DAMPERS. DAMPERS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM AS WELL. REFER TO MECHANICAL AND FIRE SHOP DRAWINGS.
9. PROVIDE 120V, 20 AMP, SINGLE POLE BRANCH CIRCUIT FOR CO/NO2 CONTROL PANEL PER MECHANICAL.
10. COORDINATE ALL ELEVATOR REQUIREMENTS, CONTROL SPACES PER NEC, WITH THE APPROVED ELEVATOR MANUFACTURER. PROVIDE ACCORDINGLY FOR A COMPLETE AND OPERATIONAL SYSTEM(S) AS REQUIRED.
11. PROVIDE 120V, 20 AMP, SINGLE POLE BRANCH CIRCUIT FOR IRRIGATION CONTROL PANEL(S) PER IRRIGATION CONSULTANT.
12. CONTRACTOR SHALL VERIFY IF RADON MITIGATION IS REQUIRED AND WHAT KIND OF SYSTEM WITH THE RADON CONSULTANT. PROVIDE 120V POWER TO EACH PROPOSED LOCATION INDICATED BY THE RADON CONSULTANT.
13. PROVIDE THREE PHASE CONNECTIONS TO ALL TRASH COMPACTORS FOR PROJECT. VERIFY LOCATIONS AND MANUFACTURER WITH THE ARCHITECT.
14. COORDINATE ERRCs INFRASTRUCTURE, ROUTING WITH AN INTEGRATOR OR THE TELECOM CONSULTANT. PROVIDE 120V POWER CONNECTIONS AND REQUIREMENTS ACCORDINGLY FOR POTENTIAL ERRC SYSTEM INSTALLATION IF REQUIRED PER IFC 510. ALL VERTICAL PATHWAYS FOR FEEDER/RISER CABLING SHALL HAVE A 2-HOUR SURVIVABILITY PER NFPA REQUIREMENTS; TYPICAL A 2-HOUR CHASE. PROVIDE 120V POWER CONNECTION FOR MAIN CONTROL PANEL AND (1) 120V POWER CONNECTION LOCATED IN ONE OF THE ELECTRICAL OR IDF ROOMS STACKING THROUGHOUT THE BUILDING AS SYSTEM SHALL EXTEND FROM GROUND LEVEL TO TOP FLOOR/ROOF.
15. COORDINATE PARCEL PENDING EQUIPEMENT AND LOCATION(S) WITH THE ARCHITECT AND PROVIDE ACCORDINGLY PER MANUFACTURER.
16. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL INFORMATION REGARDING MANUFACTURER/MODEL # AND LOCATIONS FOR ELEVATOR SMOKE CURTAINS. PROVIDE 120V POWER PER APPROVED MANUFACTURER FOR EACH REQUIRED SMOKE CURTAIN EQUIPMENT (POWER CONNECTION) AS REQUIRED.
17. PROVIDE 120V, 20 AMP, SINGLE POLE BRANCH CIRCUIT FOR EACH BUILDING SIGNAGE PROPOSED LOCATION PER SIGNAGE MANUFACTURER, ARCHITECT, AND OWNERSHIP.
18. POOL AND WATER FEATURE INSTALLATION SHALL COMPLY WITH NEC 680. IN THE POOL EQUIPMENT ROOM, POOL CONTRACTOR SHALL PROVIDE BRANCH CIRCUITING, DISCONNECT SWITCHES, ETC. AS REQUIRED. PROVIDE GFCI PROTECTION FOR UNDERWATER LIGHTING WITHIN 100 FEET OF THE LOAD. POOL PANEL SHALL BE PROVIDED WITH (4) GFCI 20A/2P BREAKERS, (10) GFCI 20A/1P BREAKERS, (10) GFCI 20A/1P SPARE BREAKERS.

COLORADO LICENSED PROFESSIONAL ENGINEER MARK N. BIGBEE 41442
10/18/24

JSE Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

MEEKS PARTNERS
16000 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

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GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

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BUILDING DECORATIVE LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER CATALOG NO.	LUMINAIRE WATTS	NOTES
L-1	DOWNLIGHT	GOTHAM INCITO 4" RECESSED	10W LED	-
L-2	WALL WASH	GOTHAM INCITO 2" RECESSED	5W LED	-
L-3/BE/BCE	FLUSH MOUNT	HALO SMD6 ROUND	15W LED	TYPE 'BCE': PROVIDE 90 MINUTE BATTERY BACKUP
L-4	TAPE LIGHT	WAC INVISILED PRO 2	3W/FT	-
L-5	LINEAR COVE	ACUITY APR LINEAR	10W LED	-
L-6	CUSTOM CHANDELIER	TOP BRASS CUSTOM CHANDELIER	50W LED	-
L-7	SCONCE	VISUAL COMFORT KEAN 28"	27W LED	-
L-8	FLUSH MOUNT	ANTHROPOLOGIE MADELYN CAPIZ FACETED FLUSH MOUNT	12W LED	-
L-9	PENDANT	KUZCO BIJOU PD530341	20W LED	-
L-10	WALL SCONCE	JUNIPER THIN SUFRACE MOUNT WALL SCONCE	9.6W LED	-
L-11	TRACK LIGHT	FLOS ZERO TRACK	11W LED	-
L-12	SCONCE	ALLED MAKER BASTION SCONCE LONG	7W LED	-
L-13	FLUSH MOUNT	VISUAL COMFORT SARNEN SMALL FLUSH MOUNT	14.5W LED	-
L-14	SCONCE	VISUAL COMFORT CHARLTON MEDIUM DOUBLE LIGHT	24W LED	-
L-15	SCONCE	IN COMMON WITH ARUNDEL MUSHROOM SURFACE MOUNT	5W LED	-
L-16A/B/C	PENDANT	KUZCO CUMULUS 36/30/24	95/78/40W LED	-
L-17	FLUSH MOUNT	HUDSON VALLEY TAFT SINGLE LIGHT	3.2W LED	-
L-18	PENDANT	VISUAL COMFORT OCTAVIA MEDIUM CHANDELIER	120W LED	-
L-19	SCONCE	VISUAL COMFORT CLARKSON MEDIUM NARROW SCONCE	24W LED	-
L-20	FLUSH MOUNT	VISUAL COMFORT PRECISION SMALL SQUARE FLUSH MOUNT	5W LED	-
L-21	CHANDELIER	TECH LIGHTING SPECTIA CHANDELIER	43W LED	-
L-22	SCONCE	KUZCO ALORA ALONSO WV320108UB	6W LED	-
L-23	SCONCE	MITZI DONA SCONCE	8W LED	-
L-24	SCONCE	MITZI BRANDI	16W LED	-
L-25	LED PANEL	LUMIINII MATRIX PLUS	4W LED	-
L-26	INTEGRATED LAMP	SCOTT LAMP CUSTOM INTEGRATED LAMP	-	-
L-27/BU	SCONCE	SCOTT LAMP CUSTOM SCONCE	LED 2W	-

NOTE: REFERENCE INTERIOR DESIGN SHEETS FOR ADDITIONAL INFORMATION ON FINISHES.

BUILDING LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER CATALOG NO.	LUMINAIRE WATTS	NOTES
BC/BCE L-3/L-3A	DOWNLIGHT	HALO SMD6 ROUND	LED 12W	TYPE 'BCE': PROVIDE 90 MINUTE BATTERY BACKUP
BE	WALL SCONCE	EELP DEM-LED-*-ACEM-PC	LED 12 W	MOUNTING HEIGHT = 8'
BH/BHE	STRIP LIGHT	ILP SS4-4L-U-40-FRL	LED 33 W	TYPE 'BHE': PROVIDE 90 MINUTE BATTERY BACKUP
BSE	WALL STRIP	ILP CV4-4L-U-40-FRAL-WHP-EM10-(CONTROLS)	LED 27W	PROVIDE 90 MINUTE BATTERY BACKUP
BU/L-27	SCONCE	SCOTT LAMP CUSTOM SCONCE	LED 2W	--
BX/BXE	EXIT SIGN	EELP XE2GW-EM	LED <5W	PROVIDE 90 MINUTE BATTERY BACKUP. SIGN MUST SHOW GREEN LETTERING
BPE	VAPOR TIGHT STRIP LIGHT	ILP VVT4-5L-U-40-FRL-EM10	LED 38W	PROVIDE 90 MINUTE BATTERY BACKUP
G1/G1E	DOWNLIGHT	ILP UFO-28W LED-UNIV-31	LED 28W	PROVIDE 90 MINUTE BATTERY BACKUP

DWELLING UNIT LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER CATALOG NO.	LUMINAIRE WATTS	NOTES
UB	WALL SCONCE	Performance in Lighting Mimik 10 Flat M - 071495-(FINISH)	LED 5W	--
UC	UNDERCABINET STRIP	Luminii EL-120V-(LENGTH)-30K-D	LED 4W/FT	--
UF	CEILING FAN	VersaLED CGF21-16L-120V-30K-BB	LED 16 W	--
UG	STRIP LIGHT	SLG DS-7R-10-G1-UNV-930K	LED 33 W	--
UP	WALL STRIP	Hinkley 3407BK	LED 14W MAX	PROVIDE WITH LED RETROFIT LAMP
UV	SCONCE	Luminii CLSW-(LENGTH)-HE48HO-30K-F-(FINISH)	LED 6.5W/FT	--

SITE/EXTERIOR LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER CATALOG NO.	LUMINAIRE WATTS	LIGHT LOSS FACTOR	QUANTITY	NOTES
SA	WALL SCONCE	PIL #MIMIK-10-FLAT-M-830_071491	LED 5W	0.9	29	MOUNTING HEIGHT = 8'
SB	DOWNLIGHT	SIGNIFY LIGHTOLIER #P3RDL05935CCZ10U	LED 7.1W	0.9	3	MOUNTING HEIGHT = 8'
SC	UFO DOWNLIGHT	ILP #UFO-28WLED-UNIV-40	LED 27.7W	0.9	1	MOUNTING HEIGHT = 10'
SD	WALL SCONCE	GARDCO #GBM-A09-840-T4M	LED 38.7W	0.9	0.9	MOUNTING HEIGHT = 15'
LI-101	FESTOON	PRIMUS DECOSTRING OR EQUIVALENT	1W/LAMP	0.9	REF LANDSCAPING	12' POLE REF LANDSCAPING FOR POLE SPECIFICATION
LI-103	STRIP LIGHT	ELECTRIX L142W	6W/FT	0.9	REF LANDSCAPING	REF LANDSCAPING FOR ROUTING

LIGHT FIXTURE SCHEDULE NOTES

1. FINAL APPROVAL OF ALL LIGHT FIXTURES TO BE BY THE ARCHITECT AND OWNER DURING SUBMITTAL PHASE AND PRIOR TO ANY ORDERING, PURCHASEOR INSTALLATION OF LIGHT FIXTURES.
2. PRICING FOR LIGHTING FIXTURES SHALL BE SEPERATE FROM PRICING FOR LIGHTING CONTROLS (OCCUPANCY SENSORS, RELAY CONTROLS, DIMMING,ETC.)
3. ALL FIXTURES SHALL BE UL LISTED.
4. FIXTURE COLORS, FINISHES, OPTIONS, ACCESSORIES, ETC. AS DIRECTED BY ARCHITECT.
5. ALL LIGHTING FIXTURES MAY NOT NECESSARILY BE USED.
6. ALL OUTDOOR EMERGENCY FIXTURES SHALL BE DAMP AND/OR WET LOCATION LISTED (AS APPLICABLE TO INSTALLATION) AND SHALL BE PROVIDEDWITH 0°F, COLD WEATHER BALLASTS AND DRIVERS (FLUORESCENT, HID, AND LED FIXTURES).
7. PROVIDE ALL NECESSARY HARDWARE AND ACCESSORIES REQUIRED TO MAINTAIN THE FIRE RATING AND/OR FIREPROOF INTEGRITY OF CEILINGS,WALLS, SURFACES, ETC. TO/ONIN WHICH FIXTURES ARE INSTALLED.
8. UNDER CABINET AND COVE FIXTURE LENGTHS TO BE PROVIDED TO RUN THE LENGTH OF REQUIRED SPACE WITH MAXIMUM NUMBER OF FIXTURES.
9. ALL EXTERIOR AND SITE/LANDSCAPE LIGHTING MUST ADHERE TO ALL LOCAL LIGHTING ORDINANCES AND REQUIREMENTS. PROVIDE SHIELDING, GLARE CONTROL, HARDWARE OPTIONS AND ACCESSORIES AS NECESSARY TO COMPLY.
10. LIGHTING FIXTURES SHOWN WITH SOLID OR CROSS-HATCHED CENTER SHALL BE SAME AS OTHER LIGHTING FIXTURES ADJACENT/SIMILAR EXCEPT WITH90-MINUTE BATTERYBALLAST FOR EMERGENCY EGRESS LIGHTING.
11. FOR EMERGENCY EGRESS/EXIT LIGHTING, ANY SUBSTITUTIONS MUST BE ACCOMPANIED BY FULL PHOTOMETRIC PLANS BY THE LIGHTING MANUFACTURER OR VENDOR DEMONSTRATING COMPLIANCE WITH NFPA 101 LIFE SAFETY CODE FOR MINIMUM REQUIRED EMERGENCY EGRESSLIGHTING LEVELS.
12. REFER TO ARCHITECTURAL PLANS, ELEVATIONS, AND DETAILS FOR EXACT LOCATION, QUANTITY, AND MOUNTING HEIGHT OF BUILDING-MOUNTEDLIGHTING FIXTURES; AS WELL AS FINAL FIXTURE SPECIFICATION, COLORS, OPTIONS, ACCESSORIES, ETC.
13. REFER TO INTERIOR PLANS,ELEVATIONS, AND DETAILS FOR EXACT LOCATION,QUANTITY, AND MOUNTING HEIGHT OF INTERIOR DECORATIVE LIGHTINGFIXTURES; AS WELL AS FINAL FIXTURE SPECIFICATION, COLORS, OPTIONS, ACCESSORIES, ETC.
14. CONTRACTOR SHALL PROVIDE AIRTIGHT/IC RATED HOUSING FOR EACH LIGHT FIXTURE WHEN EQUIPMENT THROUGH PENETRATIONS AND MEMBRANE PENETRATIONS OF HORIZONTAL ASSEMBLIES AND FIRE-RESISTANT-RATED WALL ASSEMBLIES PER IBC SECTION 714. CONTRACTOR CAN PROVIDE RATED 'PRE-FAB' HATS BY TENMAT IN WHICH A LIGHT FIXTURE DOES NOT HAVE THE OPTION TO PROVIDE AIRTIGHT/IC RATED HOUSING.
15. ALL LIGHT FIXTURES SHALL HAVE THE SAME COLOR TEMPERATURE, UNLESS NOTED OR APPROVED OTHERWISE. VERIFY FINAL LIGHT FIXTURE SELECTIONS WITH THE TEAM AND OWNER PRIOR TO ORDERING ALL LIGHT FIXTURES SELECTIONS FOR PROJECT.
16. CONTRACTOR SHALL COORDINATE ALL REQUIRED LOW VOLTAGE TRANSFORMERS PER FIELD INSTALLATION WITH THE MANUFACTURER, INTERIORDESIGNER, AND LANDSCAPE ARCHITECT (EXTERIOR FIXTURES).
17. LIGHTING DESIGN IS BASED UPON THE SPECIFIED PRODUCT. APPROVED ALTERNATE MANUFACTURER ARE LISTED. ALTERNATE FIXTURES SHALL BE OFSIMILIAR QUALITY TO THAT SPECIFIED. CONTRACTOR SHALL BE RESPOSIBLE FOR MEETING STATED ILLUMINANCE CRITERIA (I.E. PHOTOMETRIC) WITHALTERNATE FIXTURES.
18. LIGHTING SELECTION TO BE FINALIZED AND COORDINATED WITH ALL LIGHTING CONSULTANTS AND INTERIOR DESIGNERS.
19. LIGHTING IS TO BE SOLE SOURCED THROUGH VISUAL INTEREST. PLEASE SEND ALL BIDS TO:
    - JORDAN MANAHAN
    - JORDAN@VISUALINTEREST.COM
20. CONTRACTOR SHALL PROVIDE MAX WATTAGE LABELS ON APPLICABLE FIXTURES.

COLORADO LICENSED
MARK W. BINGHAM
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/29/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
1600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
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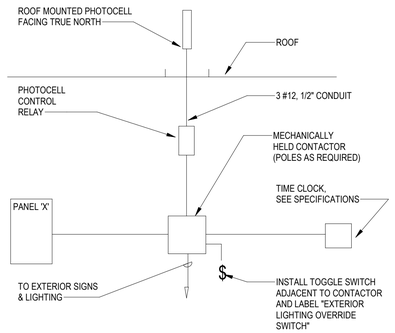
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Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

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2 EXTERIOR LIGHTING CONTROL

Scale: NTS

LIGHTING CONTROL MATRIX - FOR REFERENCE, EXAMPLE ONLY

ROOM/SPACE	QUANTITY OF ZONES	QUANTITY OF WALL CONTROLS	PLUG LOAD CONTROL	ZONE DESIGNATION	SENSOR CONTROLS						NOTES
					DAYLIGHT	OCCUPANCY	VACANCY	SCENE CONTROL	DIMMING / ON/OFF	ON/OFF ONLY	
RM201	3	3	X	ZONE a		X		X	X		PROVIDE A 4 BUTTON SCENE CONTROLLER COORDINATE SCENE REQUIREMENTS WITH OWNER
				ZONE b		X		X	X		
				ZONE c		X		X		X	
RM202	2	2	X	ZONE a	X	X			X		
				ZONE b		X			X		
RM203	5	4		ZONE a		X			X		
				ZONE b		X			X		
				ZONE c		X			X		
				ZONE d		X			X		
				ZONE e		X			X		
RM202	2	2	X	ZONE a		X			X		
RM202	2	2	X	ZONE a		X			X		
RM202	2	2	X	ZONE a		X			X		
				ZONE b		X			X		

NOTE 1: SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DIMMING REQUIREMENTS

NOTE 2: REFER TO DASHED AREA ON FLOOR PLAN FOR FIXTURES TO BE CONTROLLED BY DAYLIGHT SENSOR(S).

GENERAL NOTES:

1. CONTRACTOR TO PROVIDE AN UNSWITCHED HOT CONDUCTOR FROM THE CIRCUIT SERVING THE LIGHTING FIXTURE TO LIGHTING INVERTER.
1. CONTRACTOR TO PROVIDE AN UNSWITCHED HOT CONDUCTOR FROM THE NORMAL CIRCUIT WITHIN THE SPACE CONNECTED TO THE UL924 TRANSFER DEVICE FOR SENSING NORMAL POWER LOSS.
2. MULTIPLE VOLTAGES MAY EXIST WITHIN THE SPACE. CONTRACTOR TO REFER TO THE PANEL SCHEDULES FOR VOLTAGE INFORMATION.

1 LIGHTING CONTROL MATRIX

Scale: NTS

LIGHTING CONTROLS - 2021 IECC

1. INTERIOR LIGHTING CONTROLS SHALL ADHERE TO IECC C405.2. -C405.2.5, UNLESS NOTED OTHERWISE:
   - A. ALL CORRIDOR LIGHTING SHALL BE FULLY ON 24 HOURS, 7 DAYS A WEEK, UNO. LIGHTING IS DESIGNATED TO BE CONTINUOUSLY LIGHTED PER EXCEPTION NO. 1 UNDER C405.2. NO MANUAL CONTROL IS REQUIRED PER EXCEPTIONS.
   - B. ALL INTERIOR EXIT STAIRWAYS SHALL BE FULLY ON 24 HOURS, 7 DAYS A WEEK PER EXCEPTION NO. 3 UNDER C405.2. NO MANUAL CONTROL IS REQUIRED PER EXCEPTIONS.
   - C. C405.2.1.1 -PROVIDE OCCUPANT SENSOR CONTROLS FOR SPACE TYPES LISTED UNDER C405.2.1. EACH DEFINED SPACE LISTED UNDER C405.2.1 SHALL HAVE OCCUPANT CONTROLS AS SHOWN ON THE PLANS AND PER C405.2.1.1:
     - a. AUTOMATICALLY TURN OFF LIGHTS WITH 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE.
     - b. SHALL BE MANUAL ON OR CONTROLLED TO AUTOMATICALLY TURN ON THE LIGHTING TO NOT MORE THAN 50%POWER, UNO (I.E. RESTROOMS).
     - c. SHALL INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN OFF LIGHTS.
   - D. C405.2.2 -EACH AREA OF THE BUILDING THAT IS NOT PROVIDED WITH OCCUPANT SENSOR CONTROLS COMPLYING WITH C405.2.1.1 OR LISTED ABOVE UNDER 1.A AND 1.B SHALL BE PROVIDED WITH TIME-SWITCH CONTROLS AND MANUAL CONTROL COMPLYING WITH C405.2.2.1 AND C405.2.2.2.
   - E. DAYLIGHTING HARVESTING SHALL ADHERE TO IECC C405.2.3. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
     - a. WHERE DAYLIGHT IS REQUIRED, DAYLIGHT RESPONSIVE CONTROLS SHALL BE PROVIDED WITH EACH SAPCE FOR CONTROL OF LIGHTS IN THAT SPACE AND SHALL COMPLY WITH THE REQUIREMENTS LISTED UNDER C405.2.3.1.
   - F. SPECIFIC APPLICATION CONTROLS LISTED UNDER C405.2.4 SHALL BE CONTROLLED BY AN OCCUPANT SENSOR COMPLYING WITH SECTION C405.2.1 OR A TIME-SWITCH COMPLYING WITH SECTION C405.2.2.1. IN ADDITION, MANUALCONTROL SHALL BE PROVIDED TO CONTROL SUCH LIGHT SEPARATELY FROM THE GENERAL LIGHTING IN THE SPACE:
   - G. DWELLING UNITS WITHIN MULTIFAMILY BUILDINGS SHALL COMPLY WITH SECTION R404.1. THIS SECTION STATES THAT NOT LESS THAN 100 PERCENT OF THE PERMANENTLY INSTALLED FIXTURES SHALL CONTAIN ONLY HIGH-EFFICACY LAMPS.
   - H. ALL MANUAL CONTROLS SHALL BE INSTALLED PER C405.2.5:
     - a. SHALL BE IN A LOCATION WITH READY ACCESS TO OCCUPANTS.
     - b. SHALL BE LOCAOTED WHERE THE CONTROLLED LIGHTS ARE VISIBLE, OR SHALL IDENTIFY THE AREA SERVED BY THE LIGHTS AND INDICATE THEIR STATUS.
2. EXTERIOR LIGHTING CONTROLS SHALL ADHERE TO IECC C405.2.6:
   - A. PROVIDE PHOTOCELL DEVICE(S) IN ACCORDANCE WITH C405.2.6.1 REQUIRING ALL EXTERIOR LIGHTS TO BE AUTOMATICALLY TURNED OFF WHEN DAYLIGHT IS PRESENT AND SATISFIES THE LIGHTING NEEDS.
   - B. C405.2.6.2 -EXTERIOR LIGHTING CONTROLS REGARDING ANY BUILDING FACADE AND LANDSCAPE LIGHTING SHALL AUTOMATICALLY SHUT OFF FROM NOT LATER THAN 1 HOUR AFTER BUSINESS CLOSING TO NOT EARLIER THAN 1 HOUR BEFORE BUSINESS OPENING.
   - C. C405.2.6.3 -WHERE LIGHTS NOT COVERED IN ITEM (B), ANY OF THE BUILDING FACADE AND LANDSCAPE LIGHTING SHALL HAVE CONTROLS CONFIGURED TO AUTOMATICALLY REDUCE THE CONNECTED LIGHTING POWER BY NOT LESS THAN 30 PERCENT FROM NOT LATER THAN MIDNIGHT TO 6 A.M.; FROM ONE HOUR AFTER BUSINESS CLOSING TO NOT EARLIER THAN ONE HOUR BEFORE BUSINESS OPENING; AND DURING ANY TIME WHEN ACTIVITY HAS NOT BEEN DETECTED FOR A TIME OF LONGER THAN 15 MINUTES OR MORE.
   - D. TIME SWITCH CONTROLS FOR EXTERIOR LIGHTING SHALL COMPLY WITH C405.2.6.4:
     - a. CLOCK CAPABLE OF BEING PROGRAMMED FOR NOT FEWER THAN 7 DAYS.
     - b. CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY TYPES PER WEEK.
     - c. SHALL INCORPORATE AN AUTOMATIC HOLIDAY SETBACK FEATURE.
     - d. SHALL HAVE PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS FOR A PERIOD NOT LESS THAN 10 HOURS IN THE EVENT THATT POWER IS INTERRUPTED.
3. PROVIDE UL924 RELAY(S) FOR EMERGENCY FIXTURES ON SAME SWITCHES IN ACCORDANCE WITH NEC AND NFPA REQUIREMENTS. LOCATION OF DEVICE SHALL BE COORDINATED WITH THE ARCHITECT. REFER TO JSE SPECIFICATIONS FOR ADDITIONALINFORMATION.
4. REFER TO '2021 IECC WITH 2022 DBCA. LATEST ADPOTED AMENDMENTS LIGHTING CONTROL REQUIREMENTS' ON THIS SHEET FOR ADDITIONAL INFORMATION.

LIGHTING CONTROL REQUIREMENTS

		Atrium	Classroom, Lecture Hall, Training Room	Conference, Break Room	Corridor[1]	Lobby	Open Office (>300 sq. ft.)	Parking Garage[3]	Private Office (<300 sq. ft.)	Restroom	Stairwell[2]	Storage Room	Façade/ Landscape	Parking Lot/ Other Exterior	Dwelling Units[4]	Guestrooms[5]
Manual Control	Switch		X	X					X	X		X			X	X
	Dimmer or scene control	X			X	X	X				X				X	
Automatic ON/OFF Control	Timeclock	X											X	X	N/A	
	Occupancy sensor		X	X	X	X	X	X	X	X	X	X			N/A	X
Settings	Full ON				X	X		X		X	X		X	X	N/A	
	Partial ON	X					X	X					X	X	N/A	
	Manual ON		X	X					X			X			N/A	X
	Full OFF	X	X	X		X	X	X	X	X		X	X	X	N/A	X
	Partial OFF				X		X	X			X		X	X	N/A	
Other	Daylight responsive control	X	X	X	X	X	X	X	X	X	X	X	X	X	N/A	
	Receptacle control		X	X			X		X						N/A	X
	Demand response														N/A	

Notes:
1 Only normal lighting to be controlled in corridors. All emergency egress lighting to remain on 100% of the time.
2 Lighting shall be automatically reduced by 50% of maximum lighting power through dimming each fixture.
3 Astronomical timeclock shall ensure all lights are off during daylight hours. Lights should be scheduled to Partial OFF during night hours. Lighting shall be automatically reduced by 30% of maximum lighting power for night hours except at entrances and exits.
4 Automatic lighting controls are not applicable to dwelling units. Manual control of all lighting will be by either toggle or dimmer switch.
5 Hotel and motel sleeping units and guest suites shall have a master control device that is capable of automatically switching off all installed luminaires and switchedreceptacles within 20 minutes after all occupants leave the room.
6 Switched emergency lighting shall be connected with a UL924 bypass relay.

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

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10/18/24

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281.558.8787

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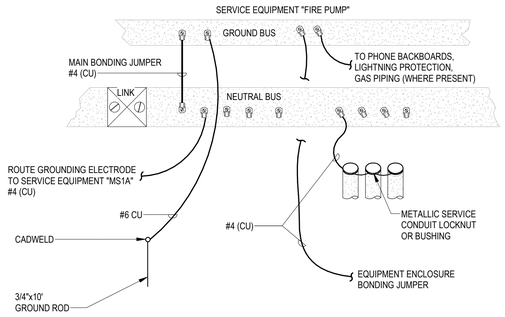
LIGHTING CONTROLS

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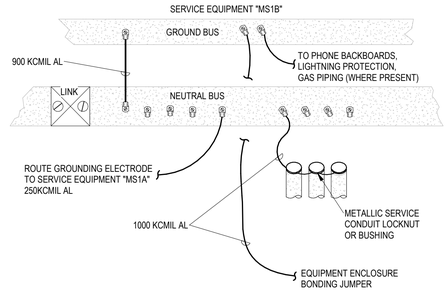
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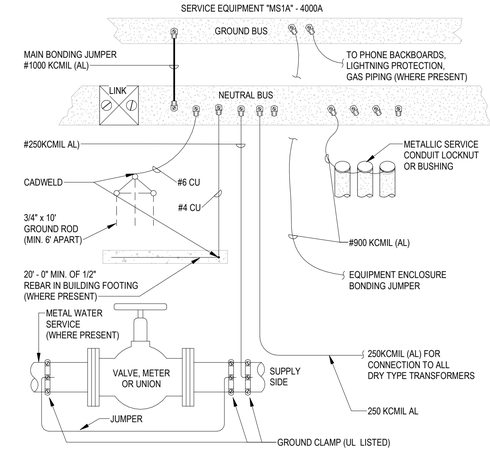
5 SERVICE GROUNDING AND BONDING - FP-1

Scale: NTS



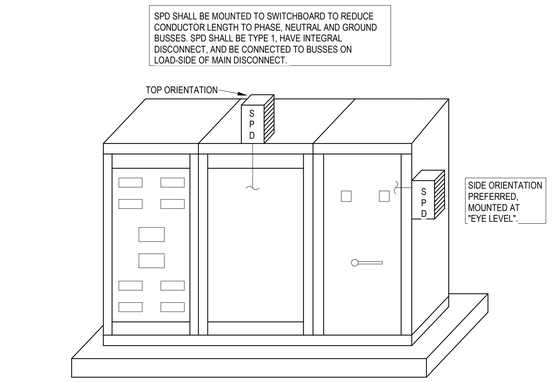
2 SERVICE GROUNDING AND BONDING - MS1B

Scale: NTS



1 SERVICE GROUNDING AND BONDING - MS1A

Scale: NTS



4 SPD MOUNTED TO SWITCHBOARD

Scale: NTS

3 GROUNDED BUS BAR

Scale: NTS

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

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MEEKS PARTNERS
16000 Memorial Drive
Suite 270
Houston, Texas 77079
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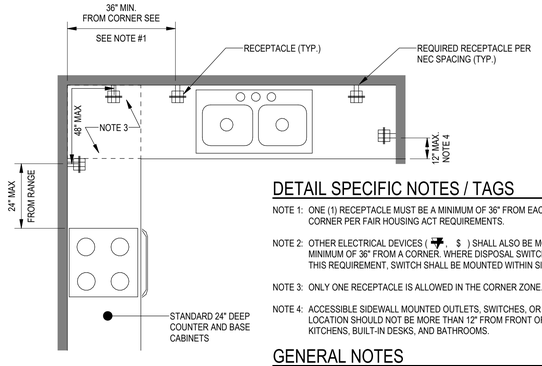
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DETAIL SPECIFIC NOTES / TAGS

NOTE 1: ONE (1) RECEPTACLE MUST BE A MINIMUM OF 36" FROM EACH INSIDE CORNER PER FAIR HOUSING ACT REQUIREMENTS.

NOTE 2: OTHER ELECTRICAL DEVICES (, $) SHALL ALSO BE MOUNTED A MINIMUM OF 36" FROM A CORNER. WHERE DISPOSAL SWITCH CANNOT MEET THIS REQUIREMENT, SWITCH SHALL BE MOUNTED WITHIN SINK BASE CABINET.

NOTE 3: ONLY ONE RECEPTACLE IS ALLOWED IN THE CORNER ZONE.

NOTE 4: ACCESSIBLE SIDEWALL MOUNTED OUTLETS, SWITCHES, OR OTHER DEVICES. LOCATION SHOULD NOT BE MORE THAN 12" FROM FRONT OF COUNTER, IN KITCHENS, BUILT-IN DESKS, AND BATHROOMS.

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE OUTLET EXTENDER BOX(ES) ACCORDINGLY FOR RECEPTACLES IF REQUIRED TO HELP MAINTAIN ACCESSIBLE REACH RANGES PER ACTUAL FINAL COUNTER/CABINET FIELD INSTALLATIONS. COUNTER DEPTHS FOR TYPE A UNITS ARE ALLOWED 24" MAX PER ANSI A117.1 (SECTION 308/309). TYPE B. OTHER UNITS ARE ALLOWED 25-1/2" ALLOWED PER ANSI A117.1 (1104.9, EXCEPTION 11). MANUFACTURER SHALL BE LEVITON OR APPROVED EQUAL. VERIFY FINISH WITH THE ARCHITECT PRIOR TO ORDERING AND ROUGH-IN.
2. PNEUMATIC SWITCH SHALL COMPLY WITH ANSI A117.1 (309.4 IF INSTALLED PER FINAL DIRECITON/INSTALLATIONS.

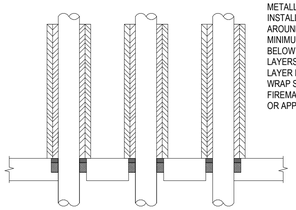
3 ELECTRICAL DEVICES DWELLING UNIT KITCHEN, COUNTERS, ETC.

Scale: NTS



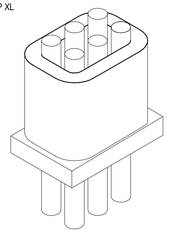
PLAN VIEW - CONDUIT WRAP

PLAN VIEW - GROUPED CONDUIT WRAP



SECTION VIEW - CONDUIT WRAP

WHERE DISTANCE BETWEEN METALLIC CONDUIT IS 4" OR LESS, INSTALL FIRE PROTECTIVE WRAP AROUND CONDUIT GROUP TO A MINIMUM DISTANCE OF 48" ABOVE OR BELOW THE FLOOR ASSEMBLY. USE 2 LAYERS FOR 2-HOUR RATED FLOOR. 1 LAYER FOR 1-HOUR RATED FLOOR. WRAP SHALL BE THERMAL CERAMICS FIREMASTER FASTWRAP XL OR APPROVED EQUAL.



SECTION VIEW - GROUPED CONDUIT WRAP

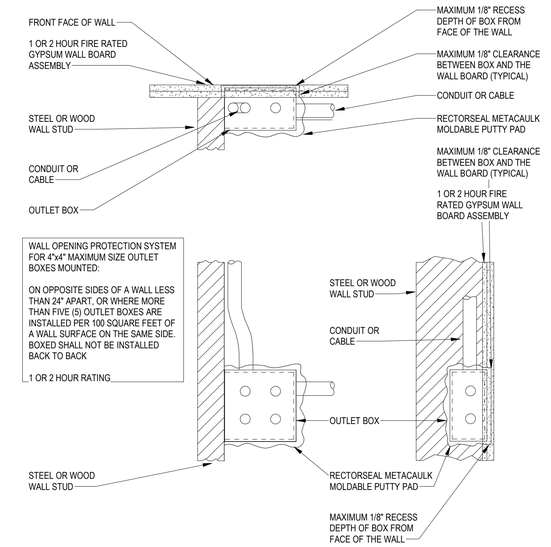
NOTES:

PENETRATIONS OF RATED FLOOR ASSEMBLIES SHALL MEET IBC REQUIRMENTS FOR F AND T RATINGS. T-RATING ARE NOT REQUIRED FOR PENETRANTS CONCEALED WITHIN A WALL CAVITY

THIS DRAWING INDICATES PROPOSED METHOD(S) FOR T-RATING EXPOSED METALLIC PENETRANTS, BUT ONLY WHERE THE ROOM (OR AREA) ABOVE OR BELOW THE FLOOR DOES NOT HAVE WALLS AND CEILING WITH AN F- RATING THAT MEETS OR EXCEEDS THAT OF THE FLOOR. LISTED FIRESTOPPING MATERIALS SHALL BE USED TO SATISFY F-RATING REQUIREMNTS.

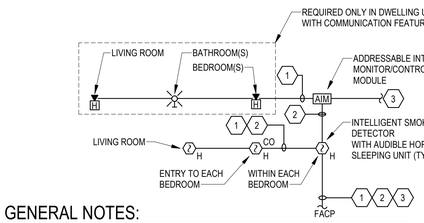
2 T-RATINGS OF METALLIC PENETRANTS

SCALE: NTS



1 WALL OPENING PROTECTION

Scale: NTS



GENERAL NOTES:

G-1 STROBE DEVICES SHALL OPERATE UPON ACTIVATION OF LOCAL SMOKE DETECTOR AND/OR FIRE ALARM SYSTEM.

G-2 SMOKE DETECTOR HORN SHALL OPERATE UPON DETECTION OF SMOKE OR UPON ACTIVATION OF FIRE ALARM SYSTEM. FOR VOICE EVACUATION SYSTEMS, SMOKE DETECTOR HORN SHALL NOT SOUND UNDER GENERAL ALARM CONDITION.

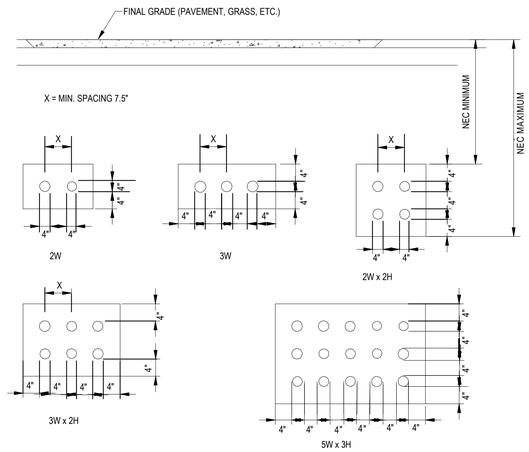
G-3 ACTIVATION OF LOCAL SMOKE DETECTOR SHALL REPORT TO FIRE ALARM SYSTEM AS A SUPERVISORY ALARM ONLY.

KEYNOTES:

1. 2-CONDUCTOR, 14 AWG SOLID VISUAL/SIGNAL CIRCUIT.
2. 1-PAIR, 18 AWG TWISTED SHIELDED MAPNET SLC
3. 24VDC POWER FROM FACP OR NAC POWER SUPPLY.

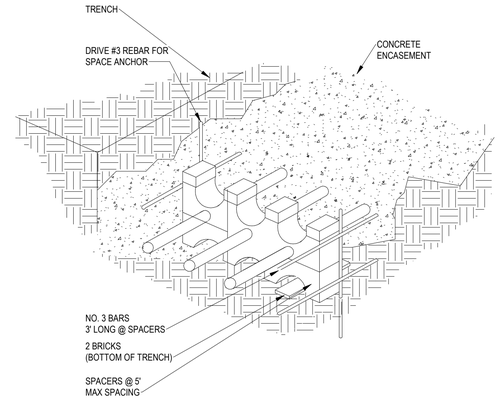
6 SLEEPING UNIT - SMOKE AND FIRE ALARM

Scale: NTS



5 TYPICAL DUCT BANK

Scale: NTS



4 TYP DUCT BANK CONDUIT SUPPORT

Scale: NTS

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555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

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16000 Memorial Drive
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281.558.8787

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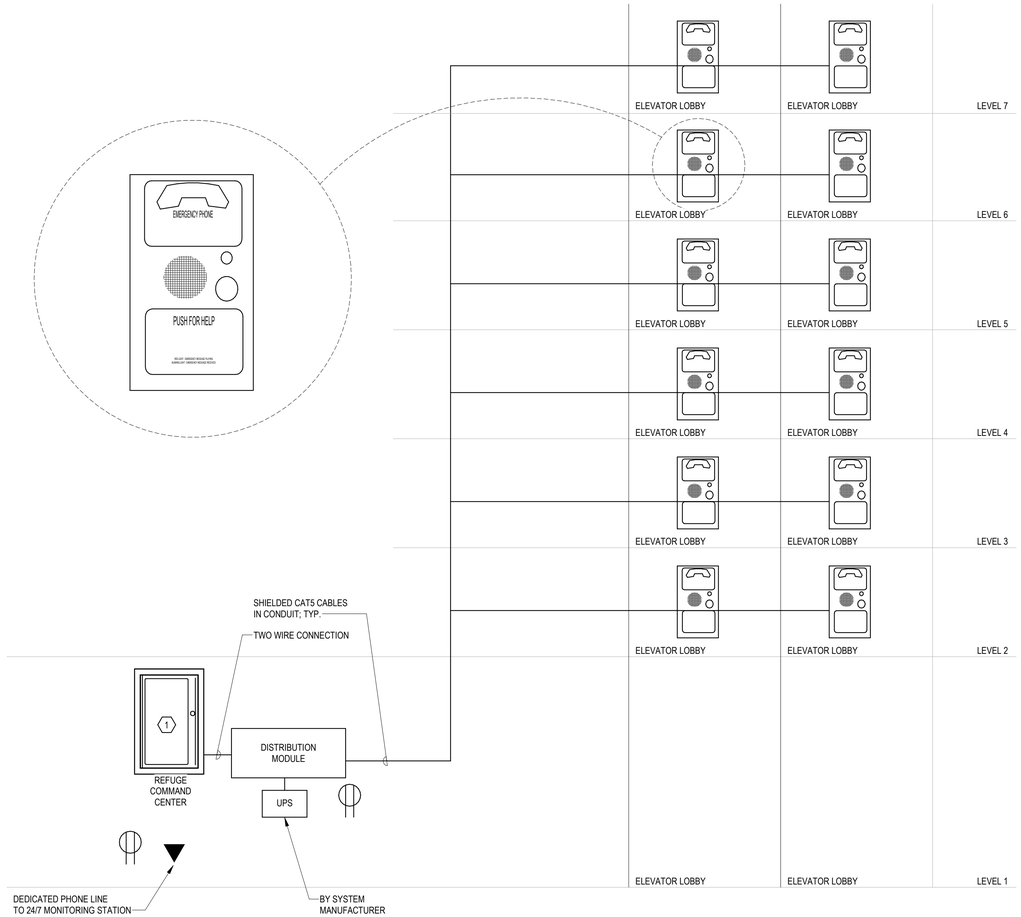
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KEY NOTES: DESIGNATED BY * ⁀ *

1. REFER TO THE FLOOR PLANS FOR LOCATION OF REFUGE COMMAND CENTER. FINAL LOCATION TO BE COORDINATED WITH THE LOCAL AHJ/FIRE MARSHAL.

GENERAL NOTES:

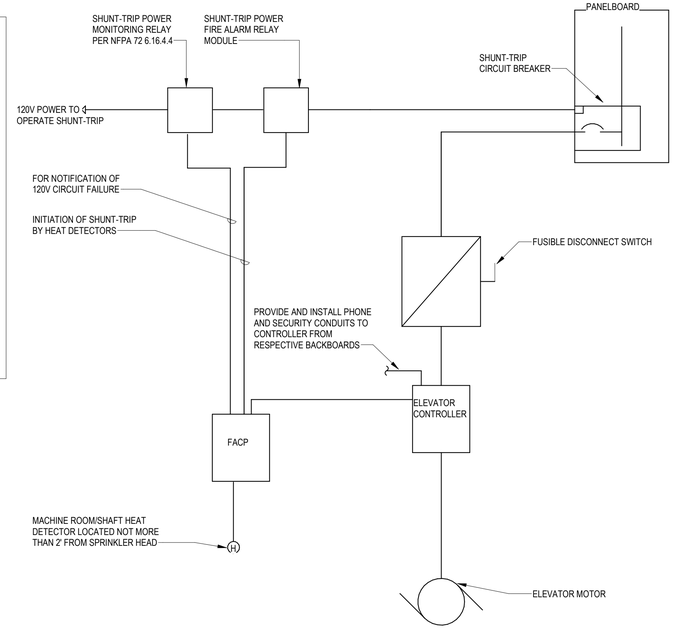
1. TWO-WAY COMMUNICATION SYSTEM CALL BOX SHALL BE PROVIDED AT ALL ELEVATOR LANDINGS ON EACH ACCESSIBLE FLOOR THAT IS ONE OR MORE STORIES ABOVE OR BELOW THE LEVEL OF EXIT DISCHARGE AS REQUIRED IN IBC CHAPTER 10. BASE STATION TO CONNECT TO ALL CALL BOXES REQUIRED FOR A COMPLETE SYSTEM.

2 TWO WAY COMMUNICATION

Scale: NTS

NOTES:

1. ELEVATOR CIRCUIT BREAKER(S) SHALL INCLUDE 120V SHUNT-TRIP COIL, NEMA 1 ENCLOSURE. POWER TO SHUNT TRIP BREAKER SHALL BE MONITORED BY THE FIRE ALARM SYSTEM
2. ALL CONTACTS SHALL BE ELECTRICALLY OPERATED, MECHANICALLY HELD
3. SHUNT-TRIP BREAKER SHALL BE CONTROLLED BY HEAT DETECTOR IN ELEVATOR EQUIPMENT ROOM AND IN ELEVATOR SHAFT. UPON ACTIVATION OF THE HEAT DETECTOR, THERE SHALL BE A TIME DELAY EQUAL TO THE TIME OF THE LONGEST ELEVATOR TRAVEL DISTANCE BEFORE OPERATION OF THE SHUNT -TRIP CIRCUIT BREAKER.
4. SEE ELECTRICAL RISER DIAGRAM AND ELECTRICAL FLOOR PLANS FOR WIRE, DISCONNECT, AND BREAKER SIZES.
5. ELEVATOR RECALL SYSTEM SHALL BE ACTIVATED BY SMOKE DETECTORS IN ELEVATOR LOBBIES, ELEVATOR SHAFTS, AND THE ELEVATOR EQUIPMENT ROOM.
6. ALL WIRING INDICATED SHALL BE BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
7. AUXILIARY CONTACT FOR BATTERY LOWERING DEVICE PER NEC 620.91(C) IS REQUIRED TO PREVENT BATTERY-POWERED LOWERING DURING MAINTENANCE.
8. ALL RELAYS SHALL BE LOCATED WITHIN 3 FEET OF THEIR RESPECTIVE CIRCUIT BREAKER PER NFPA 72 6.15.2.2.



1 ELEVATOR WIRING DIAGRAM (WITH SHUNT TRIP BREAKER)

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p. 303.586.2375

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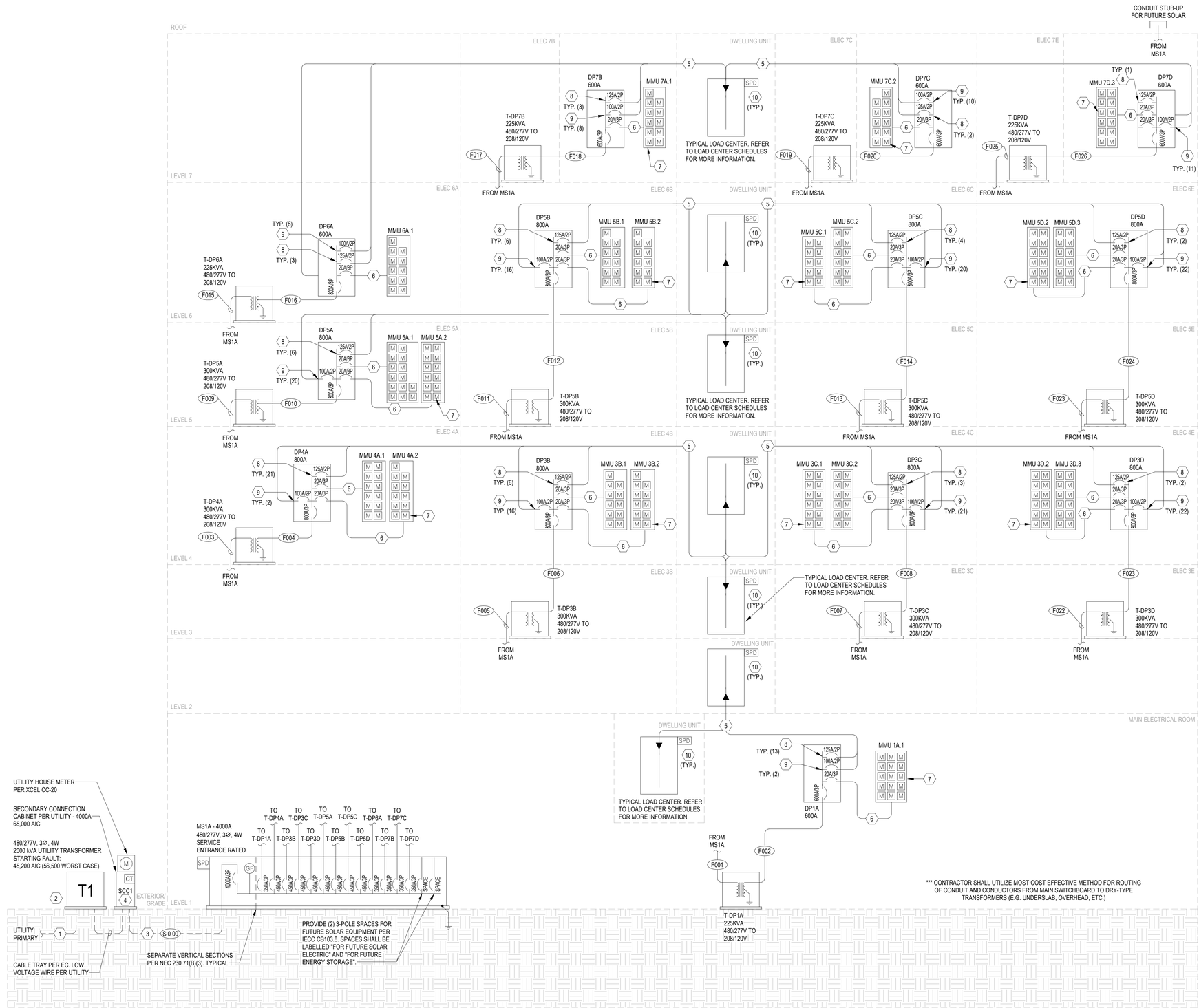
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ONE LINE DIAGRAM - GENERAL NOTES

1. SERVICE ENTRANCE EQUIPMENT MUST BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES, LOCAL AMENDMENTS, AND UTILITY STANDARDS AND GUIDELINES. PROVIDE ALL EQUIPMENT, IDENTIFICATION, RATINGS, ETC. AS REQUIRED BY GOVERNING DOCUMENTS AND CODES. REFERNCE UTILITY STANDARDS AND GUIDELINES AND COORDINATE ALL REQUIREMENTS WITH UTILITY PRIOR TO BEGINNING WORK.
2. EACH ELECTRICAL SERVICE LOCATION MUST BE CLEARLY LABELED, IDENTIFIED, AND SHALL INCLUDE A PERMANENT ENGRAVED PLASTIC LAMINATE SIGN/MAP SHOWING THE LOCTAION OF ALL OTHER ELECTRICAL SERVICES SERVING THAT BUILDING. COORDINATE EXACT REQUIREMENTS WITH LOCAL BUILDING AND FIRE OFFICIALS AND PROVIDE ACCORDINGLY.
3. ELECTRICAL SERVICE AND LAYOUT/DESIGN IS BASED ON MANUFACTURER SIEMENS. ANY SUBSTITUTIONS MUST BE ACCOMPANIED 1/2" = 1'-0"(MIN) SCALED DIMENSIONED DRAWINGS FOUR (4) WEEKS PRIOR TO DUE DATE ENSURING ALL REQUIRED EQUIPMENTS FITS ALLOCATED SPACE AND ADHERES TO NEC AND AHJ FOR WORKING CLEARANCE REQUIREMENTS FOR ACCESS. EQUIPMENT DESIGN AND DIMENSIONS BASED OFF SIEMENS ALL ALTERNARES SHALL BE SUBMITTED UNDER THE CONDITION THEY MEET ALL XCEL REQUIRMENTS FOR ADDITIONAL EQUIPMENT QUESTIONS CONTACT:
   - NATHAN DIAZ
   - BUSINESS DEVELOPMENT MANAGER
   - 720-448-1723
   - NATHANDIAZ@SIEMENS.COM
4. PRIOR TO FINAL ORDERING OF PANELBOARDS CIRCUIT BREAKERS AND ALL ASSOCIATED EQUIPMENT, THE CONTRACTOR SHALL ARRANGE FOR AND PROVIDE TO THE ELECTRICAL ENGINEER OF RECORD VIA THE ARCHITECT A LETTER FROM THE LOCAL POWER COMPANY ON THEIR LETTERHEAD STATING THE SHORT CIRCUIT FAULT CURRENT AVAILABLE AT THE SECONDARY OF THE UTILITY COMPANY TRANSFORMER. INFORMATION SHALL BE USED TO DETERMINE THE FINAL A.I.C. RATINGS OF THE PANELBOARDS, METER CENTERS, MAIN DISCONNECT SWITCHES AND CIRCUIT BREAKERS.
5. IN BUILDINGS WITH MULTIPLE SERVICES, THE CONTRACTOR SHALL PROVIDE A PLAQUE AT EACH SERVICE EQUIPMENT LOCATION DENOTING ALL THE OTHER SERVICES IN THE BUILDING AND THE AREA SERVED BY EACH.
6. COORDINATE SOLAR REQUIREMENTS WITH THE OWNER AND PV CONSULTANT PRIOR TO ROUGH-IN TO ENSURE ALL REQUIRED CONNECTIONS ARE BEING COORDINATED AND PROVIDED PER PV POTENTIAL SYSTEM LOCATED AT EACH APPLICABLE BUILDING.
7. CONTRACTOR SHALL CONFIRM THE STARTING AFC RATINGS AT EACH UTILITY TRANSFORMER IS CONSISTENT WITH WHAT IS SHOWN IN THE CALCULATED FAULT VALUES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES. EQUIPMENT MANUFACTURER(S) SHALL PROVIDE A SHORT CIRCUIT BASED OFF THE STARTING FAULT VALUES AT THE INSTALLED UTILITY TRANSFORMERS.
8. THE CONTRACTOR SHALL COORDINATE ALL LUG REQUIREMENTS WHERE FEEDERS HAVE BEEN INCREASED TO ACCOMODATE VOLTAGE DROP. WHERE FEEDERS ARE ADJUSTED FOR VOLTAGE DROP. COORDINATE LANDING LUGS TO ACCOMODATE LARGER WIRE SIZE. IT SHALL BE ACCEPTABLE TO PROVIDE JUNCTION BOX WITH TERMINAL BLOCKS AHEAD OF OVERCURRENT DEVICE TO TRANSITION WIRE SIZES.
9. REFERENCE E0.08 FOR SCHEDULE OF FEEDERS AND SERVICES.
10. REFERENCE E0.03 FOR GROUNDING DETAILS.

ONE LINE DIAGRAM - KEYNOTES

KEY VALUE	NOTES
1	XCEL TO PROVIDE PRIMARY WIRING, PRIMARY CONDUIT, TRENCHING, AND BACKFILL.
2	CONTRACTOR SHALL PROVIDE POUR-IN-PLACE TRANSFORMER WITH SECONDARY CONNECTION CONCRETE PAD.
3	CONTRACTOR SHALL PROVIDE ALL SECONDARY WIRING, SECONDARY CONDUIT, SECONDARY TRENCHING AND BACKFILL FROM UTILITY TRANSFORMER. XCEL WILL TERMINATE THE SECONDARIES WHICH XCEL WILL PROVIDE FROM THE TRANSFORMER TO THE SECONDARY CONNECTION CABINET (IF REQUIRED). CONTRACTOR SHALL COORDINATE CONDUIT ROUTING AND TRENCHING PRIOR TO INSTALLATION WITH XCEL AND AHJ AS REQUIRED. COORDINATE TRENCHING REQUIREMENTS WITH XCEL AND AHJ. CITY OF DENVER REQUIRES AN INSPECTION OF ALL TRENCHING AND BACKFILL FOR ALL SECONDARIES THAT THE G.C. IS RESPONSIBLE FOR.
4	CONTRACTOR SHALL PROVIDE AND INSTALL SECONDARY CONNECTION CABINET AND CABLE TRAY BETWEEN THE SECONDARY CONNECTION CABINET AND TRANSFORMER. COORDINATE DETAILS WITH XCEL PRIOR TO INSTALLATION.
5	TO EACH RESPECTIVE LOAD CENTER. TYPICAL FOR EACH METER CENTER FEEDER TO LOAD CENTER(S). REFER TO LOAD CENTER FEEDER / BREAKER SCHEDULE
6	CIRCUIT SHALL BE 2#12, #12G, 3/4"C, 208V, 3PH FOR MMU (MULTI METER UNIT)
7	METERS SHOWN FOR REFERENCE AND SHALL BE LEVITON MINI METER KITS. EACH 'EXTRA LARGE' MULTIMETER UNIT (MMU) SHALL CONSIST OF (9) TO (20) 208V, SINGLE PHASE METERS. EACH 'LARGE' (MMU) SHALL CONSIST OF (5) TO (8) 208V OR 240V. EACH 'MEDIUM' (MMU) SHALL CONSIST OF (2) TO (4) 208V OR 240V. EACH MMU WILL BE WIRELESSLY CONNECTED WITH FACTORY WIRED MODHOPPERS AND HD PULSE MONITORING WITH A LEVITON CENTRAL HUB(S) LOCATED IN THE MDF ROOM OR APPROVED LOCATION. IF CONTRACTOR/OWNER PREFERENCE IS TO NOT UTILIZE WIRELESS THROUGHOUT THE PROJECT (I.E. MODHOPPER), THE CONTRACTOR SHALL DAISY CHAINED ALL THE PROJECTS REQUIRED MMU(S) ENCLOSURES TOGETHER BACK TO LEVITON CENTRAL HUB. COORDINATE WITH LEVITON FOR APPROPRIATE MMU EXTRA LARGE/LARGE/MEDIUM SIZING, NEMA RATING PER LOCATION(S), HD PULSE MONITORING (AND MODHOPPER IF BEING UTILIZED) FACTORY WIRED REQUIREMENTS, METERING REQUIREMENTS, ETC.
8	125A/2P FEEDING EACH LOAD CENTER.
9	100A/2P FEEDING EACH LOAD CENTER.
10	SPD AT EVERY UNIT LOAD CENTER PER NEC 230.67.

1 ONE LINE - DWELLING
Scale: NTS

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375
Project Number: 23080076 Drawn By: DD Checked By: SL

MARK W. BINDER
COLORADO LICENSED
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
1600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.: 22035

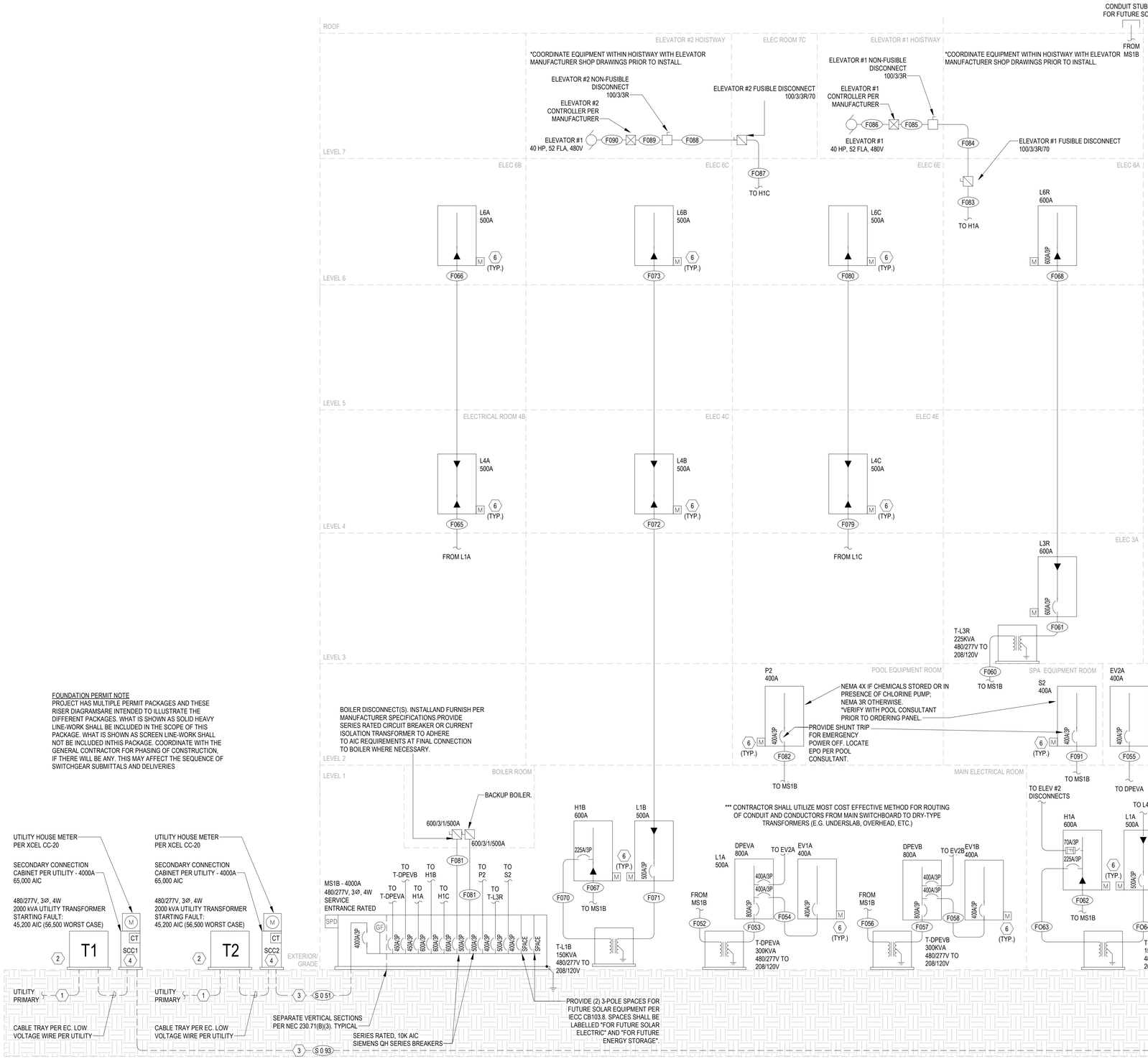
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SHEET TITLE:
RISER DIAGRAM - DWELLING

DRAWING NO.
E0.06

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ONE LINE DIAGRAM - GENERAL NOTES

1. SERVICE ENTRANCE EQUIPMENT MUST BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES, LOCAL AMENDMENTS, AND UTILITY STANDARDS AND GUIDELINES. PROVIDE ALL EQUIPMENT, IDENTIFICATION, RATINGS, ETC. AS REQUIRED BY GOVERNING DOCUMENTS AND CODES. REFERNCE UTILITY STANDARDS AND GUIDELINES AND COORDINATE ALL REQUIREMENTS WITH UTILITY PRIOR TO BEGINNING WORK.
2. EACH ELECTRICAL SERVICE LOCATION MUST BE CLEARLY LABELED, IDENTIFIED, AND SHALL INCLUDE A PERMANENT ENGRAVED PLASTIC LAMINATE SIGN/MAP SHOWING THE LOCTAION OF ALL OTHER ELECTRICAL SERVICES SERVING THAT BUILDING. COORDINATE EXACT REQUIREMENTS WITH LOCAL BUILDING AND FIRE OFFICIALS AND PROVIDE ACCORDINGLY.
3. ELECTRICAL SERVICE AND LAYOUT/DESIGN IS BASED ON MANUFACTURER SIEMENS. ANY SUBSTITUTIONS MUST BE ACCOMPANIED 1/2" = 1'-0"(MIN) SCALED DIMENSIONED DRAWINGS FOUR (4) WEEKS PRIOR TO DUE DATE ENSURING ALL REQUIRED EQUIPMENTS FITS ALLOCATED SPACE AND ADHERES TO NEC AND AHJ FOR WORKING CLEARANCE REQUIREMENTS FOR ACCESS. EQUIPMENT DESIGN AND DIMENSIONS BASED OFF SIEMENS ALL ALTERNARES SHALL BE SUBMITTED UNDER THE CONDITION THEY MEET ALL XCEL REQUIRMENTS FOR ADDITIONAL EQUIPMENT QUESTIONS CONTACT:
   - NATHAN DIAZ
   - BUSINESS DEVELOPMENT MANAGER
   - 720-448-1723
   - NATHANDIAZ@SIEMENS.COM
4. PRIOR TO FINAL ORDERING OF PANELBOARDS CIRCUIT BREAKERS AND ALL ASSOCIATED EQUIPMENT, THE CONTRACTOR SHALL ARRANGE FOR AND PROVIDE TO THE ELECTRICAL ENGINEER OF RECORD VIA THE ARCHITECT A LETTER FROM THE LOCAL POWER COMPANY ON THEIR LETTERHEAD STATING THE SHORT CIRCUIT FAULT CURRENT AVAILABLE AT THE SECONDARY OF THE UTILITY COMPANY TRANSFORMER. INFORMATION SHALL BE USED TO DETERMINE THE FINAL A.I.C. RATINGS OF THE PANELBOARDS, METER CENTERS, MAIN DISCONNECT SWITCHES AND CIRCUIT BREAKERS.
5. IN BUILDINGS WITH MULTIPLE SERVICES, THE CONTRACTOR SHALL PROVIDE A PLAQUE AT EACH SERVICE EQUIPMENT LOCATION DENOTING ALL THE OTHER SERVICES IN THE BUILDING AND THE AREA SERVED BY EACH.
6. COORDINATE SOLAR REQUIREMENTS WITH THE OWNER AND PV CONSULTANT PRIOR TO ROUGH-IN TO ENSURE ALL REQUIRED CONNECTIONS ARE BEING COORDINATED AND PROVIDED PER PV POTENTIAL SYSTEM LOCATED AT EACH APPLICABLE BUILDING.
7. CONTRACTOR SHALL CONFIRM THE STARTING AFC RATINGS AT EACH UTILITY TRANSFORMER IS CONSISTENT WITH WHAT IS SHOWN IN THE CALCULATED FAULT VALUES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES. EQUIPMENT MANUFACTURER(S) SHALL PROVIDE A SHORT CIRCUIT BASED OFF THE STARTING FAULT VALUES AT THE INSTALLED UTILITY TRANSFORMERS.
8. THE CONTRACTOR SHALL COORDINATE ALL LUG REQUIREMENTS WHERE FEEDERS HAVE BEEN INCREASED TO ACCOMODATE VOLTAGE DROP. WHERE FEEDERS ARE ADJUSTED FOR VOLTAGE DROP. COORDINATE LANDING LUGS TO ACCOMODATE LARGER WIRE SIZE. IT SHALL BE ACCEPTABLE TO PROVIDE JUNCTION BOX WITH TERMINAL BLOCKS AHEAD OF OVERCURRENT DEVICE TO TRANSITION WIRE SIZES.
9. REFERENCE E0.08 FOR SCHEDULE OF FEEDERS AND SERVICES.
10. REFERENCE E0.03 FOR GROUNDING DETAILS.

ONE LINE DIAGRAM - KEYNOTES

KEY VALUE	NOTES
1	XCEL TO PROVIDE PRIMARY WIRING, PRIMARY CONDUIT, TRENCHING, AND BACKFILL.
2	CONTRACTOR SHALL PROVIDE POUR-IN-PLACE TRANSFORMER WITH SECONDARY CONNECTION CONCRETE PAD.
3	CONTRACTOR SHALL PROVIDE ALL SECONDARY WIRING, SECONDARY CONDUIT, SECONDARY TRENCHING AND BACKFILL FROM UTILITY TRANSFORMER. XCEL WILL TERMINATE THE SECONDARIES WHICH XCEL WILL PROVIDE FROM THE TRANSFORMER TO THE SECONDARY CONNECTION CABINET (IF REQUIRED). CONTRACTOR SHALL COORDINATE CONDUIT ROUTING AND TRENCHING PRIOR TO INSTALLATION WITH XCEL AND AHJ AS REQUIRED. COORDINATE TRENCHING REQUIREMENTS WITH XCEL AND AHJ. CITY OF DENVER REQUIRES AN INSPECTION OF ALL TRENCHING AND BACKFILL FOR ALL SECONDARIES THAT THE G.C. IS RESPONSIBLE FOR.
4	CONTRACTOR SHALL PROVIDE AND INSTALL SECONDARY CONNECTION CABINET AND CABLE TRAY BETWEEN THE SECONDARY CONNECTION CABINET AND TRANSFORMER. COORDINATE DETAILS WITH XCEL PRIOR TO INSTALLATION.
5	PROVIDE DUAL ELEMENT TIME DELAYED FUSES. COORDINATE FUSE SELECTION WITH ELEVATOR MANUFACTURER TO ENSURE EQUIPMENT IS PROPERLY PROTECTED AND SELECTIVELY COORDINATED AS REQUIRED. COORDINATE ELEVATOR CONTROLLER AND CAB CONTROLS EXACT LOCATION AND REQUIREMENTS PER MANUFACTURER AND NEC.
6	AS REQUIRED BY THE ENERGY CODE, ELECTRONIC SUBMETERING DEVICES SHALL BE INSTALLED TO MONITOR THE ELECTRICAL ENERGY USE SEPARATELY FOR HVAC, INTERIOR LIGHTING, EXTERIOR LIGHTING, AND RECEPTACLE CIRCUITS. PROVIDE SUBMETERING BY LEVITON 7100 SERIES. APPROVED EQUAL BY EMON DMON, HUBBLE, OR SIEMENS.

1 ONE LINE - HOUSE
Scale: NTS

JSE Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. BIGLIN
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
1600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.: 22035

X	NOT FOR CONSTRUCTION
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SHEET TITLE:
RISER DIAGRAM - HOUSE

DRAWING NO.
E0.07

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SWITCHBOARD: MS1A

LOCATION: | **VOLTAGE:** 480/277 WYE | **A.I.C. RATING:** 65K
SUPPLIED FROM: | **PHASE:** 3 | **MAIN TYPE:** MCB
MOUNTING: Pad | **WIRE:** 4 | **MAIN RATING:** 4000 A
NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	# OF POLES	FRAME SIZE	TRIP/ FUSE RATING	TRIP TYPE	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC	Load	NOTES
1	T-DP1A	3	400 A	350 A								115.3	115.2	DIVERSIFIED PER NEC220.84
2	T-DP3B	3	500 A	450 A								158.5	158.4	DIVERSIFIED PER NEC220.84
3	T-DP3C	3	500 A	450 A								168.8	168.6	DIVERSIFIED PER NEC220.84
4	T-DP3D	3	500 A	450 A								168.1	168.0	DIVERSIFIED PER NEC220.84
5	T-DP5B	3	500 A	450 A								160.4	160.3	DIVERSIFIED PER NEC220.84
6	T-DP5C	3	500 A	450 A								169.8	169.7	DIVERSIFIED PER NEC220.84
7	T-DP5D	3	500 A	450 A								168.2	168.0	DIVERSIFIED PER NEC220.84
8	T-DP7B	3	400 A	350 A								80.2	80.1	DIVERSIFIED PER NEC220.84
9	T-DP7C	3	400 A	350 A								84.9	84.8	DIVERSIFIED PER NEC220.84
10	T-DP7D	3	400 A	350 A								84.1	84.0	DIVERSIFIED PER NEC220.84
11	T-DP4A	3	500 A	450 A								162.0	161.8	DIVERSIFIED PER NEC220.84
12	T-DP5A	3	500 A	450 A								186.9	186.7	DIVERSIFIED PER NEC220.84
13	T-DP6A	3	400 A	350 A								79.7	79.6	DIVERSIFIED PER NEC220.84
14														
15														
16														
17														
18														
19														
20														
					TOTAL:	LITES	RCPT	MTR	A/C	HEAT	KTCH	MISC		
												1785.3		

LOAD TYPES:		CONNECTED LOAD	ESTIMATED LOAD	PANEL TOTALS	
LITES	- LIGHTING:	0 VA	0 VA		
RCPT	- RECEPTACLES:	0 VA	0 VA	TOTAL CONNECTED LOAD (KVA):	1785.3
MTR	- MOTORS:	0 VA	0 VA	TOTAL DEMAND LOAD (KVA):	1785.3
AC	- A/C:	0 VA	0 VA	TOTAL CONNECTED LOAD (AMPS):	2147.4
HEAT	- HEATING:	0 VA	0 VA	TOTAL DEMAND LOAD (AMPS):	2147.4
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	1785322 VA	1785322 VA	AMPACITY REQUIRED:	2147 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES: CB=CIRCUIT BREAKER F=FUSE

1. INSTALL SWITCHBOARD ON 3" HIGH CONCRETE PAD (LENGTH AND WIDTH EXCEEDING BASE BY 3" ON ALL SIDES.)
2. FOR ANY BREAKER OR FUSE 1200A OR HIGHER, AN ARC-ENERGY REDUCING MAINTENANCE SWITCH (ERMS) SHALL BE PROVIDED.
3. SWITCHBOARD SHALL BE ORDERED AND INSTALLED PER NEC 230.71.

SWITCHBOARD: MS1B

LOCATION: | **VOLTAGE:** 480/277 WYE | **A.I.C. RATING:** 65K
SUPPLIED FROM: | **PHASE:** 3 | **MAIN TYPE:** MCB
MOUNTING: Pad | **WIRE:** 4 | **MAIN RATING:** 4000 A
NEMA ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	# OF POLES	FRAME SIZE	TRIP/ FUSE RATING	TRIP TYPE	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC	Load	NOTES
1	T-DPEVA	3	500 A	450 A								194.8	194.7	
2	T-DPEVB	3	500 A	450 A								198.2	198.0	
3	H1A	3	600 A	600 A		9.4	22.6	27.3	36.2	155.7		1.4	253.4	
4	H1B	3	600 A	600 A		12.6	20.5	38.6	56.6	102.3		1.4	236.5	
5	H1C	3	600 A	600 A		5.1	11.5	61.0	23.4	100.2		4.6	222.5	
6	WHE-1	3	500 A	500 A								0.0	324.0	
7	WHE-2	3	500 A	500 A								0.0	324.0	
8	P2	3	400 A	400 A								75.1	75.0	
9	T-L3R	3	400 A	400 A		2.3	16.4	0.3	54.6	77.9		0.2	151.9	
10	S2	3	400 A	20 A								75.1	75.0	
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
					TOTAL:	LITES	RCPT	MTR	A/C	HEAT	KTCH	MISC		
						29.4	71.1	127.1	170.8	436.0		157.5		

LOAD TYPES:		CONNECTED LOAD	ESTIMATED LOAD	PANEL TOTALS	
LITES	- LIGHTING:	29447 VA	36809 VA		
RCPT	- RECEPTACLES:	71060 VA	40530 VA	TOTAL CONNECTED LOAD (KVA):	2055.0
MTR	- MOTORS:	127138 VA	136828 VA	TOTAL DEMAND LOAD (KVA):	2139.7
AC	- A/C:	170791 VA	170791 VA	TOTAL CONNECTED LOAD (AMPS):	2471.8
HEAT	- HEATING:	436018 VA	436018 VA	TOTAL DEMAND LOAD (AMPS):	2573.7
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	157450 VA	157450 VA	AMPACITY REQUIRED:	1767 A
EV	- ELECTRIC VEHICLE	392700 VA	490875 VA		

NOTES: CB=CIRCUIT BREAKER F=FUSE

1. INSTALL SWITCHBOARD ON 3" HIGH CONCRETE PAD (LENGTH AND WIDTH EXCEEDING BASE BY 3" ON ALL SIDES.)
2. FOR ANY BREAKER OR FUSE 1200A OR HIGHER, AN ARC-ENERGY REDUCING MAINTENANCE SWITCH (ERMS) SHALL BE PROVIDED.
3. SWITCHBOARD SHALL BE ORDERED AND INSTALLED PER NEC 230.71.

SCHEDULE OF FEEDERS & SERVICES- FIRE PUMP

FEEDER / SERVICE DESCRIPTION			NUMBER OF RUNS	CONDUCTOR SIZE			CONDUIT DIAMETER (IN)	VOLTAGE DROP %	FAULT CURRENT CALCULATION				CALC. FAULT VALUE
DESIGNATION	EQUIPMENT SERVED	COPPER OR ALUMINUM		PHASE CONDUCTOR	NEUTRAL CONDUCTOR	EQUIPMENT GROUND			F-VALUE	M-VALUE	XFMR F VALUE	XFMR M VALUE	
S 0 93	FIRE PUMP CONTROLLER	AL	1 set	3 # 250	1 # 250	-	3	0.27%	0.793	0.558	-	-	31,520
F 0 94	FIRE PUMP	AL	1 set	3 # 250	-	1 # 4	2 1/2	0.28%	0.469	0.681	-	-	21,455

KEY: "CU" - COPPER "AL" - ALUMINUM
NOTES: COPPER OR ALUMINUM REFERS TO ALL CONDUCTORS (PHASE, NEUTRAL, AND GROUND)
* CONDUCTOR SIZES INDICATED MAY BE INCREASED DUE TO VOLTAGE DROP

SCHEDULE OF FEEDERS & SERVICES- MS1A

FEEDER / SERVICE DESCRIPTION				NUMBER OF RUNS	CONDUCTOR SIZE			CONDUIT DIAMETER (IN)	VOLTAGE DROP %	FAULT CURRENT CALCULATION				CALC. FAULT VALUE
DESIGNATION	EQUIPMENT SERVED	CONDUCTOR AMPACITY (AMPS)	C ...		PHASE CONDUCTOR	NEUTRAL CONDUCTOR	EQUIPMENT GROUND			F-VALUE	M-VALUE	XFMR F VALUE	XFMR M VALUE	
S 0 00	MS1A	4000	...	12 sets	3 # 600	1 # 600	-	4	0.18%	0.029	0.972	-	-	54,909
F 0 01	T-DP1A	310	...	1 set	3 # 500	-	1 # 2	4	0.05%	0.106	0.904	-	-	49,663
F 0 02	DP1A	620	...	2 sets	3 # 500	1 # 500	1 # 2/0	4	0.58%	0.551	0.645	5.371	0.157	11,597
F 0 03	T-DP4A	410	...	2 sets	3 # 250	-	1 # 1	2 1/2	2.09%	3.024	0.249	-	-	13,646
F 0 04	DP4A	810	...	3 sets	3 # 400	1 # 400	1 # 3/0	4	0.06%	0.011	0.989	1.929	0.341	10,629
F 0 05	T-DP3B	410	...	2 sets	3 # 250	-	1 # 1	2 1/2	1.13%	1.634	0.380	-	-	20,843
F 0 06	DP3B	810	...	3 sets	3 # 400	1 # 400	1 # 3/0	4	0.06%	0.017	0.983	2.930	0.254	12,031
F 0 07	T-DP3C	410	...	2 sets	3 # 250	-	1 # 1	2 1/2	0.68%	0.981	0.505	-	-	27,722
F 0 08	DP3C	810	...	3 sets	3 # 400	1 # 400	1 # 3/0	4	0.06%	0.023	0.977	3.875	0.205	12,828
F 0 09	T-DP5A	410	...	2 sets	3 # 250	-	1 # 1	2 1/2	2.20%	3.187	0.239	-	-	13,113
F 0 10	DP5A	810	...	3 sets	3 # 400	1 # 400	1 # 4/0	4	0.07%	0.011	0.989	1.855	0.350	10,486
F 0 11	T-DP5B	410	...	2 sets	3 # 250	-	1 # 1	2 1/2	1.24%	1.798	0.357	-	-	19,625
F 0 12	DP5B	810	...	3 sets	3 # 400	1 # 400	1 # 3/0	4	0.06%	0.016	0.984	2.761	0.266	11,848
F 0 13	T-DP5C	410	...	2 sets	3 # 250	-	1 # 1	2 1/2	0.79%	1.144	0.466	-	-	25,609
F 0 14	DP5C	810	...	3 sets	3 # 400	1 # 400	1 # 3/0	4	0.06%	0.021	0.979	3.585	0.218	12,619
F 0 15	T-DP6A	310	...	1 set	3 # 500	-	1 # 2	4	2.05%	4.331	0.188	-	-	10,300
F 0 16	DP6A	620	...	2 sets	3 # 500	1 # 500	1 # 2/0	4	0.06%	0.011	0.989	1.708	0.369	8,677
F 0 17	T-DP7B	310	...	1 set	3 # 500	-	1 # 2	4	1.20%	2.535	0.283	-	-	15,532
F 0 18	DP7B	620	...	2 sets	3 # 500	1 # 500	1 # 2/0	4	0.35%	0.103	0.906	2.361	0.298	9,664
F 0 19	T-DP7C	310	...	1 set	3 # 500	-	1 # 2	4	0.80%	1.690	0.372	-	-	20,411
F 0 20	DP7C	620	...	2 sets	3 # 500	1 # 500	1 # 2/0	4	0.35%	0.136	0.880	3.014	0.249	10,330
F 0 21	T-DP3D	410	...	2 sets	3 # 250	-	1 # 1	2 1/2	0.56%	0.817	0.550	-	-	30,216
F 0 22	DP3D	810	...	3 sets	3 # 400	1 # 400	1 # 3/0	4	0.06%	0.025	0.975	4.215	0.192	13,044
F 0 23	T-DP5D	410	...	2 sets	3 # 250	-	1 # 1	2 1/2	0.68%	0.981	0.505	-	-	27,722
F 0 24	DP5D	810	...	3 sets	3 # 400	1 # 400	1 # 3/0	4	0.06%	0.023	0.977	3.875	0.205	12,828
F 0 25	T-DP7D	310	...	1 set	3 # 500	-	1 # 2	4	0.70%	1.479	0.403	-	-	22,151
F 0 26	DP7D	620	...	2 sets	3 # 500	1 # 500	1 # 2/0	4	0.06%	0.025	0.976	3.627	0.216	10,783

KEY: "CU" - COPPER "AL" - ALUMINUM
NOTES: COPPER OR ALUMINUM REFERS TO ALL CONDUCTORS (PHASE, NEUTRAL, AND GROUND)
* CONDUCTOR SIZES INDICATED MAY BE INCREASED DUE TO VOLTAGE DROP

SCHEDULE OF FEEDERS & SERVICES- MS1B

FEEDER / SERVICE DESCRIPTION			NUMBER OF RUNS	CONDUCTOR SIZE			CONDUIT DIAMETER (IN)	VOLTAGE DROP %	FAULT CURRENT CALCULATION				CALC. FAULT VALUE
DESIGNATION	EQUIPMENT SERVED	COPPER OR ALUMINUM		PHASE CONDUCTOR	NEUTRAL CONDUCTOR	EQUIPMENT GROUND			F-VALUE	M-VALUE	XFMR F VALUE	XFMR M VALUE	
S 0 51	MS1B	AL	12 sets	3 # 600	1 # 600	-	4	0.09%	0.014	0.986	-	-	55,693
F 0 52	T-DPEVA	AL	2 sets	3 # 300	-	1 # 1/0	2 1/2	0.11%	0.144	0.874	-	-	48,663
F 0 53	DPEVA	AL	3 sets	3 # 400	1 # 400	1 # 3/0	4	0.12%	0.081	0.925	6.437	0.134	13,968
F 0 54	EV1A	AL	2 sets	3 # 250	1 # 250	1 # 1	3	0.13%	0.048	0.954	-	-	13,329
F 0 55	EV2A	AL	2 sets	3 # 250	1 # 250	1 # 1	3	0.52%	0.192	0.839	-	-	11,719
F 0 56	T-DPEVB	AL	2 sets	3 # 300	-	1 # 1/0	2 1/2	0.25%	0.333	0.750	-	-	41,768
F 0 57	DPEVB	AL	3 sets	3 # 400	1 # 400	1 # 3/0	4	0.12%	0.070	0.935	5.584	0.152	13,687
F 0 58	EV1B	AL	2 sets	3 # 250	1 # 250	1 # 1	3	0.39%	0.141	0.876	-	-	11,996
F 0 59	EV2B	AL	2 sets	3 # 250	1 # 250	1 # 1	3	0.52%	0.188	0.842	-	-	11,521
F 0 60	T-L3R	AL	2 sets	3 # 500	1 # 500	1 # 1/0	4	1.42%	1.872	0.354	-	-	19,739
F 0 61	L3R	AL	2 sets	3 # 500	1 # 500	1 # 2/0	4	0.58%	0.219	0.820	2.716	0.269	10,055
F 0 62	H1A	AL	2 sets	3 # 500	1 # 500	1 # 2/0	4	1.70%	1.821	0.354	-	-	19,739
F 0 63	T-L1A	AL	1 set	3 # 300	-	1 # 2	2 1/2	0.05%	0.051	0.951	-	-	18,778
F 0 64	L1A	AL	2 sets	3 # 500	1 # 500	1 # 2/0	4	0.12%	0.042	0.960	4.126	0.195	8,115
F 0 65	L4A	AL	2 sets	3 # 350	1 # 350	1 # 2/0	3	0.75%	0.109	0.902	-	-	7,317
F 0 66	L6A	AL	2 sets	3 # 350	1 # 350	1 # 2/0	3	0.30%	0.039	0.962	-	-	7,040
F 0 67	H1B	AL	2 sets	3 # 500	1 # 500	1 # 2/0	4	0.10%	0.107	0.903	-	-	50,303
F 0 68	L6R	AL	2 sets	3 # 500	1 # 500	1 # 2/0	4	0.25%	0.048	0.954	-	-	9,591
F 0 70	T-L1B	AL	1 set	3 # 300	-	1 # 2	2 1/2	0.05%	0.130	0.885	-	-	44,497
F 0 71	L1B	AL	2 sets	3 # 350	1 # 350	1 # 1/0	3	0.13%	0.120	0.893	9.097	0.099	9,083
F 0 72	L4B	AL	2 sets	3 # 350	1 # 350	1 # 1/0	3	0.63%	0.122	0.891	-	-	8,095
F 0 73	L6B	AL	2 sets	3 # 350	1 # 350	1 # 1/0	3	0.25%	0.044	0.958	-	-	7,757
F 0 74	H1C	AL	2 sets	3 # 500	1 # 500	1 # 2/0	4	0.30%	0.321	0.757	-	-	42,146
F 0 77	T-L1C	AL	1 set	3 # 300	-	1 # 2	2 1/2	0.05%	0.109	0.901	-	-	37,992
F 0 78	L1C	AL	2 sets	3 # 350	1 # 350	1 # 1/0	3	0.88%	0.715	0.583	5.071	0.165	8,421
F 0 79	L4C	AL	2 sets	3 # 350	1 # 350	1 # 1/0	3	0.63%	0.113	0.898	-	-	7,564
F 0 80	L6C	AL	2 sets	3 # 350	1 # 350	1 # 1/0	3	0.25%	0.041	0.961	-	-	7,269
F 0 81	WHE1/WHE-2	AL	2 sets	3 # 350	1 # 350	1 # 1/0	3	0.49%	0.584	0.631	-	-	35,159
F 0 82	P2	AL	2 sets	3 # 250	1 # 250	1 # 1	3	0.56%	0.829	0.547	-	-	30,452
F 0 83	ELV1 FDISC	CU	1 set	3 # 3	-	1 # 8	1 1/4	0.42%	1.492	0.401	-	-	7,921
F 0 84	ELV1 DISC	CU	1 set	3 # 3	-	1 # 8	1 1/4	0.08%	0.120	0.893	-	-	7,074
F 0 85	ELV1 CNTRL	CU	1 set	3 # 3	-	1 # 8	1 1/4	0.04%	0.053	0.949	-	-	6,715
F 0 86	ELV1	CU	1 set	3 # 3	-	1 # 8	1 1/4	0.04%	0.051	0.952	-	-	6,391
F 0 87	ELV2 FDISC	CU	1 set	3 # 3	-	1 # 8	1 1/4	0.42%	3.186	0.239	-	-	10,069
F 0 88	ELV2 DISC	CU	1 set	3 # 3	-	1 # 8	1 1/4	0.08%	0.152	0.868	-	-	8,739
F 0 89	ELV2 CNTRL	CU	1 set	3 # 3	-	1 # 8	1 1/4	0.04%	0.066	0.938	-	-	8,198
F 0 90	ELV2	CU	1 set	3 # 3	-	1 # 8	1 1/4	0.04%	0.062	0.942	-	-	7,719
F 0 91	S2	AL	2 sets	3 # 250	1 # 250	1 # 1	3	0.56%	0.829	0.547	-	-	30,452

KEY: "CU" - COPPER "AL" - ALUMINUM
NOTES: COPPER OR ALUMINUM REFERS TO ALL CONDUCTORS (PHASE, NEUTRAL, AND GROUND)
* CONDUCTOR SIZES INDICATED MAY BE INCREASED DUE TO VOLTAGE DROP

DRY-TYPE TRANSFORMER SCHEDULE

SIZE	VOLTAGE		CONFIGURATION		GROUNDING ELECTRODE CONDUCTOR	NOTES
	PRIMARY	SECONDARY	PRIMARY	SECONDARY		
150.0 KVA	480V/3Ø	208/3Ø	3Ø DELTA	3Ø WYE	#1/0 AL	REFER TO E0.03, DETAIL 2 AND JSE SPECIFICATIONS
300.0 KVA	480V/3Ø	208/3Ø	3Ø DELTA	3Ø WYE	#4/0 AL	REFER TO E0.03, DETAIL 2 AND JSE SPECIFICATIONS
500.0 KVA	480V/3Ø	208/3Ø	3Ø DELTA	3Ø WYE	250 KCMIL AL	REFER TO E0.03, DETAIL 2 AND JSE SPECIFICATIONS

NOTES: FLOOR MOUNTED EQUIPMENT SHALL HAVE 3" CONCRETE HOUSEKEEPING PAD.
GROUNDING ELECTRODE CONDUCTOR SHALL BE CONNECTED TO BUILDING STRUCTURAL STEEL OR METAL WATER PIPE WITHIN 5' OF ENTERING STRUCTURE.
APPLICABLE TO ALL TRANSFORMERS OF INDICATED SIZE.

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. BINDER
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
16600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.: 22035

X	NOT FOR CONSTRUCTION
	ISSUED FOR PRICING
	ISSUED FOR PERMIT
	ISSUED FOR CONSTRUCTION

SHEET TITLE:
SERVICE SCHEDULES

DRAWING NO.
E0.08

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BLDG FLOORS							# OF UNIT	UNIT NAME
1	2	3	4	5	6	7		
		3	3				6	S1
							0	A0
							0	A1
							0	A2
		4	4				8	A3
		2	2				4	A4
							0	A5
		1	1				2	A6
							0	A7
							0	A8
							0	A9
							0	A10
		1					1	A11
							0	B1
		1					1	B2
							0	B3
							0	B4
							0	B5
							0	B6
		1					1	B7
							0	PH1
							0	C1
							0	MLA1
							0	MLA2
							0	MLA3
							0	MLA4
							0	MLB1
							0	MLB2
						TOTAL:	23	

DISTRIBUTION PANEL DP4A

TOTAL UNITS SERVED = 23

SQUARE FOOTAGE	19138	SF	X	3	VA/SF	57.4 KVA
KITCHEN/LAUNDRY	4500	VA	X	23		103.5 KVA
RANGES	8000	VA	X	23		184.0 KVA
DRYERS	5000	VA	X	23		115.0 KVA
REFRIGERATOR	960	VA	X	23		22.1 KVA
DISPOSALS	800	VA	X	23		18.4 KVA
DISHWASHERS	1200	VA	X	23		27.6 KVA
MICROWAVE/HOOD	1500	VA	X	23		34.5 KVA
WATER HEATERS	0	VA	X	23		0.0 KVA
TOTAL HVAC	141170	VA				141.2 KVA
				SUBTOTAL		703.7 KVA
DEMAND FACTOR	703.7	KVA	X	36	%	253.3 KVA
HOUSE PANEL		KVA	X	100	%	0.0 KVA
N.E.C. TABLE 220-84						
TOTAL						253.3 KVA
VOLTAGE: 208/120			PHASE: 3			703.1 AMPS

FOR ANY BREAKER 1200A OR HIGHER, AN ARC-ENERGY REDUCING SWITCH SHALL BE PROVIDED.

BLDG FLOORS							# OF UNIT	UNIT NAME
1	2	3	4	5	6	7		
							0	S1
1							1	A0
							0	A1
							0	A2
							0	A3
							0	A4
							0	A5
							0	A6
							0	A7
1							1	A8
							0	A9
							0	A10
							0	A11
							0	B1
							0	B2
							0	B3
							0	B4
							0	B5
							0	B6
							0	B7
							0	PH1
							0	C1
4							4	MLA1
5							5	MLA2
1							1	MLA3
1							1	MLA4
1							1	MLB1
1							1	MLB2
						TOTAL:	15	

DISTRIBUTION PANEL DP1A

TOTAL UNITS SERVED = 15

SQUARE FOOTAGE	18739	SF	X	3	VA/SF	56.2 KVA
KITCHEN/LAUNDRY	4500	VA	X	15		67.5 KVA
RANGES	8000	VA	X	15		120.0 KVA
DRYERS	5000	VA	X	15		75.0 KVA
REFRIGERATOR	960	VA	X	15		14.4 KVA
DISPOSALS	800	VA	X	15		12.0 KVA
DISHWASHERS	1200	VA	X	15		18.0 KVA
MICROWAVE/HOOD	1500	VA	X	15		22.5 KVA
WATER HEATERS	0	VA	X	15		0.0 KVA
TOTAL HVAC	115170	VA				115.2 KVA
				SUBTOTAL		500.8 KVA
DEMAND FACTOR	500.8	KVA	X	40	%	200.3 KVA
HOUSE PANEL		KVA	X	100	%	0.0 KVA
N.E.C. TABLE 220-84						
TOTAL						200.3 KVA
VOLTAGE: 208/120			PHASE: 3			556.0 AMPS

FOR ANY BREAKER 1200A OR HIGHER, AN ARC-ENERGY REDUCING SWITCH SHALL BE PROVIDED.

BLDG FLOORS							# OF UNIT	UNIT NAME	PER UNIT		TOTAL	
1	2	3	4	5	6	7			SQFT	HVAC (VA)	SQFT	HVAC (VA)
0	0	9	9	9	9	8	44	S1	520	6365	22880	280051
1	0	0	0	0	0	0	1	A0	625	6365	625	6365
0	0	1	1	1	1	1	5	A1	680	5970	3400	29848
0	0	11	11	11	11	11	55	A2	640	5970	35200	328328
0	0	6	6	6	6	6	30	A3	938	5970	28140	179088
0	0	6	6	6	6	6	30	A4	771	5970	23130	179088
0	0	1	1	1	1	1	5	A5	831	5970	4155	29848
0	0	1	1	1	1	0	4	A6	1154	5970	4616	23878
0	0	1	1	1	1	1	5	A7	735	5970	3675	29848
1	0	1	1	1	1	1	6	A8	853	5970	5118	35818
0	0	1	0	0	0	0	1	A9	903	5970	903	5970
0	0	2	1	1	1	1	6	A10	1128	5970	6768	35818
0	0	1	0	0	0	0	1	A11	764	5970	764	5970
0	0	0	1	1	1	1	4	B1	1010	5970	4040	23878
0	0	0	2	2	2	2	8	B2	1266	5970	10128	47757
0	0	2	2	2	2	2	10	B3	1279	8278	12790	82784
0	0	0	0	1	1	0	2	B4	1411	10795	2822	21590
0	0	1	1	1	1	1	5	B5	1159	8278	5795	41392
0	0	2	1	0	0	0	3	B6	1399	7467	4197	22402
0	0	0	1	1	1	1	4	B7	1092	7467	4368	29869
0	0	0	0	0	0	1	1	PH1	1744	11294	1744	11294
0	0	0	1	2	2	2	7	C1	1687	10795	11809	75566
4	0	0	0	0	0	0	4	MLA1	979	7467	3916	29869
5	0	0	0	0	0	0	5	MLA2	1386	7467	6930	37336
1	0	0	0	0	0	0	1	MLA3	1512	8278	1512	8278
1	0	0	0	0	0	0	1	MLA4	1448	8278	1448	8278
1	0	0	0	0	0	0	1	MLB1	1667	8278	1667	8278
1	0	0	0	0	0	0	1	MLB2	1788	10795	1788	10795
						TOTAL:	250		BUILDING TOTALS:		214328	1629285

OVERALL DWELLING (480V)

TOTAL UNITS SERVED = 250

SQUARE FOOTAGE	214328	SF	X	3	VA/SF	643.0 KVA
KITCHEN/LAUNDRY	4500	VA	X	250		1125.0 KVA
RANGES	8000	VA	X	250		2000.0 KVA
DRYERS	5000	VA	X	250		1250.0 KVA
REFRIGERATOR	960	VA	X	250		240.0 KVA
DISPOSALS	800	VA	X	250		200.0 KVA
DISHWASHERS	1200	VA	X	250		300.0 KVA
MICROWAVE/HOOD	1500	VA	X	250		375.0 KVA
WATER HEATERS	0	VA	X	250		0.0 KVA
TOTAL HVAC	1629285	VA				1629.3 KVA
				SUBTOTAL		7762.3 KVA
DEMAND FACTOR	7762.3	KVA	X	23	%	1785.3 KVA
HOUSE PANEL		KVA	X	100	%	0.0 KVA
N.E.C. TABLE 220-84						
TOTAL						1785.3 KVA
VOLTAGE: 480/277			PHASE: 3			2147.4 AMPS

FOR ANY BREAKER 1200A OR HIGHER, AN ARC-ENERGY REDUCING SWITCH SHALL BE PROVIDED.

BLDG FLOORS							# OF UNIT	UNIT NAME
1	2	3	4	5	6	7		
							0	S1
							0	A0
							0	A1
		3	3				6	A2
		2	2				4	A3
		2	2				4	A4
							0	A5
							0	A6
							0	A7
							0	A8
							0	A9
		1	1				2	A10
							0	A11
							0	B1
							0	B2
		1	1				2	B3
							0	B4
		1	1				2	B5
		1	1				2	B6
							0	B7
							0	PH1
							0	C1
							0	MLA1
							0	MLA2
							0	MLA3
							0	MLA4
							0	MLB1
							0	MLB2
						TOTAL:	22	

DISTRIBUTION PANEL DP3B

TOTAL UNITS SERVED = 22

SQUARE FOOTAGE	20606	SF	X	3	VA/SF	61.8 KVA
KITCHEN/LAUNDRY	4500	VA	X	22		99.0 KVA
RANGES	8000	VA	X	22		176.0 KVA
DRYERS	5000	VA	X	22		110.0 KVA
REFRIGERATOR	960	VA	X	22		21.1 KVA
DISPOSALS	800	VA	X	22		17.6 KVA
DISHWASHERS	1200	VA	X	22		26.4 KVA
MICROWAVE/HOOD	1500	VA	X	22		33.0 KVA
WATER HEATERS	0	VA	X	22		0.0 KVA
TOTAL HVAC	143562	VA				143.6 KVA
				SUBTOTAL		688.5 KVA
DEMAND FACTOR	688.5	KVA	X	36	%	247.9 KVA
HOUSE PANEL		KVA	X	100	%	0.0 KVA
N.E.C. TABLE 220-84						
TOTAL						247.9 KVA
VOLTAGE: 208/120			PHASE: 3			687.9 AMPS

FOR ANY BREAKER 1200A OR HIGHER, AN ARC-ENERGY REDUCING SWITCH SHALL BE PROVIDED.

BLDG FLOORS							# OF UNIT	UNIT NAME
1	2	3	4	5	6	7		
						2	2	S1
							0	A0
							0	A1
							0	A2
						4	4	A3
						2	2	A4
							0	A5
							0	A6
							0	A7
							0	A8
							0	A9
							0	A10
							0	A11
							0	B1
						1	1	B2
							0	B3
							0	B4
							0	B5
							0	B6
						1	1	B7
						1	1	PH1
							0	C1
							0	MLA1
							0	MLA2
							0	MLA3
							0	MLA4
							0	MLB1
							0	MLB2
						TOTAL:	11	

DISTRIBUTION PANEL DP6A

TOTAL UNITS SERVED = 11

SQUARE FOOTAGE	10436	SF	X	3	VA/SF	31.3 KVA
KITCHEN/LAUNDRY	4500	VA	X	11		49.5 KVA
RANGES	8000	VA	X	11		88.0 KVA
DRYERS	5000	VA	X	11		55.0 KVA
REFRIGERATOR	960	VA	X	11		10.6 KVA
DISPOSALS	800	VA	X	11		8.8 KVA
DISHWASHERS	1200	VA	X	11		13.2 KVA
MICROWAVE/HOOD	1500	VA	X	11		16.5 KVA
WATER HEATERS	0	VA	X	11		0.0 KVA
TOTAL HVAC	73278	VA				73.3 KVA
				SUBTOTAL		346.1 KVA
DEMAND FACTOR	346.1	KVA	X	42	%	145.4 KVA
HOUSE PANEL		KVA	X	100	%	0.0 KVA
N.E.C. TABLE 220-84						
TOTAL						145.4 KVA
VOLTAGE: 208/120			PHASE: 3			403.5 AMPS

FOR ANY BREAKER 1200A OR HIGHER, AN ARC-ENERGY REDUCING SWITCH SHALL BE PROVIDED.

BLDG FLOORS							# OF UNIT	UNIT NAME
1	2	3	4	5	6	7		
					3	3	6	S1
							0	A0
							0	A1
							0	A2
					4	4	8	A3
					2	2	4	A4
							0	A5
					1	1	2	A6
							0	A7
							0	A8
							0	A9
							0	A10
							0	A11
							0	B1
					1	1	2	B2
							0	B3
					1	1	2	B4
							0	B5
							0	B6
					1	1	2	B7
							0	MLA1
							0	MLA2
							0	MLA3
							0	MLA4
							0	MLB1
							0	MLB2
						TOTAL:	26	

DISTRIBUTION PANEL DP5A

TOTAL UNITS SERVED = 26

SQUARE FOOTAGE	23554	SF	X	3	VA/SF	70.7 KVA
KITCHEN/LAUNDRY	4500	VA	X	26		117.0 KVA
RANGES	8000	VA	X	26		208.0 KVA
DRYERS	5000	VA	X	26		130.0 KVA
REFRIGERATOR	960	VA	X	26		25.0 KVA
DISPOSALS	800	VA	X	26		20.8 KVA
DISHWASHERS	1200	VA	X	26		31.2 KVA
MICROWAVE/HOOD	1500	VA	X	26		39.0 KVA
WATER HEATERS	0	VA	X	26		0.0 KVA
TOTAL HVAC	170227	VA				170.2 KVA
				SUBTOTAL		811.8 KVA
DEMAND FACTOR	811.8	KVA	X	34	%	276.0 KVA
HOUSE PANEL		KVA	X	100	%	0.0 KVA
N.E.C. TABLE 220-84						
TOTAL						276.0 KVA
VOLTAGE: 208/120			PHASE: 3			766.1 AMPS

FOR ANY BREAKER 1200A OR HIGHER, AN ARC-ENERGY REDUCING SWITCH SHALL BE PROVIDED.

BLDG FLOORS							# OF UNIT	UNIT NAME
1	2	3	4	5	6	7		
							0	S1
							0	A0
							0	A1
				3	3		6	A2
				2	2		4	A3
				2	2		4	A4
							0	A5
							0	A6
							0	A7
							0	A8
							0	A9
				1	1		2	A10
							0	A11
							0	B1
							0	B2
				1	1		2	B3
							0	B4
				1	1		2	B5
							0	B6
							0	B7
							0	PH1
				1	1		2	C1
							0	MLA1
							0	MLA2
							0	MLA3
							0	MLA4
							0	MLB1
							0	MLB2
						TOTAL:	22	

DISTRIBUTION PANEL DP5B

TOTAL UNITS SERVED = 22

SQUARE FOOTAGE	21182	SF	X	3	VA/SF	63.5 KVA
KITCHEN/LAUNDRY	4500	VA	X	22		99.0 KVA
RANGES	8000	VA	X	22		176.0 KVA
DRYERS	5000	VA	X	22		110.0 KVA
REFRIGERATOR	960	VA	X	22		21.1 KVA
DISPOSALS	800	VA	X	22		17.6 KVA
DISHWASHERS	1200	VA	X	22		26.4 KVA
MICROWAVE/HOOD	1500	VA	X	22		33.0 KVA
WATER HEATERS	0	VA	X	22		0.0 KVA
TOTAL HVAC	150218	VA				150.2 KVA
				SUBTOTAL		696.9 KVA
DEMAND FACTOR	696.9	KVA	X	36	%	250.9 KVA
HOUSE PANEL		KVA	X	100	%	0.0 KVA
N.E.C. TABLE 220-84						
TOTAL						250.9 KVA
VOLTAGE: 208/120			PHASE: 3			696.3 AMPS

FOR ANY BREAKER 1200A OR HIGHER, AN ARC-ENERGY REDUCING SWITCH SHALL BE PROVIDED.

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. ENGBER
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/29/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
1600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.: 22035

X	NOT FOR CONSTRUCTION
	ISSUED FOR PRICING
	ISSUED FOR PERMIT
	ISSUED FOR CONSTRUCTION

SHEET TITLE:
DWELLING CALCULATIONS

DRAWING NO.
E0.09

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DISTRIBUTION PANEL DP7C

BLDG FLOORS 1	2	3	4	5	6	7	# OF UNIT	UNIT NAME
						2	2	S1
							0	A0
						1	1	A1
						5	5	A2
								A3
						1	1	A4
							0	A5
							0	A6
						1	1	A7
								A8
								A9
							0	A10
							0	A11
							0	B1
						1	1	B2
							0	B3
								B4
								B5
							0	B6
								B7
								PH1
						1	1	C1
								MLA1
								MLA2
								MLA3
								MLA4
								MLB1
								MLB2
					TOTAL:		12	

TOTAL UNITS SERVED = 12

SQUARE FOOTAGE	9379	SF	X	3	VA/SF	28.1 KVA
KITCHEN/LAUNDRY	4500	VA	X	12		54.0 KVA
RANGES	8000	VA	X	12		96.0 KVA
DRYERS	5000	VA	X	12		60.0 KVA
REFRIGERATOR	960	VA	X	12		11.5 KVA
DISPOSALS	800	VA	X	12		9.6 KVA
DISHWASHERS	1200	VA	X	12		14.4 KVA
MICROWAVE/HOOD	1500	VA	X	12		18.0 KVA
WATER HEATERS	0	VA	X	12		0.0 KVA
TOTAL HVAC	77251	VA				77.3 KVA
				SUBTOTAL		368.9 KVA
DEMAND FACTOR	368.9	KVA	X	41	%	151.3 KVA
HOUSE PANEL		KVA	X	100	%	0.0 KVA
N.E.C. TABLE 220-84						
TOTAL						151.3 KVA
VOLTAGE: 208/120			PHASE: 3			419.8 AMPS

FOR ANY BREAKER 1200A OR HIGHER, AN ARC-ENERGY REDUCING SWITCH SHALL BE PROVIDED.

DISTRIBUTION PANEL DP5C

BLDG FLOORS 1	2	3	4	5	6	7	# OF UNIT	UNIT NAME
				2	2		4	S1
							0	A0
				1	1		2	A1
				5	5		10	A2
							0	A3
				1	1		2	A4
							0	A5
							0	A6
				1	1		2	A7
							0	A8
							0	A9
							0	A10
							0	A11
							0	B1
				1	1		2	B2
							0	B3
							0	B4
							0	B5
							0	B6
							0	B7
							0	PH1
				1	1		2	C1
							0	MLA1
							0	MLA2
							0	MLA3
							0	MLA4
							0	MLB1
							0	MLB2
					TOTAL:		24	

TOTAL UNITS SERVED = 24

SQUARE FOOTAGE	18758	SF	X	3	VA/SF	56.3 KVA
KITCHEN/LAUNDRY	4500	VA	X	24		108.0 KVA
RANGES	8000	VA	X	24		192.0 KVA
DRYERS	5000	VA	X	24		120.0 KVA
REFRIGERATOR	960	VA	X	24		23.0 KVA
DISPOSALS	800	VA	X	24		19.2 KVA
DISHWASHERS	1200	VA	X	24		28.8 KVA
MICROWAVE/HOOD	1500	VA	X	24		36.0 KVA
WATER HEATERS	0	VA	X	24		0.0 KVA
TOTAL HVAC	154502	VA				154.5 KVA
				SUBTOTAL		737.8 KVA
DEMAND FACTOR	737.8	KVA	X	35	%	258.2 KVA
HOUSE PANEL		KVA	X	100	%	0.0 KVA
N.E.C. TABLE 220-84						
TOTAL						258.2 KVA
VOLTAGE: 208/120			PHASE: 3			716.7 AMPS

FOR ANY BREAKER 1200A OR HIGHER, AN ARC-ENERGY REDUCING SWITCH SHALL BE PROVIDED.

DISTRIBUTION PANEL DP3C

BLDG FLOORS 1	2	3	4	5	6	7	# OF UNIT	UNIT NAME
		2	2				4	S1
							0	A0
		1	1				2	A1
		5	5				10	A2
							0	A3
		1	1				2	A4
							0	A5
							0	A6
		1	1				2	A7
							0	A8
							0	A9
		1					1	A10
							0	A11
							0	B1
			1				1	B2
							0	B3
							0	B4
							0	B5
		1					1	B6
							0	B7
							0	PH1
			1				1	C1
							0	MLA1
							0	MLA2
							0	MLA3
							0	MLA4
							0	MLB1
							0	MLB2
					TOTAL:		24	

TOTAL UNITS SERVED = 24

SQUARE FOOTAGE	18332	SF	X	3	VA/SF	55.0 KVA
KITCHEN/LAUNDRY	4500	VA	X	24		108.0 KVA
RANGES	8000	VA	X	24		192.0 KVA
DRYERS	5000	VA	X	24		120.0 KVA
REFRIGERATOR	960	VA	X	24		23.0 KVA
DISPOSALS	800	VA	X	24		19.2 KVA
DISHWASHERS	1200	VA	X	24		28.8 KVA
MICROWAVE/HOOD	1500	VA	X	24		36.0 KVA
WATER HEATERS	0	VA	X	24		0.0 KVA
TOTAL HVAC	151174	VA				151.2 KVA
				SUBTOTAL		733.2 KVA
DEMAND FACTOR	733.2	KVA	X	35	%	256.6 KVA
HOUSE PANEL		KVA	X	100	%	0.0 KVA
N.E.C. TABLE 220-84						
TOTAL						256.6 KVA
VOLTAGE: 208/120			PHASE: 3			712.2 AMPS

FOR ANY BREAKER 1200A OR HIGHER, AN ARC-ENERGY REDUCING SWITCH SHALL BE PROVIDED.

DISTRIBUTION PANEL DP7D

BLDG FLOORS 1	2	3	4	5	6	7	# OF UNIT	UNIT NAME
						4	4	S1
							0	A0
							0	A1
						3	3	A2
							0	A3
						1	1	A4
						1	1	A5
							0	A6
							0	A7
						1	1	A8
							0	A9
							0	A10
							0	A11
						1	1	B1
							0	B2
						1	1	B3
							0	B4
							0	B5
							0	B6
							0	B7
							0	PH1
							0	C1
							0	MLA1
							0	MLA2
							0	MLA3
							0	MLA4
							0	MLB1
							0	MLB2
					TOTAL:		12	

TOTAL UNITS SERVED = 12

SQUARE FOOTAGE	8744	SF	X	3	VA/SF	26.2 KVA
KITCHEN/LAUNDRY	4500	VA	X	12		54.0 KVA
RANGES	8000	VA	X	12		96.0 KVA
DRYERS	5000	VA	X	12		60.0 KVA
REFRIGERATOR	960	VA	X	12		11.5 KVA
DISPOSALS	800	VA	X	12		9.6 KVA
DISHWASHERS	1200	VA	X	12		14.4 KVA
MICROWAVE/HOOD	1500	VA	X	12		18.0 KVA
WATER HEATERS	0	VA	X	12		0.0 KVA
TOTAL HVAC	75525	VA				75.5 KVA
				SUBTOTAL		365.3 KVA
DEMAND FACTOR	365.3	KVA	X	41	%	149.8 KVA
HOUSE PANEL		KVA	X	100	%	0.0 KVA
N.E.C. TABLE 220-84						
TOTAL						149.8 KVA
VOLTAGE: 208/120			PHASE: 3			415.7 AMPS

FOR ANY BREAKER 1200A OR HIGHER, AN ARC-ENERGY REDUCING SWITCH SHALL BE PROVIDED.

DISTRIBUTION PANEL DP5D

BLDG FLOORS 1	2	3	4	5	6	7	# OF UNIT	UNIT NAME
			4	4			8	S1
							0	A0
							0	A1
			3	3			6	A2
							0	A3
			1	1			2	A4
			1	1			2	A5
							0	A6
							0	A7
			1	1			2	A8
							0	A9
							0	A10
							0	A11
			1	1			2	B1
							0	B2
			1	1			2	B3
							0	B4
							0	B5
							0	B6
							0	B7
							0	PH1
							0	C1
							0	MLA1
							0	MLA2
							0	MLA3
							0	MLA4
							0	MLB1
							0	MLB2
					TOTAL:		24	

TOTAL UNITS SERVED = 24

SQUARE FOOTAGE	17488	SF	X	3	VA/SF	52.5 KVA
KITCHEN/LAUNDRY	4500	VA	X	24		108.0 KVA
RANGES	8000	VA	X	24		192.0 KVA
DRYERS	5000	VA	X	24		120.0 KVA
REFRIGERATOR	960	VA	X	24		23.0 KVA
DISPOSALS	800	VA	X	24		19.2 KVA
DISHWASHERS	1200	VA	X	24		28.8 KVA
MICROWAVE/HOOD	1500	VA	X	24		36.0 KVA
WATER HEATERS	0	VA	X	24		0.0 KVA
TOTAL HVAC	151050	VA				151.0 KVA
				SUBTOTAL		730.6 KVA
DEMAND FACTOR	730.6	KVA	X	35	%	255.7 KVA
HOUSE PANEL		KVA	X	100	%	0.0 KVA
N.E.C. TABLE 220-84						
TOTAL						255.7 KVA
VOLTAGE: 208/120			PHASE: 3			709.7 AMPS

FOR ANY BREAKER 1200A OR HIGHER, AN ARC-ENERGY REDUCING SWITCH SHALL BE PROVIDED.

DISTRIBUTION PANEL DP3D

BLDG FLOORS 1	2	3	4	5	6	7	# OF UNIT	UNIT NAME
			4	4			8	S1
							0	A0
							0	A1
			3	3			6	A2
							0	A3
			1	1			2	A4
			1	1			2	A5
							0	A6
							0	A7
			1	1			2	A8
			1				1	A9
							0	A10
							0	A11
				1			1	B1
							0	B2
			1	1			2	B3
							0	B4
							0	B5
							0	B6
							0	B7
							0	PH1
							0	C1
							0	MLA1
							0	MLA2
							0	MLA3
							0	MLA4
							0	MLB1
							0	MLB2
					TOTAL:		24	

TOTAL UNITS SERVED = 24

SQUARE FOOTAGE	17381	SF	X	3	VA/SF	52.1 KVA
KITCHEN/LAUNDRY	4500	VA	X	24		108.0 KVA
RANGES	8000	VA	X	24		192.0 KVA
DRYERS	5000	VA	X	24		120.0 KVA
REFRIGERATOR	960	VA	X	24		23.0 KVA
DISPOSALS	800	VA	X	24		19.2 KVA
DISHWASHERS	1200	VA	X	24		28.8 KVA
MICROWAVE/HOOD	1500	VA	X	24		36.0 KVA
WATER HEATERS	0	VA	X	24		0.0 KVA
TOTAL HVAC	151050	VA				151.0 KVA
				SUBTOTAL		730.2 KVA
DEMAND FACTOR	730.2	KVA	X	35	%	255.6 KVA
HOUSE PANEL		KVA	X	100	%	0.0 KVA
N.E.C. TABLE 220-84						
TOTAL						255.6 KVA
VOLTAGE: 208/120			PHASE: 3			709.4 AMPS

FOR ANY BREAKER 1200A OR HIGHER, AN ARC-ENERGY REDUCING SWITCH SHALL BE PROVIDED.

JSE Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED MARK W. BINGHAM 41442 PROFESSIONAL ENGINEER 10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
16900 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.: 22035

X	NOT FOR CONSTRUCTION
	ISSUED FOR PRICING
	ISSUED FOR PERMIT
	ISSUED FOR CONSTRUCTION

SHEET TITLE:
DWELLING CALCULATIONS

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BRANCH PANEL: L4A

LOCATION: ELEC 4B 644
SUPPLY FROM: L1A
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MLO
PANEL RATING: 600 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		20 A/1	LTG- LVL 3	1.4														0.1	1.1		REC - LVL 3 A	20 A/1		2
3		20 A/1	LTG- LVL 4	1.2															0.7		REC - LVL 3 B	20 A/1		4
5		20 A/1	LTG- LVL 5	1.1										1.0				0.1	1.1		REC- LVL 4 A	20 A/1		6
7																		0.1	1.1		RCPT- LVL 5	20 A/1		8
9																								10
11		40 A/2	AH-CR LVL 4					4.1																12
13	--	--	--					4.1																14
15		40 A/2	AH-CR LVL 5					4.1																16
17	--	--	--					4.1																18
19																								20
21																								22
23		20 A/1	TERRACE RCPT/IGNITION		0.4					0.3														24
25																								26
27		25 A/2	ECH-A LVL 3					1.6																28
29	--	--	--					1.6																30
31		25 A/2	EWH-A LVL 3					1.6																32
33	--	--	--					1.6																34
35		25 A/2	DFH/DHP ER3B LVL3				1.5																	36
37	--	--	--				1.5																	38
39		25 A/2	DFH/DHP ER-5B LVL5				1.5																	40
41	--	--	--				1.5																	42
			TOTAL:	**LITES**	**RCPT**	**MTR**	**A/C**	**HEAT**	**KTCH**	**MISC**				**TOTAL:**		**PHASE A**		**PHASE B**		**PHASE C**				
				6.0	7.6	1.5	26.4	38.8		1.3						25.7		23.1		32.8				

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	5987 VA	7484 VA		
RCPT	- RECEPTACLES:	7560 VA	7560 VA	**TOTAL CONNECTED LOAD (KVA):**	81.6
MTR	- MOTORS:	1500 VA	1750 VA	**TOTAL DEMAND LOAD (KVA):**	83.3
AC	- A/C:	26435 VA	26435 VA	**TOTAL CONNECTED LOAD (AMPS):**	226.4
HEAT	- HEATING:	38840 VA	38840 VA	**TOTAL DEMAND LOAD (AMPS):**	231.3
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	1250 VA	1250 VA	**AMPACITY REQUIRED:**	231 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

BRANCH PANEL: H1A

LOCATION: ELEC 1A 458
SUPPLY FROM: MS1B
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 480/277 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 42K
MAIN TYPE: MLO
PANEL RATING: 400 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		225 A/3	T-L1A	1.9	8.5	2.7	12.3	38.1		0.1														2
3	--	--	--	4.3	7.9	1.3	10.6	33.7		0.0														4
5	--	--	--	3.1	6.2	0.7	13.2	48.0		1.3														6
7	FUSE	70 A/3	ELEVATOR 1			6.1				0.0														8
9	--	--	--			6.1				0.0														10
11	--	--	--			6.1				0.0														12
13		20 A/3	COMPACTOR			1.4															SPACE	/1	--	14
15	--	--	--			1.4															SPACE	/1	--	16
17	--	--	--			1.4															SPACE	/1	--	18
19		20 A/3	EPH-A X4 LVL 2 N				4.3														SPACE	/1	--	20
21	--	--	--				4.3														SPACE	/1	--	22
23	--	--	--				4.3														SPACE	/1	--	24
25		20 A/3	EPH-A X4 LVL 2 S				4.3														SPACE	/1	--	26
27	--	--	--				4.3														SPACE	/1	--	28
29	--	--	--				4.3														SPACE	/1	--	30
31		20 A/3	EPH-A X3 LVL 2 S				3.3														SPACE	/1	--	32
33	--	--	--				3.3														SPACE	/1	--	34
35	--	--	--				3.3														SPACE	/1	--	36
37	--	/1	SPACE																		SPACE	/1	--	38
39	--	/1	SPACE																		SPACE	/1	--	40
41	--	/1	SPACE																		SPACE	/1	--	42
			TOTAL:	**LITES**	**RCPT**	**MTR**	**A/C**	**HEAT**	**KTCH**	**MISC**				**TOTAL:**		**PHASE A**		**PHASE B**		**PHASE C**				
				9.4	22.6	27.3	36.2	155.7		1.4						83.2		78.2		92.0				

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	9387 VA	11734 VA		
RCPT	- RECEPTACLES:	22620 VA	16310 VA	**TOTAL CONNECTED LOAD (KVA):**	253.4
MTR	- MOTORS:	27322 VA	31917 VA	**TOTAL DEMAND LOAD (KVA):**	254.0
AC	- A/C:	36211 VA	36211 VA	**TOTAL CONNECTED LOAD (AMPS):**	304.8
HEAT	- HEATING:	155670 VA	155670 VA	**TOTAL DEMAND LOAD (AMPS):**	305.6
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	1350 VA	1350 VA	**AMPACITY REQUIRED:**	305 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

BRANCH PANEL: L6A

LOCATION: ELEC 6B 489
SUPPLY FROM: L4A
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MLO
PANEL RATING: 600 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		20 A/1	RCPT- ROOF		0.9												1.1				HP-CR ROOF	15 A/2		2
3		20 A/1	LTG- LVL 6	1.1													1.1				--	--	--	4
5		20 A/1	LTG- LVL 7	1.2													3.2				HP-SL ROOF	50 A/2		6
7		20 A/1	RCPT- LVL 7		1.1	1.1											3.2				--	--	--	8
9		20 A/1	RCPT- LVL 6		1.3	0.1															SPACE	/1	--	10
11		40 A/2	AH-CR LVL 6					4.1													SPACE	/1	--	12
13	--	--	--					4.1													SPACE	/1	--	14
15		40 A/2	AH-CR LVL 7					4.1													SPACE	/1	--	16
17	--	--	--					4.1													SPACE	/1	--	18
19		20 A/1	ROOF EXHAUST			0.1															SPACE	/1	--	20
21		25 A/2	DFH/DHP ER-7A LVL7				1.5														SPACE	/1	--	22
23	--	--	--				1.5														SPACE	/1	--	24
25		15 A/2	HP-CR ROOF				1.1														SPACE	/1	--	26
27	--	--	--				1.1														SPACE	/1	--	28
29		15 A/2	HP-CR ROOF				1.1														SPACE	/1	--	30
31	--	--	--				1.1																	32
33		15 A/2	HP-CR ROOF				1.1																	34
35	--	--	--				1.1																	36
37		15 A/2	HP-CR ROOF				1.1																	38
39	--	--	--				1.1																	40
41	--	/1	SPACE																					42
			TOTAL:	**LITES**	**RCPT**	**MTR**	**A/C**	**HEAT**	**KTCH**	**MISC**				**TOTAL:**		**PHASE A**		**PHASE B**		**PHASE C**				
				2.3	3.2	1.3	20.4	16.2		0.0						14.8		12.4		16.2				

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	2324 VA	2905 VA		
RCPT	- RECEPTACLES:	3240 VA	3240 VA	**TOTAL CONNECTED LOAD (KVA):**	43.5
MTR	- MOTORS:	1250 VA	1500 VA	**TOTAL DEMAND LOAD (KVA):**	44.3
AC	- A/C:	20445 VA	20445 VA	**TOTAL CONNECTED LOAD (AMPS):**	120.7
HEAT	- HEATING:	16220 VA	16220 VA	**TOTAL DEMAND LOAD (AMPS):**	123.0
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	0 VA	0 VA	**AMPACITY REQUIRED:**	123 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

BRANCH PANEL: L1A

LOCATION: ELEC 1A 458
SUPPLY FROM: T-L1A
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MCB
MCB RATING: 600 A
PANEL RATING: 600 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		20 A/1	LTG- STAIR A	0.6															0.9		RCPT- TR/MAIL	20 A/1		2
3		20 A/1	LTG- LVL 1/2 BIKE/POOL/BOH	0.8															0.9		RCPT- LEASE LVL 1	20 A/1		4
5		20 A/1	LTG- ELEV 1	0.1															0.5		RCPT- LEASE LVL 1	20 A/1		6
7		20 A/1	TRASH CHUTE/ODOR...			0.4				0.1									0.1	0.4	RCPT/EXHAUST- RR	20 A/1		8
9	GFCI	20 A/1	RCPT- BC COFFEE LVL 2		1.2															1.5	RCPT- MICROWAVE LVL 1	20 A/1		10
11		20 A/1	RCPT- BIKE STORAGE LVL 2		0.2	0.2														0.4	RCPT- FRIDGE LVL 1	20 A/1		12
13		20 A/1	RCPT- POOL EQUIP/GRG		0.4	0.1														0.8	RCPT- DISPOSAL LVL 1	20 A/1	GFCI	14
15		20 A/1	ELEV 1 INTERIOR																	0.2	RCPT- COUNTER LVL 1	20 A/1		16
17		20 A/2	SUMP PUMP			0.5														0.4	RCPT- ELEV 1	20 A/1		18
19	--	--	--			0.5														0.9	RCPT- BC 1 LVL 2	20 A/1		20
21		20 A/1	LTG- LEASE LOBBY LVL 2	1.2																0.7	RCPT- BC 2 LVL 2	20 A/1		22
23		20 A/1	LITES- LEASE/MAIL LVL1	0.7																1.3	RCPT- BC 3 LVL 2	20 A/1		24
25		25 A/2	DFH/DHP ER1A LVL1			1.6													0.1	1.1	RCPT-BC RR/CORR LVL 2	20 A/1		26
27	--	--	--			1.6														1.1	RCPT-BC PODS LVL 2	20 A/1		28
29		20 A/2	DFH/DHP EL-1 LVL1			1.7										9.5					AH-LEASE	100 A/2		30
31	--	--	--			1.7										9.5					--	--	--	32
33		20 A/2	DFH/DHP EL-2 LVL2			1.7										5.2					AH - ML LVL 1	60 A/2		34
35	--	--	--			1.7										5.2					--	--	--	36
37		20 A/1	EF-PE LVL2				0.4									7.7					AH - BC LVL 1	100 A/2		38
39	--	/1	SPACE													7.7					--	--	--	40
41		25 A/2	EUH-D				3.1									2.0					EWH-A LVL 1 B	30 A/2		42
43	--	--	--				3.1									2.0					--	--	--	44
45		20 A/1	TR ROOM ROLLING DOOR			1.2										2.0					EWH-A LVL 1	30 A/2		46
47		20 A/1	RCPT- GARAGE LVL 2		1.6											2.0					--	--	--	48
49		20 A/1	LOUVERS LEVEL 2			0.2										1.1					DFH/DHP- AV LVL2	50 A/2		50
51		20 A/1	RCPT- AV LVL 2		0.4											1.1					--	--	--	52
53		20 A/1	RCPT- MICROWAVE LVL 1		0.4											2.0					EWH - A LVL 2 A	25 A/2		54
55		55 A/3	EUH-C LVL2				2.6									2.0					--	--	--	56
57	--	--	--				2.6									3.8					EUH-D	50 A/2		58
59	--	--	--				2.6									3.8					--	--	--	60
61																					20A/1P SPARE	20 A/1	--	62
63																					20A/1P SPARE	20 A/1	--	64
65																					20A/1P SPARE	20 A/1	--	66
67																					20A/1P SPARE	20 A/1	--	68
69																					20A/1P SPARE	20 A/1	--	70
71																					20A/1P SPARE	20 A/1	--	72
73	--	/1	SPACE																		20A/1P SPARE	20 A/1	--	74
75	--	/1	SPACE																		20A/1P SPARE	20 A/1	--	76
77	--	/1	SPACE																		20A/1P SPARE	20 A/1	--	78
79	--	/1	SPACE																		20A/1P SPARE	20 A/1	--	80
81	--	/1	SPACE																		20A/1P SPARE	20 A/1	--	82
83	--	/1	SPACE																		20A/1P SPARE	20 A/1	--	84
			TOTAL:	**LITES**	**RCPT**	**MTR**	**A/C**	**HEAT**	**KTCH**	**MISC**				**TOTAL:**		**PHASE A**		**PHASE B**		**PHASE C**				
				9.4	22.6	4.7	36.2	119.8		1.4						63.7		58.7		72.5				

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	9387 VA	11734 VA		
RCPT	- RECEPTACLES:	22620 VA	16310 VA	**TOTAL CONNECTED LOAD (KVA):**	194.9
MTR	- MOTORS:	4660 VA	4960 VA	**TOTAL DEMAND LOAD (KVA):**	191.2
AC	- A/C:	36211 VA	36211 VA	**TOTAL CONNECTED LOAD (AMPS):**	540.9
HEAT	- HEATING:	119810 VA	119810 VA	**TOTAL DEMAND LOAD (AMPS):**	530.8
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	1350 VA	1350 VA	**AMPACITY REQUIRED:**	528 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. BINDER
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
16800 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.:	22035
X	NOT FOR CONSTRUCTION
	ISSUED FOR PRICING
	ISSUED FOR PERMIT
	ISSUED FOR CONSTRUCTION

SHEET TITLE:

PANEL SCHEDULES

DRAWING NO.
E0.11

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10/21/2024 7:01:30 AM
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BRANCH PANEL: L4B

LOCATION: ELEC 4C 624
SUPPLY FROM: L1B
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MLO
PANEL RATING: 600 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		20 A/1	LTG- LVL 3	0.8										0.1					1.4		REC - LVL 3 A	20 A/1		2
3		20 A/1	LTG- LVL 4	0.7														0.1	0.7		REC - LVL 3 B	20 A/1		4
5		20 A/1	LTG- LVL 5	0.7														0.1	1.3		REC - LVL 4 A	20 A/1		6
7		20 A/1	RCPT- RR/MAINT LVL 4		0.4	0.1												0.1	0.9		REC - LVL 4 B	20 A/1		8
9		20 A/1	RCPT- LVL 5		0.5	0.1												0.1	1.3		REC - LVL 5	20 A/1		10
11		40 A/2	AH-CR LVL 3					4.1									1.2				DFH/DHP IDF 3B LVL3	20 A/2		12
13	--	--	--					4.1									1.2				--	--	--	14
15		40 A/2	AH-CR LVL 4					4.1									1.5				DFH/DHP ER-5C LVL5	25 A/2		16
17	--	--	--					4.1									1.5				--	--	--	18
19		40 A/2	AH-CR LVL 5					4.1									1.2				DFH/DHP IDF-5B LVL5	25 A/2		20
21	--	--	--					4.1									1.2				--	--	--	22
23		25 A/2	ECH-A LVL 3				1.6												0.4		RCPT- IDF LVL 4	20 A/1		24
25	--	--	--				1.6												0.4		RCPT- IDF LVL 4	20 A/1		26
27		20 A/2	DFH/DHP ER-3C LVL3				1.5												0.4		RCPT- IDF LVL 3	20 A/1		28
29	--	--	--				1.5												0.4		RCPT- IDF LVL 3	20 A/1		30
31		25 A/2	EWH-A LVL 3					1.6											0.4		RCPT- IDF LVL 5	20 A/1		32
33	--	--	--					1.6											0.4		RCPT- IDF LVL 5	20 A/1		34
35		25 A/2	EWH-A					1.6												0.7	LITES- TERRACE	20 A/1		36
37	--	--	--					1.6																38
39		20 A/2	DFH/DHP IDF 4B LVL 4				1.2																	40
41	--	--	--				1.2																	42
			TOTAL:	**LITES**	**RCPT**	**MTR**	**A/C**	**HEAT**	**KTCH**	**MISC**				**TOTAL:**		**PHASE A**		**PHASE B**		**PHASE C**				
				4.1	15.1	0.6	24.5	47.0		0.1						30.3		32.4		28.9				

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	4106 VA	5132 VA		
RCPT	- RECEPTACLES:	15120 VA	12560 VA	**TOTAL CONNECTED LOAD (KVA):**	91.5
MTR	- MOTORS:	550 VA	563 VA	**TOTAL DEMAND LOAD (KVA):**	90.0
AC	- A/C:	24535 VA	24535 VA	**TOTAL CONNECTED LOAD (AMPS):**	254.0
HEAT	- HEATING:	46950 VA	46950 VA	**TOTAL DEMAND LOAD (AMPS):**	249.8
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	50 VA	50 VA	**AMPACITY REQUIRED:**	249 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

BRANCH PANEL: H1B

LOCATION:
SUPPLY FROM: MS1B
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 480/277 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING:
MAIN TYPE: MLO
PANEL RATING: 400 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		225 A/3	T-L1B	1.4	8.6	8.9	11.7	19.0		0.1								1.9			GEF-2A LVL 2	15 A/3		2
3	--	--	--	1.7	5.8	4.2	13.4	23.9		1.3								1.9			--	--	--	4
5	--	--	--	2.4	6.1	4.6	15.0	20.3		0.1								1.9			--	--	--	6
7		20 A/1	LTG- GRG LVL 1	3.5												4.3					EPH-A X4 LVL 2 CENTRAL	20 A/3		8
9		20 A/1	LTG- GRG LVL 2	3.7												4.3					--	--	--	10
11		20 A/3	EPH-A X4 LVL 2 CENTRAL					4.3								4.3					--	--	--	12
13	--	--	--					4.3								4.3					EPH-A X4 LVL 2 CENTRAL	20 A/3		14
15	--	--	--					4.3								4.3					--	--	--	16
17		20 A/3	COMPACTOR- TR ROOM 1			1.4										4.3					--	--	--	18
19	--	--	--			1.4															SPACE	/1	--	20
21	--	--	--			1.4															SPACE	/1	--	22
23		20 A/3	GEF-1 LVL 1				5.5														SPACE	/1	--	24
25	--	--	--				5.5														SPACE	/1	--	26
27	--	--	--				5.5														SPACE	/1	--	28
29		15 A/3	GEF-2C LVL 2			1.9															SPACE	/1	--	30
31	--	--	--			1.9															SPACE	/1	--	32
33	--	--	--			1.9															SPACE	/1	--	34
35		15 A/3	GEF-2B LVL 2			1.9															SPACE	/1	--	36
37	--	--	--			1.9																		38
39	--	--	--			1.9																		40
41	--	/1	SPACE																					42
			TOTAL:	**LITES**	**RCPT**	**MTR**	**A/C**	**HEAT**	**KTCH**	**MISC**				**TOTAL:**		**PHASE A**		**PHASE B**		**PHASE C**				
				12.6	20.5	38.6	56.6	102.3		1.4						80.2		80.6		75.7				

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	12631 VA	15788 VA		
RCPT	- RECEPTACLES:	20520 VA	15260 VA	**TOTAL CONNECTED LOAD (KVA):**	236.5
MTR	- MOTORS:	38600 VA	39988 VA	**TOTAL DEMAND LOAD (KVA):**	235.8
AC	- A/C:	56557 VA	56557 VA	**TOTAL CONNECTED LOAD (AMPS):**	284.4
HEAT	- HEATING:	102270 VA	102270 VA	**TOTAL DEMAND LOAD (AMPS):**	283.6
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	1400 VA	1400 VA	**AMPACITY REQUIRED:**	278 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

BRANCH PANEL: L6B

LOCATION: ELEC 6C 488
SUPPLY FROM: L4B
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MLO
PANEL RATING: 600 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		20 A/1	REC - LVL 6		1.3	0.1													0.4		RCPT- IDF LVL 6	20 A/1		2
3		20 A/1	LTG- LVL 6	0.7																	20A/1P SPARE	20 A/1	--	4
5		20 A/1	LTG- LVL 7	0.7																	20A/1P SPARE	20 A/1	--	6
7		20 A/1	REC - LVL 7		1.1	0.1															20A/1P SPARE	20 A/1	--	8
9		20 A/1	REC - ROOF B		1.3																20A/1P SPARE	20 A/1	--	10
11		20 A/1	RCPT- LVL 6		0.7	0.1															20A/1P SPARE	20 A/1	--	12
13		20 A/1	RCPT- LVL 7		0.7	0.1															20A/1P SPARE	20 A/1	--	14
15		40 A/2	AH-CR LVL 6					4.1													20A/1P SPARE	20 A/1	--	16
17	--	--	--					4.1													20A/1P SPARE	20 A/1	--	18
19		40 A/2	AH-CR LVL 7					4.1													20A/1P SPARE	20 A/1	--	20
21	--	--	--					4.1													20A/1P SPARE	20 A/1	--	22
23																					20A/1P SPARE	20 A/1	--	24
25		20 A/2	DFH/DHP IDF-6B LVL6				1.2														20A/1P SPARE	20 A/1	--	26
27	--	--	--				1.2														20A/1P SPARE	20 A/1	--	28
29		20 A/2	DFH/DHP IDF 7B LVL7				1.2														20A/1P SPARE	20 A/1	--	30
31	--	--	--				1.2																	32
33		25 A/2	DFH/DHP ER-7B LVL7				1.5																	34
35	--	--	--				1.5																	36
37		20 A/1	RCPT- IDF LVL 6		0.4																			38
39		20 A/1	RCPT- IDF LVL 6		0.4																			40
41		20 A/1	RCPT- IDF LVL6		0.4																			42
			TOTAL:	**LITES**	**RCPT**	**MTR**	**A/C**	**HEAT**	**KTCH**	**MISC**				**TOTAL:**		**PHASE A**		**PHASE B**		**PHASE C**				
				1.3	6.5	0.2	8.0	16.2		0.0						10.5		13.1		8.6				

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	1314 VA	1643 VA		
RCPT	- RECEPTACLES:	6480 VA	6480 VA	**TOTAL CONNECTED LOAD (KVA):**	32.2
MTR	- MOTORS:	200 VA	213 VA	**TOTAL DEMAND LOAD (KVA):**	32.5
AC	- A/C:	7975 VA	7975 VA	**TOTAL CONNECTED LOAD (AMPS):**	89.3
HEAT	- HEATING:	16220 VA	16220 VA	**TOTAL DEMAND LOAD (AMPS):**	90.3
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	0 VA	0 VA	**AMPACITY REQUIRED:**	90 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

BRANCH PANEL: L1B

LOCATION:
SUPPLY FROM: T-L1B
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MCB
MCB RATING: 500 A
PANEL RATING: 600 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		20 A/1	LTG- STAIR B	0.6														1.4			EXIT GATE LVL 1	20 A/2		2
3		20 A/1	LTG- MAIN ELEC RM	0.4														1.4			--	--	--	4
5		30 A/2	EWH - A LVL 1 B															1.4			ENTRY GATE LVL 1	20 A/2		6
7	--	--	--					2.0										1.4			--	--	--	8
9		60 A/2	EUH - C LVL 1					4.5						1.3							GATE CALL...	20 A/1		10
11	--	--	--					4.5									2.6				DFH/DHP MER-1A LVL 1	30 A/2		12
13		20 A/1	EF-SE			0.5											2.6				--	--	--	14
15																	2.6				DFH/DHP MER-1B LVL 1	30 A/2		16
17		20 A/1	RCPT- ELEC/TR RM		0.7	0.1											2.6				--	--	--	18
19		20 A/1	RCPT- MDF 1		0.4												2.6				DFH/DHP MER-1C LVL 1	30 A/2		20
21		20 A/1	RCPT- MDF 2		0.4												2.6				--	--	--	22
23		20 A/1	RCPT- MDF 3		0.4														1.6		RCPT- GRG LVL 2	20 A/1		24
25		20 A/1	RCPT- MDF 4		0.4														0.7		RCPT- GRG LVL 2	20 A/1		26
27		20 A/1	RCPT- MDF 5		0.4														0.2		RCPT- SPA EQUIP RM LVL2	20 A/1		28
29		20 A/1	RCPT- MDF 6		0.4															0.4	LTG- LVL 1/2	20 A/1		30
31		30 A/2	DFH/DHP-MDF			2.6											1.6				EWH-A LVL2	30 A/2		32
33	--	--	--			2.6											1.6				--	--	--	34
35		30 A/2	DFH/DHP-MT			2.6															EUH-A LVL2	25 A/2		36
37	--	--	--			2.6															--	--	--	38
39		20 A/1	LOADING DOCK GARAGE...																					40
41		20 A/1	TRASH CHUTE/ODOR...			0.4				0.1														42
			TOTAL:	**LITES**	**RCPT**	**MTR**	**A/C**	**HEAT**	**KTCH**	**MISC**				**TOTAL:**		**PHASE A**		**PHASE B**		**PHASE C**				
				5.5	20.5	17.7	40.1	63.2		1.4						51.2		51.4		50.2				

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	5471 VA	6838 VA		
RCPT	- RECEPTACLES:	20520 VA	15260 VA	**TOTAL CONNECTED LOAD (KVA):**	152.8
MTR	- MOTORS:	17660 VA	18960 VA	**TOTAL DEMAND LOAD (KVA):**	150.3
AC	- A/C:	40135 VA	40135 VA	**TOTAL CONNECTED LOAD (AMPS):**	424.2
HEAT	- HEATING:	63150 VA	63150 VA	**TOTAL DEMAND LOAD (AMPS):**	417.1
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	1400 VA	1400 VA	**AMPACITY REQUIRED:**	405 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

COLORADO LICENSED
MARK W. BINDER
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
16000 Memorial Drive
Suite 170
Houston, Texas 77079
281.558.8787

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GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.: 22035

X	NOT FOR CONSTRUCTION
	ISSUED FOR PRICING
	ISSUED FOR PERMIT
	ISSUED FOR CONSTRUCTION

SHEET TITLE:

PANEL SCHEDULES

DRAWING NO.

E0.12

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

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BRANCH PANEL: L4C

LOCATION: ELEC 4E 415
SUPPLY FROM: L1C
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MLO
MCB RATING: 500 A
PANEL RATING: 600 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		20 A/1	LTG- LVL 3	0.5														0.1	1.1		REC - LVL 3	20 A/1		2
3		20 A/1	LTG- LVL 4	0.5														0.1	1.1		REC - LVL 4	20 A/1		4
5		20 A/1	LTG- LVL 5	0.5														0.1	0.9		REC - LVL 5	20 A/1		6
7		40 A/2	AH-CR LVL 3					4.1													20A/1P SPARE	20 A/1	--	8
9	--	--	--					4.1													20A/1P SPARE	20 A/1	--	10
11		40 A/2	AH-CR LVL 4					4.1													20A/1P SPARE	20 A/1	--	12
13	--	--	--					4.1													20A/1P SPARE	20 A/1	--	14
15		40 A/2	AH-CR LVL 5					4.1													20A/1P SPARE	20 A/1	--	16
17	--	--	--					4.1													20A/1P SPARE	20 A/1	--	18
19		40 A/2	AH-CR LVL 5					3.0													20A/1P SPARE	20 A/1	--	20
21	--	--	--					3.0													20A/1P SPARE	20 A/1	--	22
23		25 A/2	DFH/DHP ER-3D LVL 3				1.5														20A/1P SPARE	20 A/1	--	24
25	--	--	--				1.5														20A/1P SPARE	20 A/1	--	26
27		25 A/2	EWH-A					1.6													20A/1P SPARE	20 A/1	--	28
29	--	--	--					1.6													20A/1P SPARE	20 A/1	--	30
31		25 A/2	DFH/DHP ER-5D LVL 5				1.5												0.4		RCPT- IDF LVL3	20 A/1		32
33	--	--	--				1.5												0.4		RCPT- IDF LVL4	20 A/1		34
35		20 A/1	LITES- TERRACE	0.0															0.4		RCPT- IDF LVL4	20 A/1		36
37		30 A/1	SAUNA							2.3														38
39		20 A/1	MISC							2.3														40
41		20 A/1	RCPT- IDF LVL3		0.4																			42

TOTAL:	LITES	RCPT	MTR	A/C	HEAT	KTCH	MISC
	2.4	6.8	0.2	22.2	63.5		4.6

TOTAL:	PHASE A	PHASE B	PHASE C
	38.3	32.8	28.6

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	2350 VA	2938 VA		
RCPT	- RECEPTACLES:	6840 VA	6840 VA	TOTAL CONNECTED LOAD (KVA):	99.7
MTR	- MOTORS:	200 VA	213 VA	TOTAL DEMAND LOAD (KVA):	100.3
AC	- A/C:	22185 VA	22185 VA	TOTAL CONNECTED LOAD (AMPS):	276.9
HEAT	- HEATING:	63468 VA	63468 VA	TOTAL DEMAND LOAD (AMPS):	278.5
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	4550 VA	4550 VA	AMPACITY REQUIRED:	278 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

BRANCH PANEL: H1C

LOCATION: MAINT. OFFICE 1001
SUPPLY FROM: MS1B
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 480/277 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING:
MAIN TYPE: MLO
PANEL RATING: 600 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		225 A/3	T-L1C	2.4	4.1	1.7	9.9	30.9		2.3											SPACE	/1	--	2
3	--	--	--	1.1	4.0	2.0	6.1	37.7		2.3											SPACE	/1	--	4
5	--	--	--	1.6	3.4	0.1	7.4	31.6		0.0											SPACE	/1	--	6
7	FUSE	70 A/3	ELEVATOR 2			6.1															SPACE	/1	--	8
9	--	--	--			6.1															SPACE	/1	--	10
11	--	--	--			6.1															SPACE	/1	--	12
13		60 A/3	BP-1			12.9															SPACE	/1	--	14
15	--	--	--			12.9															SPACE	/1	--	16
17	--	--	--			12.9															SPACE	/1	--	18
19	--	/1	SPACE																		SPACE	/1	--	20
21	--	/1	SPACE																		SPACE	/1	--	22
23	--	/1	SPACE																		SPACE	/1	--	24
25	--	/1	SPACE																		SPACE	/1	--	26
27	--	/1	SPACE																		SPACE	/1	--	28
29	--	/1	SPACE																		SPACE	/1	--	30
31	--	/1	SPACE																		SPACE	/1	--	32
33	--	/1	SPACE																		SPACE	/1	--	34
35	--	/1	SPACE																		SPACE	/1	--	36
37	--	/1	SPACE																		SPACE	/1	--	38
39	--	/1	SPACE																		SPACE	/1	--	40
41	--	/1	SPACE																		SPACE	/1	--	42

TOTAL:	LITES	RCPT	MTR	A/C	HEAT	KTCH	MISC
	5.1	11.5	61.0	23.4	100.2		4.6

TOTAL:	PHASE A	PHASE B	PHASE C
	74.4	76.5	71.7

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	5138 VA	6423 VA		
RCPT	- RECEPTACLES:	11520 VA	10760 VA	TOTAL CONNECTED LOAD (KVA):	222.5
MTR	- MOTORS:	60966 VA	70656 VA	TOTAL DEMAND LOAD (KVA):	232.8
AC	- A/C:	23435 VA	23435 VA	TOTAL CONNECTED LOAD (AMPS):	267.7
HEAT	- HEATING:	100178 VA	100178 VA	TOTAL DEMAND LOAD (AMPS):	280.0
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	4550 VA	4550 VA	AMPACITY REQUIRED:	260 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

BRANCH PANEL: L6C

LOCATION: ELEC 6E 437
SUPPLY FROM: L4C
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MLO
PANEL RATING: 600 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		20 A/1	LTG- LVL 6	0.5										0.1					0.9		REC - LVL 6	20 A/1		2
3		20 A/1	LTG- LVL 7	0.5														0.1	0.9		REC - LVL 7	20 A/1		4
5		20 A/1	RCPT- ROOF		0.5												1.1				HP-CR ROOF	20 A/2		6
7		40 A/2	AH-CR LVL 6					4.1									1.1				--	--	--	8
9	--	--	--					4.1													20A/1P SPARE	20 A/1	--	10
11		40 A/2	AH-CR LVL 7					4.1													20A/1P SPARE	20 A/1	--	12
13	--	--	--					4.1													20A/1P SPARE	20 A/1	--	14
15																					20A/1P SPARE	20 A/1	--	16
17		25 A/2	DFH/DHP ER-7C LVL 7				1.5														20A/1P SPARE	20 A/1	--	18
19	--	--	--				1.5														20A/1P SPARE	20 A/1	--	20
21		15 A/2	HP- CR ROOF				1.1														20A/1P SPARE	20 A/1	--	22
23	--	--	--				1.1														20A/1P SPARE	20 A/1	--	24
25		15 A/2	HP- CR ROOF				1.1														20A/1P SPARE	20 A/1	--	26
27	--	--	--				1.1														20A/1P SPARE	20 A/1	--	28
29		15 A/2	HP-CR ROOF				1.1														20A/1P SPARE	20 A/1	--	30
31	--	--	--				1.1									4.6					RTU-H2	60 A/3		32
33		15 A/2	HP- CR ROOF				1.1									4.6					--	--	--	34
35	--	--	--				1.1									4.6					--	--	--	36
37		20 A/2	HP-CR ROOF				1.1																	38
39	--	--	--				1.1																	40
41																								42

TOTAL:	LITES	RCPT	MTR	A/C	HEAT	KTCH	MISC
	0.9	2.3	0.1	16.2	30.0		0.1

TOTAL:	PHASE A	PHASE B	PHASE C
	20.0	14.5	15.1

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	916 VA	1145 VA		
RCPT	- RECEPTACLES:	2340 VA	2340 VA	TOTAL CONNECTED LOAD (KVA):	49.6
MTR	- MOTORS:	50 VA	63 VA	TOTAL DEMAND LOAD (KVA):	49.8
AC	- A/C:	16195 VA	16195 VA	TOTAL CONNECTED LOAD (AMPS):	137.6
HEAT	- HEATING:	30010 VA	30010 VA	TOTAL DEMAND LOAD (AMPS):	138.2
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	50 VA	50 VA	AMPACITY REQUIRED:	138 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

BRANCH PANEL: L1C

LOCATION: ELEC 0A 452
SUPPLY FROM: T-L1C
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MCB
MCB RATING: 500 A
PANEL RATING: 600 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		20 A/1	LTG- STAIR C	0.6																0.1	LTG- ELEV 2	20 A/1		2
3		20 A/1	LTG- STAIR D	0.2															0.4		RCPT- ELEV 2	20 A/1		4
5		20 A/1	LTG- MAINT/TEAL/PUMP	0.5															0.5		RCPT- MAINT RM LVL 1	20 A/1		6
7		15 A/1	EF-PR LVL 1				1.0												0.5		RCPT- MAINT RM LVL 1	20 A/1		8
9		15 A/1	EF-LD LVL 1				0.3												0.2	0.2	RCPT- PUMP RM DEDI LVL 1	20 A/1		10
11		30 A/2	EWH - A LVL 1 C					2.0													AH-CR LVL 1	40 A/2		12
13	--	--	--					2.0													--	--	--	14
15		30 A/2	EWH - A LVL 1					2.0													SUMP PUMP	20 A/2		16
17	--	--	--					2.0													--	--	--	18
19		20 A/2	EUH - A LVL 1 D					1.5											1.7		CIRC PUMPS LVL 1	20 A/2		20
21	--	--	--					1.5											1.7		--	--	--	22
23		20 A/1	RCPT- DEDI BOIL ROOM		0.2														0.0		BACKUP CIRC PUMP LVL 1	20 A/2		24
25		20 A/1	RCPT-LVL 1		1.1														0.0		--	--	--	26
27		65 A/2	EUH - B LVL 1					5.3										4.1			AH-CR LVL 2	50 A/2		28
29	--	--	--					5.3										4.1			--	--	--	30
31		30 A/2	EWH - A LVL 1 E					2.0										1.6			EWH-A LVL 2	30 A/2		32
33	--	--	--					2.0										1.6			--	--	--	34
35		20 A/1	LTG- LVL 1	0.6															0.1	0.2	RCPT- DOG WASH	20 A/1		36
37		20 A/1	LTG- LVL 2	0.8																0.2	RCPT- DOG DRYER	20 A/1		38
39		20 A/1	RCPT- LVL 2		1.1	0.1															EUH-D LVL 2	20 A/2		40
41		20 A/1	RCPT- BIKE LVL 2		0.4																--	--	--	42

TOTAL:	LITES	RCPT	MTR	A/C	HEAT	KTCH	MISC
	5.1	11.5	3.8	23.4	100.2		4.6

TOTAL:	PHASE A	PHASE B	PHASE C
	55.4	57.4	52.6

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	5138 VA	6423 VA		
RCPT	- RECEPTACLES:	11520 VA	10760 VA	TOTAL CONNECTED LOAD (KVA):	165.4
MTR	- MOTORS:	3828 VA	4660 VA	TOTAL DEMAND LOAD (KVA):	166.8
AC	- A/C:	23435 VA	23435 VA	TOTAL CONNECTED LOAD (AMPS):	459.1
HEAT	- HEATING:	100178 VA	100178 VA	TOTAL DEMAND LOAD (AMPS):	462.9
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	4550 VA	4550 VA	AMPACITY REQUIRED:	416 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. BINDER
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
16600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.: 22035

X	NOT FOR CONSTRUCTION
	ISSUED FOR PRICING
	ISSUED FOR PERMIT
	ISSUED FOR CONSTRUCTION

SHEET TITLE:

PANEL SCHEDULES

DRAWING NO.
E0.13

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BRANCH PANEL: P2

LOCATION:
SUPPLY FROM: MS1B
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 3R/4X

VOLTAGE: 480/277 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 22K
MAIN TYPE: MCB
MCB RATING: 400 A
PANEL RATING: 400 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		20 A/3	ESTIMATED POOL LOADS							25.0											20A/1P SPARE	20 A/1	--	2
3	--	--	--							25.0											20A/1P SPARE	20 A/1	--	4
5	--	--	--							25.0											20A/1P SPARE	20 A/1	--	6
7	--	20 A/1	20A/1P SPARE																		20A/1P SPARE	20 A/1	--	8
9	--	20 A/1	20A/1P SPARE																		20A/1P SPARE	20 A/1	--	10
11	--	20 A/1	20A/1P SPARE																		20A/1P SPARE	20 A/1	--	12
13	--	20 A/1	20A/1P SPARE																		20A/1P SPARE	20 A/1	--	14
15	--	20 A/1	20A/1P SPARE																		20A/1P SPARE	20 A/1	--	16
17	--	20 A/1	20A/1P SPARE																		20A/1P SPARE	20 A/1	--	18
19	--	20 A/1	20A/1P SPARE																		20A/1P SPARE	20 A/1	--	20
21	--	20 A/1	20A/1P SPARE																		SPACE	/1	--	22
23	--	20 A/1	20A/1P SPARE																		SPACE	/1	--	24
25	--	/1	SPACE																		SPACE	/1	--	26
27	--	/1	SPACE																		SPACE	/1	--	28
29	--	/1	SPACE																		SPACE	/1	--	30
31	--	/1	SPACE																		SPACE	/1	--	32
33	--	/1	SPACE																		SPACE	/1	--	34
35	--	/1	SPACE																		SPACE	/1	--	36
37	--	/1	SPACE																		SPACE	/1	--	38
39	--	/1	SPACE																		SPACE	/1	--	40
41	--	/1	SPACE																		SPACE	/1	--	42
			TOTAL:	**LITES**	**RCPT**	**MTR**	**A/C**	**HEAT**	**KTCH**	**MISC**				**TOTAL:**		**PHASE A**	**PHASE B**	**PHASE C**						
										75.1						25.0	25.0	25.0						

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	0 VA	0 VA		
RCPT	- RECEPTACLES:	0 VA	0 VA	**TOTAL CONNECTED LOAD (KVA):**	75.0
MTR	- MOTORS:	0 VA	0 VA	**TOTAL DEMAND LOAD (KVA):**	75.0
AC	- A/C:	0 VA	0 VA	**TOTAL CONNECTED LOAD (AMPS):**	90.2
HEAT	- HEATING:	0 VA	0 VA	**TOTAL DEMAND LOAD (AMPS):**	90.2
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	75000 VA	75000 VA	**AMPACITY REQUIRED:**	90 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

PANEL MAIN SHALL BE SHUNT TRIP TYPE TIED INTO EPO SWITCH. COORDINATE EPO LOCATION WITH POOL CONTRACTOR. NEMA 4X IF CHLORINE PUMPS OR STORAGE PRESENT.

BRANCH PANEL: S2

LOCATION:
SUPPLY FROM: MS1B
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 3R/4X

VOLTAGE: 480/277 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 22K
MAIN TYPE: MCB
MCB RATING: 400 A
PANEL RATING: 400 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		20 A/3	ESTIMATED SPA LOADS							25.0											20A/1P SPARE	20 A/1	--	2
3	--	--	--							25.0											20A/1P SPARE	20 A/1	--	4
5	--	--	--							25.0											20A/1P SPARE	20 A/1	--	6
7	--	20 A/1	20A/1P SPARE																		20A/1P SPARE	20 A/1	--	8
9	--	20 A/1	20A/1P SPARE																		20A/1P SPARE	20 A/1	--	10
11	--	20 A/1	20A/1P SPARE																		20A/1P SPARE	20 A/1	--	12
13	--	20 A/1	20A/1P SPARE																		20A/1P SPARE	20 A/1	--	14
15	--	20 A/1	20A/1P SPARE																		20A/1P SPARE	20 A/1	--	16
17	--	20 A/1	20A/1P SPARE																		20A/1P SPARE	20 A/1	--	18
19	--	/1	SPACE																		SPACE	/1	--	20
21	--	/1	SPACE																		SPACE	/1	--	22
23	--	/1	SPACE																		SPACE	/1	--	24
25	--	/1	SPACE																		SPACE	/1	--	26
27	--	/1	SPACE																		SPACE	/1	--	28
29	--	/1	SPACE																		SPACE	/1	--	30
31	--	/1	SPACE																		SPACE	/1	--	32
33	--	/1	SPACE																		SPACE	/1	--	34
35	--	/1	SPACE																		SPACE	/1	--	36
37	--	/1	SPACE																		SPACE	/1	--	38
39	--	/1	SPACE																		SPACE	/1	--	40
41	--	/1	SPACE																		SPACE	/1	--	42
			TOTAL:	**LITES**	**RCPT**	**MTR**	**A/C**	**HEAT**	**KTCH**	**MISC**				**TOTAL:**		**PHASE A**	**PHASE B**	**PHASE C**						
										75.1						25.0	25.0	25.0						

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	0 VA	0 VA		
RCPT	- RECEPTACLES:	0 VA	0 VA	**TOTAL CONNECTED LOAD (KVA):**	75.0
MTR	- MOTORS:	0 VA	0 VA	**TOTAL DEMAND LOAD (KVA):**	75.0
AC	- A/C:	0 VA	0 VA	**TOTAL CONNECTED LOAD (AMPS):**	90.2
HEAT	- HEATING:	0 VA	0 VA	**TOTAL DEMAND LOAD (AMPS):**	90.2
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	75000 VA	75000 VA	**AMPACITY REQUIRED:**	90 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

PANEL MAIN SHALL BE SHUNT TRIP TYPE TIED INTO EPO SWITCH. COORDINATE EPO LOCATION WITH POOL CONTRACTOR. NEMA 4X IF CHLORINE PUMPS OR STORAGE PRESENT.

BRANCH PANEL: L3R

LOCATION: ELEC 3A 681
SUPPLY FROM: T-L3R
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MCB
MCB RATING: 600 A
PANEL RATING: 600 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		20 A/1	REC - FIT EQUIP LVL 3		0.5											1.2					DFH/DHP IDF 3A LVL3	20 A/2		2
3		20 A/1	REC - LVL 3 FITNES		0.7											1.2					--	--	--	4
5		20 A/1	REC - LVL 3 CLUBHOUSE		0.9											1.2					DFH/DHP IDF 4A LVL4	20 A/2		6
7		20 A/1	REC - LVL 4 GOLF AREA		0.4											1.2					--	--	--	8
9		20 A/1	LTG- AMENITY LVL 4	0.7												1.5					DFH/DHP ER-4A LVL4	25 A/2		10
11	GFCI	20 A/1	RCPT- UC APPLIANCE LVL 3		0.4											1.5					--	--	--	12
13	GFCI	20 A/1	RCPT- KEGERATOR LVL 3		0.2											1.5					DFH/DHP ER-5A LVL5	25 A/2		14
15		20 A/1	RCPT- DISPOSAL LVL 3		0.8											1.5					--	--	--	16
17		20 A/1	RCPT- FIT EQUIP LVL 3		0.7											1.2					DFH/DHP IDF5A LVL5	20 A/2		18
19		20 A/1	RCPT- FIT EQUIP DEDI LVL 3		0.8											1.2					--	--	--	20
21		20 A/1	RCPT- FIT EQUIP DEDI LVL 3		0.8											9.4					AH - FT LVL 4	100 A/2		22
23		20 A/1	RCPT- FIT EQUIP DEDI LVL 3		0.8											9.4					--	--	--	24
25		20 A/1	RCPT- FIT EQUIP DEDI LVL 3		0.8														0.4		RCPT- IDF LVL3	20 A/1		26
27		20 A/1	RCPT/EXH- RESTROOM LVL 3		0.4	0.2													0.4		RCPT-IDF LVL 3	20 A/1		28
29		20 A/1	RCPT- GOLF SIM LVL 4		0.5														0.4		RCPT- IDF LVL 4	20 A/1		30
31		20 A/1	RCPT- GOLF SIM PROJ LVL 4		0.2														0.4		RCPT- IDF LVL 4	20 A/1		32
33		100 A/2	AH-FIT LVL 3					9.4						0.2					0.4		POOL TERRACE...	20 A/1		34
35	--	--	--					9.4								1.6					EWH-A LVL 3	20 A/2		36
37		20 A/1	LTG- AMENITY LVL 3	0.8												1.6					--	--	--	38
39		25 A/2	DFH/DHP ER 3A LVL3				1.5												0.4		RCPT- CLUB COUNTER LVL 3	20 A/1		40
41	--	--	--				1.5													0.2	LITES- TERRACE	20 A/1		42
43		40 A/2	AH-CR LVL 3					4.1													20A/1P SPARE	20 A/1	--	44
45	--	--	--					4.1													20A/1P SPARE	20 A/1	--	46
47		45 A/2	AH - CH LVL 3					4.5													20A/1P SPARE	20 A/1	--	48
49	--	--	--					4.5													20A/1P SPARE	20 A/1	--	50
51																					20A/1P SPARE	20 A/1	--	52
53																					20A/1P SPARE	20 A/1	--	54
55	--	/1	SPACE																		20A/1P SPARE	20 A/1	--	56
57	--	/1	SPACE																		20A/1P SPARE	20 A/1	--	58
59	--	/1	SPACE																		20A/1P SPARE	20 A/1	--	60
			TOTAL:	**LITES**	**RCPT**	**MTR**	**A/C**	**HEAT**	**KTCH**	**MISC**				**TOTAL:**		**PHASE A**	**PHASE B**	**PHASE C**						
				2.3	16.4	0.3	54.6	77.9		0.2						43.8	53.6	54.5						

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	2291 VA	2864 VA		
RCPT	- RECEPTACLES:	16400 VA	13200 VA	**TOTAL CONNECTED LOAD (KVA):**	151.9
MTR	- MOTORS:	250 VA	263 VA	**TOTAL DEMAND LOAD (KVA):**	149.3
AC	- A/C:	54588 VA	54588 VA	**TOTAL CONNECTED LOAD (AMPS):**	421.6
HEAT	- HEATING:	77900 VA	77900 VA	**TOTAL DEMAND LOAD (AMPS):**	414.3
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	150 VA	150 VA	**AMPACITY REQUIRED:**	413 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

BRANCH PANEL: L6R

LOCATION: ELEC 6A 831
SUPPLY FROM: L3R
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MLO
PANEL RATING: 600 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		20 A/1	REC - AMENITY LVL 7		0.9	0.1											2.5				HP-BC ROOF	50 A/2		2
3	GFCI	20 A/1	RCPT-DISHWASH LVL 7		0.8												2.5				--	--	--	4
5	GFCI	20 A/1	RCPT- DISPOSAL LVL 7		0.8												1.1				HP-CL ROOF	20 A/2		6
7		20 A/1	RCPT- AC LVL 7		0.4												1.1				--	--	--	8
9	GFCI	20 A/1	RCPT- UC APPLIANCE LVL 7		0.4												2.5				HP-FT ROOF	50 A/2		10
11		50 A/2	AH-SL LVL 7					3.3									2.5				--	--	--	12
13	--	--	--					3.3									2.5				HP-FT ROOF	50 A/2		14
15																	2.5				--	--	--	16
17		20 A/1	LTG- SKY LNGE LVL 7	0.5															0.4		RCPT- IDF LVL5	20 A/1		18
19		20 A/2	DFH/DHP IDF6A LVL6				1.2												0.4		RCPT- idf lvl5	20 A/1		20
21	--	--	--				1.2												0.4		RCPT- IDF LVL 6	20 A/1		22
23		25 A/2	DFH/DHP ER6A LVL6				1.5												0.4		RCPT- IDF LVL6	20 A/1		24
25	--	--	--				1.5												0.4		RCPT- IDF LVL7	20 A/1		26
27		20 A/2	DFH/DHP IDF7A LVL7				1.2												0.4		RCPT- IDF LVL 7	20 A/1		28
29	--	--	--				1.2														20A/1P SPARE	20 A/1	--	30
31		50 A/2	HP-LE ROOF				2.6														20A/1P SPARE	20 A/1	--	32
33	--	--	--				2.6														20A/1P SPARE	20 A/1	--	34
35		50 A/2	HP-LE ROOF				2.6														20A/1P SPARE	20 A/1	--	36
37	--	--	--				2.6										4.6				RTU-H1	60 A/3		38
39		25 A/2	HP-ML ROOF				1.4										4.6				--	--	--	40
41	--	--	--				1.4										4.6				--	--	--	42
			TOTAL:	**LITES**	**RCPT**	**MTR**	**A/C**	**HEAT**	**KTCH**	**MISC**				**TOTAL:**		**PHASE A**	**PHASE B**	**PHASE C**						
				0.5	5.4	0.1	38.1	20.3		0.0						23.9	20.3	20.2						

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	544 VA	680 VA		
RCPT	- RECEPTACLES:	5380 VA	5380 VA	**TOTAL CONNECTED LOAD (KVA):**	64.4
MTR	- MOTORS:	100 VA	113 VA	**TOTAL DEMAND LOAD (KVA):**	64.6
AC	- A/C:	38133 VA	38133 VA	**TOTAL CONNECTED LOAD (AMPS):**	178.9
HEAT	- HEATING:	20290 VA	20290 VA	**TOTAL DEMAND LOAD (AMPS):**	179.3
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	0 VA	0 VA	**AMPACITY REQUIRED:**	179 A
EV	- ELECTRIC VEHICLE	0 VA	0 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

COLORADO LICENSED
MARK W. BIGLER
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
16600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

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GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.: 22035

X	NOT FOR CONSTRUCTION
	ISSUED FOR PRICING
	ISSUED FOR PERMIT
	ISSUED FOR CONSTRUCTION

SHEET TITLE:

PANEL SCHEDULES

DRAWING NO.
E0.14

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

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10/21/2024 7:01:36 AM
D:\Revit Projects\23080076-Grant Street Apartments-E-r24_DarenD.rvt

BRANCH PANEL: EV1A

LOCATION:
SUPPLY FROM: DPEVA
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MLO
PANEL RATING: 400 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		40 A/2	EVC							3.3				3.3							EVC	40 A/2		2
3	--	--	--							0.0				0.0							--	--	--	4
5		40 A/2	EVC							3.3				3.3							EVC	40 A/2		6
7	--	--	--							0.0				0.0							--	--	--	8
9		40 A/2	EVC							3.3				3.3							EVC	40 A/2		10
11	--	--	--							0.0				0.0							--	--	--	12
13		40 A/2	EVC							3.3				3.3							EVC	40 A/2		14
15	--	--	--							0.0				0.0							--	--	--	16
17		40 A/2	EVC							3.3				3.3							EVC	40 A/2		18
19	--	--	--							0.0				0.0							--	--	--	20
21		40 A/2	EVC							3.3				3.3							EVC	40 A/2		22
23	--	--	--							0.0				0.0							--	--	--	24
25		40 A/2	EVC							3.3				3.3							EVC	40 A/2		26
27	--	--	--							0.0				0.0							--	--	--	28
29		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		30
31	--	--	--							0.0				0.0							--	--	--	32
33		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		34
35	--	--	--							0.0				0.0							--	--	--	36
37		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		38
39	--	--	--							0.0				0.0							--	--	--	40
41		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		42
43	--	--	--							0.0				0.0							--	--	--	44
45		40 A/2	EVC							3.3				3.3							EVSE (SINGLE)	40 A/2		46
47	--	--	--							0.0				0.0							--	--	--	48
49		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		50
51	--	--	--							0.0				0.0							--	--	--	52
53		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		54
55	--	--	--							0.0				0.0							--	--	--	56
57		40 A/2	EVC							3.3														58
59	--	--	--							0.0											SPACE	/1	--	60
			TOTAL:	LITES	RCPT	MTR	A/C	HEAT	KTCH	MISC				TOTAL:	PHASE A		PHASE B		PHASE C					
										95.8					33.0		29.7		33.0					

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	0 VA	0 VA		
RCPT	- RECEPTACLES:	0 VA	0 VA	TOTAL CONNECTED LOAD (KVA):	95.7
MTR	- MOTORS:	0 VA	0 VA	TOTAL DEMAND LOAD (KVA):	119.6
AC	- A/C:	0 VA	0 VA	TOTAL CONNECTED LOAD (AMPS):	265.6
HEAT	- HEATING:	0 VA	0 VA	TOTAL DEMAND LOAD (AMPS):	332.0
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	0 VA	0 VA	AMPACITY REQUIRED:	332 A
EV	- ELECTRIC VEHICLE	95700 VA	119625 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

EV STATIONS TO BE FITTED WITH LOAD MANAGEMENT SYSTEM SUCH THAT EACH STATION CHARGES AT MINIMUM 3.3KVA IN ACCORDANCE WITH DBCA REQUIREMENTS. CHARGEPOINT POWER SHARE USED AS...

BRANCH PANEL: EV1B

LOCATION:
SUPPLY FROM: DPEVB
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MLO
PANEL RATING: 400 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		40 A/2	EVC							3.3				3.3							EVC	40 A/2		2
3	--	--	--							0.0				0.0							--	--	--	4
5		40 A/2	EVC							3.3				3.3							EVC	40 A/2		6
7	--	--	--							0.0				0.0							--	--	--	8
9		40 A/2	EVC							3.3				3.3							EVC	40 A/2		10
11	--	--	--							0.0				0.0							--	--	--	12
13		40 A/2	EVC							3.3				3.3							EVC	40 A/2		14
15	--	--	--							0.0				0.0							--	--	--	16
17		40 A/2	EVC							3.3				3.3							EVC	40 A/2		18
19	--	--	--							0.0				0.0							--	--	--	20
21		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		22
23	--	--	--							0.0				0.0							--	--	--	24
25		40 A/2	EVC							3.3				3.3							EV	40 A/2		26
27	--	--	--							0.0				0.0							--	--	--	28
29		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		30
31	--	--	--							0.0				0.0							--	--	--	32
33		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		34
35	--	--	--							0.0				0.0							--	--	--	36
37		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		38
39	--	--	--							0.0				0.0							--	--	--	40
41		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		42
43	--	--	--							0.0				0.0							--	--	--	44
45		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		46
47	--	--	--							0.0				0.0							--	--	--	48
49		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		50
51	--	--	--							0.0				0.0							--	--	--	52
53		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		54
55	--	--	--							0.0				0.0							--	--	--	56
57		40 A/2	EVC							3.3				3.3							EVSE	40 A/2		58
59	--	--	--							0.0				0.0							--	--	--	60
			TOTAL:	LITES	RCPT	MTR	A/C	HEAT	KTCH	MISC				TOTAL:	PHASE A		PHASE B		PHASE C					
										99.1					33.0		33.0		33.0					

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	0 VA	0 VA		
RCPT	- RECEPTACLES:	0 VA	0 VA	TOTAL CONNECTED LOAD (KVA):	99.0
MTR	- MOTORS:	0 VA	0 VA	TOTAL DEMAND LOAD (KVA):	123.8
AC	- A/C:	0 VA	0 VA	TOTAL CONNECTED LOAD (AMPS):	274.8
HEAT	- HEATING:	0 VA	0 VA	TOTAL DEMAND LOAD (AMPS):	343.5
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	0 VA	0 VA	AMPACITY REQUIRED:	343 A
EV	- ELECTRIC VEHICLE	99000 VA	123750 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

EV STATIONS TO BE FITTED WITH LOAD MANAGEMENT SYSTEM SUCH THAT EACH STATION CHARGES AT MINIMUM 3.3KVA IN ACCORDANCE WITH DBCA REQUIREMENTS. CHARGEPOINT POWER SHARE USED AS...

DISTRIBUTION PANEL: DPEVA

LOCATION:
SUPPLIED FROM: T-DPEVA
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MCB
MAIN RATING: 800 A

CKT	CIRCUIT DESCRIPTION	# OF POLES	FRAME SIZE	TRIP/ FUSE RATING	TRIP TYPE	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	Load	NOTES
1	EV1A	3	400 A	400 A									95.7	
2	EV2A	3	400 A	400 A									99.0	
3	SPACE	1	--	--	--								--	
4	SPACE	1	--	--	--								--	
5	SPACE	1	--	--	--								--	
					TOTAL:	LITES	RCPT	MTR	A/C	HEAT	KTCH	MISC		

LOAD TYPES:		CONNECTED LOAD	ESTIMATED LOAD	PANEL TOTALS	
LITES	- LIGHTING:	0 VA	0 VA		
RCPT	- RECEPTACLES:	0 VA	0 VA	TOTAL CONNECTED LOAD (KVA):	194.7
MTR	- MOTORS:	0 VA	0 VA	TOTAL DEMAND LOAD (KVA):	243.4
AC	- A/C:	0 VA	0 VA	TOTAL CONNECTED LOAD (AMPS):	540.4
HEAT	- HEATING:	0 VA	0 VA	TOTAL DEMAND LOAD (AMPS):	675.5
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	0 VA	0 VA	AMPACITY REQUIRED:	676 A
EV	- ELECTRIC VEHICLE	194700 VA	243375 VA		

NOTES: CB=CIRCUIT BREAKER F=FUSE

1. FOR ANY BREAKER OR FUSE 1200A OR HIGHER, AN ARC-ENERGY REDUCING MAINTENANCE SWITCH (ERMS) SHALL BE PROVIDED.
2. SWITCHBOARD SHALL BE ORDERED AND INSTALLED PER NEC 230.71.

DISTRIBUTION PANEL: DPEVB

LOCATION:
SUPPLIED FROM: T-DPEVB
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MCB
MAIN RATING: 800 A

CKT	CIRCUIT DESCRIPTION	# OF POLES	FRAME SIZE	TRIP/ FUSE RATING	TRIP TYPE	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	Load	NOTES
1	EV1B	3	400 A	400 A									99.0	
2	EV2B	3	400 A	400 A									99.0	
3	SPACE	1	--	--	--								--	
4	SPACE	1	--	--	--								--	
5	SPACE	1	--	--	--								--	
					TOTAL:	LITES	RCPT	MTR	A/C	HEAT	KTCH	MISC		

LOAD TYPES:		CONNECTED LOAD	ESTIMATED LOAD	PANEL TOTALS	
LITES	- LIGHTING:	0 VA	0 VA		
RCPT	- RECEPTACLES:	0 VA	0 VA	TOTAL CONNECTED LOAD (KVA):	198.0
MTR	- MOTORS:	0 VA	0 VA	TOTAL DEMAND LOAD (KVA):	247.5
AC	- A/C:	0 VA	0 VA	TOTAL CONNECTED LOAD (AMPS):	549.6
HEAT	- HEATING:	0 VA	0 VA	TOTAL DEMAND LOAD (AMPS):	687.0
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	0 VA	0 VA	AMPACITY REQUIRED:	687 A
EV	- ELECTRIC VEHICLE	198000 VA	247500 VA		

NOTES: CB=CIRCUIT BREAKER F=FUSE

1. FOR ANY BREAKER OR FUSE 1200A OR HIGHER, AN ARC-ENERGY REDUCING MAINTENANCE SWITCH (ERMS) SHALL BE PROVIDED.
2. SWITCHBOARD SHALL BE ORDERED AND INSTALLED PER NEC 230.71.

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. BINDER
41442
PROFESSIONAL ENGINEER
10/18/24

MEEKS PARTNERS
1600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

REVISION NO	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.: 22035

X	NOT FOR CONSTRUCTION
	ISSUED FOR PRICING
	ISSUED FOR PERMIT
	ISSUED FOR CONSTRUCTION

SHEET TITLE:
EV PANEL SCHEDULES

DRAWING NO.
E0.15

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BRANCH PANEL: EV2B

LOCATION:
SUPPLY FROM: DPEVB
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MLO
PANEL RATING: 400 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		40 A/2	EVSE							3.3				3.3							EVC	40 A/2		2
3	--	--	--							0.0				0.0							--	--	--	4
5		40 A/2	EVSE							3.3				3.3							EVC	40 A/2		6
7	--	--	--							0.0				0.0							--	--	--	8
9		40 A/2	EVSE							3.3				3.3							EVC	40 A/2		10
11	--	--	--							0.0				0.0							--	--	--	12
13		40 A/2	EVSE							3.3				3.3							EVC	40 A/2		14
15	--	--	--							0.0				0.0							--	--	--	16
17		40 A/2	EVC							3.3				3.3							EVC	40 A/2		18
19	--	--	--							0.0				0.0							--	--	--	20
21		40 A/2	EVC							3.3				3.3							EVC	40 A/2		22
23	--	--	--							0.0				0.0							--	--	--	24
25		40 A/2	EVC							3.3				3.3							EVC	40 A/2		26
27	--	--	--							0.0				0.0							--	--	--	28
29		40 A/2	EVC							3.3				3.3							EVC	40 A/2		30
31	--	--	--							0.0				0.0							--	--	--	32
33		40 A/2	EVC							3.3				3.3							EVC	40 A/2		34
35	--	--	--							0.0				0.0							--	--	--	36
37		40 A/2	EVC							3.3				3.3							EVC	40 A/2		38
39	--	--	--							0.0				0.0							--	--	--	40
41		40 A/2	EVC							3.3				3.3							EVC	40 A/2		42
43	--	--	--							0.0				0.0							--	--	--	44
45		40 A/2	EVC							3.3				3.3							EVC	40 A/2		46
47	--	--	--							0.0				0.0							--	--	--	48
49		40 A/2	EVC							3.3				3.3							EVC	40 A/2		50
51	--	--	--							0.0				0.0							--	--	--	52
53		40 A/2	EVC							3.3				3.3							EVC	40 A/2		54
55	--	--	--							0.0				0.0							--	--	--	56
57		40 A/2	EVC							3.3				3.3							EVC	40 A/2		58
59	--	--	--							0.0				0.0							--	--	--	60

TOTAL:	LITES	RCPT	MTR	A/C	HEAT	KTCH	MISC
							99.1

TOTAL:	PHASE A	PHASE B	PHASE C
	33.0	33.0	33.0

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	0 VA	0 VA		
RCPT	- RECEPTACLES:	0 VA	0 VA	**TOTAL CONNECTED LOAD (KVA):**	99.0
MTR	- MOTORS:	0 VA	0 VA	**TOTAL DEMAND LOAD (KVA):**	123.8
AC	- A/C:	0 VA	0 VA	**TOTAL CONNECTED LOAD (AMPS):**	274.8
HEAT	- HEATING:	0 VA	0 VA	**TOTAL DEMAND LOAD (AMPS):**	343.5
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	0 VA	0 VA	**AMPACITY REQUIRED:**	343 A
EV	- ELECTRIC VEHICLE	99000 VA	123750 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

EV STATIONS TO BE FITTED WITH LOAD MANAGEMENT SYSTEM SUCH THAT EACH STATION CHARGES AT MINIMUM 3.3KVA IN ACCORDANCE WITH DBCA REQUIREMENTS. CHARGEPOINT POWER SHARE USED AS...

BRANCH PANEL: EV2A

LOCATION:
SUPPLY FROM: DPEVA
MOUNTING: SURFACE
NEMA ENCLOSURE: NEMA 1

VOLTAGE: 208/120 WYE
PHASE: 3
WIRE: 4

A.I.C. RATING: 11K
MAIN TYPE: MLO
PANEL RATING: 400 A

CKT	TRIP TYPE	TRIP / POLES	DESCRIPTION	LITES (KVA)	RCPT (KVA)	MTR (KVA)	A/C (KVA)	HEAT (KVA)	KTCH (KVA)	MISC (KVA)	A	B	C	MISC (KVA)	KTCH (KVA)	HEAT (KVA)	A/C (KVA)	MTR (KVA)	RCPT (KVA)	LITES (KVA)	DESCRIPTION	TRIP / POLES	TRIP TYPE	CKT
1		40 A/2	EVR							3.3				3.3							EVC (SINGLE)	40 A/2		2
3	--	--	--							0.0				0.0							--	--	--	4
5		40 A/2	EVR							3.3				3.3							EVR (SINGLE)	40 A/2		6
7	--	--	--							0.0				0.0							--	--	--	8
9		40 A/2	EVC							3.3				3.3							EVSE (SINGLE)	40 A/2		10
11	--	--	--							0.0				0.0							--	--	--	12
13		40 A/2	EVC							3.3				3.3							EVC	40 A/2		14
15	--	--	--							0.0				0.0							--	--	--	16
17		40 A/2	EVSE							3.3				3.3							EVC	40 A/2		18
19	--	--	--							0.0				0.0							--	--	--	20
21		40 A/2	EVSE							3.3				3.3							EVC	40 A/2		22
23	--	--	--							0.0				0.0							--	--	--	24
25		40 A/2	EVSE							3.3				3.3							EVC	40 A/2		26
27	--	--	--							0.0				0.0							--	--	--	28
29		40 A/2	EVSE							3.3				3.3							EVC	40 A/2		30
31	--	--	--							0.0				0.0							--	--	--	32
33		40 A/2	EVSE (SINGLE)							3.3				3.3							EVC	40 A/2		34
35	--	--	--							0.0				0.0							--	--	--	36
37		40 A/2	EVR							3.3				3.3							EVC	40 A/2		38
39	--	--	--							0.0				0.0							--	--	--	40
41		40 A/2	EVR							3.3				3.3							EVC	40 A/2		42
43	--	--	--							0.0				0.0							--	--	--	44
45		40 A/2	EVR							3.3				3.3							EVC	40 A/2		46
47	--	--	--							0.0				0.0							--	--	--	48
49		40 A/2	EVR							3.3				3.3							EVC	40 A/2		50
51	--	--	--							0.0				0.0							--	--	--	52
53		40 A/2	EVR							3.3				3.3							EVC	40 A/2		54
55	--	--	--							0.0				0.0							--	--	--	56
57		40 A/2	EVR							3.3				3.3							EVC	40 A/2		58
59	--	--	--							0.0				0.0							--	--	--	60

TOTAL:	LITES	RCPT	MTR	A/C	HEAT	KTCH	MISC
							99.1

TOTAL:	PHASE A	PHASE B	PHASE C
	33.0	33.0	33.0

LOAD TYPES:		CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LITES	- LIGHTING:	0 VA	0 VA		
RCPT	- RECEPTACLES:	0 VA	0 VA	**TOTAL CONNECTED LOAD (KVA):**	99.0
MTR	- MOTORS:	0 VA	0 VA	**TOTAL DEMAND LOAD (KVA):**	123.8
AC	- A/C:	0 VA	0 VA	**TOTAL CONNECTED LOAD (AMPS):**	274.8
HEAT	- HEATING:	0 VA	0 VA	**TOTAL DEMAND LOAD (AMPS):**	343.5
KTCH	- KITCHEN:	0 VA	0 VA		
MISC	- MISCELLANEOUS:	0 VA	0 VA	**AMPACITY REQUIRED:**	343 A
EV	- ELECTRIC VEHICLE	99000 VA	123750 VA		

NOTES:

BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE FIELD-EQUIPPED WITH A MANUALLY OPERATED HANDLE-TIE DEVICE TO ENSURE THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER NEC 240.15.

EV STATIONS TO BE FITTED WITH LOAD MANAGEMENT SYSTEM SUCH THAT EACH STATION CHARGES AT MINIMUM 3.3KVA IN ACCORDANCE WITH DBCA REQUIREMENTS. CHARGEPOINT POWER SHARE USED AS...

COLORADO LICENSED
MARK W. BIGBEE
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
16000 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

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GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.: 22035

X	NOT FOR CONSTRUCTION
	ISSUED FOR PRICING
	ISSUED FOR PERMIT
	ISSUED FOR CONSTRUCTION

SHEET TITLE:

EV PANEL SCHEDULES

DRAWING NO.

E0.16

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

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LOAD CENTER SCHEDULE - A5

MAIN: 100A MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			REFRIGERATOR	AFCI/GFCI	15/1	14
15	15/2		OUTDOOR HVAC			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	16
17	--		---			LIGHTS & RECEPTACLES	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			SPACE			22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "A5"

SQUARE FOOTAGE	831	SF	X	3 VA/SF	2.5 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		24.5 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X	100 %	10.0 KVA
REMAINDER	14.5	KVA	X	40 %	5.8 KVA
HVAC (HEAT PUMP)	1.8	KVA	X	100 %	1.8 KVA
HVAC (COOLING)	N/A	KVA	X	100 %	KVA
HVAC (HEATING)	4.2	KVA	X	65 %	2.7 KVA
N.E.C. 220-82					
TOTAL					20.3 KVA
VOLTAGE: 208/120		PHASE: 1			97.6 AMPS

LOAD CENTER SCHEDULE - A3

MAIN: 100A MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			REFRIGERATOR	AFCI/GFCI	15/1	14
15	15/2		OUTDOOR HVAC			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	16
17	--		---			LIGHTS & RECEPTACLES	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			SPACE			22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "A3"

SQUARE FOOTAGE	938	SF	X	3 VA/SF	2.8 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		24.8 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X	100 %	10.0 KVA
REMAINDER	14.8	KVA	X	40 %	5.9 KVA
HVAC (HEAT PUMP)	1.8	KVA	X	100 %	1.8 KVA
HVAC (COOLING)	N/A	KVA	X	100 %	KVA
HVAC (HEATING)	4.2	KVA	X	65 %	2.7 KVA
N.E.C. 220-82					
TOTAL					20.4 KVA
VOLTAGE: 208/120		PHASE: 1			98.2 AMPS

LOAD CENTER SCHEDULE - A1

MAIN: 100A MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			REFRIGERATOR	AFCI/GFCI	15/1	14
15	15/2		OUTDOOR HVAC			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	16
17	--		---			LIGHTS & RECEPTACLES	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			SPACE			22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "A1"

SQUARE FOOTAGE	680	SF	X	3 VA/SF	2.0 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		24.0 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X	100 %	10.0 KVA
REMAINDER	14.0	KVA	X	40 %	5.6 KVA
HVAC (HEAT PUMP)	1.8	KVA	X	100 %	1.8 KVA
HVAC (COOLING)	N/A	KVA	X	100 %	KVA
HVAC (HEATING)	4.2	KVA	X	65 %	2.7 KVA
N.E.C. 220-82					
TOTAL					20.1 KVA
VOLTAGE: 208/120		PHASE: 1			96.7 AMPS

LOAD CENTER SCHEDULE - S1

MAIN: 100A MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			REFRIGERATOR	AFCI/GFCI	15/1	14
15	20/2		OUTDOOR HVAC			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	16
17	--		---			LIGHTS & RECEPTACLES	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			SPACE			22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "S1"

SQUARE FOOTAGE	520	SF	X	3 VA/SF	1.6 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		23.5 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X	100 %	10.0 KVA
REMAINDER	13.5	KVA	X	40 %	5.4 KVA
HVAC (HEAT PUMP)	2.2	KVA	X	100 %	2.2 KVA
HVAC (COOLING)	N/A	KVA	X	100 %	KVA
HVAC (HEATING)	4.1	KVA	X	65 %	2.7 KVA
N.E.C. 220-82					
TOTAL					20.3 KVA
VOLTAGE: 208/120		PHASE: 1			97.7 AMPS

LOAD CENTER SCHEDULE - A6

MAIN: 100A MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			REFRIGERATOR	AFCI/GFCI	15/1	14
15	15/2		OUTDOOR HVAC			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	16
17	--		---			LIGHTS & RECEPTACLES	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			SPACE			22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "A6"

SQUARE FOOTAGE	1154	SF	X	3 VA/SF	3.5 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		25.4 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X	100 %	10.0 KVA
REMAINDER	15.4	KVA	X	40 %	6.2 KVA
HVAC (HEAT PUMP)	1.8	KVA	X	100 %	1.8 KVA
HVAC (COOLING)	N/A	KVA	X	100 %	KVA
HVAC (HEATING)	4.2	KVA	X	65 %	2.7 KVA
N.E.C. 220-82					
TOTAL					20.7 KVA
VOLTAGE: 208/120		PHASE: 1			99.4 AMPS

LOAD CENTER SCHEDULE - A4

MAIN: 100A MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			REFRIGERATOR	AFCI/GFCI	15/1	14
15	15/2		OUTDOOR HVAC			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	16
17	--		---			LIGHTS & RECEPTACLES	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			SPACE			22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "A4"

SQUARE FOOTAGE	771	SF	X	3 VA/SF	2.3 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		24.3 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X	100 %	10.0 KVA
REMAINDER	14.3	KVA	X	40 %	5.7 KVA
HVAC (HEAT PUMP)	1.8	KVA	X	100 %	1.8 KVA
HVAC (COOLING)	N/A	KVA	X	100 %	KVA
HVAC (HEATING)	4.2	KVA	X	65 %	2.7 KVA
N.E.C. 220-82					
TOTAL					20.2 KVA
VOLTAGE: 208/120		PHASE: 1			97.2 AMPS

LOAD CENTER SCHEDULE - A2

MAIN: 100A MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			REFRIGERATOR	AFCI/GFCI	15/1	14
15	15/2		OUTDOOR HVAC			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	16
17	--		---			LIGHTS & RECEPTACLES	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			SPACE			22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "A2"

SQUARE FOOTAGE	640	SF	X	3 VA/SF	1.9 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		23.9 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X	100 %	10.0 KVA
REMAINDER	13.9	KVA	X	40 %	5.6 KVA
HVAC (HEAT PUMP)	1.8	KVA	X	100 %	1.8 KVA
HVAC (COOLING)	N/A	KVA	X	100 %	KVA
HVAC (HEATING)	4.2	KVA	X	65 %	2.7 KVA
N.E.C. 220-82					
TOTAL					20.1 KVA
VOLTAGE: 208/120		PHASE: 1			96.5 AMPS

LOAD CENTER SCHEDULE - A0

MAIN: 100A MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			REFRIGERATOR	AFCI/GFCI	15/1	14
15	15/2		OUTDOOR HVAC			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	16
17	--		---			LIGHTS & RECEPTACLES	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			SPACE			22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "A0"

SQUARE FOOTAGE	625	SF	X	3 VA/SF	1.9 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		23.8 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X	100 %	10.0 KVA
REMAINDER	13.8	KVA	X	40 %	5.5 KVA
HVAC (HEAT PUMP)	2.2	KVA	X	100 %	2.2 KVA
HVAC (COOLING)	N/A	KVA	X	100 %	KVA
HVAC (HEATING)	4.1	KVA	X	65 %	2.7 KVA
N.E.C. 220-82					
TOTAL					20.5 KVA
VOLTAGE: 208/120		PHASE: 1			98.3 AMPS

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

MARK W. BINDER
COLORADO LICENSED
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
16000 Memorial Drive
Suite 170
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.:	22035
X	NOT FOR CONSTRUCTION
	ISSUED FOR PRICING
	ISSUED FOR PERMIT
	ISSUED FOR CONSTRUCTION

SHEET TITLE:
LOAD CENTER SCHEDULES

DRAWING NO.
E0.17

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LOAD CENTER SCHEDULE - B2

MAIN: 125A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			BATHROOM CIRCUIT		20/1	14
15	15/2		OUTDOOR HVAC			REFRIGERATOR	AFCI/GFCI	15/1	16
17	--		---			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "B2"

SQUARE FOOTAGE	1266	SF	X	3	VA/SF	3.8 KVA
KITCHEN/LAUNDRY	4500	VA				4.5 KVA
RANGES	8000	VA				8.0 KVA
DRYERS	5000	VA				5.0 KVA
REFRIGERATOR	960	VA				1.0 KVA
DISPOSALS	800	VA				0.8 KVA
DISHWASHERS	1200	VA				1.2 KVA
MICROWAVE/HOOD	1500	VA				1.5 KVA
WATER HEATERS	0	VA				0.0 KVA
			SUBTOTAL			25.8 KVA
DEMAND FACTOR						
1ST 10 KW	10.0	KVA	X	100	%	10.0 KVA
REMAINDER	15.8	KVA	X	40	%	6.3 KVA
HVAC (HEAT PUMP)	1.8	KVA	X	100	%	1.8 KVA
HVAC (COOLING)	N/A	KVA	X	100	%	KVA
HVAC (HEATING)	4.2	KVA	X	65	%	2.7 KVA
N.E.C. 220-82						
TOTAL						20.8 KVA
VOLTAGE: 208/120		PHASE: 1				100.1 AMPS

LOAD CENTER SCHEDULE - A11

MAIN: 100A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			REFRIGERATOR	AFCI/GFCI	15/1	14
15	15/2		OUTDOOR HVAC			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	16
17	--		---			LIGHTS & RECEPTACLES	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			SPACE			22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "A11"

SQUARE FOOTAGE	764	SF	X	3	VA/SF	2.3 KVA
KITCHEN/LAUNDRY	4500	VA				4.5 KVA
RANGES	8000	VA				8.0 KVA
DRYERS	5000	VA				5.0 KVA
REFRIGERATOR	960	VA				1.0 KVA
DISPOSALS	800	VA				0.8 KVA
DISHWASHERS	1200	VA				1.2 KVA
MICROWAVE/HOOD	1500	VA				1.5 KVA
WATER HEATERS	0	VA				0.0 KVA
			SUBTOTAL			24.3 KVA
DEMAND FACTOR						
1ST 10 KW	10.0	KVA	X	100	%	10.0 KVA
REMAINDER	14.3	KVA	X	40	%	5.7 KVA
HVAC (HEAT PUMP)	1.8	KVA	X	100	%	1.8 KVA
HVAC (COOLING)	N/A	KVA	X	100	%	KVA
HVAC (HEATING)	4.2	KVA	X	65	%	2.7 KVA
N.E.C. 220-82						
TOTAL						20.2 KVA
VOLTAGE: 208/120		PHASE: 1				97.2 AMPS

LOAD CENTER SCHEDULE - A9

MAIN: 100A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			REFRIGERATOR	AFCI/GFCI	15/1	14
15	15/2		OUTDOOR HVAC			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	16
17	--		---			LIGHTS & RECEPTACLES	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			SPACE			22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "A9"

SQUARE FOOTAGE	903	SF	X	3	VA/SF	2.7 KVA
KITCHEN/LAUNDRY	4500	VA				4.5 KVA
RANGES	8000	VA				8.0 KVA
DRYERS	5000	VA				5.0 KVA
REFRIGERATOR	960	VA				1.0 KVA
DISPOSALS	800	VA				0.8 KVA
DISHWASHERS	1200	VA				1.2 KVA
MICROWAVE/HOOD	1500	VA				1.5 KVA
WATER HEATERS	0	VA				0.0 KVA
			SUBTOTAL			24.7 KVA
DEMAND FACTOR						
1ST 10 KW	10.0	KVA	X	100	%	10.0 KVA
REMAINDER	14.7	KVA	X	40	%	5.9 KVA
HVAC (HEAT PUMP)	1.8	KVA	X	100	%	1.8 KVA
HVAC (COOLING)	N/A	KVA	X	100	%	KVA
HVAC (HEATING)	4.2	KVA	X	65	%	2.7 KVA
N.E.C. 220-82						
TOTAL						20.4 KVA
VOLTAGE: 208/120		PHASE: 1				98.0 AMPS

LOAD CENTER SCHEDULE - A7

MAIN: 100A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			REFRIGERATOR	AFCI/GFCI	15/1	14
15	15/2		OUTDOOR HVAC			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	16
17	--		---			LIGHTS & RECEPTACLES	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			SPACE			22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "A7"

SQUARE FOOTAGE	735	SF	X	3	VA/SF	2.2 KVA
KITCHEN/LAUNDRY	4500	VA				4.5 KVA
RANGES	8000	VA				8.0 KVA
DRYERS	5000	VA				5.0 KVA
REFRIGERATOR	960	VA				1.0 KVA
DISPOSALS	800	VA				0.8 KVA
DISHWASHERS	1200	VA				1.2 KVA
MICROWAVE/HOOD	1500	VA				1.5 KVA
WATER HEATERS	0	VA				0.0 KVA
			SUBTOTAL			24.2 KVA
DEMAND FACTOR						
1ST 10 KW	10.0	KVA	X	100	%	10.0 KVA
REMAINDER	14.2	KVA	X	40	%	5.7 KVA
HVAC (HEAT PUMP)	1.8	KVA	X	100	%	1.8 KVA
HVAC (COOLING)	N/A	KVA	X	100	%	KVA
HVAC (HEATING)	4.2	KVA	X	65	%	2.7 KVA
N.E.C. 220-82						
TOTAL						20.2 KVA
VOLTAGE: 208/120		PHASE: 1				97.0 AMPS

LOAD CENTER SCHEDULE - B3

MAIN: 125A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			BATHROOM CIRCUIT		20/1	14
15	15/2		OUTDOOR HVAC			REFRIGERATOR	AFCI/GFCI	15/1	16
17	--		---			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "B3"

SQUARE FOOTAGE	1279	SF	X	3	VA/SF	3.8 KVA
KITCHEN/LAUNDRY	4500	VA				4.5 KVA
RANGES	8000	VA				8.0 KVA
DRYERS	5000	VA				5.0 KVA
REFRIGERATOR	960	VA				1.0 KVA
DISPOSALS	800	VA				0.8 KVA
DISHWASHERS	1200	VA				1.2 KVA
MICROWAVE/HOOD	1500	VA				1.5 KVA
WATER HEATERS	0	VA				0.0 KVA
			SUBTOTAL			25.8 KVA
DEMAND FACTOR						
1ST 10 KW	10.0	KVA	X	100	%	10.0 KVA
REMAINDER	15.8	KVA	X	40	%	6.3 KVA
HVAC (HEAT PUMP)	2.2	KVA	X	100	%	2.2 KVA
HVAC (COOLING)	N/A	KVA	X	100	%	KVA
HVAC (HEATING)	6.0	KVA	X	65	%	3.9 KVA
N.E.C. 220-82						
TOTAL						22.5 KVA
VOLTAGE: 208/120		PHASE: 1				108.1 AMPS

LOAD CENTER SCHEDULE - B1

MAIN: 100A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			BATHROOM CIRCUIT		20/1	14
15	15/2		OUTDOOR HVAC			REFRIGERATOR	AFCI/GFCI	15/1	16
17	--		---			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "B1"

SQUARE FOOTAGE	1010	SF	X	3	VA/SF	3.0 KVA
KITCHEN/LAUNDRY	4500	VA				4.5 KVA
RANGES	8000	VA				8.0 KVA
DRYERS	5000	VA				5.0 KVA
REFRIGERATOR	960	VA				1.0 KVA
DISPOSALS	800	VA				0.8 KVA
DISHWASHERS	1200	VA				1.2 KVA
MICROWAVE/HOOD	1500	VA				1.5 KVA
WATER HEATERS	0	VA				0.0 KVA
			SUBTOTAL			25.0 KVA
DEMAND FACTOR						
1ST 10 KW	10.0	KVA	X	100	%	10.0 KVA
REMAINDER	15.0	KVA	X	40	%	6.0 KVA
HVAC (HEAT PUMP)	1.8	KVA	X	100	%	1.8 KVA
HVAC (COOLING)	N/A	KVA	X	100	%	KVA
HVAC (HEATING)	4.2	KVA	X	65	%	2.7 KVA
N.E.C. 220-82						
TOTAL						20.5 KVA
VOLTAGE: 208/120		PHASE: 1				98.6 AMPS

LOAD CENTER SCHEDULE - A10

MAIN: 100A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			REFRIGERATOR	AFCI/GFCI	15/1	14
15	15/2		OUTDOOR HVAC			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	16
17	--		---			LIGHTS & RECEPTACLES	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			SPACE			22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "A10"

SQUARE FOOTAGE	1128	SF	X	3	VA/SF	3.4 KVA
KITCHEN/LAUNDRY	4500	VA				4.5 KVA
RANGES	8000	VA				8.0 KVA
DRYERS	5000	VA				5.0 KVA
REFRIGERATOR	960	VA				1.0 KVA
DISPOSALS	800	VA				0.8 KVA
DISHWASHERS	1200	VA				1.2 KVA
MICROWAVE/HOOD	1500	VA				1.5 KVA
WATER HEATERS	0	VA				0.0 KVA
			SUBTOTAL			25.3 KVA
DEMAND FACTOR						
1ST 10 KW	10.0	KVA	X	100	%	10.0 KVA
REMAINDER	15.3	KVA	X	40	%	6.1 KVA
HVAC (HEAT PUMP)	1.8	KVA	X	100	%	1.8 KVA
HVAC (COOLING)	N/A	KVA	X	100	%	KVA
HVAC (HEATING)	4.2	KVA	X	65	%	2.7 KVA
N.E.C. 220-82						
TOTAL						20.7 KVA
VOLTAGE: 208/120		PHASE: 1				99.3 AMPS

LOAD CENTER SCHEDULE - A8

MAIN: 100A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			REFRIGERATOR	AFCI/GFCI	15/1	14
15	15/2		OUTDOOR HVAC			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	16
17	--		---			LIGHTS & RECEPTACLES	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			SPACE			22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "A8"

SQUARE FOOTAGE	853	SF	X	3	VA/SF	2.6 KVA
KITCHEN/LAUNDRY	4500	VA				4.5 KVA
RANGES	8000	VA				8.0 KVA
DRYERS	5000	VA				5.0 KVA
REFRIGERATOR	960	VA				1.0 KVA
DISPOSALS	800	VA				0.8 KVA
DISHWASHERS	1200	VA				1.2 KVA
MICROWAVE/HOOD	1500	VA				1.5 KVA
WATER HEATERS	0	VA				0.0 KVA
			SUBTOTAL			24.5 KVA
DEMAND FACTOR						
1ST 10 KW	10.0	KVA	X	100	%	10.0 KVA
REMAINDER	14.5	KVA	X	40	%	5.8 KVA
HVAC (HEAT PUMP)	1.8	KVA	X	100	%	1.8 KVA
HVAC (COOLING)	N/A	KVA	X	100	%	KVA
HVAC (HEATING)	4.2	KVA	X	65	%	2.7 KVA
N.E.C. 220-82						
TOTAL						20.3 KVA
VOLTAGE: 208/120		PHASE: 1				97.7 AMPS

JSE Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

MEEKS PARTNERS
16000 Memorial Drive
Suite 170
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

JOB NO.: 22035

X	NOT FOR CONSTRUCTION
	ISSUED FOR PRICING
	ISSUED FOR PERMIT
	ISSUED FOR CONSTRUCTION

SHEET TITLE:
LOAD CENTER SCHEDULES

DRAWING NO.
E0.18

COLORADO LICENSED
MARK W. BINDER
41442
PROFESSIONAL ENGINEER
10/18/24

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LOAD CENTER SCHEDULE - MLA2

MAIN: 125A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			BATHROOM CIRCUIT		20/1	14
15	15/2		OUTDOOR HVAC			REFRIGERATOR	AFCI/GFCI	15/1	16
17	--		---			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "MLA2"

SQUARE FOOTAGE	1386	SF	X 3	VA/SF	4.2 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		26.1 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X 100	%	10.0 KVA
REMAINDER	16.1	KVA	X 40	%	6.4 KVA
HVAC (HEAT PUMP)	2.3	KVA	X 100	%	2.3 KVA
HVAC (COOLING)	N/A	KVA	X 100	%	KVA
HVAC (HEATING)	5.2	KVA	X 65	%	3.4 KVA
N.E.C. 220-82					
TOTAL					22.1 KVA

VOLTAGE: 208/120 PHASE: 1 106.2 AMPS

LOAD CENTER SCHEDULE - C1

MAIN: 125A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	60/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			BATHROOM CIRCUIT		20/1	14
15	25/2		OUTDOOR HVAC			REFRIGERATOR	AFCI/GFCI	15/1	16
17	--		---			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "C1"

SQUARE FOOTAGE	1687	SF	X 3	VA/SF	5.1 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		27.0 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X 100	%	10.0 KVA
REMAINDER	17.0	KVA	X 40	%	6.8 KVA
HVAC (HEAT PUMP)	2.7	KVA	X 100	%	2.7 KVA
HVAC (COOLING)	N/A	KVA	X 100	%	KVA
HVAC (HEATING)	8.1	KVA	X 65	%	5.3 KVA
N.E.C. 220-82					
TOTAL					24.8 KVA

VOLTAGE: 208/120 PHASE: 1 119.1 AMPS

LOAD CENTER SCHEDULE - B6

MAIN: 125A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			BATHROOM CIRCUIT		20/1	14
15	15/2		OUTDOOR HVAC			REFRIGERATOR	AFCI/GFCI	15/1	16
17	--		---			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "B6"

SQUARE FOOTAGE	1399	SF	X 3	VA/SF	4.2 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		26.2 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X 100	%	10.0 KVA
REMAINDER	16.2	KVA	X 40	%	6.5 KVA
HVAC (HEAT PUMP)	2.3	KVA	X 100	%	2.3 KVA
HVAC (COOLING)	N/A	KVA	X 100	%	KVA
HVAC (HEATING)	5.2	KVA	X 65	%	3.4 KVA
N.E.C. 220-82					
TOTAL					22.1 KVA

VOLTAGE: 208/120 PHASE: 1 106.3 AMPS

LOAD CENTER SCHEDULE - B4

MAIN: 125A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	60/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			BATHROOM CIRCUIT		20/1	14
15	25/2		OUTDOOR HVAC			REFRIGERATOR	AFCI/GFCI	15/1	16
17	--		---			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "B4"

SQUARE FOOTAGE	1411	SF	X 3	VA/SF	4.2 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		26.2 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X 100	%	10.0 KVA
REMAINDER	16.2	KVA	X 40	%	6.5 KVA
HVAC (HEAT PUMP)	2.7	KVA	X 100	%	2.7 KVA
HVAC (COOLING)	N/A	KVA	X 100	%	KVA
HVAC (HEATING)	8.1	KVA	X 65	%	5.3 KVA
N.E.C. 220-82					
TOTAL					24.4 KVA

VOLTAGE: 208/120 PHASE: 1 117.5 AMPS

LOAD CENTER SCHEDULE - MLA3

MAIN: 125A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	50/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			BATHROOM CIRCUIT		20/1	14
15	15/2		OUTDOOR HVAC			REFRIGERATOR	AFCI/GFCI	15/1	16
17	--		---			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "MLA3"

SQUARE FOOTAGE	1512	SF	X 3	VA/SF	4.5 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		26.5 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X 100	%	10.0 KVA
REMAINDER	16.5	KVA	X 40	%	6.6 KVA
HVAC (HEAT PUMP)	2.2	KVA	X 100	%	2.2 KVA
HVAC (COOLING)	N/A	KVA	X 100	%	KVA
HVAC (HEATING)	6.0	KVA	X 65	%	3.9 KVA
N.E.C. 220-82					
TOTAL					22.8 KVA

VOLTAGE: 208/120 PHASE: 1 109.5 AMPS

LOAD CENTER SCHEDULE - MLA1

MAIN: 125A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			BATHROOM CIRCUIT		20/1	14
15	15/2		OUTDOOR HVAC			REFRIGERATOR	AFCI/GFCI	15/1	16
17	--		---			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "MLA1"

SQUARE FOOTAGE	979	SF	X 3	VA/SF	2.9 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		24.9 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X 100	%	10.0 KVA
REMAINDER	14.9	KVA	X 40	%	6.0 KVA
HVAC (HEAT PUMP)	2.3	KVA	X 100	%	2.3 KVA
HVAC (COOLING)	N/A	KVA	X 100	%	KVA
HVAC (HEATING)	5.2	KVA	X 65	%	3.4 KVA
N.E.C. 220-82					
TOTAL					21.6 KVA

VOLTAGE: 208/120 PHASE: 1 103.9 AMPS

LOAD CENTER SCHEDULE - B7

MAIN: 125A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	30/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			BATHROOM CIRCUIT		20/1	14
15	15/2		OUTDOOR HVAC			REFRIGERATOR	AFCI/GFCI	15/1	16
17	--		---			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "B7"

SQUARE FOOTAGE	1092	SF	X 3	VA/SF	3.3 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		25.2 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X 100	%	10.0 KVA
REMAINDER	15.2	KVA	X 40	%	6.1 KVA
HVAC (HEAT PUMP)	2.3	KVA	X 100	%	2.3 KVA
HVAC (COOLING)	N/A	KVA	X 100	%	KVA
HVAC (HEATING)	5.2	KVA	X 65	%	3.4 KVA
N.E.C. 220-82					
TOTAL					21.7 KVA

VOLTAGE: 208/120 PHASE: 1 104.5 AMPS

LOAD CENTER SCHEDULE - B5

MAIN: 125A | MLO | VOLTAGE: 208/120 | PHASE: 1 | WIRE: 3 | RECESSED | AIC: 10,000

CKT #	TRIP / POLES	BKR TYPE	DESCRIPTION	PHASE A	PHASE B	DESCRIPTION	BKR TYPE	TRIP / POLES	CKT #
1	50/2	GFCI	RANGE			KITCHEN RECEPTACLES	AFCI	20/1	2
3	--		---			KIT/DINING RECEPTACLES	AFCI	20/1	4
5	30/2	GFCI	DRYER			DISHWASHER	AFCI/GFCI	20/1	6
7	--		---			DISPOSAL	AFCI/GFCI	20/1	8
9	20/1	AFCI/GFCI	MICROWAVE OVEN			WASHER	AFCI/GFCI	20/1	10
11	50/2		INDOOR HVAC			BATHROOM CIRCUIT		20/1	12
13	--		---			BATHROOM CIRCUIT		20/1	14
15	15/2		OUTDOOR HVAC			REFRIGERATOR	AFCI/GFCI	15/1	16
17	--		---			LIGHTS, RECEPT. & ALARMS	AFCI	15/1	18
19			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	20
21			SPD (SEE NOTE 4)			LIGHTS & RECEPTACLES	AFCI	15/1	22
23			SPACE			SPACE			24

NOTES:
1 BREAKERS PROTECTING MULTI-WIRE BRANCH CIRCUITS SHALL BE EQUIPPED WITH A PAD-LOCK DEVICE SO THAT CIRCUITS CAN BE DISCONNECTED SIMULTANEOUSLY.
2 PROVIDE SEPARATE NEUTRAL FOR GFCI PROTECTED CIRCUITS.
3 FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES, OR THOSE DESIGNATED IBC ACCESSIBLE, TYPE A OR B, MAXIMUM HEIGHT TO ANY DEVICE HANDLE SHALL BE 48" AFF.
4 LOAD CENTER TO BE PROVIDED WITH A SURGE PROTECTIVE DEVICE (SPD). SPD SHALL BE INTEGRAL TO THE LOAD CENTER AND MEET ALL REQUIREMENTS OF NEC 215.18

UNIT "B5"

SQUARE FOOTAGE	1159	SF	X 3	VA/SF	3.5 KVA
KITCHEN/LAUNDRY	4500	VA			4.5 KVA
RANGES	8000	VA			8.0 KVA
DRYERS	5000	VA			5.0 KVA
REFRIGERATOR	960	VA			1.0 KVA
DISPOSALS	800	VA			0.8 KVA
DISHWASHERS	1200	VA			1.2 KVA
MICROWAVE/HOOD	1500	VA			1.5 KVA
WATER HEATERS	0	VA			0.0 KVA
			SUBTOTAL		25.4 KVA
DEMAND FACTOR					
1ST 10 KW	10.0	KVA	X 100	%	10.0 KVA
REMAINDER	15.4	KVA	X 40	%	6.2 KVA
HVAC (HEAT PUMP)	2.2	KVA	X 100	%	2.2 KVA
HVAC (COOLING)	N/A	KVA	X 100	%	KVA
HVAC (HEATING)	6.0	KVA	X 65	%	3.9 KVA
N.E.C. 220-82					
TOTAL					22.3 KVA

VOLTAGE: 208/120 PHASE: 1 107.4 AMPS

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. BINDER
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
16600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.: 22035

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SHEET TITLE:
LOAD CENTER SCHEDULES

DRAWING NO.
E0.19

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COMMON AREAS MECHANICAL EQUIPMENT CONNECTION SCHEDULE

DESCRIPTION	CIRCUIT	*VERIFY REQUIREMENTS WITH EQUIPMENT BEING FURNISHED. DISCONNECTS MAY BE INTEGRAL TO EQUIPMENT PER MANUFACTURER LATEST EQUIPMENT BEING FURNISHED AND ITS ASSOCIATED SPECIFICATIONS							
		CONDUCTORS	STARTER/DISCONNECT	BRANCH CIRCUIT					NOTES
				FLA (A)	OCP	/ POLES	VOLTAGE	PHASE	
AH-BC	SEE PANEL SCHEDULES	2#3, 1#8G	DIVISION 23	59.5	80	/ 2	208	1	2,5
HP-BC	SEE PANEL SCHEDULES	2#6, 1#10G	DIVISION 23	23.5	50	/ 2	208	1	1
AH-CL	SEE PANEL SCHEDULES	2#6, 1#10G	DIVISION 23	34.6	45	/ 2	208	1	2,5
HP-CL	SEE PANEL SCHEDULES	2#12, 1#12G	DIVISION 23	10.8	20	/ 2	208	1	1
AH-CR	SEE PANEL SCHEDULES	2#8, 1#10G	DIVISION 23	31.2	40	/ 2	208	1	2,5
HP-CR	SEE PANEL SCHEDULES	2#12, 1#12G	DIVISION 23	8.8	15	/ 2	208	1	1
AH-FT	SEE PANEL SCHEDULES	2#1, 1#8G	DIVISION 23	76.8	100	/ 2	208	1	2,5
HP-FT	SEE PANEL SCHEDULES	2#6, 1#10G	DIVISION 23	24.8	50	/ 2	208	1	1
AH-LE	SEE PANEL SCHEDULES	2#1, 1#8G	DIVISION 23	76.8	100	/ 2	208	1	2,5
HP-LE	SEE PANEL SCHEDULES	2#6, 1#10G	DIVISION 23	24.8	50	/ 2	208	1	1
AH-ML	SEE PANEL SCHEDULES	2#4, 1#10G	DIVISION 23	41.6	60	/ 2	208	1	2,5
HP-ML	SEE PANEL SCHEDULES	2#10, 1#10G	DIVISION 23	12.8	25	/ 2	208	1	1
AH-SL	SEE PANEL SCHEDULES	2#1, 1#8G	DIVISION 23	76.0	100	/ 2	208	1	2,5
HP-SL	SEE PANEL SCHEDULES	2#6, 1#10G	DIVISION 23	24.8	50	/ 2	208	1	1
DFH/DHP MDF	SEE PANEL SCHEDULES	2#10, 1#10G	DIVISION 23	20.0	30	/ 2	208	1	2,6,12
DFH/DHP MT	SEE PANEL SCHEDULES	2#10, 1#10G	DIVISION 23	20.0	30	/ 2	208	1	2,6,12
EPH-A	SEE PANEL SCHEDULES	3#12, 1#12G	DIVISION 23	3.2	20	/ 3	480	3	1
EUH-A	SEE PANEL SCHEDULES	3#10, 1#10G	DIVISION 23	13.6	25	/ 3	208	3	1
EUH-B	SEE PANEL SCHEDULES	2#4, 1#10G	DIVISION 23	38.2	60	/ 2	208	1	1
EUH-C	SEE PANEL SCHEDULES	3#6, 1#10G	DIVISION 23	33.4	55	/ 3	208	3	1
EWH-A	SEE PANEL SCHEDULES	2#10, 1#10G	DIVISION 23	15.4	30	/ 2	208	1	1
EF-DS	SEE PANEL SCHEDULES	2#12, 1#12G	DIVISION 23	1.1	20	/ 1	120	1	2,3
EF-LD	SEE PANEL SCHEDULES	2#12, 1#12G	DIVISION 23	7.2	15	/ 1	120	1	3
EF-PR	SEE PANEL SCHEDULES	2#12, 1#12G	DIVISION 23	7.2	15	/ 1	120	1	3
GEF-1	SEE PANEL SCHEDULES	3#10, 1#10G	DIVISION 23	16.8	30	/ 3	480	3	1
GEF-2A	SEE PANEL SCHEDULES	3#12, 1#12G	DIVISION 23	7.6	15	/ 3	480	3	1
GEF-2B	SEE PANEL SCHEDULES	3#12, 1#12G	DIVISION 23	7.6	15	/ 3	480	3	1
GEF-2C	SEE PANEL SCHEDULES	3#12, 1#12G	DIVISION 23	7.6	15	/ 3	480	3	1
BP-1	SEE PANEL SCHEDULES	3#4, 1#10G	VFD	38.0	60	/ 3	480	3	5,8
EF- ES	SEE PANEL SCHEDULES	2#12, 1#12G	DIVISION 23	4.0	20	/ 1	120	1	3
EF-RR	SEE PANEL SCHEDULES	2#12, 1#12G	DIVISION 23	4.0	20	/ 1	120	1	3
DFH/DHP MER-1A,MER1B, MER1C	SEE PANEL SCHEDULES	2#10, 1#10G	DIVISION 23	20.0	30	/ 2	208	1	2,6,12
DFH/DHP ER-1A	SEE PANEL SCHEDULES	2#12, 1#12G	DIVISION 23	12.0	20	/ 2	208	1	2,6,12
DFH/DHP EL-1, EL-2	SEE PANEL SCHEDULES	2#12, 1#12G	DIVISION 23	12.8	20	/ 2	208	1	2,6,12
DFH/DHP DS	SEE PANEL SCHEDULES	2#10, 1#10G	DIVISION 23	20.0	30	/ 2	208	1	2,6,12
EUH-D	SEE PANEL SCHEDULES	2#6, 1#10G	DIVISION 23	28.9	50	/ 2	208	1	2
DFH/DHP ER-3A, 3B, 3C, 4A, 5A, 5B, 5C, 5D, 6A, 7A, 7B, 7C	SEE PANEL SCHEDULES	2#10, 1#10G	DIVISION 23	14.4	25	/ 2	208	1	2,6,12
DFH/DHP IDF-3A, 3B, 4A, 4B, 5A, 5B, 6A, 6B, 7A, 7B	SEE PANEL SCHEDULES	2#12, 1#12G	DIVISION 23	12.0	20	/ 2	208	1	2,6,12
EF-TD 2,3,4,5,6,7	SEE PANEL SCHEDULES	2#12, 1#12G	DIVISION 23	39.2	20	/ 1	120	1	3
RTU	SEE PANEL SCHEDULES	3#4, 1#10G	DIVISION 23	2.8	60	/ 3	208	3	1, 5
EF-PE, SE	SEE PANEL SCHEDULES	2#12, 1#12G	DIVISION 23	0.0	20	/ 1	120	1	3

NOTES:
1. DISCONNECT IS FURNISHED BY THE MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR
2. FACTORY MOUNTED DISCONNECT (OR INTEGRAL DISCONNECT SWITCH)
3. REFER TO MECHANICAL SCHEDULES FOR TYPE OF OPERATION / SWITCH ('CONTROLLED BY')
4. INTERLOCK WITH AIR HANDLER. REFER TO MECHANICAL FOR MORE INFORMATION
5. ALL ELECTRICAL SHALL BE SINGLE POINT CONNECTION AND PER THE MANUFACTURER WIRIING DIARGRAM
6. INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT
7. MOTORIZED DAMPER(S) PER MANUFACTURER SPECIFICATIONS AND MECHANICAL SCHEDULES. PROVIDE ACCORDING PER MOST COST EFFECTIVE METHOD
8. VFD, VERIFY VFD SELECTION WITH MECHANICAL AND/OR PLUMBING
9. DUCT MOUNTED SMOKE DETECTOR. VERIFY QUANTITY AND EXACT LOCATION WITH MECHANICAL
10. PROVIDE SEPARATE 120V WIRING PACKAGE PER MANUFACTURER SPECIFICATIONS
11. COORDINATE WITH ELEVATOR PIT & ELEVATOR MANUFACTURER
12. PROVIDE CONDENATE PUMP (CP-1) PER MECHANICAL LATEST PLANS AND FURNISHED MANUFACTURER REQUIREMENTS AS REQUIRED
VERIFY ALL APPROVED SELECTIONS BEING FURNISHED WITH MECHANICAL CONTRACTOR AND ENGINEER AND
AND PROVIDE ACCORDINGLY BASED ON MANUFACTURER AND ASSOCIATED SPECIFICATIONS PRIOR TO
ROUGH-IN TO ENSURE MECHANICAL, PLUMBING AND ELECTRICAL ARE FULLY COORDINATED.

EQUIPMENT CONNECTION NOTES

1. PROVIDE CONNECTION TO ALL MECHANICAL, PLUMBING, I.T., ETC. EQUIPMENT AS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEMS THROUGHOUT THE PROJECT. REFER TO MECHANICAL, PLUMBING, I.T. AND ARCHITECTURAL DRAWINGS FOR EQUIPMENT REQUIRING ELECTRICAL SERVICE BUT NOT NECESSARILY SHOWN ON ELECTRICAL PLANS.
2. WHERE MECHANICAL OR PLUMBING EQUIPMENT REQUIRES ELECTRICAL SERVICE, INCLUDE LOCAL SERVICE DISCONNECT AT EACH PIECE OF EQUIPMENT IN ACCORD WITH NEC AND IN ACCORD WITH EQUIPMENT MANUFACTURERS INSTALLATION INSTRUCTIONS; SIZE AS REQUIRED TO ACCOMODATE LOAD REQUIREMENTS OF EQUIPMENT. WHERE TWO OR MORE ITEMS ARE CONNECTED TO THE SAME BRANCH CIRCUIT, PROVIDE A FUSED DISCONNECT FOR EACH PIECE OF EQUIPMENT.
3. PRIOR TO ORDERING OR PURCHASING PANELBOARDS, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENT WITH THE MECHANICAL/PLUMBING CONTRACTOR. BREAKER AND BRANCH CIRCUIT SHALL MATCH NAMEPLATE DATA OF EQUIPMENT ACTUALLY FURNISHED.
4. ALL DISCONNCECTS SHALL BE SEPERATE AND INDEPENDENTLY MOUNTED FROM THE MECHANICAL/PLUMBING UNIT.
5. FOR EVERY 100 FEET INCREASE WITE SIZE TO THE NEXT AVAILABLE AMPACITY SIZE IN NEC TABLE 316. 60 DEGREE C.
6. PROVIDE HACR BREAKERS FOR AN Y MECHANICAL/PLUMBING EQUIPMENT BRANCH CIRCUITRY.
7. COORDINATE EQUIPMENT CONNECTIONS AND LOCATION WITH MECHANICAL/PLUMBING CONTRACTOR.
8. CONTRACTOR SHALL COORDINATE SCA RATING (I.E. 5000 AMPS) PER MANUFACTURER SPECIFICATIONS. RECOMMENDATIONS AND REQUIREMENTS. MANUFACTURER SHALL PROVIDE EQUIPMENT TO ACCOUNT FOR REQUIRED SCA RATING PRIOR TO MANUFACTURER'S EQUIPMENT BEING FURNISHED OR CONTROL PANEL PRIOR TO MANUFACTURER MOTOR CONTROLLER DEVICE, ETC. AS REQUIRED.
9. VOLTAGE AND MOCP INFORMATION LISTED ON THIS SHEET SHALL OVERRIEDE ANY CONFLICTING BREAKERS LISTED ON PANEL SCHEDULE SHEETS.

GRANT ST- 'DWELLING' CONNECTION EQUIPMENT SCHEDULE

DESCRIPTION	CIRCUIT	*VERIFY REQUIREMENTS WITH EQUIPMENT BEING FURNISHED. DISCONNECTS MAY BE INTEGRAL TO EQUIPMENT PER MANUFACTURER LATEST EQUIPMENT BEING FURNISHED AND ITS ASSOCIATED SPECIFICATIONS							
		CONDUCTORS	STARTER/DISCONNECT	BRANCH CIRCUIT					NOTES
				FLA (A)	OCP	/ POLES	VOLTAGE	PHASE	
AH- S1, A0	SEE LOAD CENTER SCHEDULES	2#10, 1#10G	DIVISION 23	19.9	30	/ 2	208	1	2,5
HP- S1, A0	SEE LOAD CENTER SCHEDULES	2#12, 1#12G	DIVISION 23	10.7	20	/ 2	208	1	1
AH- A1, A2, A3, A4 , A5, A6, A7, A8, A9, A10, A11, B1, B2, B6, B7, ML-A1, ML-A2	SEE LOAD CENTER SCHEDULES	2#10, 1#10G	DIVISION 23	20.0	30	/ 2	208	1	2,5
HP- A1, A2, A3, A4 , A5, A6, A7, A8, A9, A10, A11, B1, B2, B6, B7, ML-A1, ML-A2	SEE LOAD CENTER SCHEDULES	2#12, 1#12G	DIVISION 23	8.7	15	/ 2	208	1	1
AH- B3, B5, ML-A3, ML-A4, ML-B1	SEE LOAD CENTER SCHEDULES	2#6, 1#10G	DIVISION 23	29.0	50	/ 2	208	1	2,5
HP- B3, B5, ML-A3, ML-A4, ML-B1	SEE LOAD CENTER SCHEDULES	2#12, 1#12G	DIVISION 23	10.8	15	/ 2	208	1	1
AH- B4, C1, ML-B2	SEE LOAD CENTER SCHEDULES	2#4, 1#10G	DIVISION 23	38.9	60	/ 2	208	1	2,5
HP - B4, C1, ML-B2	SEE LOAD CENTER SCHEDULES	2#10, 1#10G	DIVISION 23	13.0	25	/ 2	208	1	1
AH - PH1	SEE LOAD CENTER SCHEDULES	2#4, 1#10G	DIVISION 23	38.9	60	/ 2	208	1	2,5
HP - PH1	SEE LOAD CENTER SCHEDULES	2#10, 1#10G	DIVISION 23	15.4	30	/ 2	208	1	1
EF-A	SEE LOAD CENTER SCHEDULES	2#12, 1#12G	-	0.2	20	/ 1	120	1	3
EF-B	SEE LOAD CENTER SCHEDULES	2#12, 1#12G	-	0.2	20	/ 1	120	1	3
EF-C	SEE LOAD CENTER SCHEDULES	2#12, 1#12G	-	0.3	20	/ 1	120	1	3

NOTES:
1. DISCONNECT IS FURNISHED BY THE MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR
2. FACTORY MOUNTED DISCONNECT (OR INTEGRAL DISCONNECT SWITCH)
3. REFER TO MECHANICAL SCHEDULES FOR TYPE OF OPERATION / SWITCH ('CONTROLLED BY')
4. INTERLOCK WITH AIR HANDLER. REFER TO MECHANICAL FOR MORE INFORMATION
5. ALL ELECTRICAL SHALL BE SINGLE POINT CONNECTION AND PER THE MANUFACTURER WIRIING DIARGRAM
6. INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT
7. MOTORIZED BACKDRAFT DAMPER PER MANUFACTURER SPECIFICATIONS
8. VFD, VERIFY VFD SELECTION WITH MECHANICAL
9. DUCT MOUNTED SMOKE DETECTOR. VERIFY QUANTITY AND EXACT LOCATION WITH MECHANICAL
10. PROVIDE SEPARATE 120V WIRING PACKAGE PER MANUFACTURER SPECIFICATIONS
11. PROVIDE CONDENATE PUMP (CP-1) PER MECHANICAL LATEST PLANS AND FURNISHED MANUFACTURER REQUIREMENTS AS REQUIRED
*VERIFY ALL APPROVED SELECTIONS BEING FURNISHED WITH MECHANICAL CONTRACTOR AND ENGINEER AND PROVIDE ACCORDINGLY BASED ON MANUFACTURER AND ASSOCIATED SPECIFICATIONS PRIOR TO ROUGH-IN TO ENSURE MECHANICAL, PLUMBING AND ELECTRICAL ARE FULLY COORDINATED.

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

MEEKS PARTNERS
16000 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/09/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

JOB NO.: 22035

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SHEET TITLE:
EQUIPMENT CONNECTION SCHEDULES

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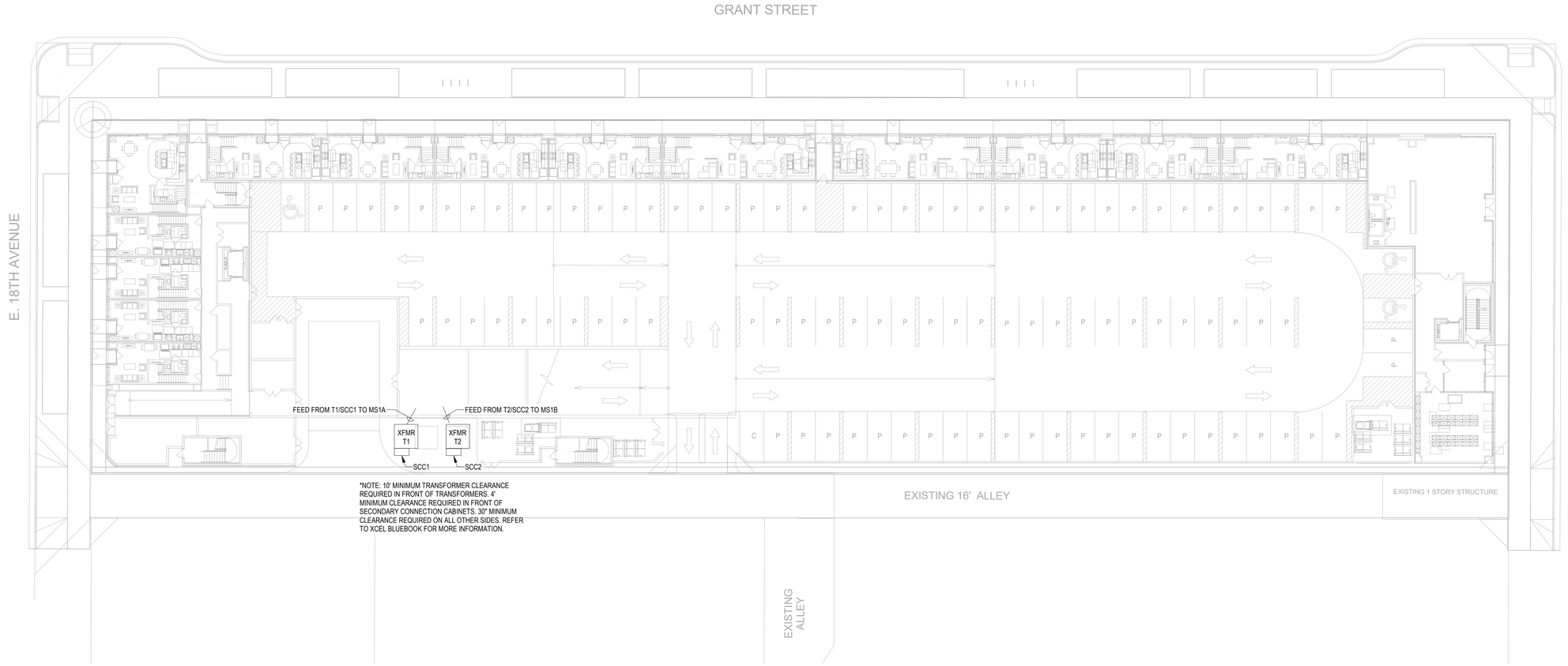
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MARK W. BINDER
PROFESSIONAL ENGINEER
41442
10/18/24

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SITE PLAN NOTES (POWER)

1. REFER TO FIRST ELECTRICAL SHEET, 'ELECTRICAL GENERAL NOTES', FOR INFORMATION ON WIRE SIZES, MEANS/METHODS, AND LENGTH OF CONDUIT RUNS VERSUS VOLTAGE DROP REQUIREMENTS.
2. COORDINATE ALL SITE WORK WITH UTILITY AND LOCAL JURISDICTION INCLUDING BUT NOT LIMITED TO TRANSFORMER LOCATIONS, PRIMARY AND SECONDARY REQUIREMENTS (CONDUIT QUANTITY AND ROUTING), METER CENTER LOCATIONS AND REQUIREMENTS, PRIMARY SWITCH EQUIPMENT, CLEARANCES AND ACCESS FOR ELECTRICAL EQUIPMENT FOR A COMPLETE SITE POWER DISTRIBUTION SYSTEM FOR THE ENTIRE PROJECT.
3. REFER TO RISER DIAGRAM(S) FOR MORE INFORMATION.
4. REFER TO CIVIL FOR EXACT LOCATIONS OF UTILITY TRANSFORMERS, PRIMARY UTILITY SWITCH CABINET, EQUIPMENT, ETC. REFER TO LANDSCAPE ARCHITECTURAL DOCUMENTS FOR ADDITIONAL POWER REQUIREMENTS PER LATEST LANDSCAPE ARCHITECTURAL PLANS TO ENSURE POWER IS BEING PROVIDED PER LATEST DIRECTIONS PRIOR TO FINAL ROUGH-IN AND INSTALLATIONS.



1 POWER SITE PLAN

Scale: 1" = 20'-0"

COLORADO LICENSED
MARK W. BIGLIN
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
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16000 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

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POWER SITE PLAN

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SITE PLAN NOTES (LIGHTING)

1. REFER TO FIRST ELECTRICAL SHEET, 'ELECTRICAL GENERAL NOTES', FOR INFORMATION ON WIRE SIZES, MEANS/METHODS, AND LENGTH OF CONDUIT RUNS VERSUS VOLTAGE DROP REQUIREMENTS.
2. COORDINATE ALL UNDERGROUND UTILITY AND BRANCH CIRCUIT CONDUIT WITH CIVIL AND UTILITY COMPANY.



1 LIGHTING SITE PLAN

Scale: 1" = 20'-0"

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Suite 1000
Houston, Texas 77079
281.558.8787

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JOB NO.: 22035

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SHEET TITLE:

LIGHTING SITE PLAN

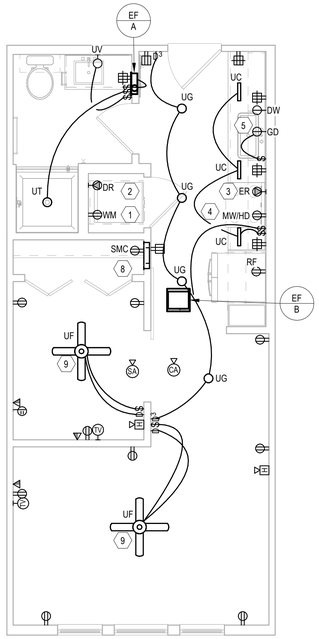
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p. 303.586.2375

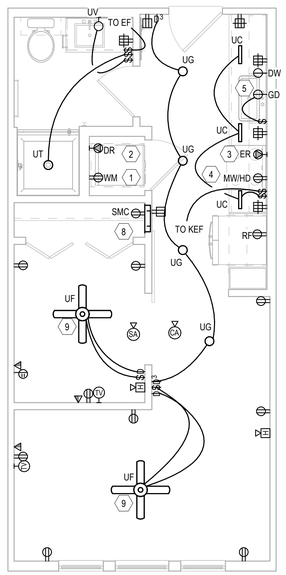
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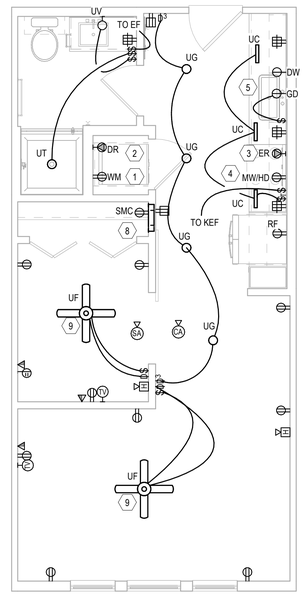
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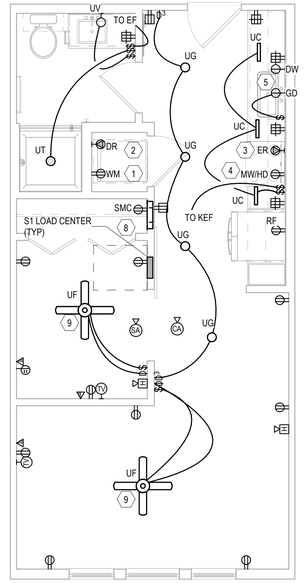
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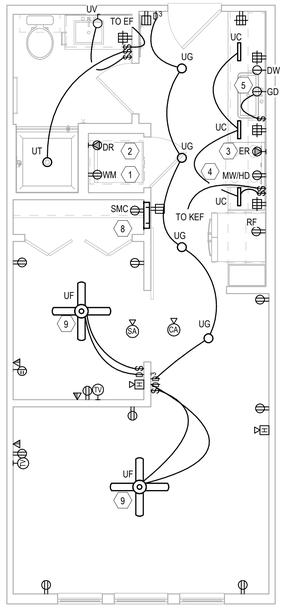
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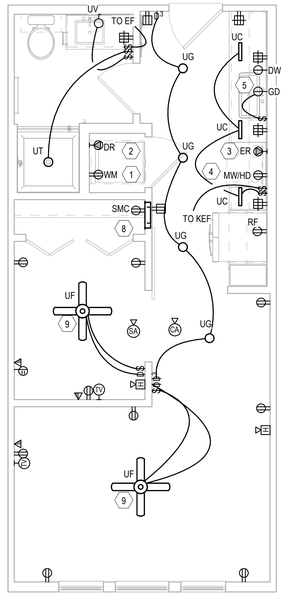
5 UNIT S1D

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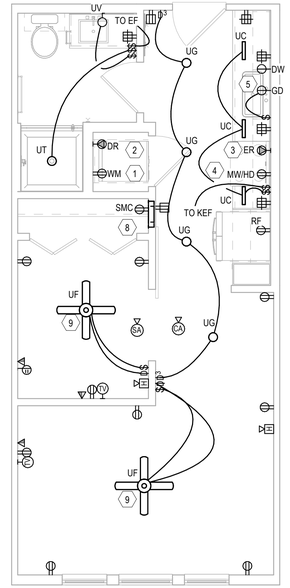
4 UNIT S1C

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



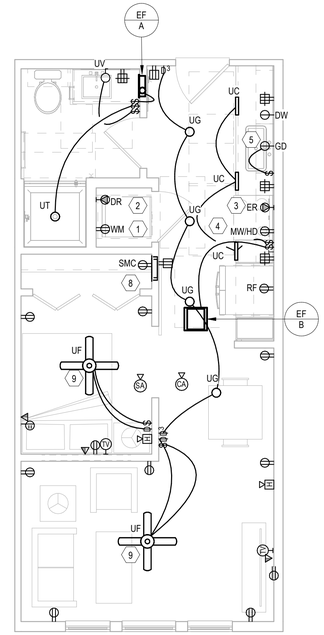
3 UNIT S1B

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



2 UNIT S1A

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



1 UNIT S1

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

UNIT PLANS - GENERAL NOTES

1. LOCATION OF SMOKE ALARMS SHALL BE NO LESS THAN 36" FROM A BATHROOM DOOR, SUPPLY AIR REGISTER, OR TIP OF A CEILING FAN BLADE, AND SHALL BE NO LESS THAN 10' FROM A FIXED COOKING APPLIANCE. WHERE WALL MOUNTED, TOP OF DEVICE SHALL BE NO GREATER THAN 12" FROM CEILING. COORDINATE LOCATION WITH SOFFITS AND CROWN MOLDING (WHERE PRESENT).
2. SMOKE AND CO ALARMS SHALL BE WIRED TO AN UNSWITCHED LIGHTING AND RECEPTACLE CIRCUIT. ALARM DEVICES WITHIN A DWELLING UNIT SHALL BE PROVIDED WITH AUXILIARY CONTACTS AND WIRED SO THAT UPON THE ACTIVATION OF ANY ALARM IN THE DWELLING UNIT, ALL SMOKE AND CO ALARMS WITHIN THE DWELLING SHALL SIGNAL AN ALARM.
3. REFER TO "ELECTRICAL DEVICES-DWELLING UNIT KITCHEN" DETAIL INCLUDED IN THESE DRAWINGS FOR DIMENSIONAL INFORMATION OF DEVICES AT CORNERS (WHERE APPLICABLE).
4. ALL 120V, 15-AND 20-AMP RECEPTACLES IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT TYPE.
5. OUTLET BOXES INSTALLED FOR CEILING FANS SHALL BE UL-LISTED "FOR USE WITH CEILING FANS".
6. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR APPLICABLE CIRCUIT REQUIREMENTS.
7. PRIOR TO ROUGH-IN, CONTRACTOR SHALL:
   - COORDINATE EXACT REQUIREMENTS OF ALL EQUIPMENT AND APPLIANCES FURNISHED BY OTHERS.
   - COORDINATE LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL/INTERIORS DRAWINGS.
8. SEVERAL DWELLING UNIT CIRCUITS AND RECEPTACLES ARE REQUIRED TO BE AFCI-AND/OR GFCI-PROTECTED. REFER TO DRAWINGS AND LOAD CENTER SCHEDULES FOR MORE INFORMATION.
9. CONTRACTOR SHALL ENSURE ALL WALL MOUNTED RECEPTACLES LOCATED AT EACH WINDOW ARE COORDINATED FOR EACH UNIT THROUGHOUT THE PROJECT PRIOR TO ROUGH-IN AND WITH THE ARCHITECT. THIS IS TO ENSURE NO UNIT TYPE ONE OFF CONDITIONS WHERE ONE OF THE UNITS WERE UPGRADED TO GET A FULL HEIGHT WINDOW THAT WOULD TRIGGER A FLOOR BOX OUTLET TO MAINTAIN REQUIRED NEC 210.52 SPACING. NOTIFY THE ENGINEER IF ANY DESCREPANCIES BEFORE ROUGH-IN, CONCRETE POURS, FLOORING INSTALLATIONS, ETC.
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11. FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES (5% OF DWELLINGS): LOAD CENTER SHALL BE INSTALLED SO THAT NO TRIM LATCH OR BREAKER IS GREATER THAN 48" AFF.
    A TOGGLE SWITCH SHALL BE FIELD-INSTALLED AND WIRED FOR THE RANGE HOOD/LIGHT CIRCUIT. SWITCH SHALL BE MOUNTED ABOVE COUNTER WITHIN REQUIRED REACH RANGES.
12. FOR DWELLING UNITS DESIGNATED TO HAVE COMMUNICATION FEATURES (2% OF DWELLINGS) FOR SENSORY-IMPAIRED (HEARING OR VISION):
    - FURNISH AND INSTALL AN EDWARDS (OR EQUAL) "DOORBELL" SYSTEM (CAT# 7005-G5), CONSISTING OF A LOW-VOLTAGE TRANSFORMER, PUSHBUTTON AND HORN/STROBE. LOCATE PUSHBUTTON WITH COVERPLATE (CAT# 147-10) OUTSIDE OF ENTRY DOOR, TRANSFORMER CONCEALED WITHIN CLOTHES CLOSET, AND HORN/STROBE WITHIN LIVING ROOM.
    - EACH FIRE ALARM SYSTEM AUDIBLE APPLIANCE SHALL BE EQUIPPED WITH A VISUAL DEVICE.
    - A FIRE ALARM VISUAL DEVICE SHALL BE INSTALLED IN EACH BATHROOM.
    - REFER TO DETAIL INCLUDED IN THESE DRAWINGS FOR WIRING DIAGRAM OF SMOKE ALARMS AND FIRE ALARM DEVICES.
13. CONTRACTOR SHALL ENSURE PRIOR TO ROUGH-IN AND FOUNDATION POUR ALL RECEPTACLES LOCATED AT/UNDER WINDOWSILLS ARE BEING COORDINATED WITH ANY SPECIAL UNIT TYPE CONDITIONS REGARDING NORMAL HEIGHT VS POSSIBLY FULL HEIGHT WINDOWS, CONFIRM PER LATEST ARCHITECTURAL WINDOW SCHEDULES/PLANS TRIGGERING A FLOOR BOX INSTALLATION IN LIEU OF A WALL MOUNTED DUPLEX. CONTRACTOR SHALL ENSURE ANY FLOOR BOX INSTALLATIONS ARE BEING INSTALLED PER NEC 210.52 REQUIREMENTS AND EXACT LOCATION SHALL BE COORDINATED PER ARCHITECT.

UNIT PLANS - KEYNOTES

KEY VALUE	NOTES
1	NEMA 5-20R FOR CLOTHES WASHER. CIRCUIT SHALL BE 2#12, #12G
2	NEMA 14-30R FOR CLOTHES DRYER. CIRCUIT SHALL BE 3#10, #10G.
3	NEMA 14-50R FOR RANGE / OVEN. CIRCUIT SHALL BE 3#6, #10G.
4	NEMA 5-20R FOR MICROWAVE / EXHAUST HOOD. CIRCUIT SHALL BE 2#12, #12G. LOCATE RECEPTACLE IN CABINETRY ABOVE.
5	FOR SINK DISPOSAL/DISHWASHER CONNECTION, INSTALL A SINGLE NEMA 5-20R RECEPTACLE FOR EACH APPLIANCE WITHIN BASE CABINET. RECEPTACLES SHALL BE LOCATED ADJACENT TO DISHWASHER IN AN ACCESSIBLE LOCATION.
6	DISCONNECT SWITCH FOR AIR-HANDLING UNIT. REFER TO 'DWELLING MECHANICAL SCHEDULE' FOR MORE INFORMATION.
7	INSTALL A JUNCTION BOX FOR FUTURE COUNTER TOP RECEPTACLES, OR INSTALL 'POP UP' RECPTACLES INTO COUNTER TOP.
8	CONTRACTOR TO FURNISH AND INSTALL A STRUCTURED MEDIA CABINET (SMC) IN EACH DWELLING UNIT. COORDINATE EXACT LOCATION AND TYPE WITH TELECOM CONSULTANT.
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ELECTRICAL UNITS ABBREVIATIONS

DR	ELECTRIC DRYER
DW	DISHWASHER
GD	GARBAGE DISPOSAL
GD/DW	GARBAGE DISPOSAL / DISHWASHER
ER	ELECTRIC RANGE
HD	HOOD
MW	MICROWAVE
MW/HD	MICROWAVE / HOOD
PDS	PNEUMATIC DISPOSAL SWITCH
RF	REFRIGERATOR
SMC	STRUCTURED MEDIA CABINET
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MARK W. BINDER
COLORADO LICENSED
41442
PROFESSIONAL ENGINEER
10/18/24

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	04/09/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
16000 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

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GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
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UNIT PLANS

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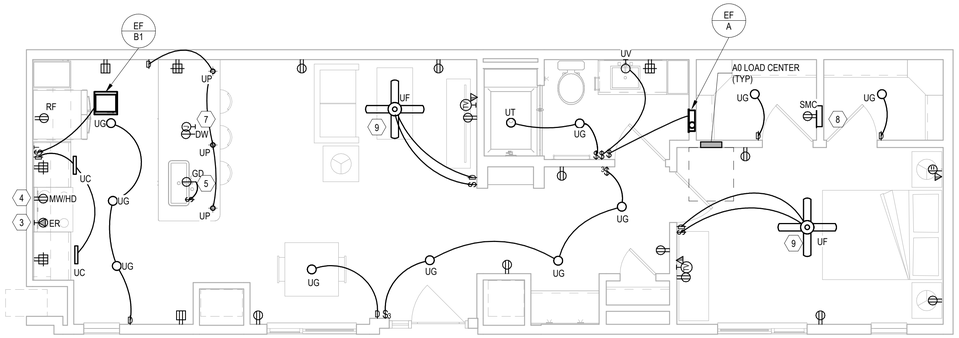
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555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

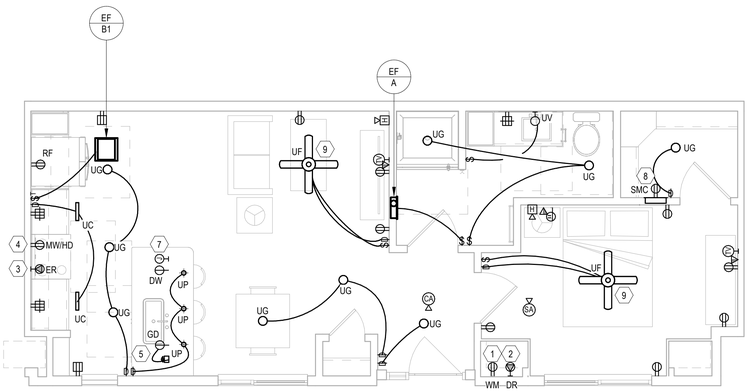
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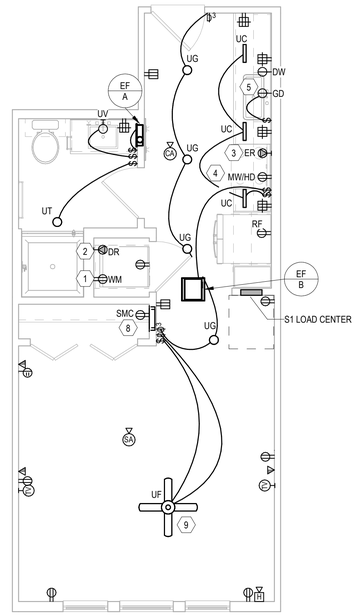
3 UNIT A0Z

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



2 UNIT A0Y

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



1 UNIT S1H

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Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. BINDER
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
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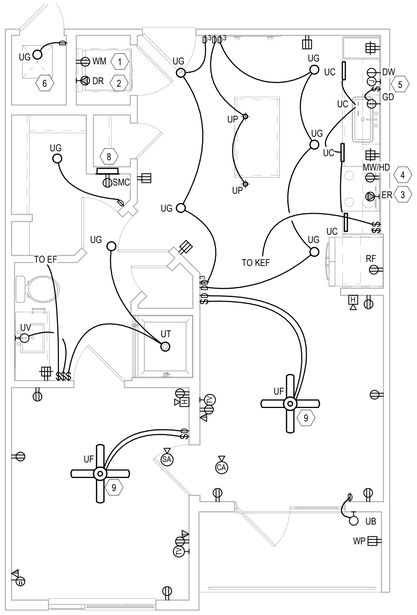
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UNIT PLANS

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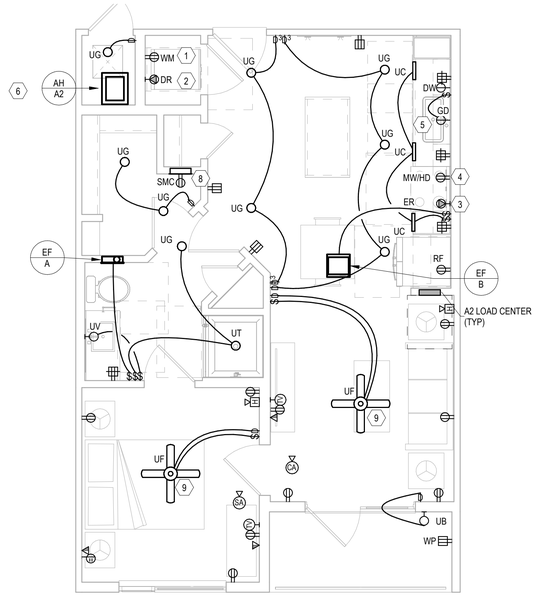
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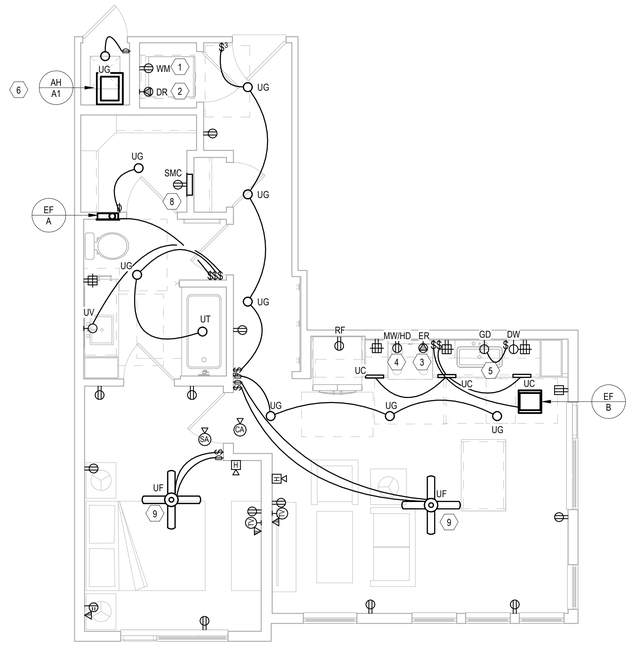
4 UNIT A2A

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



3 UNIT A2

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



1 UNIT A1

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UNIT PLANS - GENERAL NOTES

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Abacus Capital Group

JOB NO.: 22035

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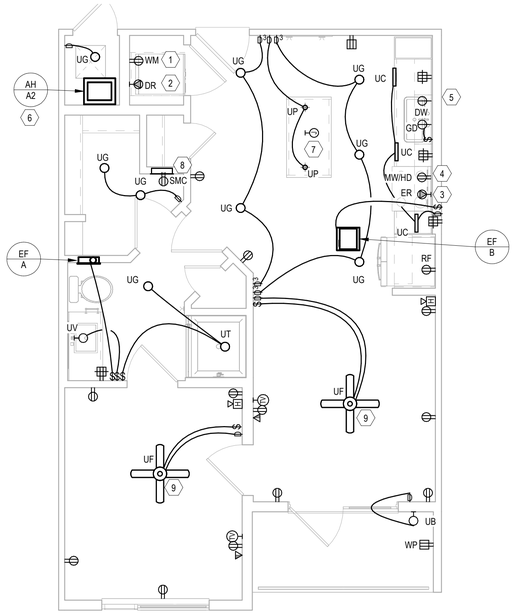
UNIT PLANS

DRAWING NO.

E2.02

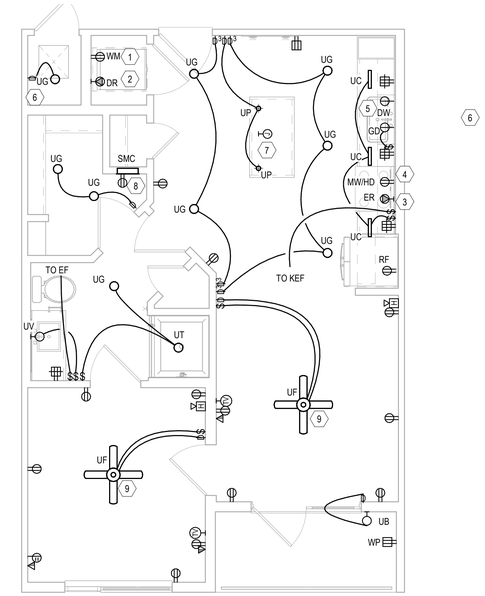
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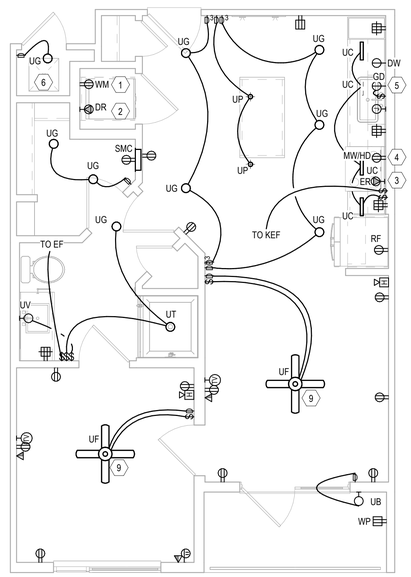
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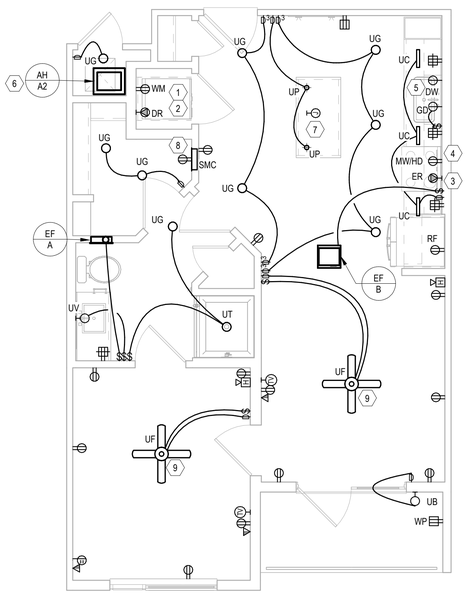
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2 UNIT A2C

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



1 UNIT A2B

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

UNIT PLANS - GENERAL NOTES

1. LOCATION OF SMOKE ALARMS SHALL BE NO LESS THAN 36" FROM A BATHROOM DOOR, SUPPLY AIR REGISTER, OR TIP OF A CEILING FAN BLADE, AND SHALL BE NO LESS THAN 10' FROM A FIXED COOKING APPLIANCE. WHERE WALL MOUNTED, TOP OF DEVICE SHALL BE NO GREATER THAN 12" FROM CEILING. COORDINATE LOCATION WITH SOFFITS AND CROWN MOLDING (WHERE PRESENT).
2. SMOKE AND CO ALARMS SHALL BE WIRED TO AN UNSWITCHED LIGHTING AND RECEPTACLE CIRCUIT. ALARM DEVICES WITHIN A DWELLING UNIT SHALL BE PROVIDED WITH AUXILIARY CONTACTS AND WIRED SO THAT UPON THE ACTIVATION OF ANY ALARM IN THE DWELLING UNIT, ALL SMOKE AND CO ALARMS WITHIN THE DWELLING SHALL SIGNAL AN ALARM.
3. REFER TO "ELECTRICAL DEVICES-DWELLING UNIT KITCHEN" DETAIL INCLUDED IN THESE DRAWINGS FOR DIMENSIONAL INFORMATION OF DEVICES AT CORNERS (WHERE APPLICABLE).
4. ALL 120V, 15-AND 20-AMP RECEPTACLES IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT TYPE.
5. OUTLET BOXES INSTALLED FOR CEILING FANS SHALL BE UL-LISTED "FOR USE WITH CEILING FANS".
6. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR APPLICABLE CIRCUIT REQUIREMENTS.
7. PRIOR TO ROUGH-IN, CONTRACTOR SHALL:
   - COORDINATE EXACT REQUIREMENTS OF ALL EQUIPMENT AND APPLIANCES FURNISHED BY OTHERS.
   - COORDINATE LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL/INTERIORS DRAWINGS.
8. SEVERAL DWELLING UNIT CIRCUITS AND RECEPTACLES ARE REQUIRED TO BE AFCI-AND/OR GFCI-PROTECTED. REFER TO DRAWINGS AND LOAD CENTER SCHEDULES FOR MORE INFORMATION.
9. CONTRACTOR SHALL ENSURE ALL WALL MOUNTED RECEPTACLES LOCATED AT EACH WINDOW ARE COORDINATED FOR EACH UNIT THROUGHOUT THE PROJECT PRIOR TO ROUGH-IN AND WITH THE ARCHITECT. THIS IS TO ENSURE NO UNIT TYPE ONE OFF CONDITIONS WHERE ONE OF THE UNITS WERE UPGRADED TO GET A FULL HEIGHT WINDOW THAT WOULD TRIGGER A FLOOR BOX OUTLET TO MAINTAIN REQUIRED NEC 210.52 SPACING. NOTIFY THE ENGINEER IF ANY DESCREPANCIES BEFORE ROUGH-IN, CONCRETE POURS, FLOORING INSTALLATIONS, ETC.
10. CONTRACTOR SHALL COORDINATE CLOSELY WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE PROPER OUTLET PLACEMENT ARE BEING INSTALLED FOR LAUNDRY CONNECTIONS WITHOUT CONFLICTS OF OTHER TRADES AND ALSO BEING INSTALLED PER MANUFACTURER BEING FURNISHED.
11. FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES (5% OF DWELLINGS): LOAD CENTER SHALL BE INSTALLED SO THAT NO TRIM LATCH OR BREAKER IS GREATER THAN 48" AFF.
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12. FOR DWELLING UNITS DESIGNATED TO HAVE COMMUNICATION FEATURES (2% OF DWELLINGS) FOR SENSORY-IMPAIRED (HEARING OR VISION):
    - FURNISH AND INSTALL AN EDWARDS (OR EQUAL) "DOORBELL" SYSTEM (CAT# 7005-G5), CONSISTING OF A LOW-VOLTAGE TRANSFORMER, PUSHBUTTON AND HORN/STROBE. LOCATE PUSHBUTTON WITH COVERPLATE (CAT# 147-10) OUTSIDE OF ENTRY DOOR, TRANSFORMER CONCEALED WITHIN CLOTHES CLOSET, AND HORN/STROBE WITHIN LIVING ROOM.
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UNIT PLANS - KEYNOTES

KEY VALUE	NOTES
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2	NEMA 14-30R FOR CLOTHES DRYER. CIRCUIT SHALL BE 3#10, #10G.
3	NEMA 14-50R FOR RANGE / OVEN. CIRCUIT SHALL BE 3#6, #10G.
4	NEMA 5-20R FOR MICROWAVE / EXHAUST HOOD. CIRCUIT SHALL BE 2#12, #12G. LOCATE RECEPTACLE IN CABINETRY ABOVE.
5	FOR SINK DISPOSAL/DISHWASHER CONNECTION, INSTALL A SINGLE NEMA 5-20R RECEPTACLE FOR EACH APPLIANCE WITHIN BASE CABINET. RECEPTACLES SHALL BE LOCATED ADJACENT TO DISHWASHER IN AN ACCESSIBLE LOCATION.
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7	INSTALL A JUNCTION BOX FOR FUTURE COUNTER TOP RECEPTACLES, OR INSTALL 'POP UP' RECPTACLES INTO COUNTER TOP.
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ELECTRICAL UNITS ABBREVIATIONS

DR	ELECTRIC DRYER
DW	DISHWASHER
GD	GARBAGE DISPOSAL
GD/DW	GARBAGE DISPOSAL / DISHWASHER
ER	ELECTRIC RANGE
HD	HOOD
MW	MICROWAVE
MW/HD	MICROWAVE / HOOD
PDS	PNEUMATIC DISPOSAL SWITCH
RF	REFRIGERATOR
SMC	STRUCTURED MEDIA CABINET
WM	WASHING MACHINE

COLORADO LICENSED
MARK W. BIGLIN
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
1600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

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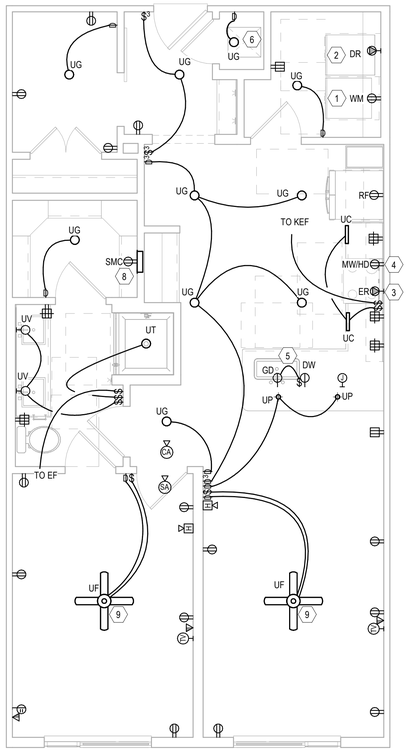
DRAWING NO.
E2.03

JSE Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

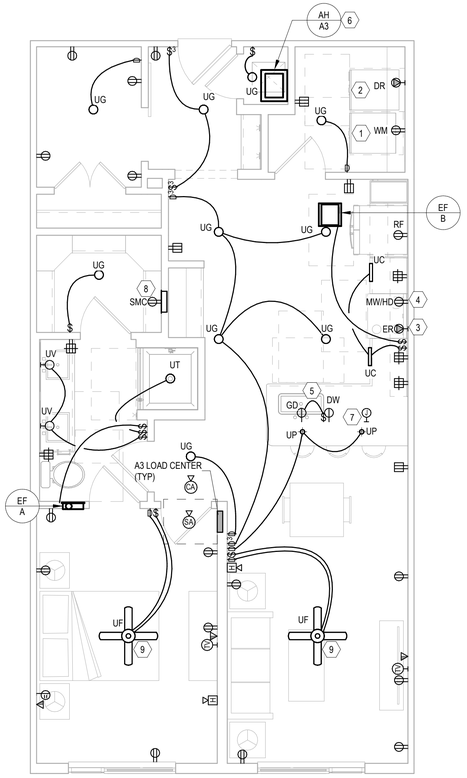
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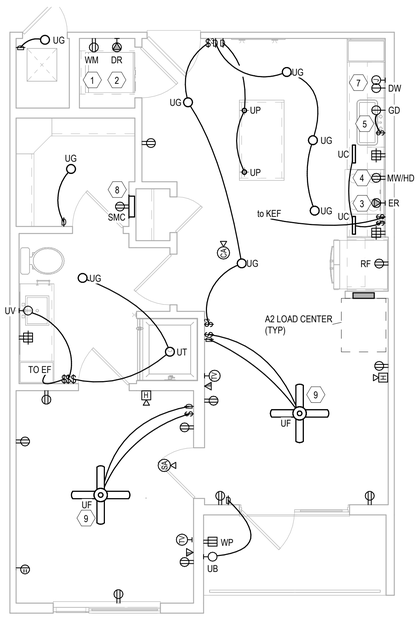
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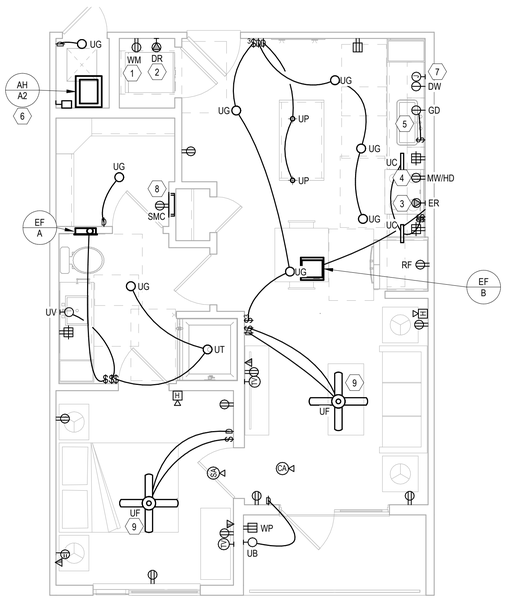
3 UNIT A3

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



2 UNIT A2G

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



1 UNIT A2F

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RF	REFRIGERATOR
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WM	WASHING MACHINE

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

MARK W. BIGLIN
COLORADO LICENSED
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
1600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
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E2.04

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UNIT PLANS - GENERAL NOTES

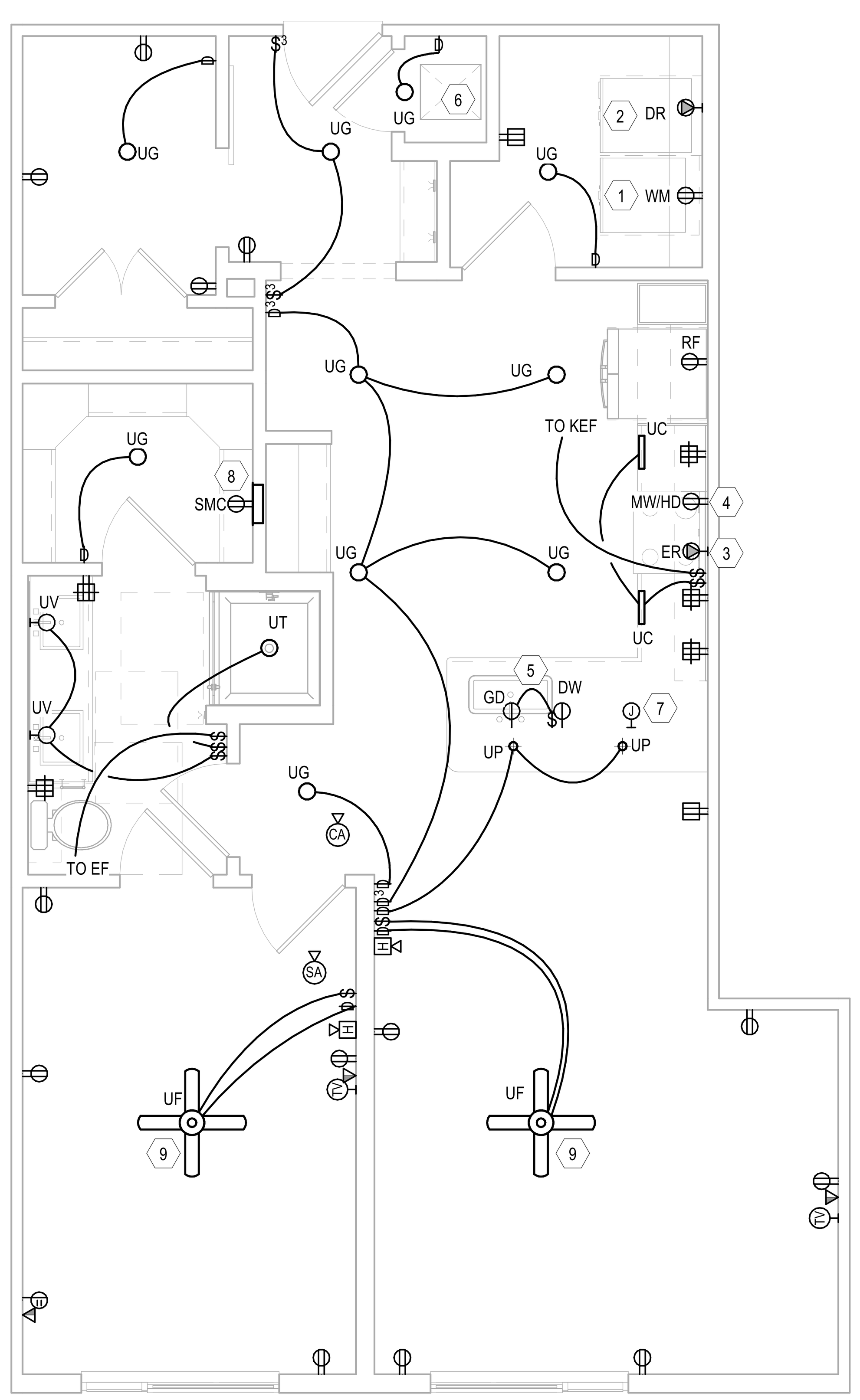
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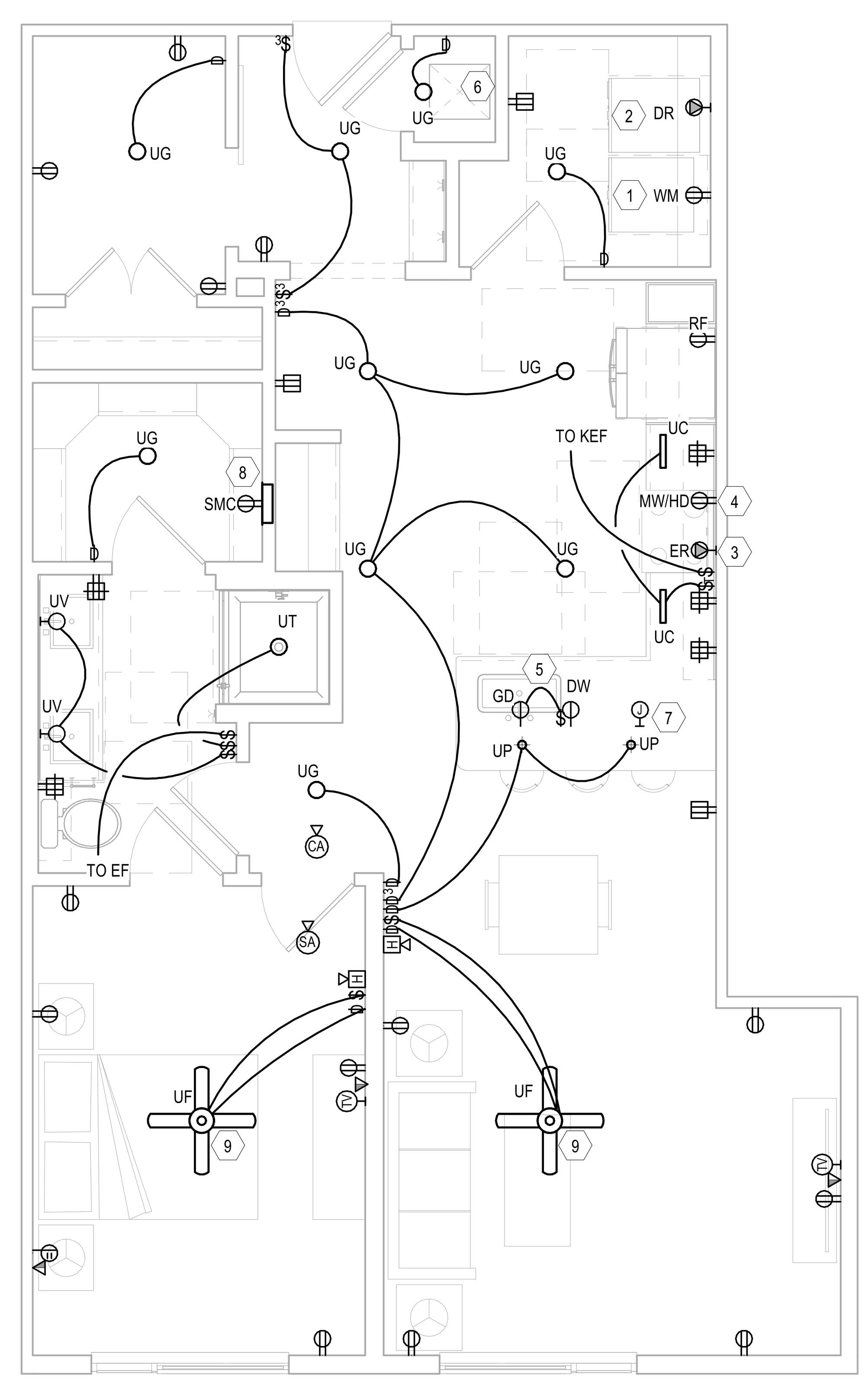
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ELECTRICAL UNITS ABBREVIATIONS

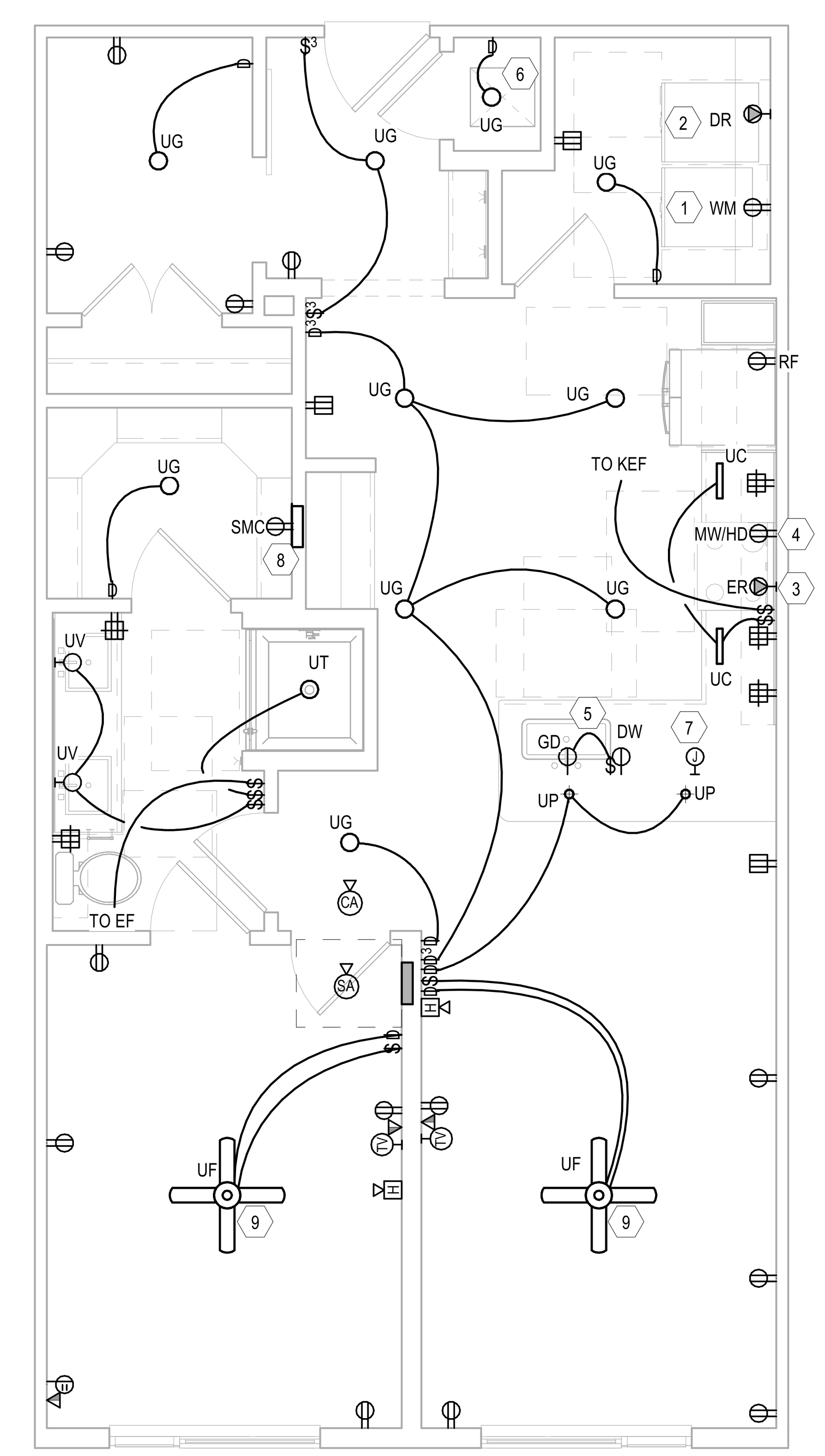
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ER	ELECTRIC RANGE
HD	HOOD
MW	MICROWAVE
MW/HD	MICROWAVE / HOOD
PDS	PNEUMATIC DISPOSAL SWITCH
RF	REFRIGERATOR
SMC	STRUCTURED MEDIA CABINET
WM	WASHING MACHINE



3 UNIT A3D
Scale: 1/4" = 1'-0"



2 UNIT A3C
Scale: 1/4" = 1'-0"



1 UNIT A3B
Scale: 1/4" = 1'-0"

JSE Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED MARK N. BIGBIE PROFESSIONAL ENGINEER 41442
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
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MEEKS PARTNERS
16000 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

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GRANT STREET APARTMENTS
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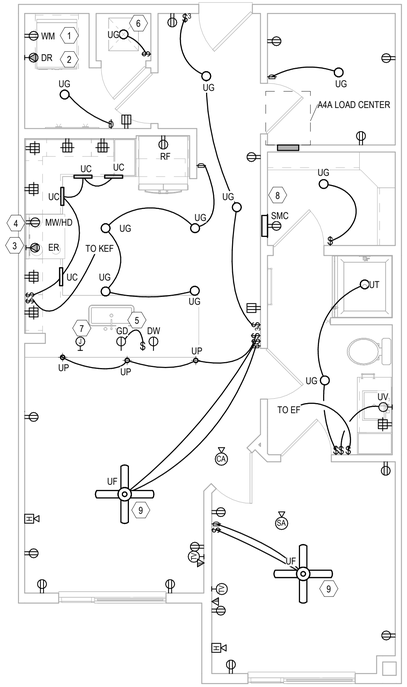
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SHEET TITLE:
UNIT PLANS

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E2.05

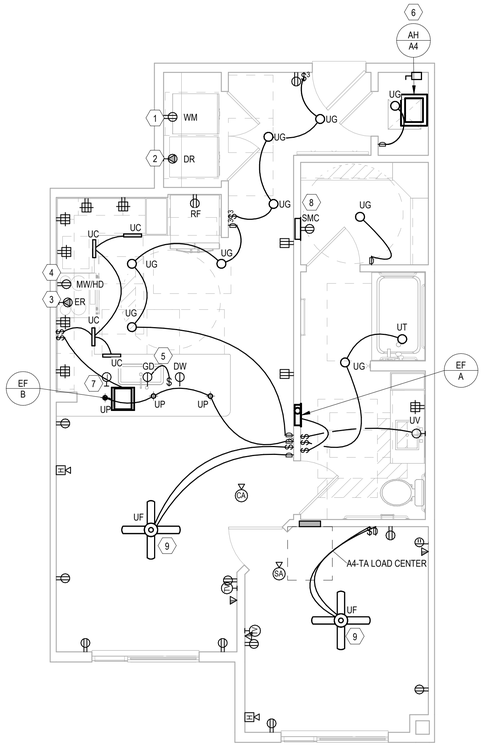
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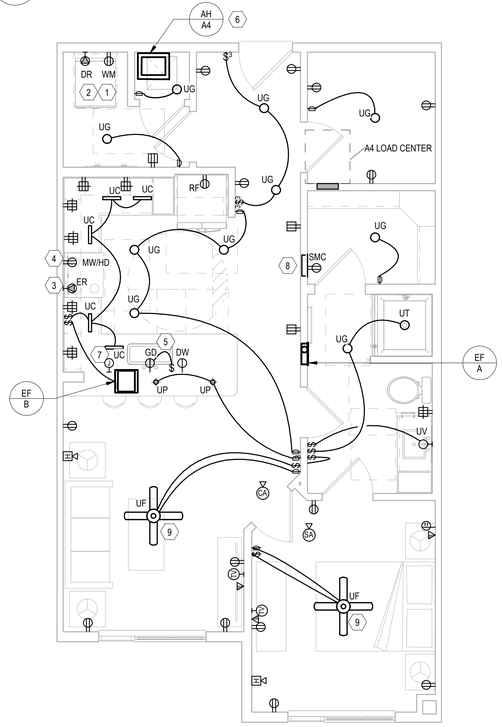
3 UNIT A4A

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



2 UNIT A4-TA

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



1 UNIT A4

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

UNIT PLANS - GENERAL NOTES

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2. SMOKE AND CO ALARMS SHALL BE WIRED TO AN UNSWITCHED LIGHTING AND RECEPTACLE CIRCUIT. ALARM DEVICES WITHIN A DWELLING UNIT SHALL BE PROVIDED WITH AUXILIARY CONTACTS AND WIRED SO THAT UPON THE ACTIVATION OF ANY ALARM IN THE DWELLING UNIT, ALL SMOKE AND CO ALARMS WITHIN THE DWELLING SHALL SIGNAL AN ALARM.
3. REFER TO "ELECTRICAL DEVICES-DWELLING UNIT KITCHEN" DETAIL INCLUDED IN THESE DRAWINGS FOR DIMENSIONAL INFORMATION OF DEVICES AT CORNERS (WHERE APPLICABLE).
4. ALL 120V, 15-AND 20-AMP RECEPTACLES IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT TYPE.
5. OUTLET BOXES INSTALLED FOR CEILING FANS SHALL BE UL-LISTED "FOR USE WITH CEILING FANS".
6. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR APPLICABLE CIRCUIT REQUIREMENTS.
7. PRIOR TO ROUGH-IN, CONTRACTOR SHALL:
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8. SEVERAL DWELLING UNIT CIRCUITS AND RECEPTACLES ARE REQUIRED TO BE AFCI-AND/OR GFCI-PROTECTED. REFER TO DRAWINGS AND LOAD CENTER SCHEDULES FOR MORE INFORMATION.
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10. CONTRACTOR SHALL COORDINATE CLOSELY WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE PROPER OUTLET PLACEMENT ARE BEING INSTALLED FOR LAUNDRY CONNECTIONS WITHOUT CONFLICTS OF OTHER TRADES AND ALSO BEING INSTALLED PER MANUFACTURER BEING FURNISHED.
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UNIT PLANS - KEYNOTES

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GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.: 22035

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	ISSUED FOR CONSTRUCTION

SHEET TITLE:
UNIT PLANS

DRAWING NO.
E2.06

COLORADO LICENSED
MARK W. BIGLIN
41442
PROFESSIONAL ENGINEER
10/18/24

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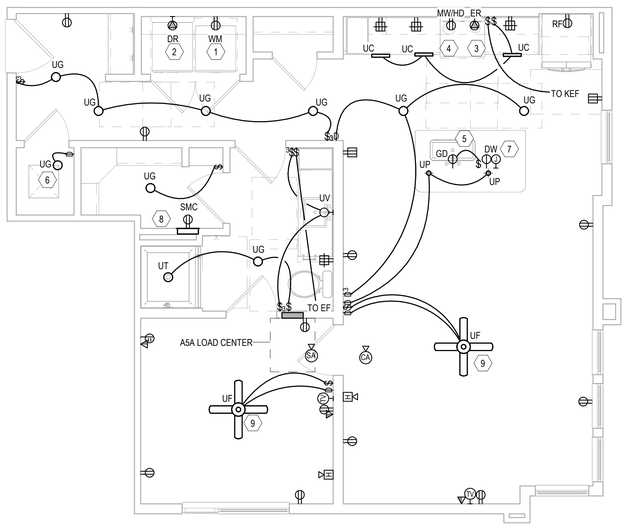
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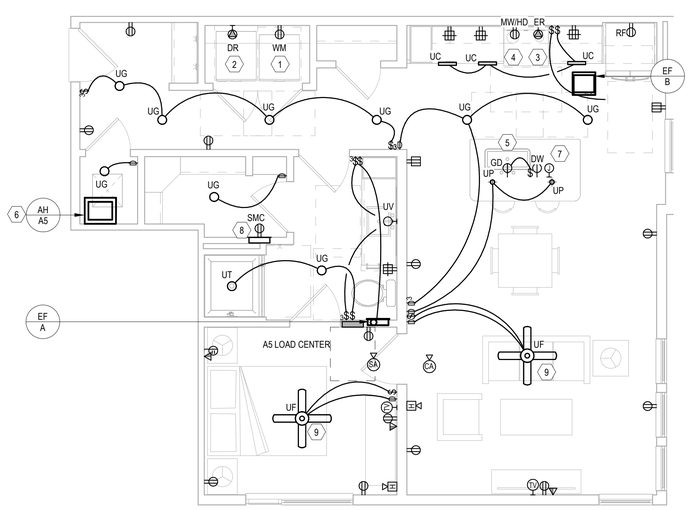
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PDS	PNEUMATIC DISPOSAL SWITCH
RF	REFRIGERATOR
SMC	STRUCTURED MEDIA CABINET
W	WASHING MACHINE



2 UNIT A5A

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



1 UNIT A5

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

UNIT NOTES

Scale: 12" = 1'-0"

Jordan & Skala Engineers
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Project Number: 23080076 Drawn By: DD Checked By: SL

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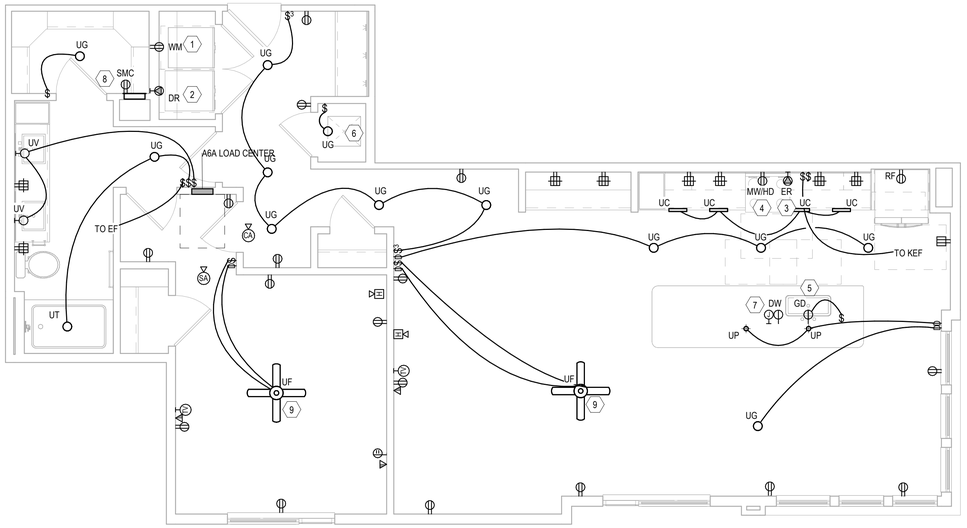
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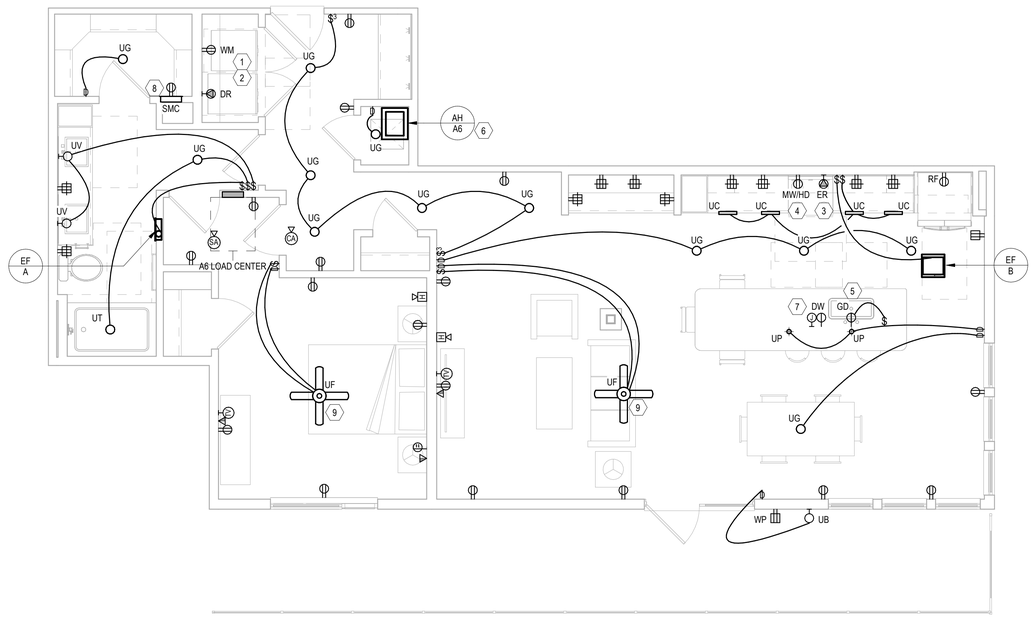
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2 UNIT A6A

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



1 UNIT A6

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    - EACH FIRE ALARM SYSTEM AUDIBLE APPLIANCE SHALL BE EQUIPPED WITH A VISUAL DEVICE.
    - A FIRE ALARM VISUAL DEVICE SHALL BE INSTALLED IN EACH BATHROOM.
    - REFER TO DETAIL INCLUDED IN THESE DRAWINGS FOR WIRING DIAGRAM OF SMOKE ALARMS AND FIRE ALARM DEVICES.
13. CONTRACTOR SHALL ENSURE PRIOR TO ROUGH-IN AND FOUNDATION POUR ALL RECEPTACLES LOCATED AT/UNDER WINDOWSILLS ARE BEING COORDINATED WITH ANY SPECIAL UNIT TYPE CONDITIONS REGARDING NORMAL HEIGHT VS POSSIBLY FULL HEIGHT WINDOWS, CONFIRM PER LATEST ARCHITECTURAL WINDOW SCHEDULES/PLANS TRIGGERING A FLOOR BOX INSTALLATION IN LIEU OF A WALL MOUNTED DUPLEX. CONTRACTOR SHALL ENSURE ANY FLOOR BOX INSTALLATIONS ARE BEING INSTALLED PER NEC 210.52 REQUIREMENTS AND EXACT LOCATION SHALL BE COORDINATED PER ARCHITECT.

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GD/DW	GARBAGE DISPOSAL / DISHWASHER
ER	ELECTRIC RANGE
HD	HOOD
MW	MICROWAVE
MW/HD	MICROWAVE / HOOD
PDS	PNEUMATIC DISPOSAL SWITCH
RF	REFRIGERATOR
SMC	STRUCTURED MEDIA CABINET
WM	WASHING MACHINE

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. BIGLIN
41442
PROFESSIONAL ENGINEER
10/18/24

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MEEKS PARTNERS
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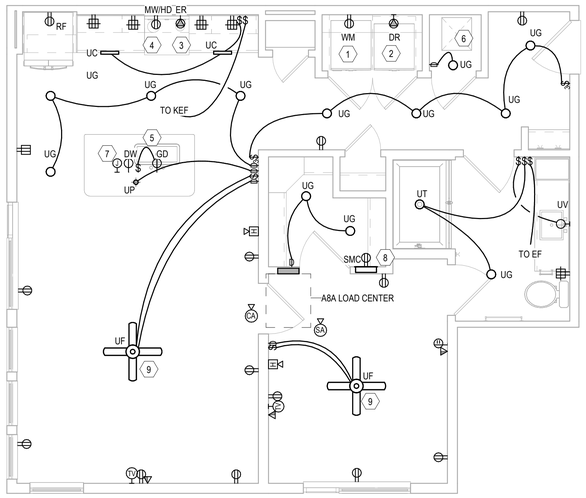
UNIT PLANS

DRAWING NO.

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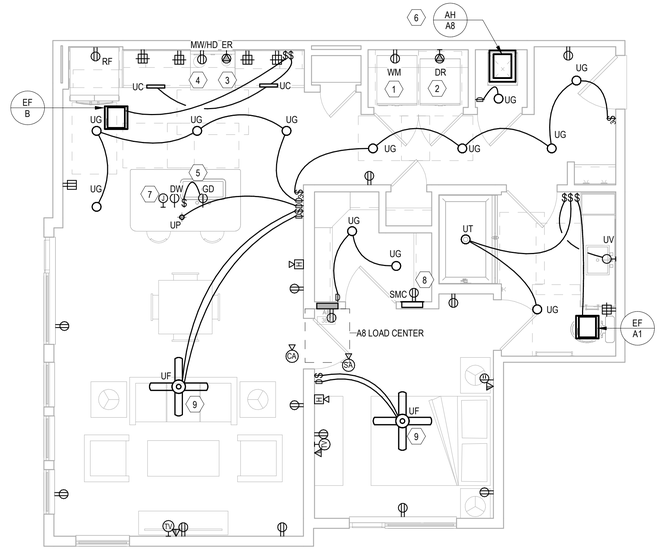
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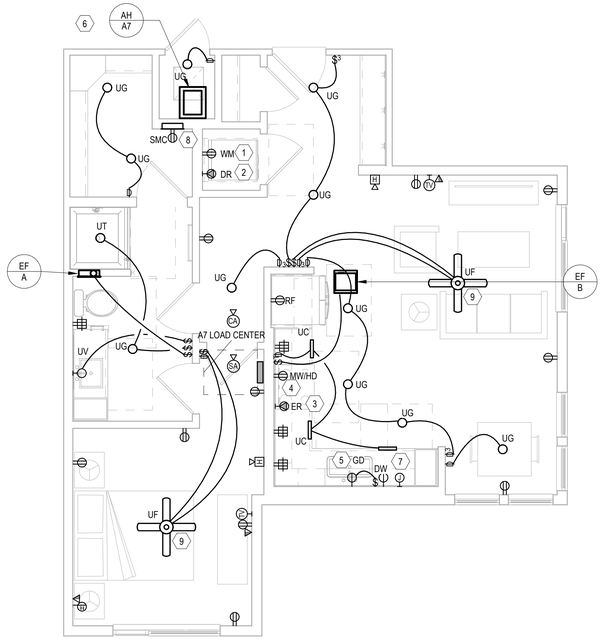
4 UNIT A8A

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



3 UNIT A8

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



1 UNIT A7

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

UNIT PLANS - GENERAL NOTES

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2. SMOKE AND CO ALARMS SHALL BE WIRED TO AN UNSWITCHED LIGHTING AND RECEPTACLE CIRCUIT. ALARM DEVICES WITHIN A DWELLING UNIT SHALL BE PROVIDED WITH AUXILIARY CONTACTS AND WIRED SO THAT UPON THE ACTIVATION OF ANY ALARM IN THE DWELLING UNIT, ALL SMOKE AND CO ALARMS WITHIN THE DWELLING SHALL SIGNAL AN ALARM.
3. REFER TO "ELECTRICAL DEVICES-DWELLING UNIT KITCHEN" DETAIL INCLUDED IN THESE DRAWINGS FOR DIMENSIONAL INFORMATION OF DEVICES AT CORNERS (WHERE APPLICABLE).
4. ALL 120V, 15-AND 20-AMP RECEPTACLES IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT TYPE.
5. OUTLET BOXES INSTALLED FOR CEILING FANS SHALL BE UL-LISTED "FOR USE WITH CEILING FANS".
6. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR APPLICABLE CIRCUIT REQUIREMENTS.
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SHEET TITLE:

UNIT PLANS

DRAWING NO.

E2.09

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

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UNIT PLANS - GENERAL NOTES

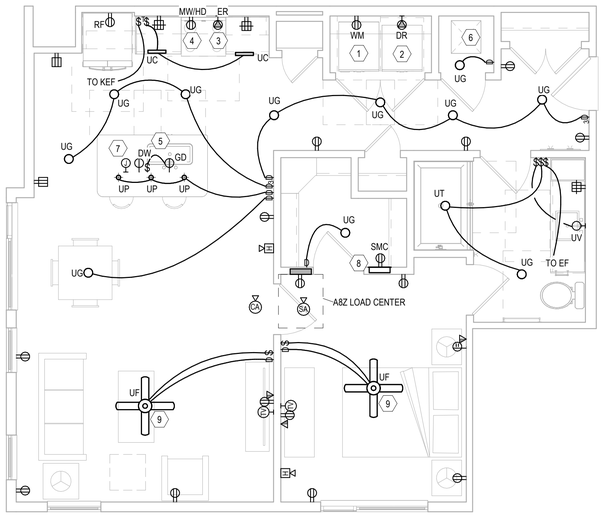
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1 UNIT A8Z
Scale: 1/4" = 1'-0"

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Project Number: 23080076 Drawn By: DD Checked By: SL

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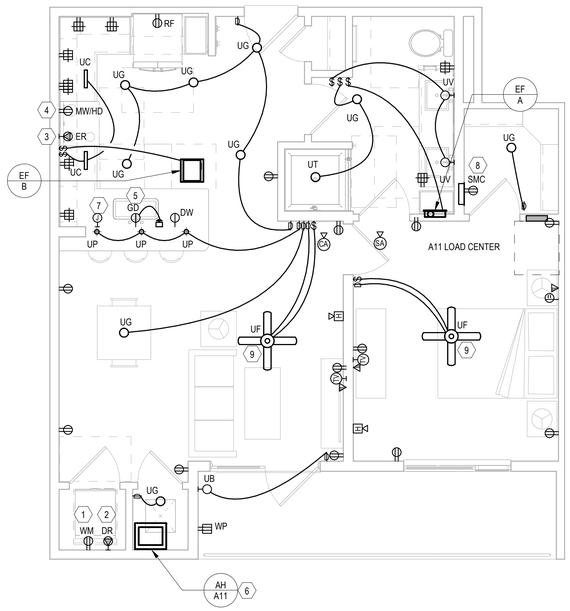
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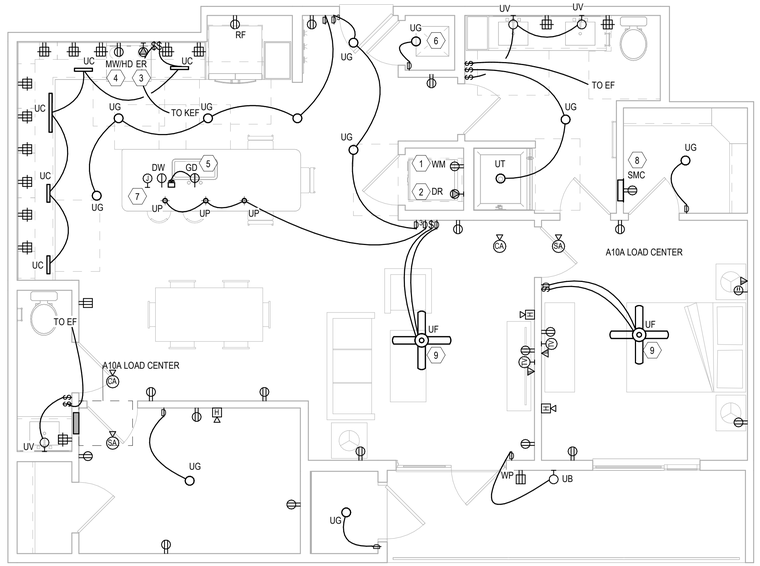
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DRAWING NO.
E2.10



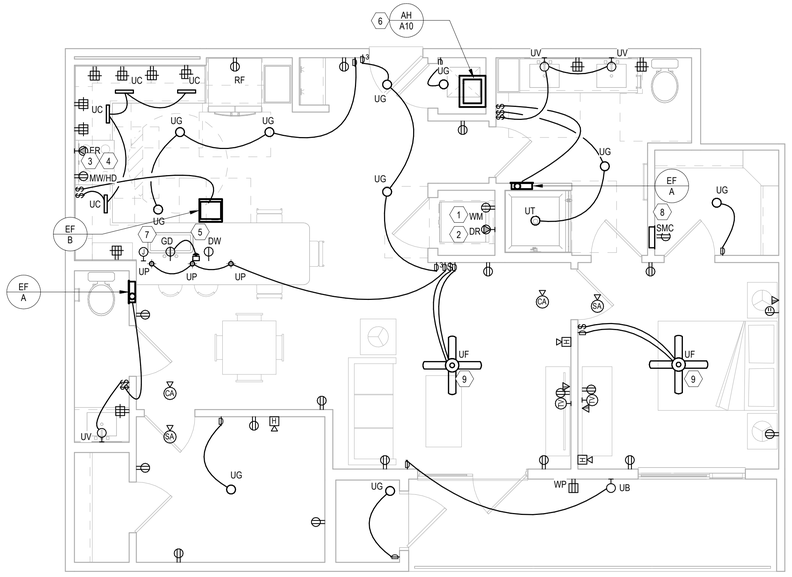
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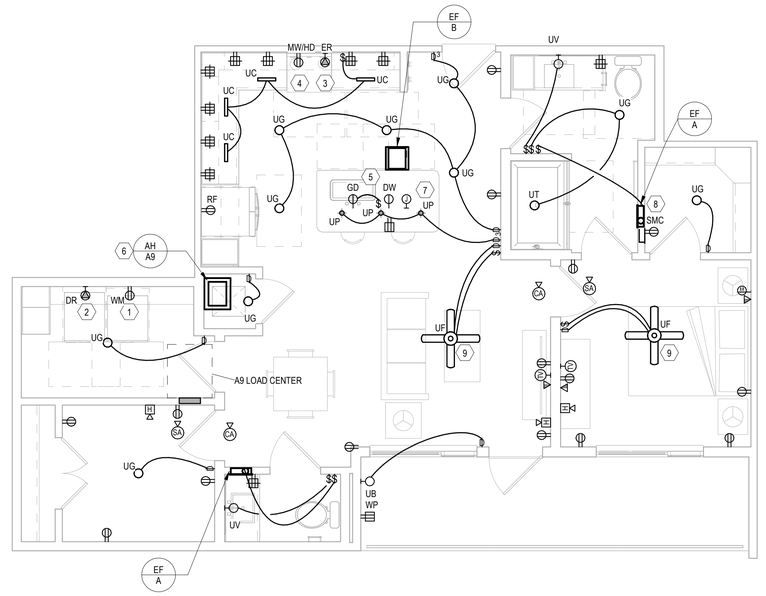
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2 UNIT A10

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7	INSTALL A JUNCTION BOX FOR FUTURE COUNTER TOP RECEPTACLES, OR INSTALL 'POP UP' RECPTACLES INTO COUNTER TOP.
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ER	ELECTRIC RANGE
HD	HOOD
MW	MICROWAVE
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PDS	PNEUMATIC DISPOSAL SWITCH
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COLORADO LICENSED
MARK W. BIGLIN
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PROFESSIONAL ENGINEER
10/18/24

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1600 Memorial Drive
Suite 100
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JOB NO.: 23035

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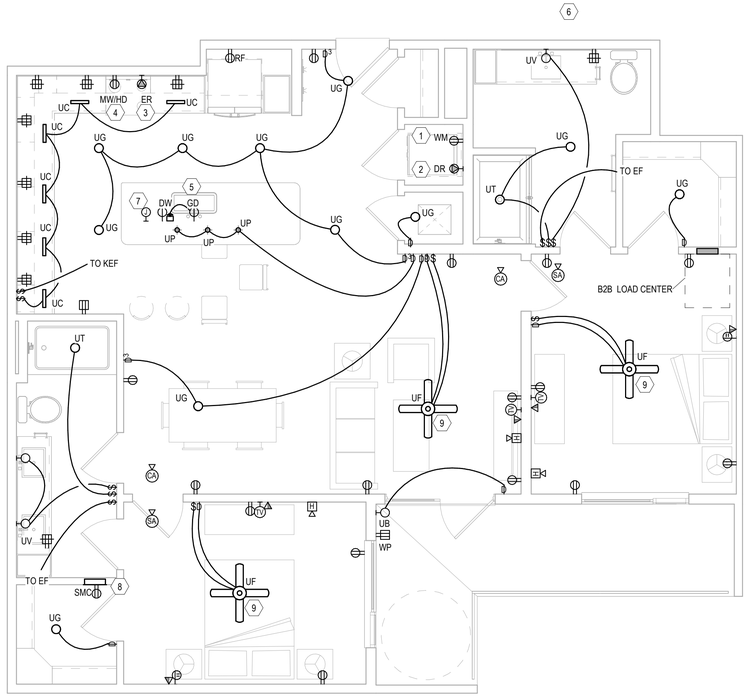
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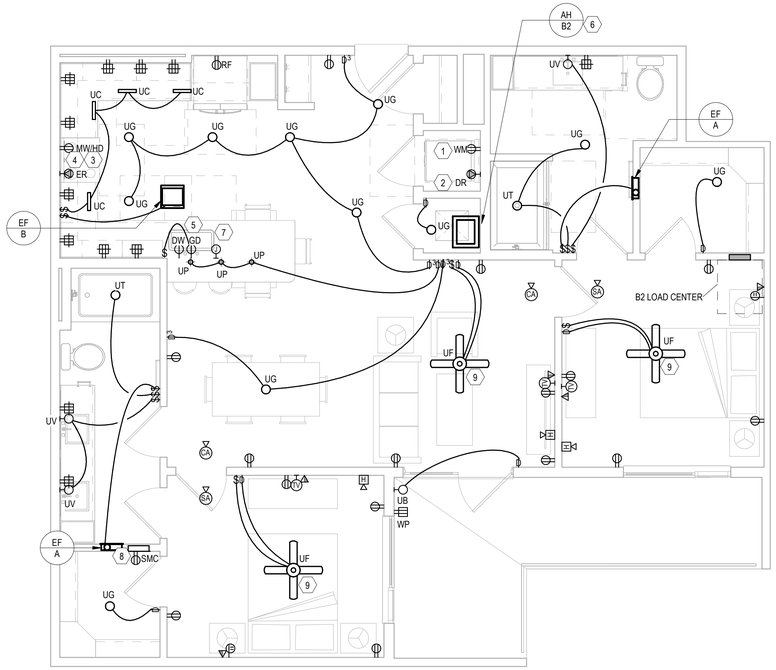
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p. 303.586.2375
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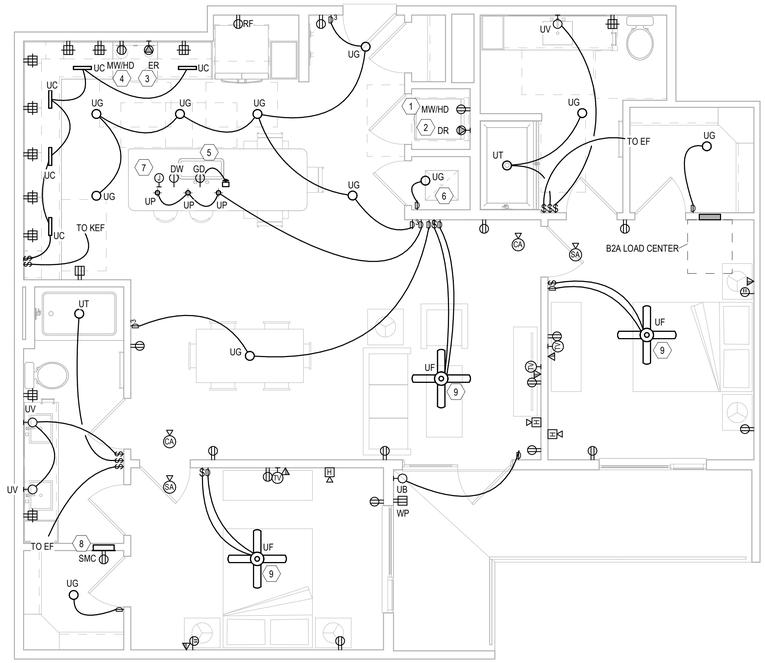
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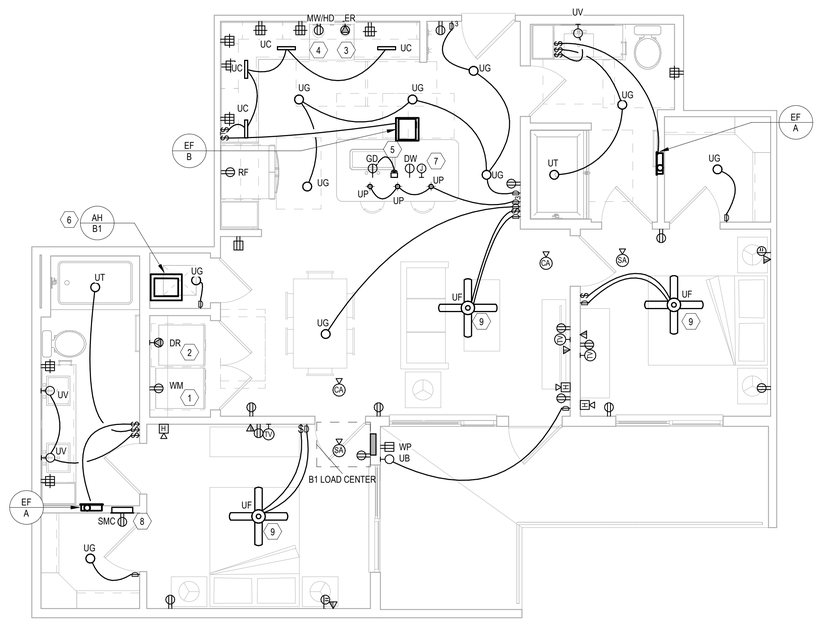
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Scale: 1/4" = 1'-0"



2 UNIT B2A

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



1 UNIT B1

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MARK W. BIGBEE
41442
PROFESSIONAL ENGINEER
10/18/24

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281.558.8787

GRANT STREET APARTMENTS
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A Development of
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UNIT PLANS

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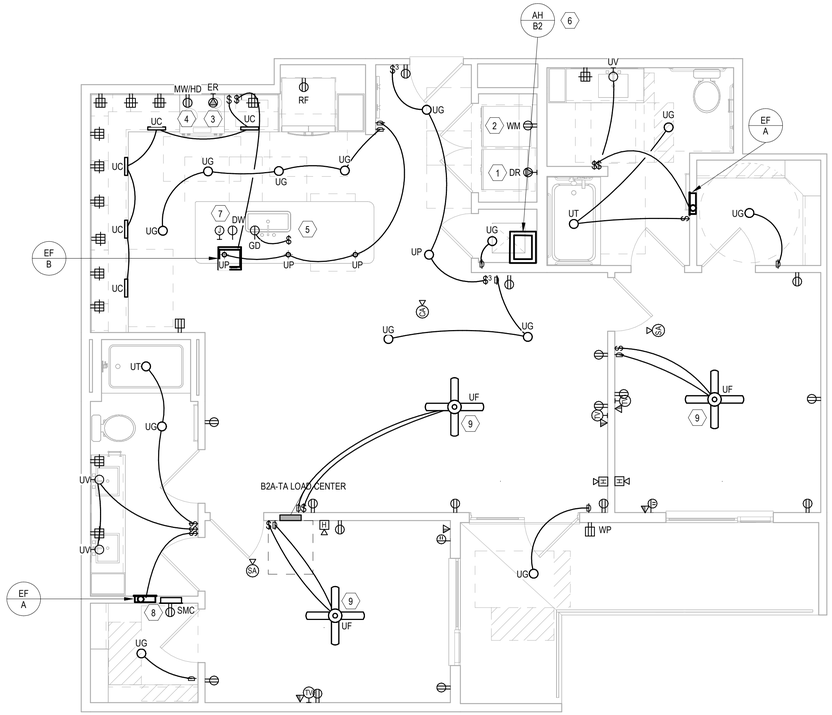
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Project Number: 23080076 Drawn By: DD Checked By: SL

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1 UNIT B2A-TA

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

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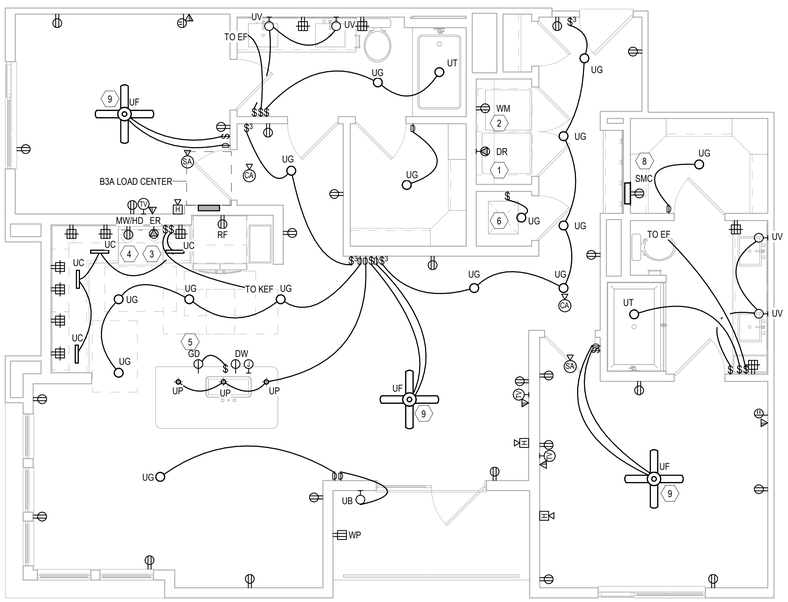
UNIT PLANS

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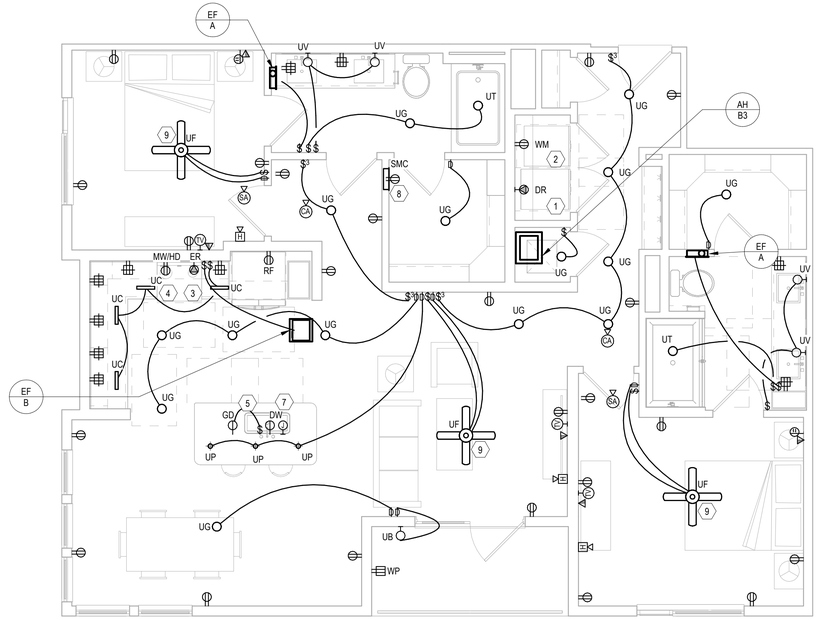
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2 UNIT B3A

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



1 UNIT B3

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

UNIT PLANS - GENERAL NOTES

1. LOCATION OF SMOKE ALARMS SHALL BE NO LESS THAN 36" FROM A BATHROOM DOOR, SUPPLY AIR REGISTER, OR TIP OF A CEILING FAN BLADE, AND SHALL BE NO LESS THAN 10' FROM A FIXED COOKING APPLIANCE. WHERE WALL MOUNTED, TOP OF DEVICE SHALL BE NO GREATER THAN 12" FROM CEILING. COORDINATE LOCATION WITH SOFFITS AND CROWN MOLDING (WHERE PRESENT).
2. SMOKE AND CO ALARMS SHALL BE WIRED TO AN UNSWITCHED LIGHTING AND RECEPTACLE CIRCUIT. ALARM DEVICES WITHIN A DWELLING UNIT SHALL BE PROVIDED WITH AUXILIARY CONTACTS AND WIRED SO THAT UPON THE ACTIVATION OF ANY ALARM IN THE DWELLING UNIT, ALL SMOKE AND CO ALARMS WITHIN THE DWELLING SHALL SIGNAL AN ALARM.
3. REFER TO "ELECTRICAL DEVICES-DWELLING UNIT KITCHEN" DETAIL INCLUDED IN THESE DRAWINGS FOR DIMENSIONAL INFORMATION OF DEVICES AT CORNERS (WHERE APPLICABLE).
4. ALL 120V, 15-AND 20-AMP RECEPTACLES IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT TYPE.
5. OUTLET BOXES INSTALLED FOR CEILING FANS SHALL BE UL-LISTED "FOR USE WITH CEILING FANS".
6. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR APPLICABLE CIRCUIT REQUIREMENTS.
7. PRIOR TO ROUGH-IN, CONTRACTOR SHALL:
   - COORDINATE EXACT REQUIREMENTS OF ALL EQUIPMENT AND APPLIANCES FURNISHED BY OTHERS.
   - COORDINATE LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL/INTERIORS DRAWINGS.
8. SEVERAL DWELLING UNIT CIRCUITS AND RECEPTACLES ARE REQUIRED TO BE AFCI-AND/OR GFCI-PROTECTED. REFER TO DRAWINGS AND LOAD CENTER SCHEDULES FOR MORE INFORMATION.
9. CONTRACTOR SHALL ENSURE ALL WALL MOUNTED RECEPTACLES LOCATED AT EACH WINDOW ARE COORDINATED FOR EACH UNIT THROUGHOUT THE PROJECT PRIOR TO ROUGH-IN AND WITH THE ARCHITECT. THIS IS TO ENSURE NO UNIT TYPE ONE OFF CONDITIONS WHERE ONE OF THE UNITS WERE UPGRADED TO GET A FULL HEIGHT WINDOW THAT WOULD TRIGGER A FLOOR BOX OUTLET TO MAINTAIN REQUIRED NEC 210.52 SPACING. NOTIFY THE ENGINEER IF ANY DESCREPANCIES BEFORE ROUGH-IN, CONCRETE POURS, FLOORING INSTALLATIONS, ETC.
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11. FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES (5% OF DWELLINGS): LOAD CENTER SHALL BE INSTALLED SO THAT NO TRIM LATCH OR BREAKER IS GREATER THAN 48" AFF.
    A TOGGLE SWITCH SHALL BE FIELD-INSTALLED AND WIRED FOR THE RANGE HOOD/LIGHT CIRCUIT. SWITCH SHALL BE MOUNTED ABOVE COUNTER WITHIN REQUIRED REACH RANGES.
12. FOR DWELLING UNITS DESIGNATED TO HAVE COMMUNICATION FEATURES (2% OF DWELLINGS) FOR SENSORY-IMPAIRED (HEARING OR VISION):
    - FURNISH AND INSTALL AN EDWARDS (OR EQUAL) "DOORBELL" SYSTEM (CAT# 7005-G5), CONSISTING OF A LOW-VOLTAGE TRANSFORMER, PUSHBUTTON AND HORN/STROBE. LOCATE PUSHBUTTON WITH COVERPLATE (CAT# 147-10) OUTSIDE OF ENTRY DOOR, TRANSFORMER CONCEALED WITHIN CLOTHES CLOSET, AND HORN/STROBE WITHIN LIVING ROOM.
    - EACH FIRE ALARM SYSTEM AUDIBLE APPLIANCE SHALL BE EQUIPPED WITH A VISUAL DEVICE.
    - A FIRE ALARM VISUAL DEVICE SHALL BE INSTALLED IN EACH BATHROOM.
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UNIT PLANS - KEYNOTES

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3	NEMA 14-50R FOR RANGE / OVEN. CIRCUIT SHALL BE 3#6, #10G.
4	NEMA 5-20R FOR MICROWAVE / EXHAUST HOOD. CIRCUIT SHALL BE 2#12, #12G. LOCATE RECEPTACLE IN CABINETRY ABOVE.
5	FOR SINK DISPOSAL/DISHWASHER CONNECTION, INSTALL A SINGLE NEMA 5-20R RECEPTACLE FOR EACH APPLIANCE WITHIN BASE CABINET. RECEPTACLES SHALL BE LOCATED ADJACENT TO DISHWASHER IN AN ACCESSIBLE LOCATION.
6	DISCONNECT SWITCH FOR AIR-HANDLING UNIT. REFER TO 'DWELLING MECHANICAL SCHEDULE' FOR MORE INFORMATION.
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ELECTRICAL UNITS ABBREVIATIONS

DR	ELECTRIC DRYER
DW	DISHWASHER
GD	GARBAGE DISPOSAL
GD/DW	GARBAGE DISPOSAL / DISHWASHER
ER	ELECTRIC RANGE
HD	HOOD
MW	MICROWAVE
MW/HD	MICROWAVE / HOOD
PDS	PNEUMATIC DISPOSAL SWITCH
RF	REFRIGERATOR
SMC	STRUCTURED MEDIA CABINET
WM	WASHING MACHINE

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. BIGHAM
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
16000 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
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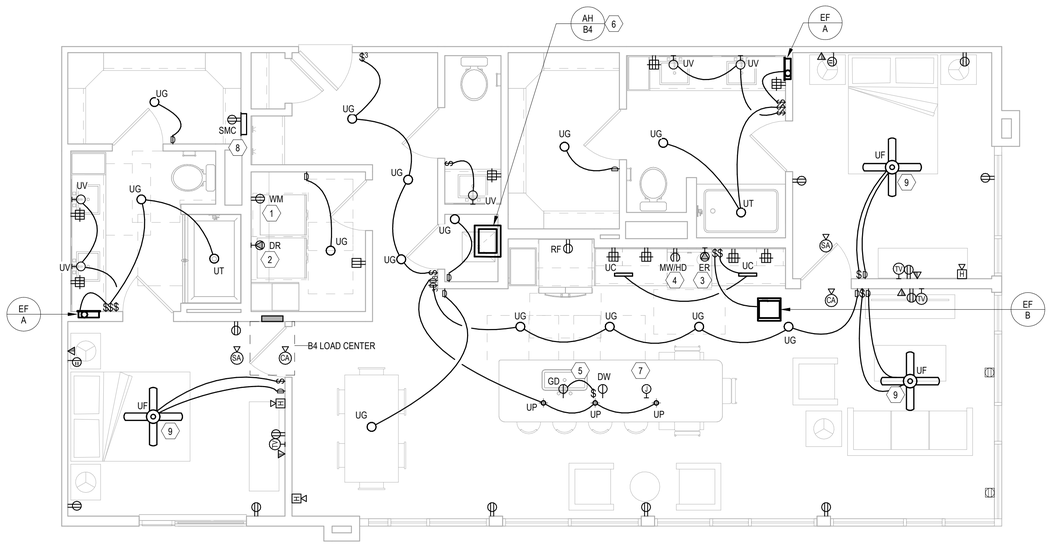
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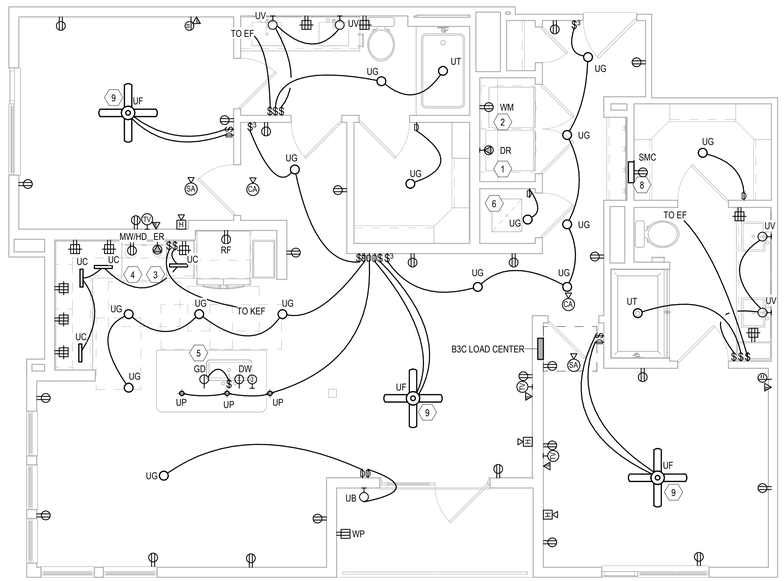
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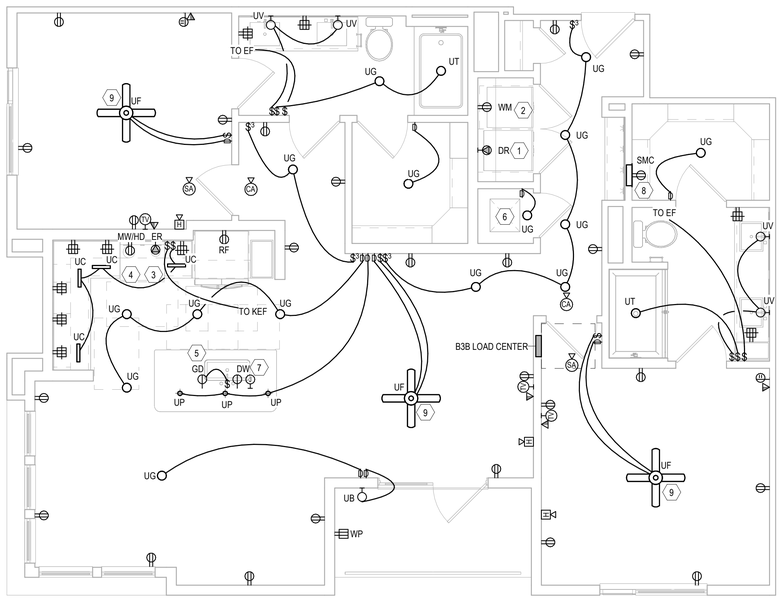
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Scale: 1/4" = 1'-0"



2 UNIT B3C

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



1 UNIT B3B

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UNIT PLANS - GENERAL NOTES

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PDS	PNEUMATIC DISPOSAL SWITCH
RF	REFRIGERATOR
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WM	WASHING MACHINE

COLORADO LICENSED
MARK W. BIGLIN
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO	REVISION DATE	REVISION DESCRIPTION
	04/09/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
1600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
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UNIT PLANS

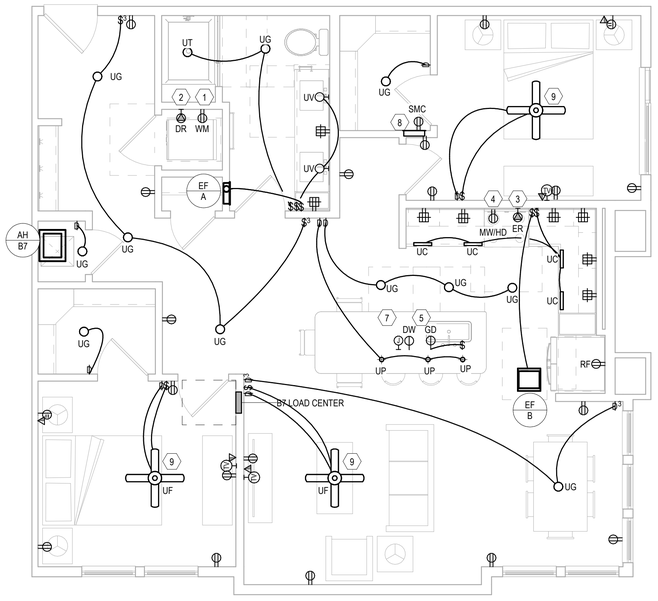
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Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

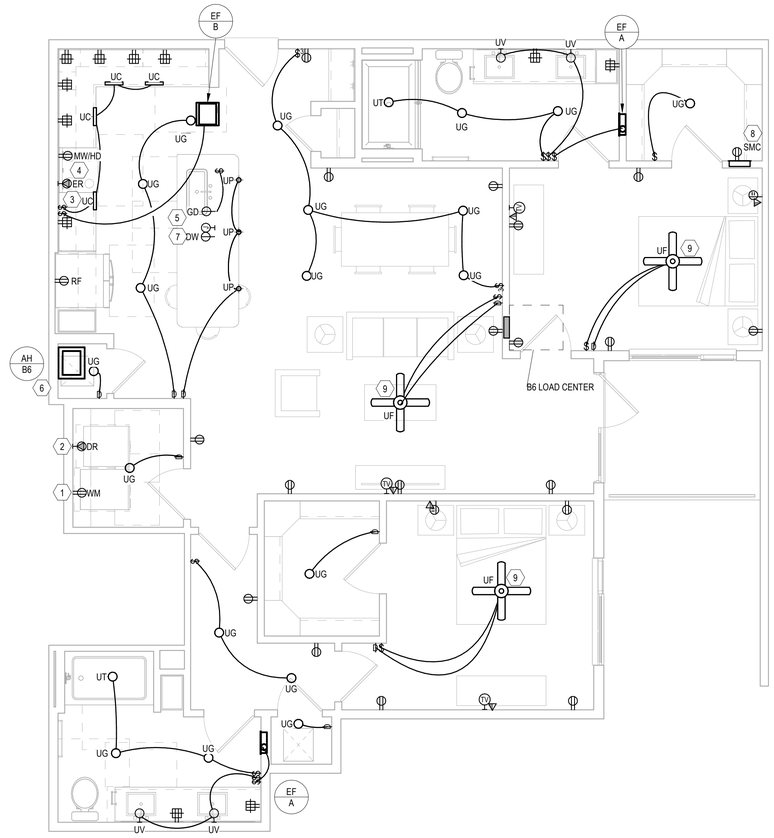
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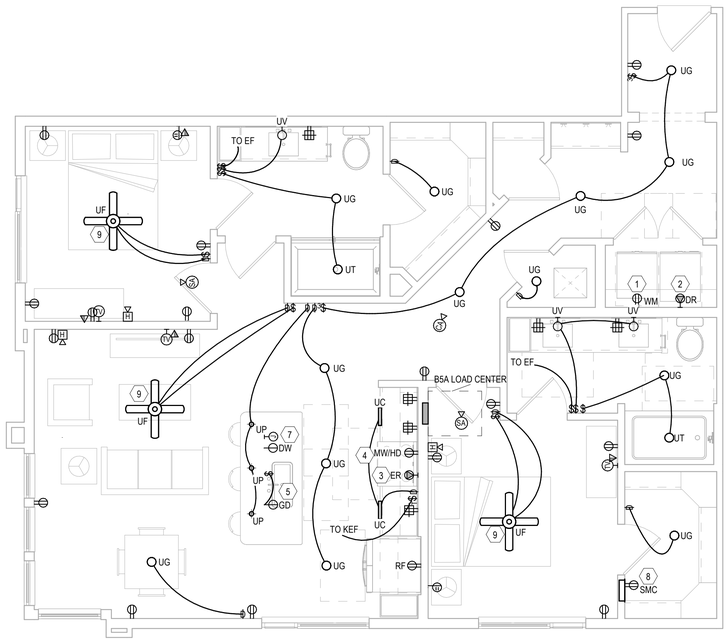
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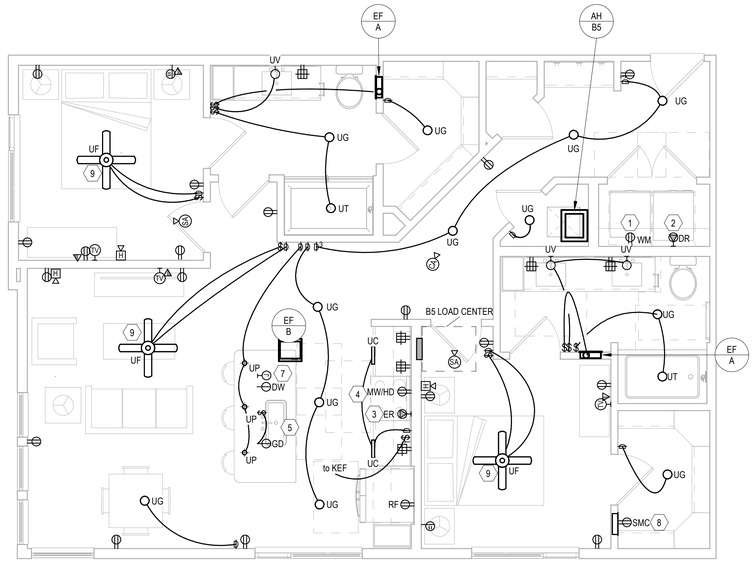
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2 UNIT B5A

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



1 UNIT B5

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

UNIT PLANS - GENERAL NOTES

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DR	ELECTRIC DRYER
DW	DISHWASHER
GD	GARBAGE DISPOSAL
GD/DW	GARBAGE DISPOSAL / DISHWASHER
ER	ELECTRIC RANGE
HD	HOOD
MW	MICROWAVE
MW/HD	MICROWAVE / HOOD
PDS	PNEUMATIC DISPOSAL SWITCH
RF	REFRIGERATOR
SMC	STRUCTURED MEDIA CABINET
W	WASHING MACHINE

*UNIT NOTES

Scale: 12" = 1'-0"

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375
Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. BIGBEE
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO	REVISION DATE	REVISION DESCRIPTION
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
1600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

GRANT STREET APARTMENTS
290 E. 17th Ave, Denver, CO 80203
A Development of
Abacus Capital Group

JOB NO.: 22035

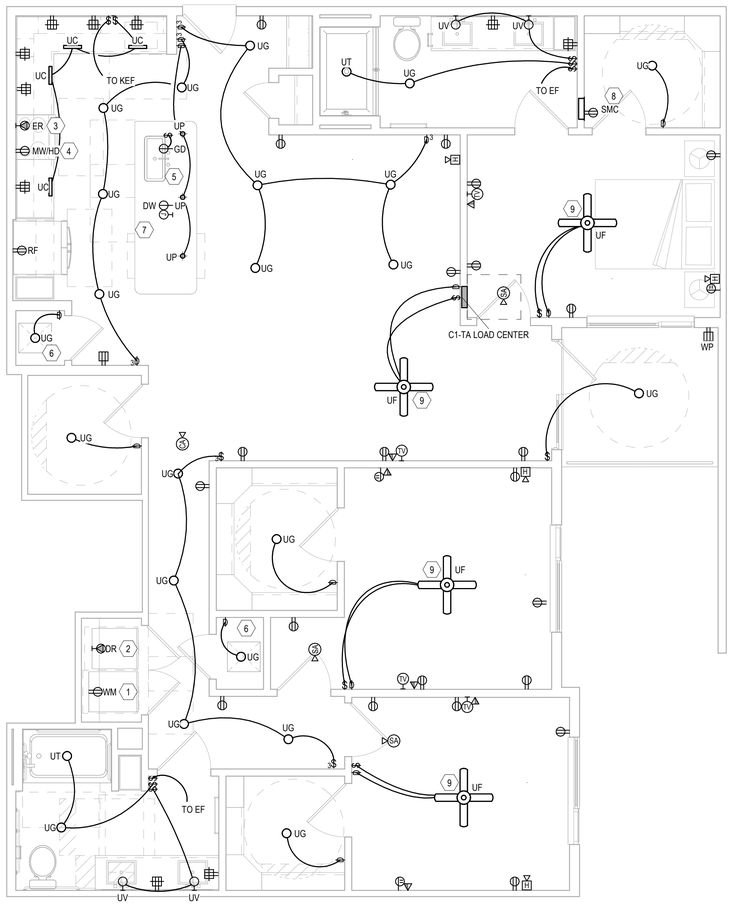
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UNIT PLANS

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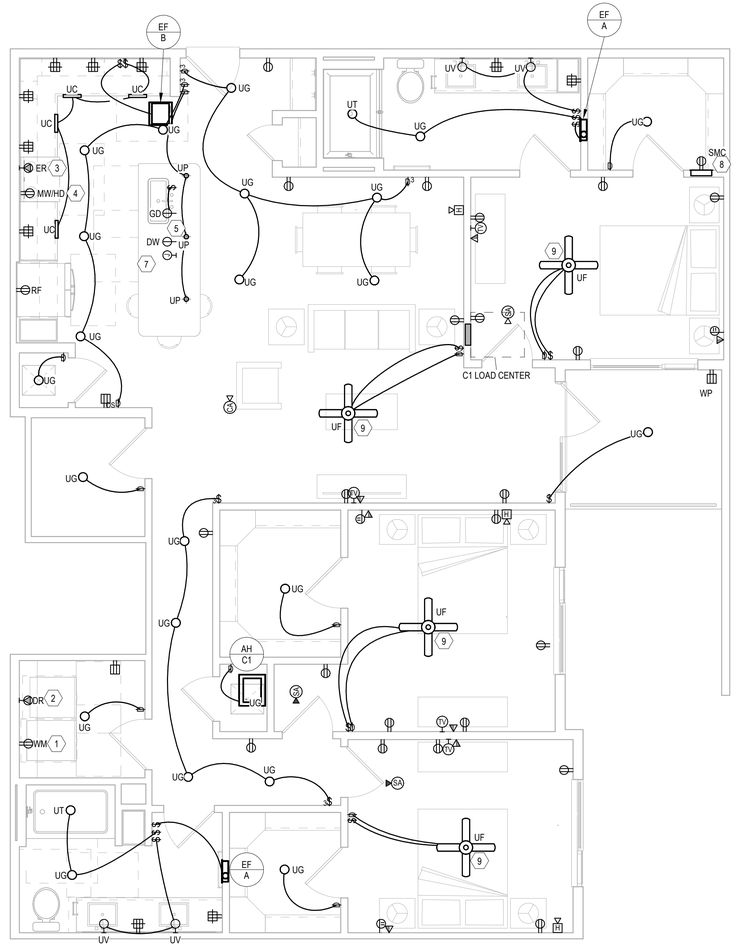
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2 UNIT C1-TA

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



1 UNIT C1

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

UNIT PLANS - GENERAL NOTES

1. LOCATION OF SMOKE ALARMS SHALL BE NO LESS THAN 36" FROM A BATHROOM DOOR, SUPPLY AIR REGISTER, OR TIP OF A CEILING FAN BLADE, AND SHALL BE NO LESS THAN 10' FROM A FIXED COOKING APPLIANCE. WHERE WALL MOUNTED, TOP OF DEVICE SHALL BE NO GREATER THAN 12" FROM CEILING. COORDINATE LOCATION WITH SOFFITS AND CROWN MOLDING (WHERE PRESENT).
2. SMOKE AND CO ALARMS SHALL BE WIRED TO AN UNSWITCHED LIGHTING AND RECEPTACLE CIRCUIT. ALARM DEVICES WITHIN A DWELLING UNIT SHALL BE PROVIDED WITH AUXILIARY CONTACTS AND WIRED SO THAT UPON THE ACTIVATION OF ANY ALARM IN THE DWELLING UNIT, ALL SMOKE AND CO ALARMS WITHIN THE DWELLING SHALL SIGNAL AN ALARM.
3. REFER TO "ELECTRICAL DEVICES-DWELLING UNIT KITCHEN" DETAIL INCLUDED IN THESE DRAWINGS FOR DIMENSIONAL INFORMATION OF DEVICES AT CORNERS (WHERE APPLICABLE).
4. ALL 120V, 15-AND 20-AMP RECEPTACLES IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT TYPE.
5. OUTLET BOXES INSTALLED FOR CEILING FANS SHALL BE UL-LISTED "FOR USE WITH CEILING FANS".
6. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR APPLICABLE CIRCUIT REQUIREMENTS.
7. PRIOR TO ROUGH-IN, CONTRACTOR SHALL:
   - COORDINATE EXACT REQUIREMENTS OF ALL EQUIPMENT AND APPLIANCES FURNISHED BY OTHERS.
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8. SEVERAL DWELLING UNIT CIRCUITS AND RECEPTACLES ARE REQUIRED TO BE AFCI-AND/OR GFCI-PROTECTED. REFER TO DRAWINGS AND LOAD CENTER SCHEDULES FOR MORE INFORMATION.
9. CONTRACTOR SHALL ENSURE ALL WALL MOUNTED RECEPTACLES LOCATED AT EACH WINDOW ARE COORDINATED FOR EACH UNIT THROUGHOUT THE PROJECT PRIOR TO ROUGH-IN AND WITH THE ARCHITECT. THIS IS TO ENSURE NO UNIT TYPE ONE OFF CONDITIONS WHERE ONE OF THE UNITS WERE UPGRADED TO GET A FULL HEIGHT WINDOW THAT WOULD TRIGGER A FLOOR BOX OUTLET TO MAINTAIN REQUIRED NEC 210.52 SPACING. NOTIFY THE ENGINEER IF ANY DESCREPANCIES BEFORE ROUGH-IN, CONCRETE POURS, FLOORING INSTALLATIONS, ETC.
10. CONTRACTOR SHALL COORDINATE CLOSELY WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE PROPER OUTLET PLACEMENT ARE BEING INSTALLED FOR LAUNDRY CONNECTIONS WITHOUT CONFLICTS OF OTHER TRADES AND ALSO BEING INSTALLED PER MANUFACTURER BEING FURNISHED.
11. FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES (5% OF DWELLINGS): LOAD CENTER SHALL BE INSTALLED SO THAT NO TRIM LATCH OR BREAKER IS GREATER THAN 48" AFF.
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12. FOR DWELLING UNITS DESIGNATED TO HAVE COMMUNICATION FEATURES (2% OF DWELLINGS) FOR SENSORY-IMPAIRED (HEARING OR VISION):
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    - EACH FIRE ALARM SYSTEM AUDIBLE APPLIANCE SHALL BE EQUIPPED WITH A VISUAL DEVICE.
    - A FIRE ALARM VISUAL DEVICE SHALL BE INSTALLED IN EACH BATHROOM.
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UNIT PLANS - KEYNOTES

KEY VALUE	NOTES
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2	NEMA 14-30R FOR CLOTHES DRYER. CIRCUIT SHALL BE 3#10, #10G.
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6	DISCONNECT SWITCH FOR AIR-HANDLING UNIT. REFER TO 'DWELLING MECHANICAL SCHEDULE' FOR MORE INFORMATION.
7	INSTALL A JUNCTION BOX FOR FUTURE COUNTER TOP RECEPTACLES, OR INSTALL 'POP UP' RECPTACLES INTO COUNTER TOP.
8	CONTRACTOR TO FURNISH AND INSTALL A STRUCTURED MEDIA CABINET (SMC) IN EACH DWELLING UNIT. COORDINATE EXACT LOCATION AND TYPE WITH TELECOM CONSULTANT.
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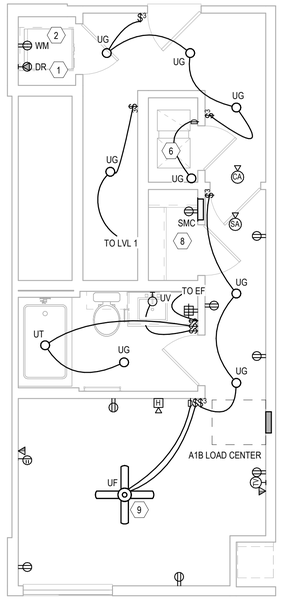
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UNIT PLANS

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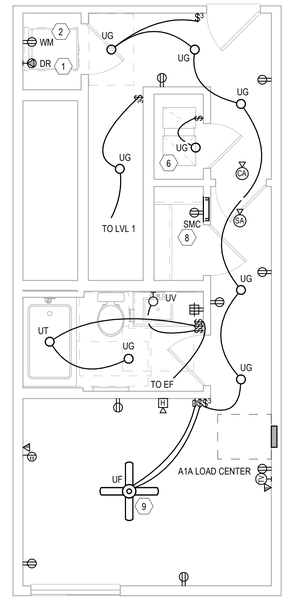
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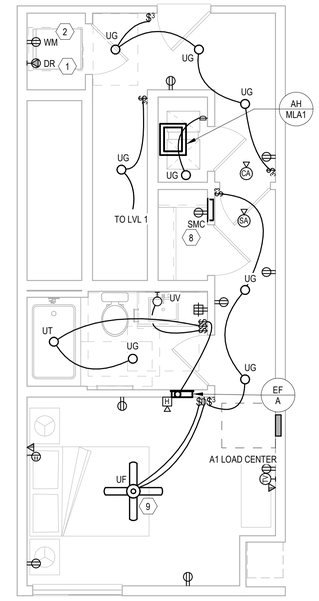
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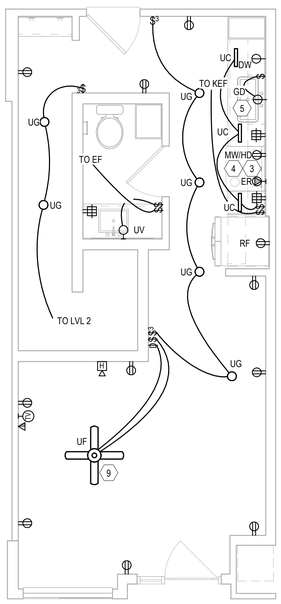
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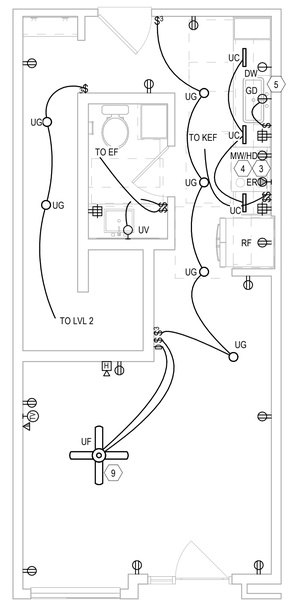
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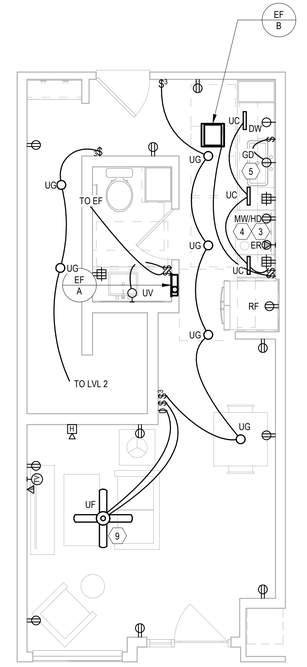
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3 UNIT ML-A1A-LVL 1

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1 UNIT ML-A1-LVL 1

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MARK W. BIGLIN
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
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MEEKS PARTNERS
16000 Memorial Drive
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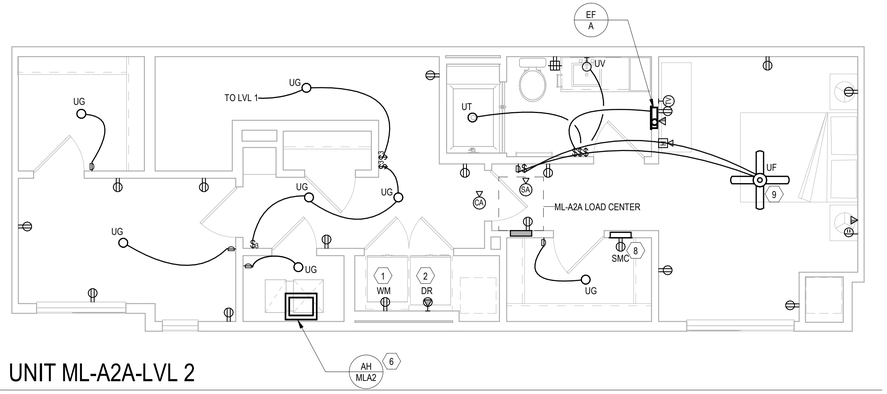
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SHEET TITLE:
UNIT PLANS

DRAWING NO.
E2.18

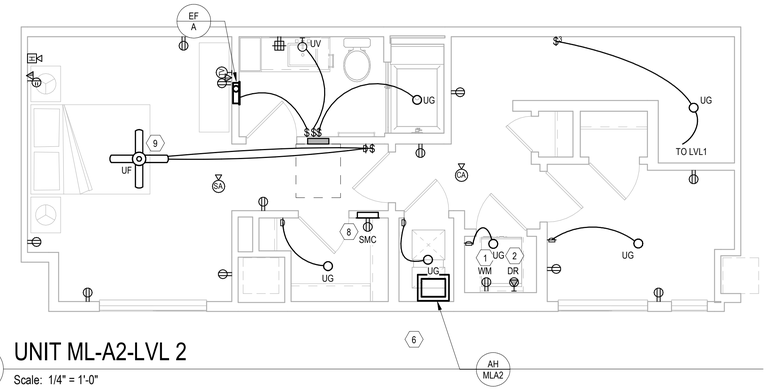
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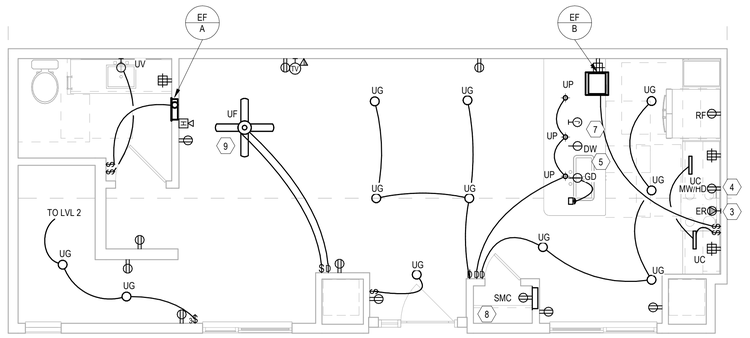
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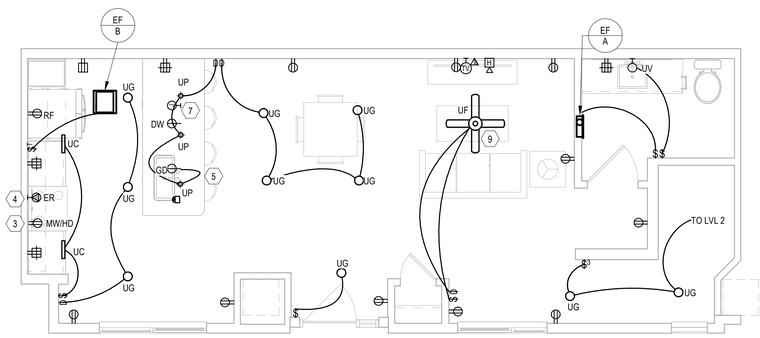
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3 UNIT ML-A2A-LVL 1

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



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ER	ELECTRIC RANGE
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MW	MICROWAVE
MW/HD	MICROWAVE / HOOD
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COLORADO LICENSED
MARK W. BIGHAM
41442
PROFESSIONAL ENGINEER
10/18/24

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	04/09/2024	DESIGN DEVELOPMENT PACKAGE
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MEEKS PARTNERS
1600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

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JOB NO.: 22035

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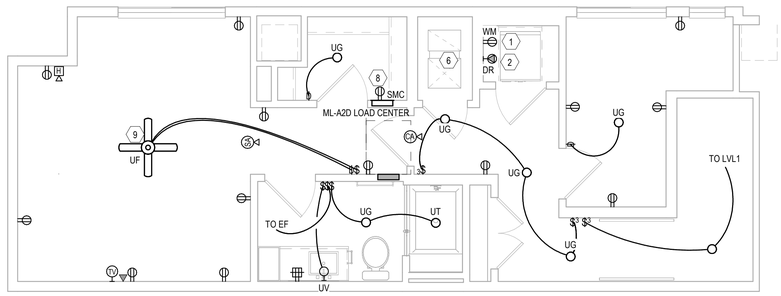
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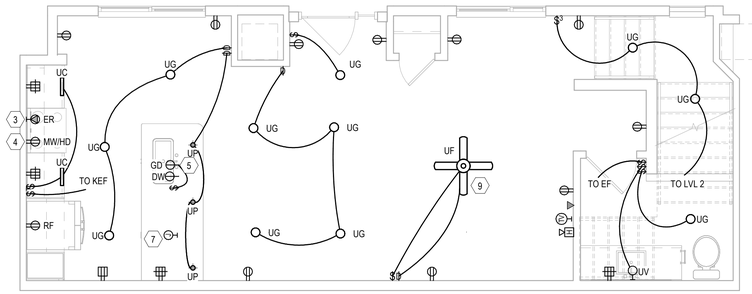
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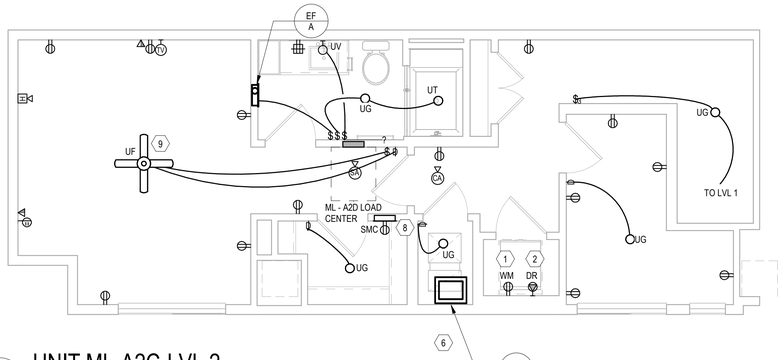
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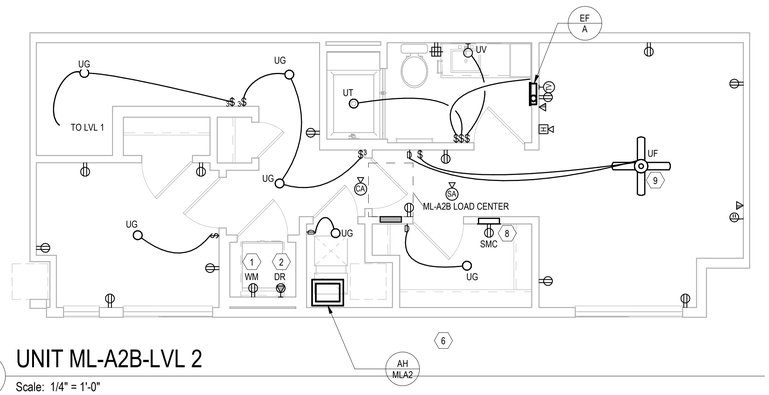
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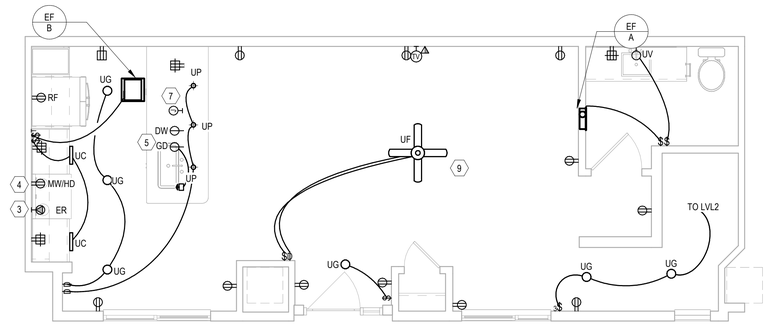
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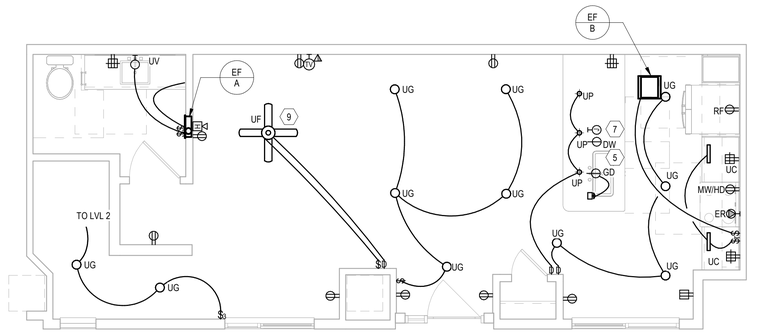
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Scale: 1/4" = 1'-0"



3 UNIT ML-A2C-LVL 1

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MARK W. BIGBEE
PROFESSIONAL ENGINEER
41442
10/18/24

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A Development of
Abacus Capital Group

JOB NO.: 22035

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UNIT PLANS

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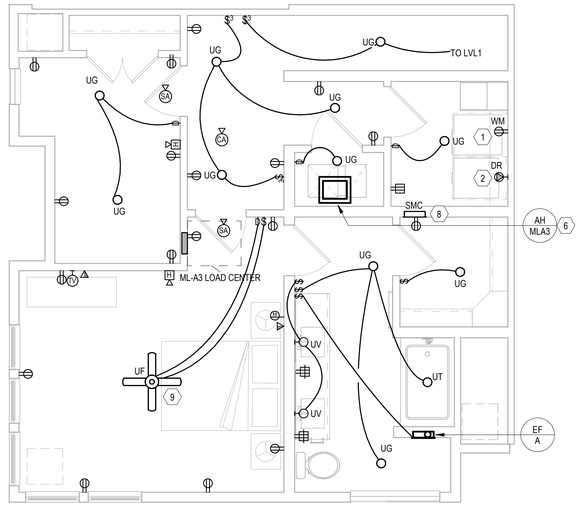
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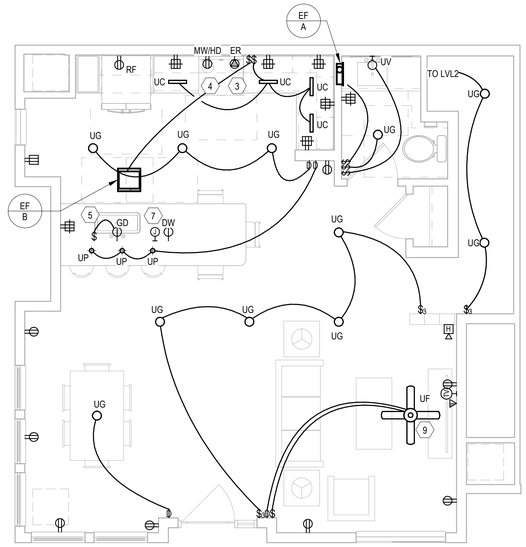
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2 UNIT ML-A3-LVL 2

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



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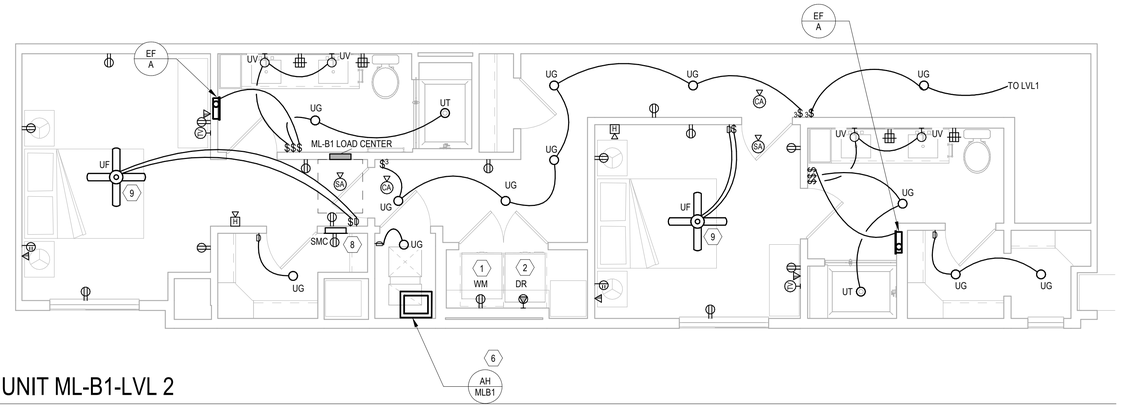
UNIT PLANS

DRAWING NO.

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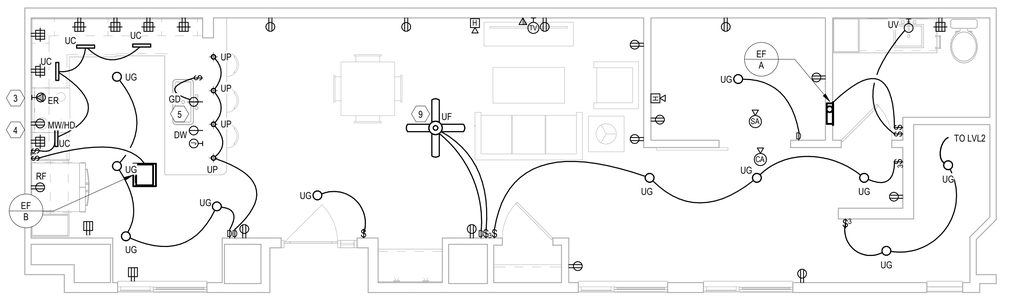
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2 UNIT ML-B1-LVL 2

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



1 UNIT ML-B1-LVL 1

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

UNIT PLANS - GENERAL NOTES

1. LOCATION OF SMOKE ALARMS SHALL BE NO LESS THAN 36" FROM A BATHROOM DOOR, SUPPLY AIR REGISTER, OR TIP OF A CEILING FAN BLADE, AND SHALL BE NO LESS THAN 10' FROM A FIXED COOKING APPLIANCE. WHERE WALL MOUNTED, TOP OF DEVICE SHALL BE NO GREATER THAN 12" FROM CEILING. COORDINATE LOCATION WITH SOFFITS AND CROWN MOLDING (WHERE PRESENT).
2. SMOKE AND CO ALARMS SHALL BE WIRED TO AN UNSWITCHED LIGHTING AND RECEPTACLE CIRCUIT. ALARM DEVICES WITHIN A DWELLING UNIT SHALL BE PROVIDED WITH AUXILIARY CONTACTS AND WIRED SO THAT UPON THE ACTIVATION OF ANY ALARM IN THE DWELLING UNIT, ALL SMOKE AND CO ALARMS WITHIN THE DWELLING SHALL SIGNAL AN ALARM.
3. REFER TO "ELECTRICAL DEVICES-DWELLING UNIT KITCHEN" DETAIL INCLUDED IN THESE DRAWINGS FOR DIMENSIONAL INFORMATION OF DEVICES AT CORNERS (WHERE APPLICABLE).
4. ALL 120V, 15-AND 20-AMP RECEPTACLES IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT TYPE.
5. OUTLET BOXES INSTALLED FOR CEILING FANS SHALL BE UL-LISTED "FOR USE WITH CEILING FANS".
6. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR APPLICABLE CIRCUIT REQUIREMENTS.
7. PRIOR TO ROUGH-IN, CONTRACTOR SHALL:
   - COORDINATE EXACT REQUIREMENTS OF ALL EQUIPMENT AND APPLIANCES FURNISHED BY OTHERS.
   - COORDINATE LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL/INTERIORS DRAWINGS.
8. SEVERAL DWELLING UNIT CIRCUITS AND RECEPTACLES ARE REQUIRED TO BE AFCI-AND/OR GFCI-PROTECTED. REFER TO DRAWINGS AND LOAD CENTER SCHEDULES FOR MORE INFORMATION.
9. CONTRACTOR SHALL ENSURE ALL WALL MOUNTED RECEPTACLES LOCATED AT EACH WINDOW ARE COORDINATED FOR EACH UNIT THROUGHOUT THE PROJECT PRIOR TO ROUGH-IN AND WITH THE ARCHITECT. THIS IS TO ENSURE NO UNIT TYPE ONE OFF CONDITIONS WHERE ONE OF THE UNITS WERE UPGRADED TO GET A FULL HEIGHT WINDOW THAT WOULD TRIGGER A FLOOR BOX OUTLET TO MAINTAIN REQUIRED NEC 210.52 SPACING. NOTIFY THE ENGINEER IF ANY DESCREPANCIES BEFORE ROUGH-IN, CONCRETE POURS, FLOORING INSTALLATIONS, ETC.
10. CONTRACTOR SHALL COORDINATE CLOSELY WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE PROPER OUTLET PLACEMENT ARE BEING INSTALLED FOR LAUNDRY CONNECTIONS WITHOUT CONFLICTS OF OTHER TRADES AND ALSO BEING INSTALLED PER MANUFACTURER BEING FURNISHED.
11. FOR DWELLING UNITS DESIGNATED TO HAVE ACCESSIBLE MOBILITY FEATURES (5% OF DWELLINGS): LOAD CENTER SHALL BE INSTALLED SO THAT NO TRIM LATCH OR BREAKER IS GREATER THAN 48" AFF.
    A TOGGLE SWITCH SHALL BE FIELD-INSTALLED AND WIRED FOR THE RANGE HOOD/LIGHT CIRCUIT. SWITCH SHALL BE MOUNTED ABOVE COUNTER WITHIN REQUIRED REACH RANGES.
12. FOR DWELLING UNITS DESIGNATED TO HAVE COMMUNICATION FEATURES (2% OF DWELLINGS) FOR SENSORY-IMPAIRED (HEARING OR VISION):
    - FURNISH AND INSTALL AN EDWARDS (OR EQUAL) "DOORBELL" SYSTEM (CAT# 7005-G5), CONSISTING OF A LOW-VOLTAGE TRANSFORMER, PUSHBUTTON AND HORN/STROBE. LOCATE PUSHBUTTON WITH COVERPLATE (CAT# 147-10) OUTSIDE OF ENTRY DOOR, TRANSFORMER CONCEALED WITHIN CLOTHES CLOSET, AND HORN/STROBE WITHIN LIVING ROOM.
    - EACH FIRE ALARM SYSTEM AUDIBLE APPLIANCE SHALL BE EQUIPPED WITH A VISUAL DEVICE.
    - A FIRE ALARM VISUAL DEVICE SHALL BE INSTALLED IN EACH BATHROOM.
    - REFER TO DETAIL INCLUDED IN THESE DRAWINGS FOR WIRING DIAGRAM OF SMOKE ALARMS AND FIRE ALARM DEVICES.
13. CONTRACTOR SHALL ENSURE PRIOR TO ROUGH-IN AND FOUNDATION POUR ALL RECEPTACLES LOCATED AT/UNDER WINDOWSILLS ARE BEING COORDINATED WITH ANY SPECIAL UNIT TYPE CONDITIONS REGARDING NORMAL HEIGHT VS POSSIBLY FULL HEIGHT WINDOWS, CONFIRM PER LATEST ARCHITECTURAL WINDOW SCHEDULES/PLANS TRIGGERING A FLOOR BOX INSTALLATION IN LIEU OF A WALL MOUNTED DUPLEX. CONTRACTOR SHALL ENSURE ANY FLOOR BOX INSTALLATIONS ARE BEING INSTALLED PER NEC 210.52 REQUIREMENTS AND EXACT LOCATION SHALL BE COORDINATED PER ARCHITECT.

UNIT PLANS - KEYNOTES

KEY VALUE	NOTES
1	NEMA 5-20R FOR CLOTHES WASHER. CIRCUIT SHALL BE 2#12, #12G
2	NEMA 14-30R FOR CLOTHES DRYER. CIRCUIT SHALL BE 3#10, #10G.
3	NEMA 14-50R FOR RANGE / OVEN. CIRCUIT SHALL BE 3#6, #10G.
4	NEMA 5-20R FOR MICROWAVE / EXHAUST HOOD. CIRCUIT SHALL BE 2#12, #12G. LOCATE RECEPTACLE IN CABINETRY ABOVE.
5	FOR SINK DISPOSAL/DISHWASHER CONNECTION, INSTALL A SINGLE NEMA 5-20R RECEPTACLE FOR EACH APPLIANCE WITHIN BASE CABINET. RECEPTACLES SHALL BE LOCATED ADJACENT TO DISHWASHER IN AN ACCESSIBLE LOCATION.
6	DISCONNECT SWITCH FOR AIR-HANDLING UNIT. REFER TO 'DWELLING MECHANICAL SCHEDULE' FOR MORE INFORMATION.
7	INSTALL A JUNCTION BOX FOR FUTURE COUNTER TOP RECEPTACLES, OR INSTALL 'POP UP' RECPTACLES INTO COUNTER TOP.
8	CONTRACTOR TO FURNISH AND INSTALL A STRUCTURED MEDIA CABINET (SMC) IN EACH DWELLING UNIT. COORDINATE EXACT LOCATION AND TYPE WITH TELECOM CONSULTANT.
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ELECTRICAL UNITS ABBREVIATIONS

DR	ELECTRIC DRYER
DW	DISHWASHER
GD	GARBAGE DISPOSAL
GD/DW	GARBAGE DISPOSAL / DISHWASHER
ER	ELECTRIC RANGE
HD	HOOD
MW	MICROWAVE
MW/HD	MICROWAVE / HOOD
PDS	PNEUMATIC DISPOSAL SWITCH
RF	REFRIGERATOR
SMC	STRUCTURED MEDIA CABINET
WM	WASHING MACHINE

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. BIGLIN
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
	10/18/2024	ISSUED FOR PERMIT

MEEKS PARTNERS
1600 Memorial Drive
Suite 100
Houston, Texas 77079
281.558.8787

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290 E. 17th Ave, Denver, CO 80203
A Development of
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JOB NO.: 22035

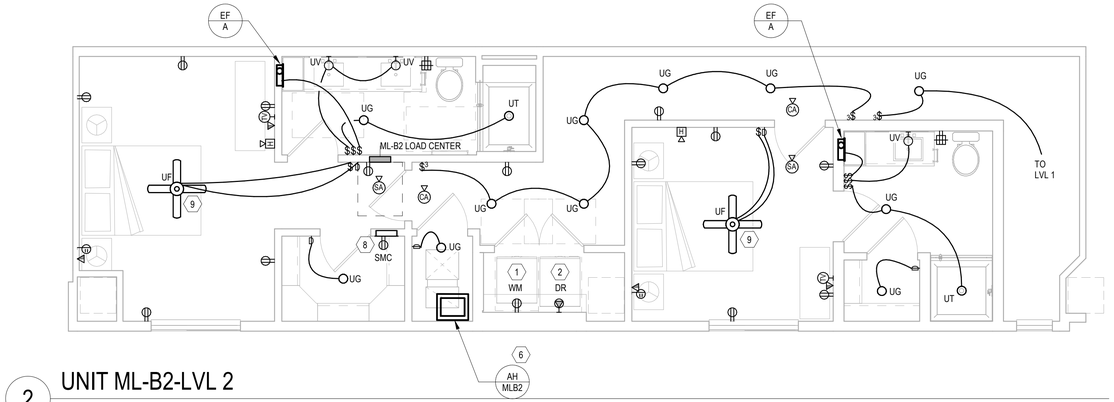
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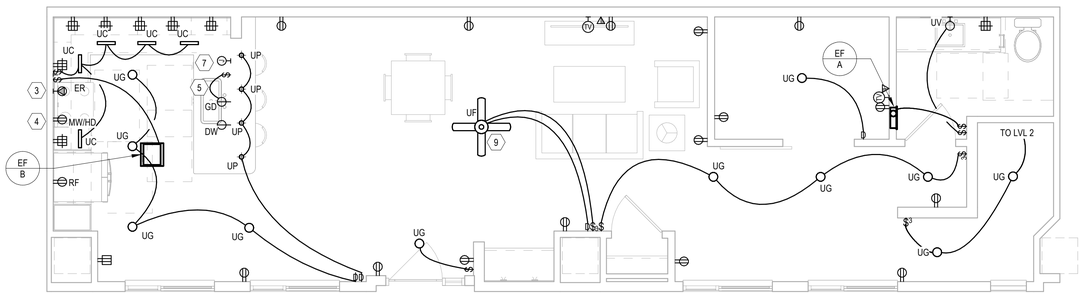
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2 UNIT ML-B2-LVL 2

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



1 UNIT ML-B2-LVL 1

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41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO	REVISION DATE	REVISION DESCRIPTION
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Suite 700
Houston, Texas 77079
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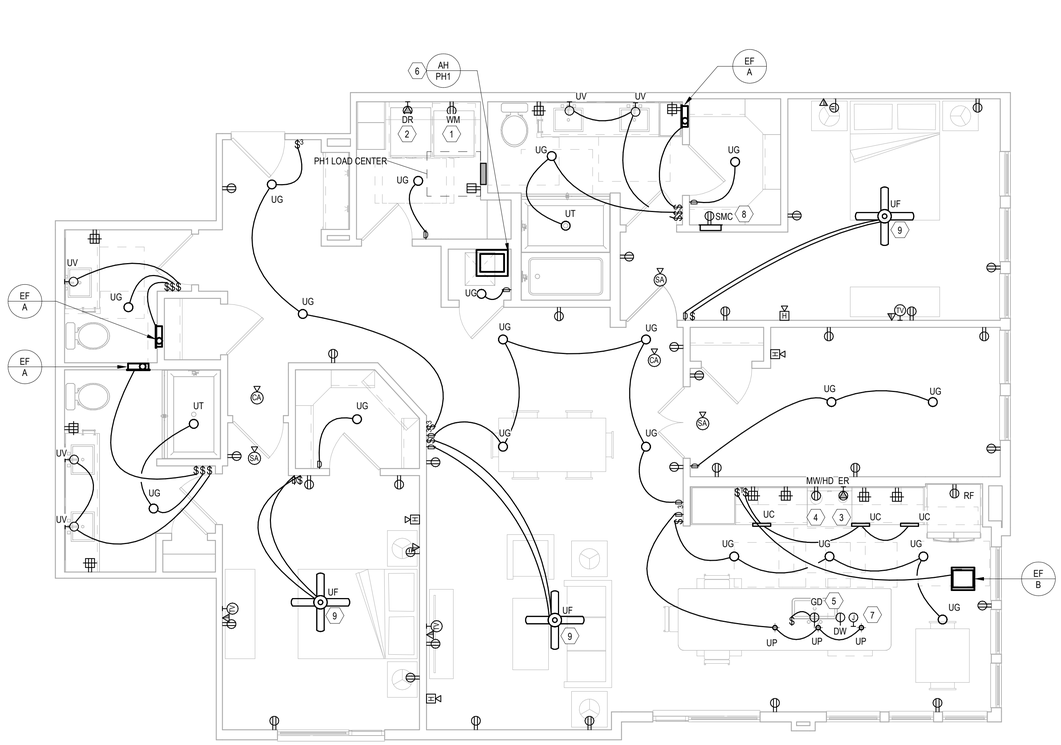
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1 UNIT PH-1

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

UNIT PLANS - GENERAL NOTES

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JOB NO.: 22035

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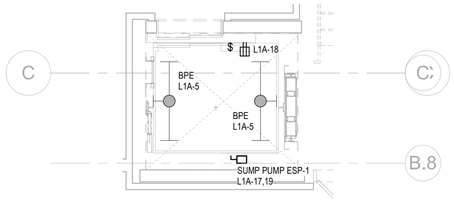
SHEET TITLE:
UNIT PLANS

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Jordan & Skala Engineers
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p. 303.586.2375
Project Number: 23080076 Drawn By: DD Checked By: SL

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2 ELEVATOR 1 - LVL 1

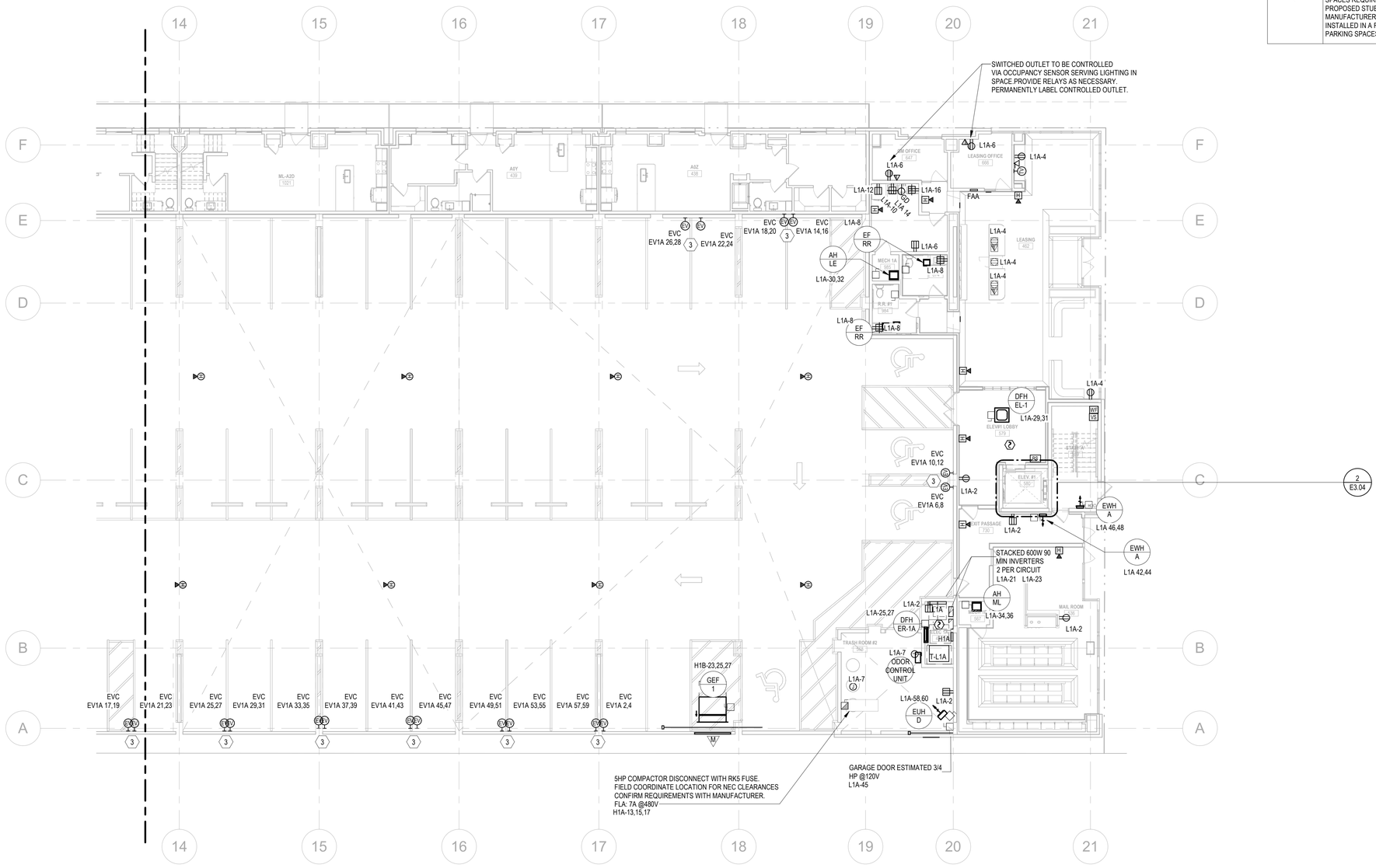
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FLOOR PLAN NOTES - POWER

1. REFER TO FIRST ELECTRICAL SHEET, 'ELECTRICAL GENERAL NOTES', FOR INFORMATION ON WIRE SIZES, MEANS/METHODS, AND LENGTH OF CONDUIT RUNS VERSUS VOLTAGE DROP REQUIREMENTS.
2. REFER TO CONNECTION EQUIPMENT SCHEDULES FOR MECHANICAL AND PLUMBING EQUIPMENT DISCONNECT SIZES, BRANCH CIRCUIT INFORMATION, AND ASSOCIATED GENERAL NOTES.
3. PROVIDE AT LEAST (1) GFCI OUTLET/PROTECTION PER NEC210.8(E) AND NEC210.63 MINIMUM REQUIREMENTS (I.E. ONE GFCI RECEPTACLE WITHIN 25 FEET OF APPLICABLE EQUIPMENT). VERIFY EXACT LOCATIONS IN FIELD TO ENSURE COMPLIANCE IS MAINTAINED.

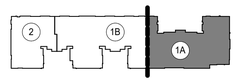
EV PARKING - KEYNOTES

KEY VALUE	NOTES
1	ROUTE 2#6, 1#10G IN 1" CONDUIT FOR DAY 1 DUAL OR SINGLE EV STATION SERVING REQUIRED 'EVSE' PARKING SPACES. VERIFY ELECTRICAL REQUIREMENTS WITH OWNER AND APPROVED MANUFACTURER SPECIFICATIONS.
2	EV EQUIPMENT NOT TO BE INSTALLED DAY 1 AT THIS LOCATION. ROUTE 2#6, 1#10G IN 1" CONDUIT FOR EACH DUAL OR SINGLE 'EV READY' STATION. VERIFY ELECTRICAL REQUIREMENTS WITH OWNER AND APPROVED MANUFACTURER SPECIFICATIONS.
3	ROUTE 1" EMPTY CONDUIT FOR FUTURE (PROVIDED BY THE OWNER AT A LATER DATE) SINGLE OR DUAL EV STATION SERVING REQUIRED 'EV CAPABLE' PARKING SPACES. ELECTRICAL LOADS SHOWN AT PANEL ARE ONLY FOR REFERENCE AND TO ILLUSTRATE SPACE PLANNING THROUGHOUT. EV CAPABLE SPACES REQUIRE EMPTY CONDUIT, PULL STRING, AND CAP FROM PANEL SOURCE/ROOM TO PARKING PROPOSED STUB UP. VERIFY ELECTRICAL REQUIREMENTS WITH OWNER AND APPROVED MANUFACTURER SPECIFICATIONS. WHERE REQUIRED, FINAL INSTALLATION OF EV STATION SHALL BE INSTALLED IN A FULLY ACCESSIBLE LOCATION PER A117.1-2017, SECTION 502.11. TYPICAL FOR ALL PARKING SPACES, UNO.



1 ENLARGED POWER PLAN - BUILDING #1A - LEVEL 1

Scale: 3/32" = 1'-0"



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PROFESSIONAL ENGINEER
10/18/24

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ENLARGED BUILDING PLAN - BLDG. #1A - LVL. 1

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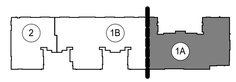
FLOOR PLAN NOTES - POWER

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1 ENLARGED POWER PLAN - BUILDING #1A - LEVEL 2

Scale: 3/32" = 1'-0"

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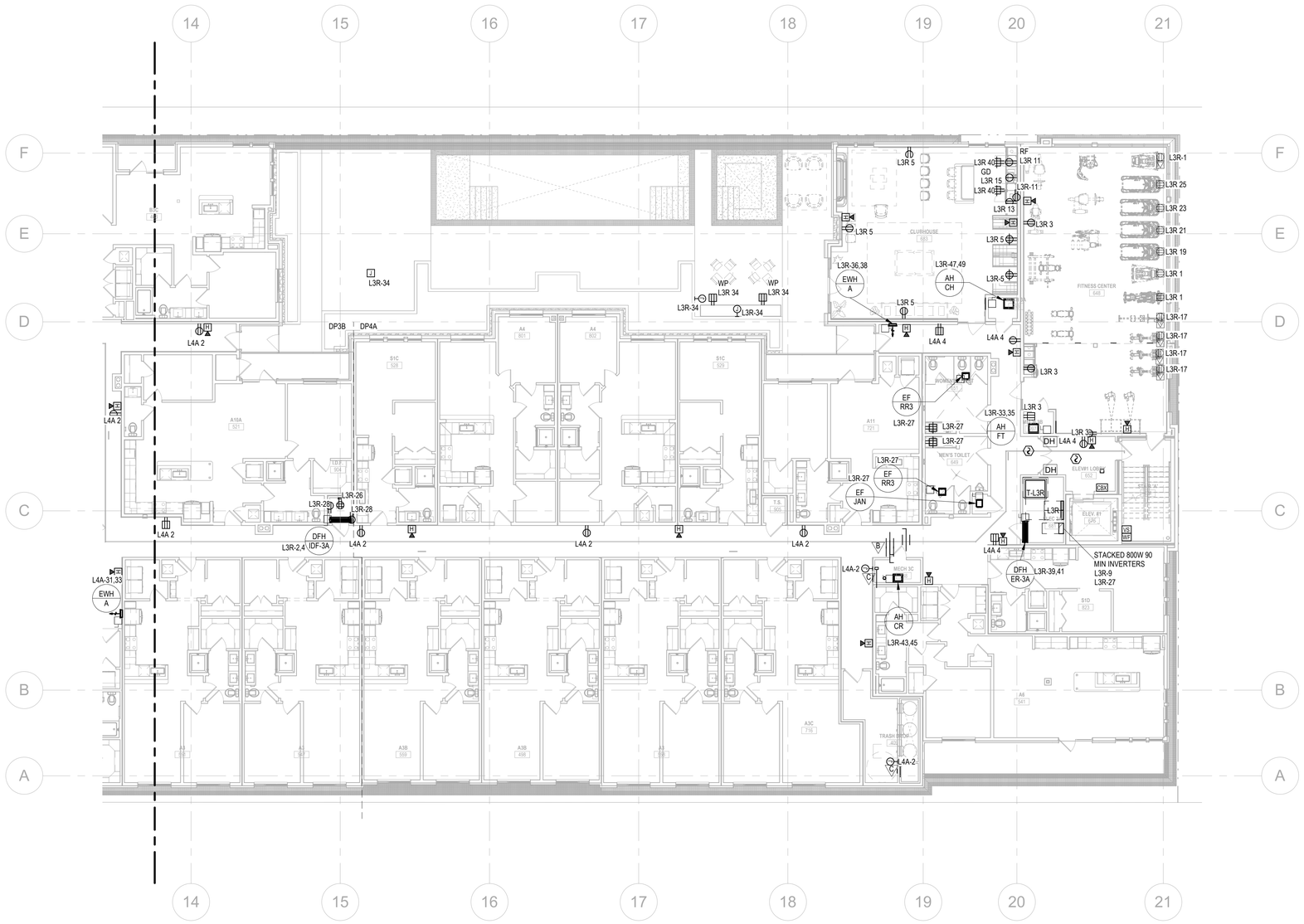
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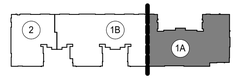
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1 ENLARGED POWER PLAN - BUILDING #1A - LEVEL 3

Scale: 3/32" = 1'-0"



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10/18/24

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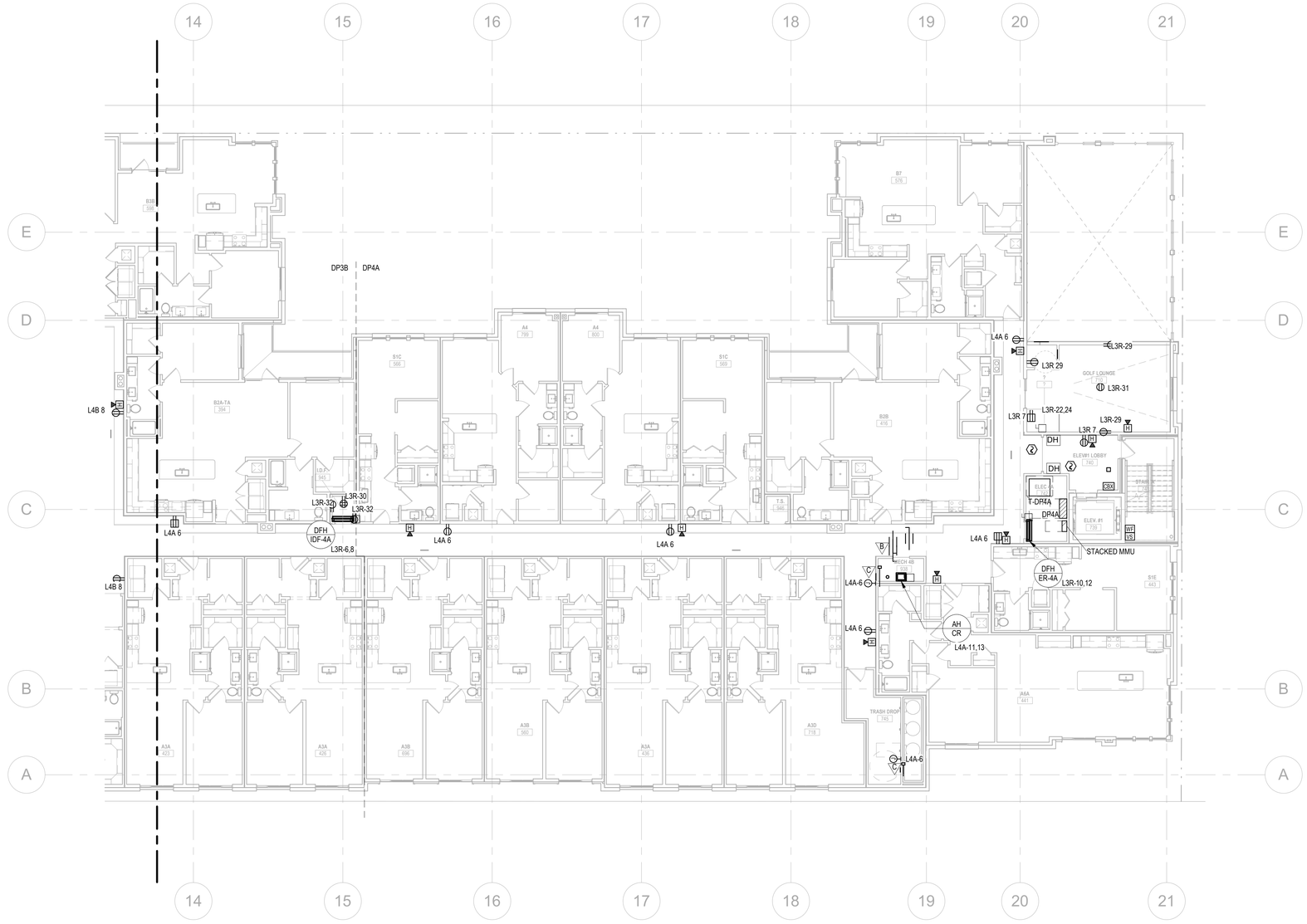
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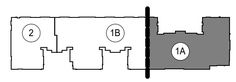
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1 ENLARGED POWER PLAN - BUILDING #1A - LEVEL 4

Scale: 3/32" = 1'-0"



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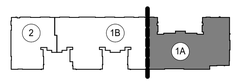
FLOOR PLAN NOTES - POWER

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1 ENLARGED POWER PLAN - BUILDING #1A - LEVEL 5

Scale: 3/32" = 1'-0"



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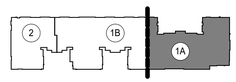
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KEYMAP N

1 ENLARGED POWER PLAN - BUILDING #1A - LEVEL 6

Scale: 3/32" = 1'-0"

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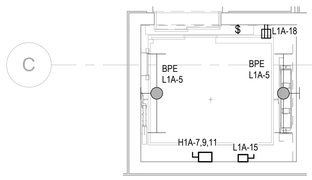
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2 ELEV 1 TOP HOIST

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

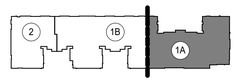


1 ENLARGED POWER PLAN - BUILDING #1A - LEVEL 7

Scale: 3/32" = 1'-0"

FLOOR PLAN NOTES - POWER

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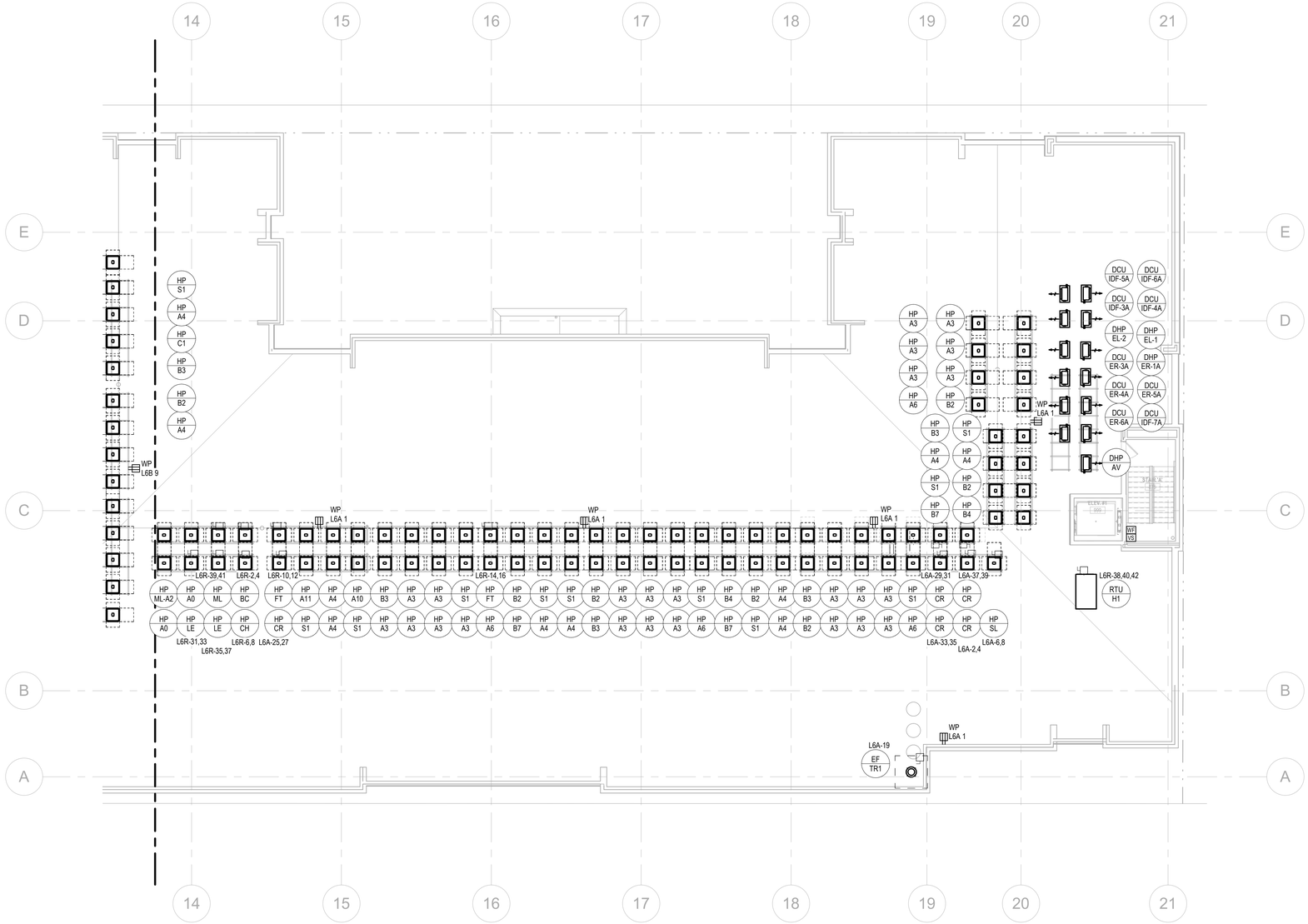
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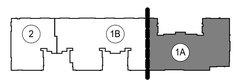
ROOF PLAN NOTES - POWER

1. REFER TO FIRST ELECTRICAL SHEET, 'ELECTRICAL GENERAL NOTES', FOR INFORMATION ON WIRE SIZES, MEANS/METHODS, AND LENGTH OF CONDUIT RUNS VERSUS VOLTAGE DROP REQUIREMENTS.
2. REFER TO CONNECTION EQUIPMENT SCHEDULES FOR MECHANICAL AND PLUMBING EQUIPMENT DISCONNECT SIZES, BRANCH CIRCUIT INFORMATION, AND ASSOCIATED GENERAL NOTES.
3. ALL ARCHITECTURALLY INDICATED MEETING ROOMS SHALL ADHERE TO NEC 210.65. CONTRACTOR SHALL NOTIFY ELECTRICAL ENGINEER IF ANY ROOMS ARE NOT MEETING THIS INTENT PRIOR TO FINAL INSTALLATION BASED ON LATEST ROOM NAMES.
4. MOUNT MECHANICAL EQUIPMENT DISCONNECTS WITH PROPER WORKING CLEARANCES PER NEC AND LOCAL JURISDICTION.
5. MOUNT GFCI WEATHERPROOF MAINTENANCE RECEPTACLES SUCH THAT ONE IS WITHIN 25' OF ALL MECHANICAL EQUIPMENT PER NEC. RECEPTACLES SHALL BE MOUNTED TO WALL, EQUIPMENT RACK OR SUPPORTED VIA RIGID CONDUIT.
6. REFER TO FINAL DEFERRED SUBMITTAL FOR RADON MITIGATION FOR ADDITIONAL ROOFTOP EXHAUST FAN(S). POWER SHALL BE PULLED FROM NEAREST EXISTING ROOFTOP EXHAUST CIRCUITRY AS NECESSARY TO SERVE.



1 ENLARGED POWER PLAN - BUILDING #1A - ROOF

Scale: 3/32" = 1'-0"



KEYMAP N

JSE Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED MARK W. BIGLIN 41442 PROFESSIONAL ENGINEER 10/18/24

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290 E. 17th Ave, Denver, CO 80203
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ENLARGED BUILDING PLAN - BLDG. #1A - ROOF

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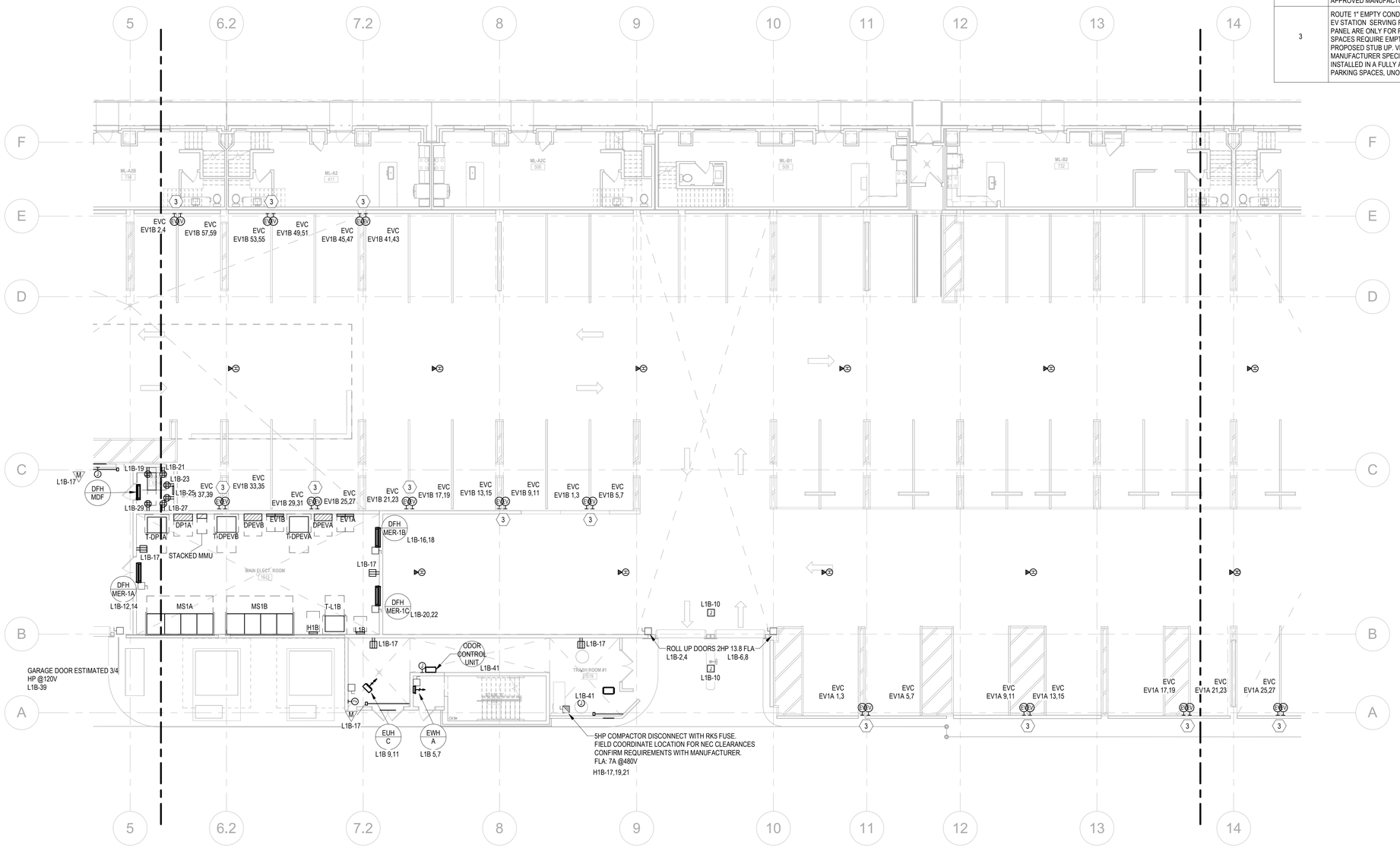
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FLOOR PLAN NOTES - POWER

1. REFER TO FIRST ELECTRICAL SHEET, 'ELECTRICAL GENERAL NOTES', FOR INFORMATION ON WIRE SIZES, MEANS/METHODS, AND LENGTH OF CONDUIT RUNS VERSUS VOLTAGE DROP REQUIREMENTS.
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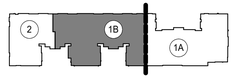
EV PARKING - KEYNOTES

KEY VALUE	NOTES
1	ROUTE 2#6, 1#10G IN 1" CONDUIT FOR DAY 1 DUAL OR SINGLE EV STATION SERVING REQUIRED 'EVSE' PARKING SPACES. VERIFY ELECTRICAL REQUIREMENTS WITH OWNER AND APPROVED MANUFACTURER SPECIFICATIONS.
2	EV EQUIPMENT NOT TO BE INSTALLED DAY 1 AT THIS LOCATION. ROUTE 2#6, 1#10G IN 1" CONDUIT FOR EACH DUAL OR SINGLE 'EV READY' STATION. VERIFY ELECTRICAL REQUIREMENTS WITH OWNER AND APPROVED MANUFACTURER SPECIFICATIONS.
3	ROUTE 1" EMPTY CONDUIT FOR FUTURE (PROVIDED BY THE OWNER AT A LATER DATE) SINGLE OR DUAL EV STATION. SERVING REQUIRED 'EV CAPABLE' PARKING SPACES. ELECTRICAL LOADS SHOWN AT PANEL ARE ONLY FOR REFERENCE AND TO ILLUSTRATE SPACE PLANNING THROUGHOUT. EV CAPABLE SPACES REQUIRE EMPTY CONDUIT, PULL STRING, AND CAP FROM PANEL SOURCE/ROOM TO PARKING PROPOSED STUB UP. VERIFY ELECTRICAL REQUIREMENTS WITH OWNER AND APPROVED MANUFACTURER SPECIFICATIONS. WHERE REQUIRED, FINAL INSTALLATION OF EV STATION SHALL BE INSTALLED IN A FULLY ACCESSIBLE LOCATION PER A117.1-2017, SECTION 502.11. TYPICAL FOR ALL PARKING SPACES, UNO.



1 ENLARGED POWER PLAN - BUILDING #1B - LEVEL 1

Scale: 3/32" = 1'-0"



KEYMAP N

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555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

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MARK W. BIGBEE
41442
PROFESSIONAL ENGINEER
10/18/24

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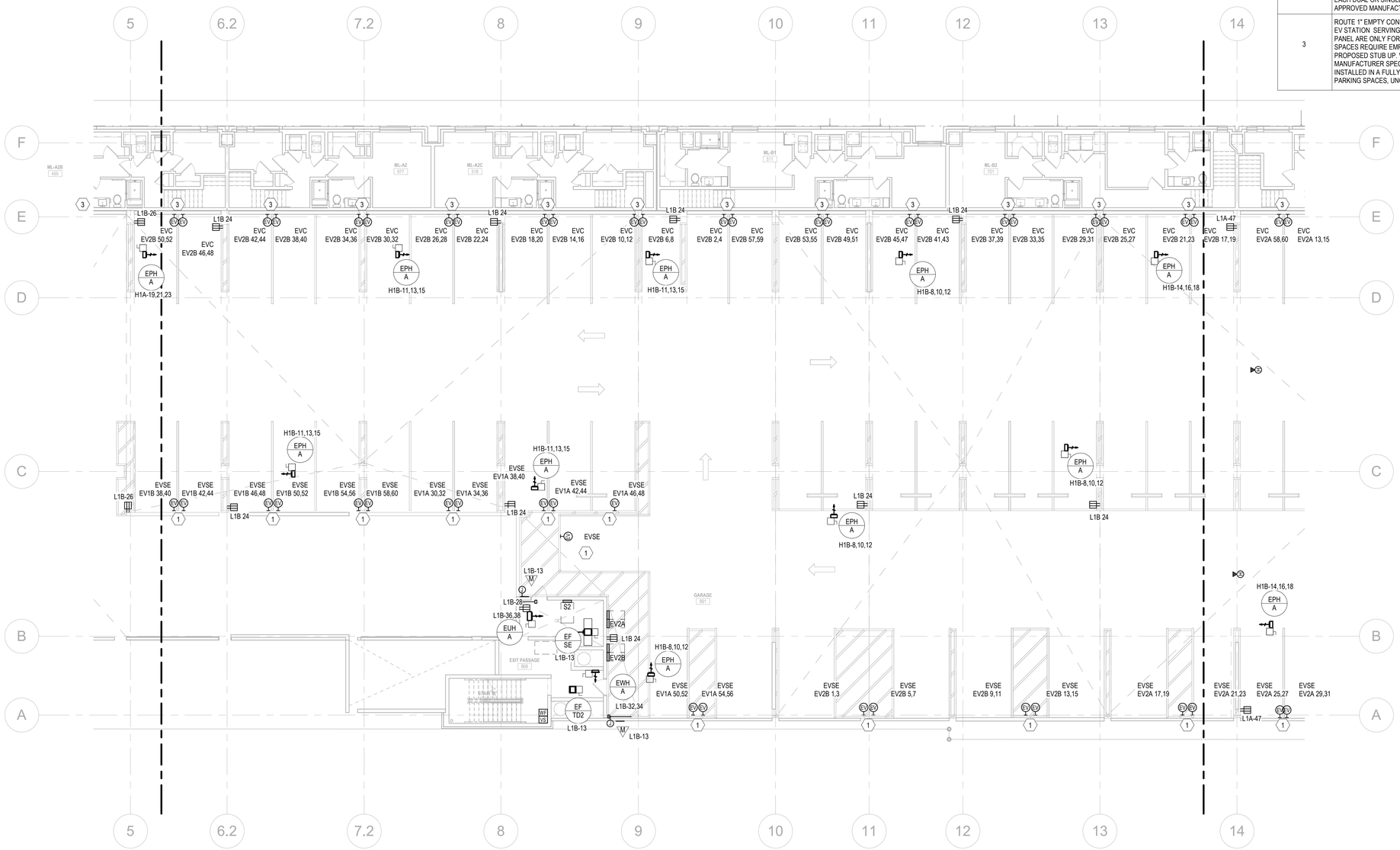
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FLOOR PLAN NOTES - POWER

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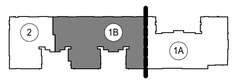
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1 ENLARGED POWER PLAN - BUILDING #1B - LEVEL 2

Scale: 3/32" = 1'-0"



KEYMAP N

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Project Number: 23080076 Drawn By: DD Checked By: SL

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MARK W. BIGBEE
41442
PROFESSIONAL ENGINEER
10/18/24

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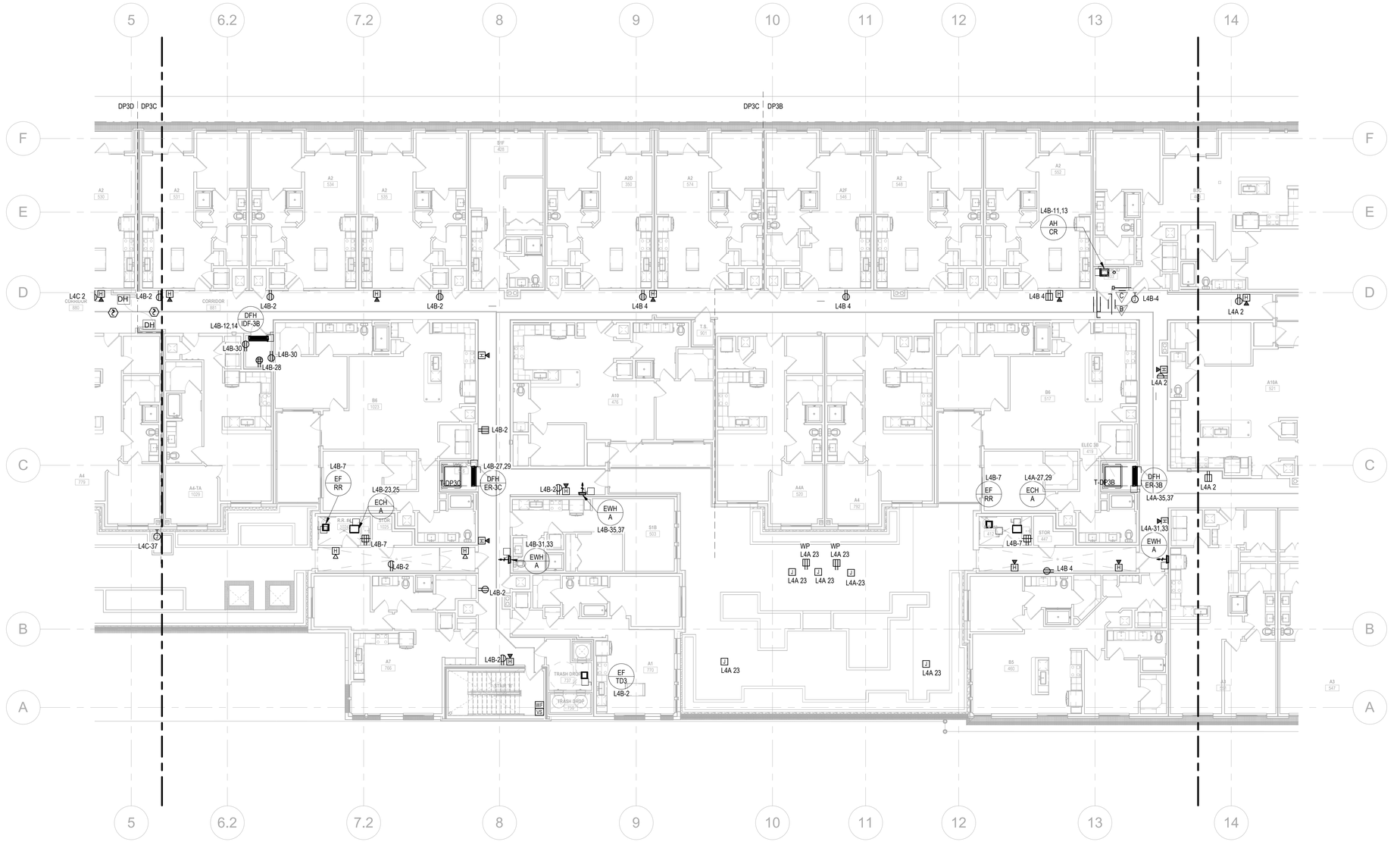
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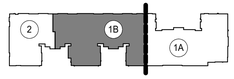
FLOOR PLAN NOTES - POWER

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1 ENLARGED POWER PLAN - BUILDING #1B - LEVEL 3

Scale: 3/32" = 1'-0"



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Project Number: 23080076 Drawn By: DD Checked By: SL

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MARK W. BIGLIN
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO	REVISION DATE	REVISION DESCRIPTION
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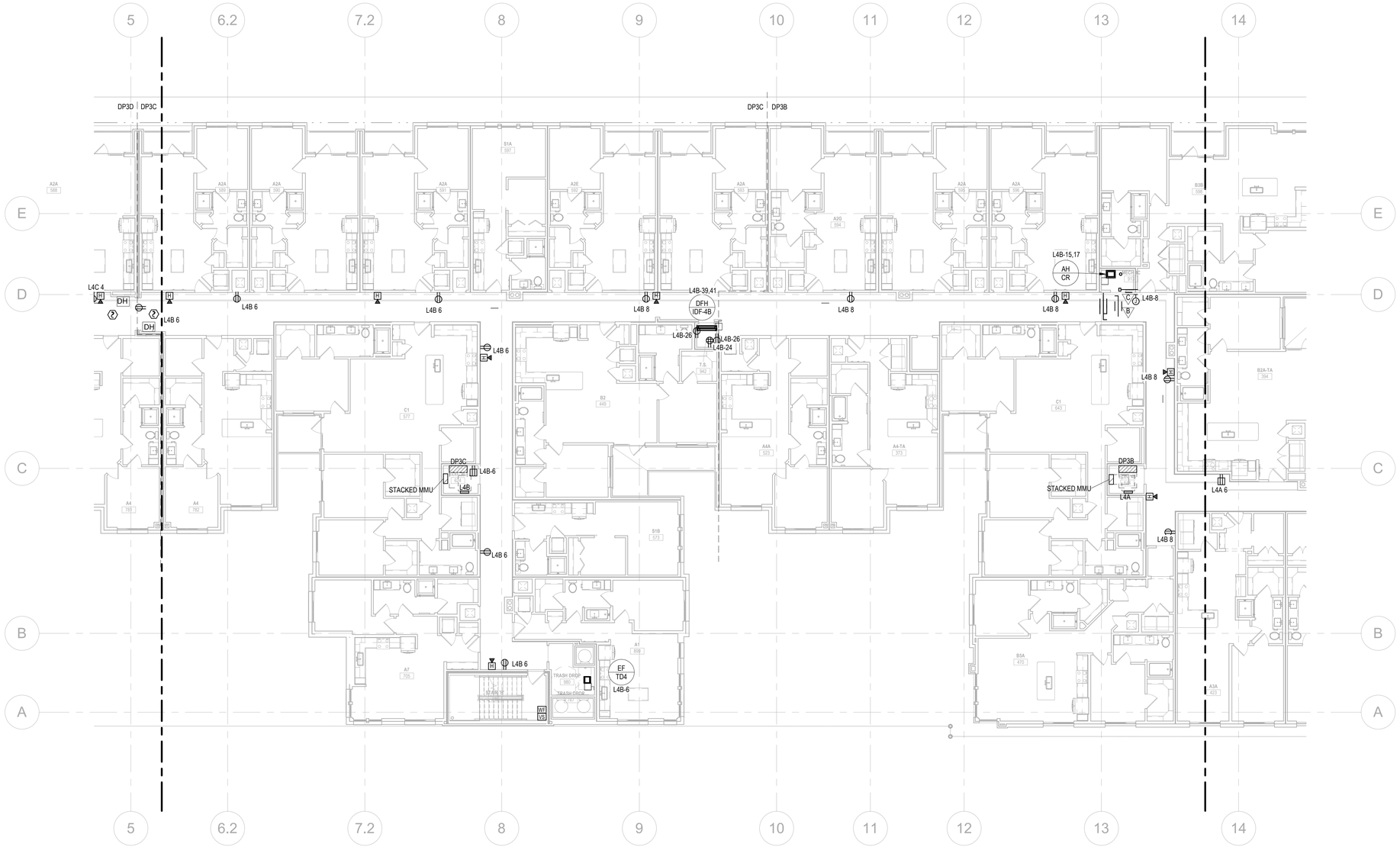
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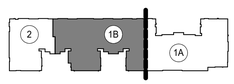
FLOOR PLAN NOTES - POWER

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1 ENLARGED POWER PLAN - BUILDING #1B - LEVEL 4

Scale: 3/32" = 1'-0"



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Project Number: 23080076 Drawn By: DD Checked By: SL

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PROFESSIONAL ENGINEER
10/18/24

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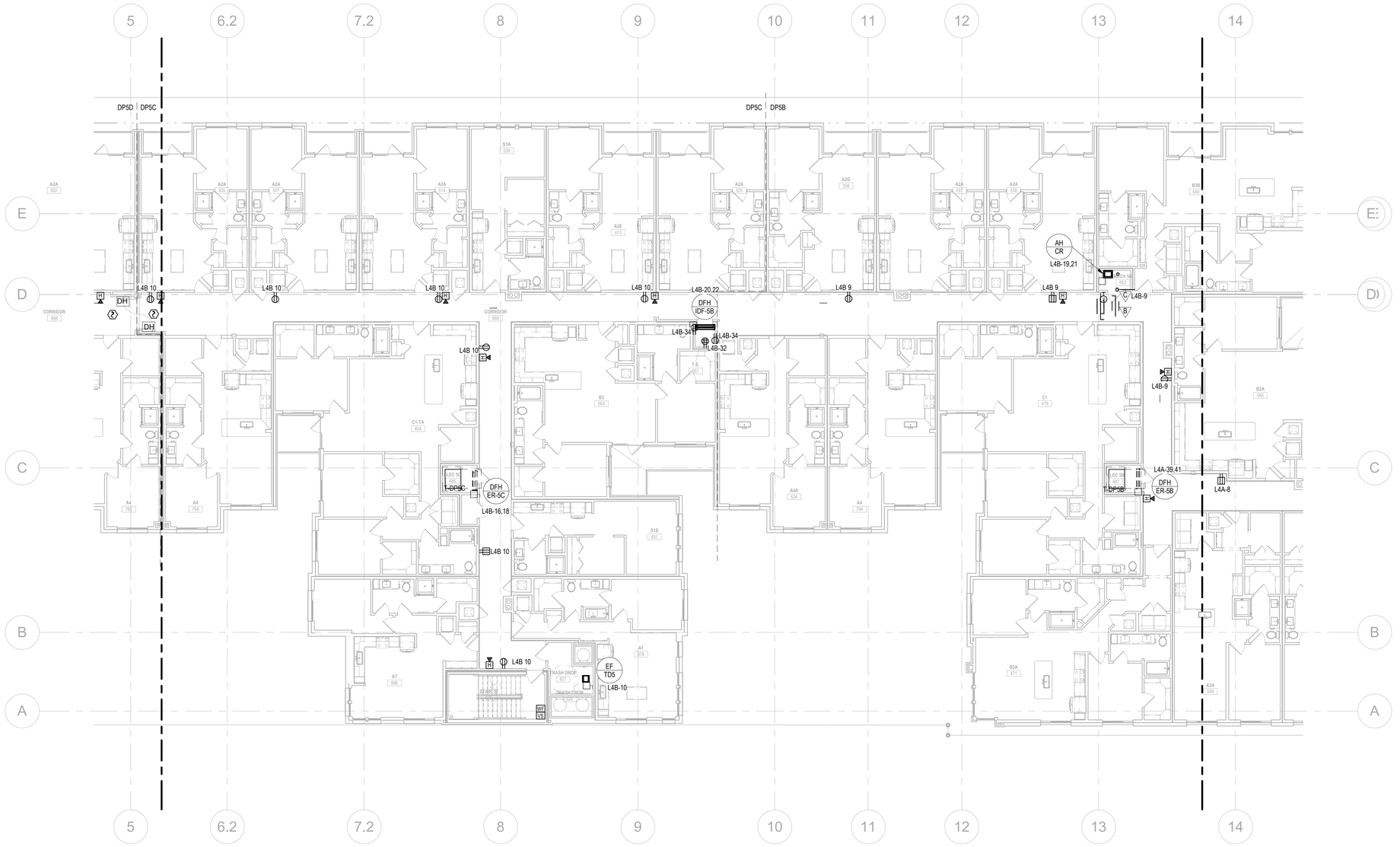
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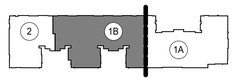
FLOOR PLAN NOTES - POWER

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1 ENLARGED POWER PLAN - BUILDING #1B - LEVEL 5

Scale: 3/32" = 1'-0"



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10/18/24

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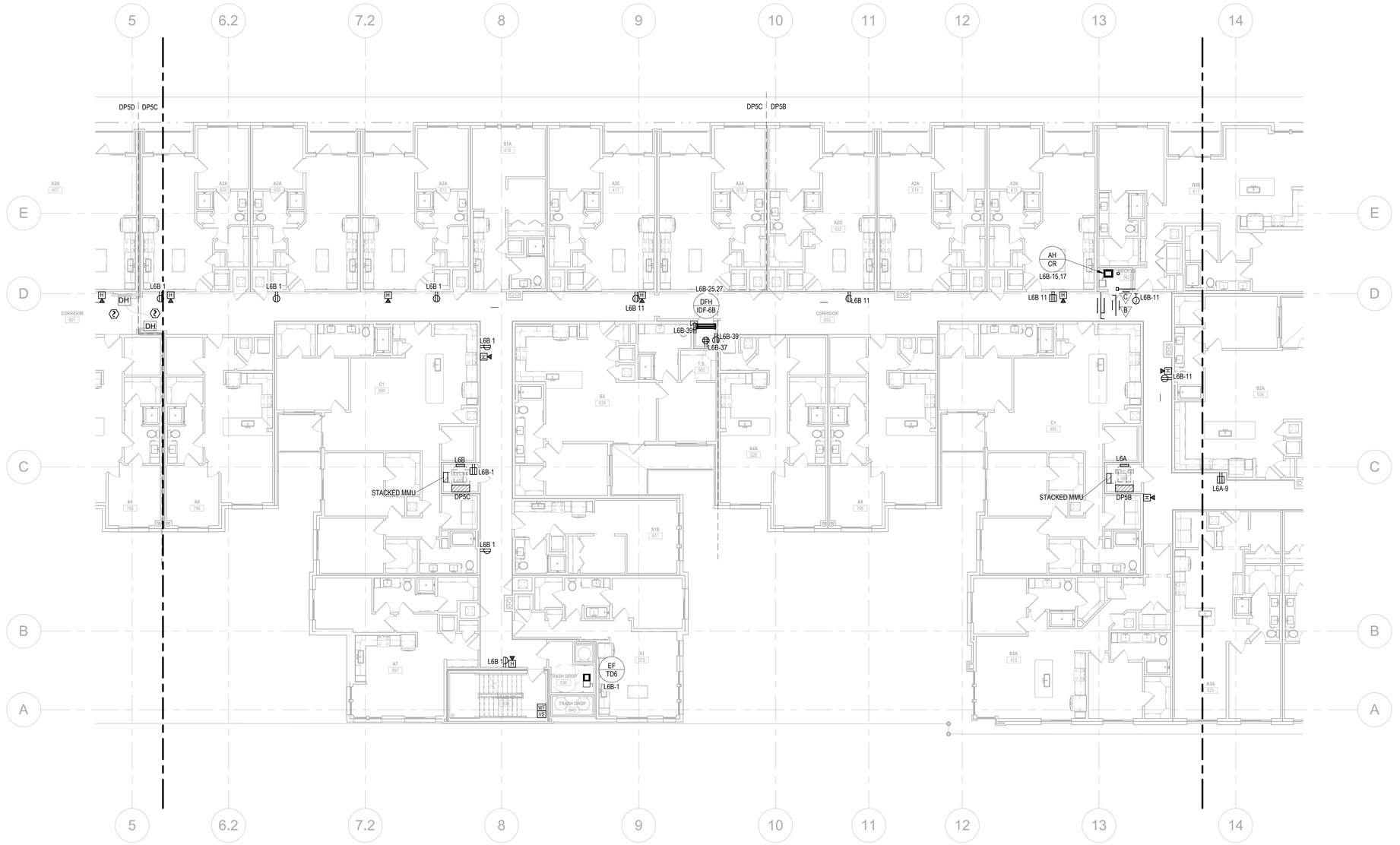
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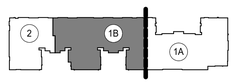
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1 ENLARGED POWER PLAN - BUILDING #1B - LEVEL 6

Scale: 3/32" = 1'-0"



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Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. BIGLIN
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10/18/24

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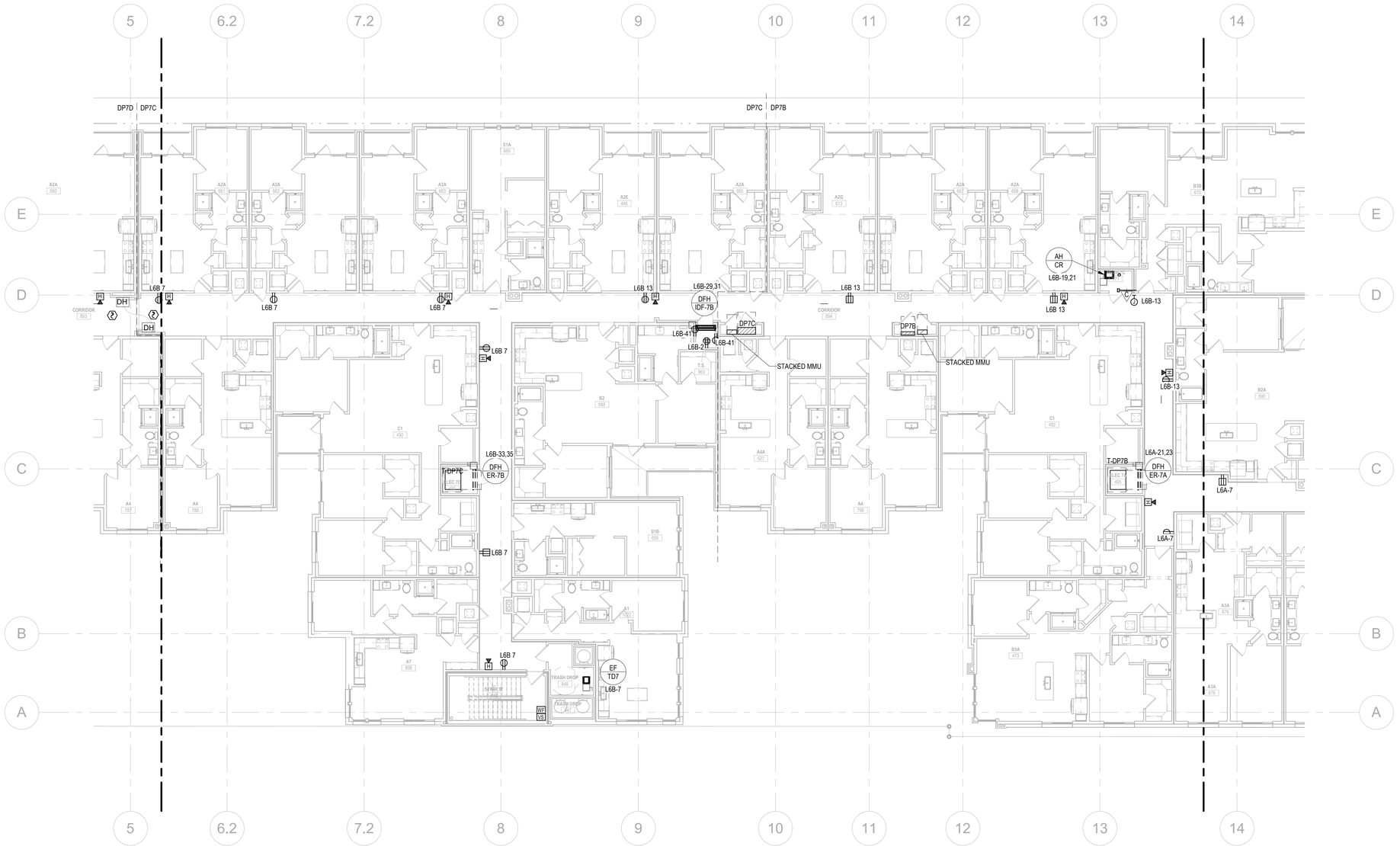
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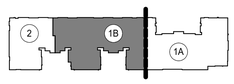
FLOOR PLAN NOTES - POWER

1. REFER TO FIRST ELECTRICAL SHEET, 'ELECTRICAL GENERAL NOTES', FOR INFORMATION ON WIRE SIZES, MEANS/METHODS, AND LENGTH OF CONDUIT RUNS VERSUS VOLTAGE DROP REQUIREMENTS.
2. REFER TO CONNECTION EQUIPMENT SCHEDULES FOR MECHANICAL AND PLUMBING EQUIPMENT DISCONNECT SIZES, BRANCH CIRCUIT INFORMATION, AND ASSOCIATED GENERAL NOTES.
3. PROVIDE AT LEAST (1) GFCI OUTLET/PROTECTION PER NEC210.8(E) AND NEC210.63 MINIMUM REQUIREMENTS (I.E. ONE GFCI RECEPTACLE WITHIN 25 FEET OF APPLICABLE EQUIPMENT). VERIFY EXACT LOCATIONS IN FIELD TO ENSURE COMPLIANCE IS MAINTAINED.



1 ENLARGED POWER PLAN - BUILDING #1B - LEVEL 7

Scale: 3/32" = 1'-0"



KEYMAP N

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555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. BIGLIN
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/26/2024	DESIGN DEVELOPMENT PACKAGE
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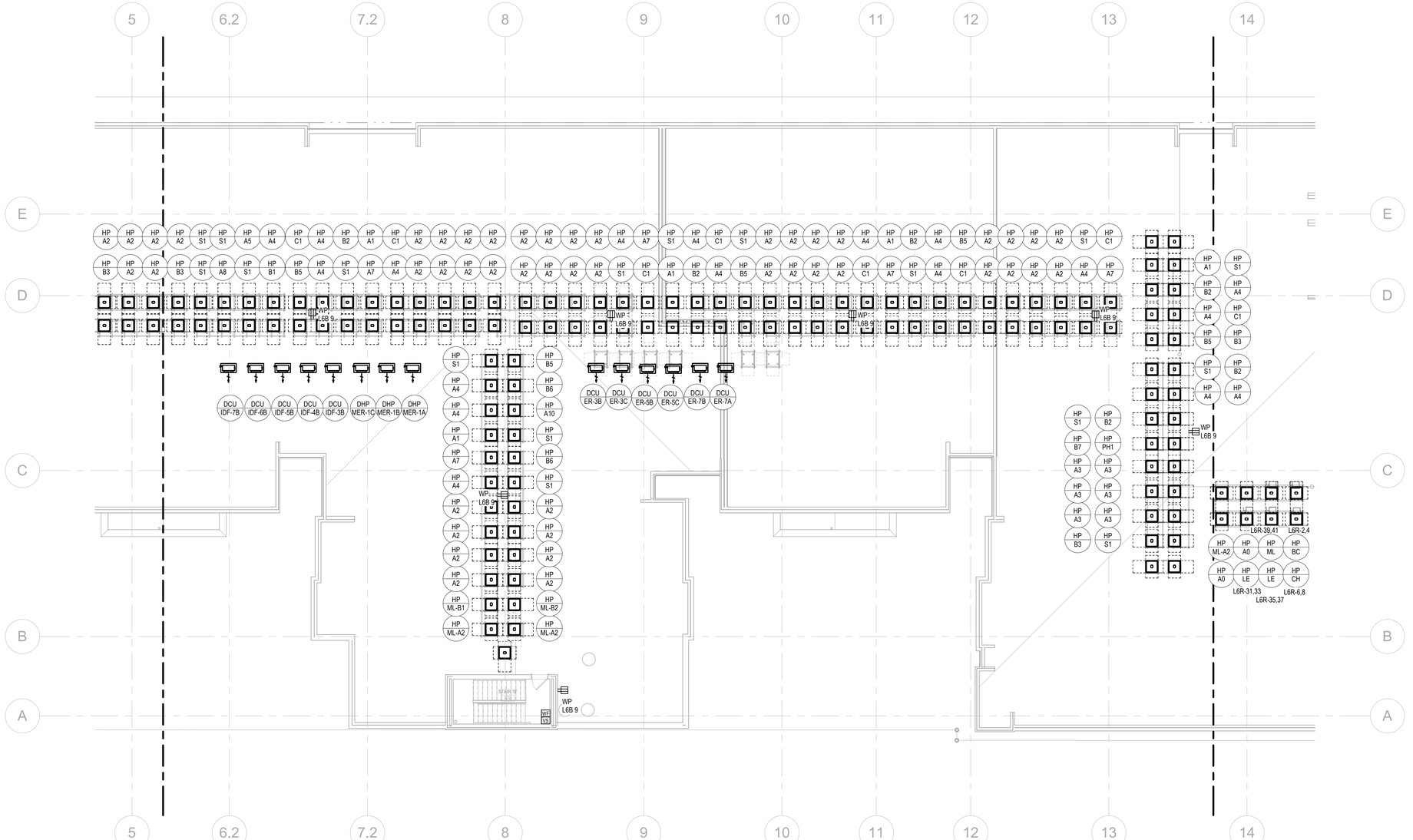
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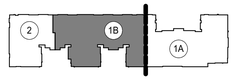
ROOF PLAN NOTES - POWER

1. REFER TO FIRST ELECTRICAL SHEET, 'ELECTRICAL GENERAL NOTES', FOR INFORMATION ON WIRE SIZES, MEANS/METHODS, AND LENGTH OF CONDUIT RUNS VERSUS VOLTAGE DROP REQUIREMENTS.
2. REFER TO CONNECTION EQUIPMENT SCHEDULES FOR MECHANICAL AND PLUMBING EQUIPMENT DISCONNECT SIZES, BRANCH CIRCUIT INFORMATION, AND ASSOCIATED GENERAL NOTES.
3. ALL ARCHITECTURALLY INDICATED MEETING ROOMS SHALL ADHERE TO NEC 210.65. CONTRACTOR SHALL NOTIFY ELECTRICAL ENGINEER IF ANY ROOMS ARE NOT MEETING THIS INTENT PRIOR TO FINAL INSTALLATION BASED ON LATEST ROOM NAMES.
4. MOUNT MECHANICAL EQUIPMENT DISCONNECTS WITH PROPER WORKING CLEARANCES PER NEC AND LOCAL JURISDICTION.
5. MOUNT GFCI WEATHERPROOF MAINTENANCE RECEPTACLES SUCH THAT ONE IS WITHIN 25' OF ALL MECHANICAL EQUIPMENT PER NEC. RECEPTACLES SHALL BE MOUNTED TO WALL, EQUIPMENT RACK OR SUPPORTED VIA RIGID CONDUIT.
6. REFER TO FINAL DEFERRED SUBMITTAL FOR RADON MITIGATION FOR ADDITIONAL ROOFTOP EXHAUST FAN(S). POWER SHALL BE PULLED FROM NEAREST EXISTING ROOFTOP EXHAUST CIRCUITRY AS NECESSARY TO SERVE.



1 ENLARGED POWER PLAN - BUILDING #1B - ROOF

Scale: 3/32" = 1'-0"



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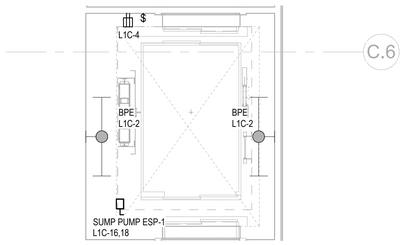
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SHEET TITLE:
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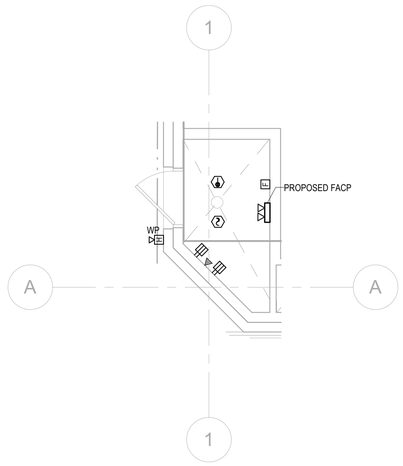
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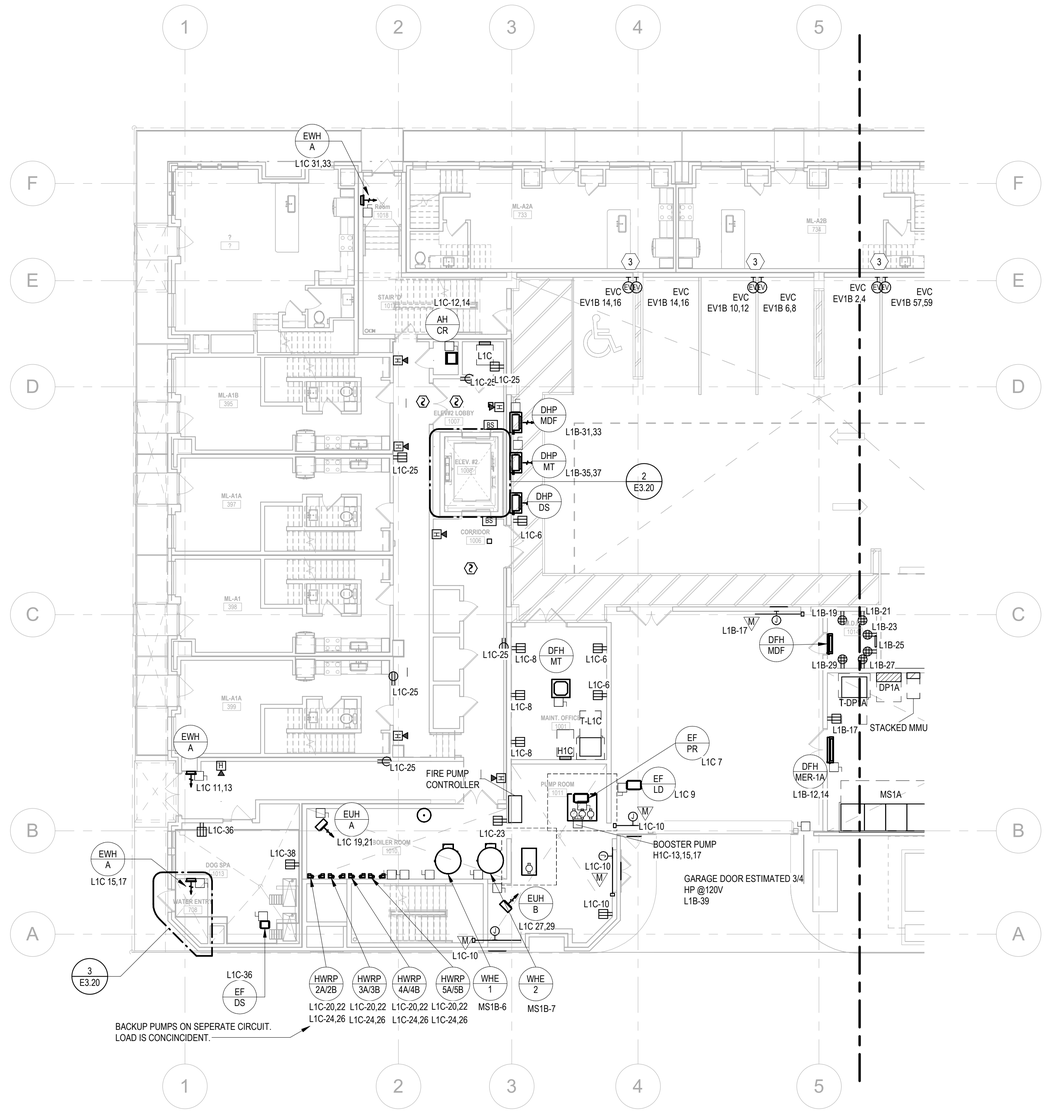
2 ELEVEVATOR 2- LVL 1

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



3 WATER ENTRY ROOM ENLARGED

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



1 ENLARGED POWER PLAN - BUILDING #2 - LEVEL 1

Scale: 3/32" = 1'-0"

FLOOR PLAN NOTES - POWER

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EV PARKING - KEYNOTES

KEY VALUE	NOTES
1	ROUTE 2#6, 1#10G IN 1" CONDUIT FOR DAY 1 DUAL OR SINGLE EV STATION SERVING REQUIRED 'EVSE' PARKING SPACES. VERIFY ELECTRICAL REQUIREMENTS WITH OWNER AND APPROVED MANUFACTURER SPECIFICATIONS.
2	EV EQUIPMENT NOT TO BE INSTALLED DAY 1 AT THIS LOCATION. ROUTE 2#6, 1#10G IN 1" CONDUIT FOR EACH DUAL OR SINGLE 'EV READY' STATION. VERIFY ELECTRICAL REQUIREMENTS WITH OWNER AND APPROVED MANUFACTURER SPECIFICATIONS.
3	ROUTE 1" EMPTY CONDUIT FOR FUTURE (PROVIDED BY THE OWNER AT A LATER DATE) SINGLE OR DUAL EV STATION SERVING REQUIRED 'EV CAPABLE' PARKING SPACES. ELECTRICAL LOADS SHOWN AT PANEL ARE ONLY FOR REFERENCE AND TO ILLUSTRATE SPACE PLANNING THROUGHOUT. EV CAPABLE SPACES REQUIRE EMPTY CONDUIT, PULL STRING, AND CAP FROM PANEL SOURCE/ROOM TO PARKING PROPOSED STUB UP. VERIFY ELECTRICAL REQUIREMENTS WITH OWNER AND APPROVED MANUFACTURER SPECIFICATIONS. WHERE REQUIRED, FINAL INSTALLATION OF EV STATION SHALL BE INSTALLED IN A FULLY ACCESSIBLE LOCATION PER A117.1-2017, SECTION 502.11. TYPICAL FOR ALL PARKING SPACES, UNO.

KEYMAP N

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Project Number: 23080076 Drawn By: DD Checked By: SL

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GRANT STREET APARTMENTS
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JOB NO.: 22035

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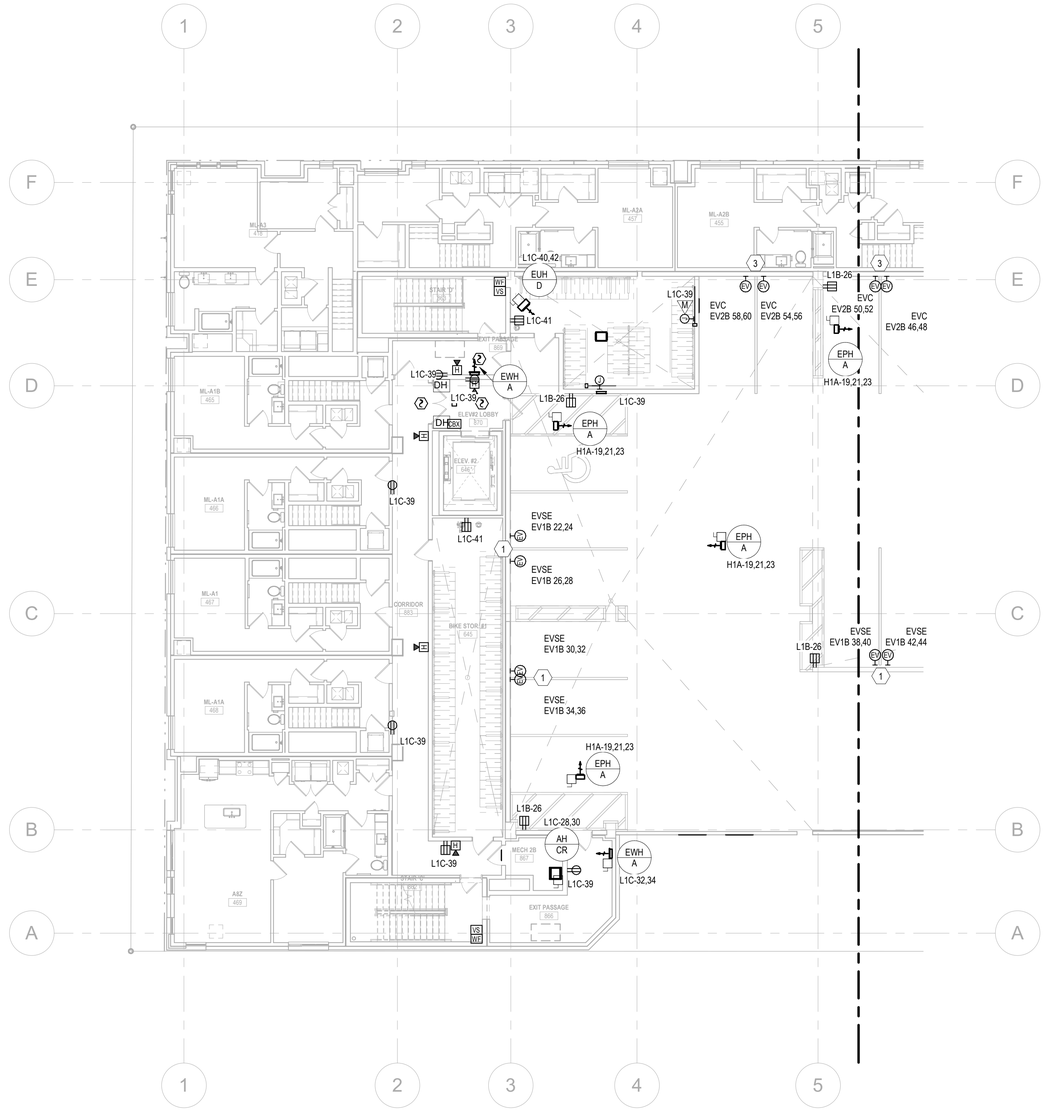
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FLOOR PLAN NOTES - POWER

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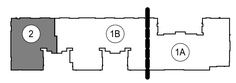
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1 ENLARGED POWER PLAN - BUILDING #2 - LEVEL 2

Scale: 3/32" = 1'-0"



KEYMAP N

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Project Number: 23080076 Drawn By: DD Checked By: SL

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290 E. 17th Ave, Denver, CO 80203
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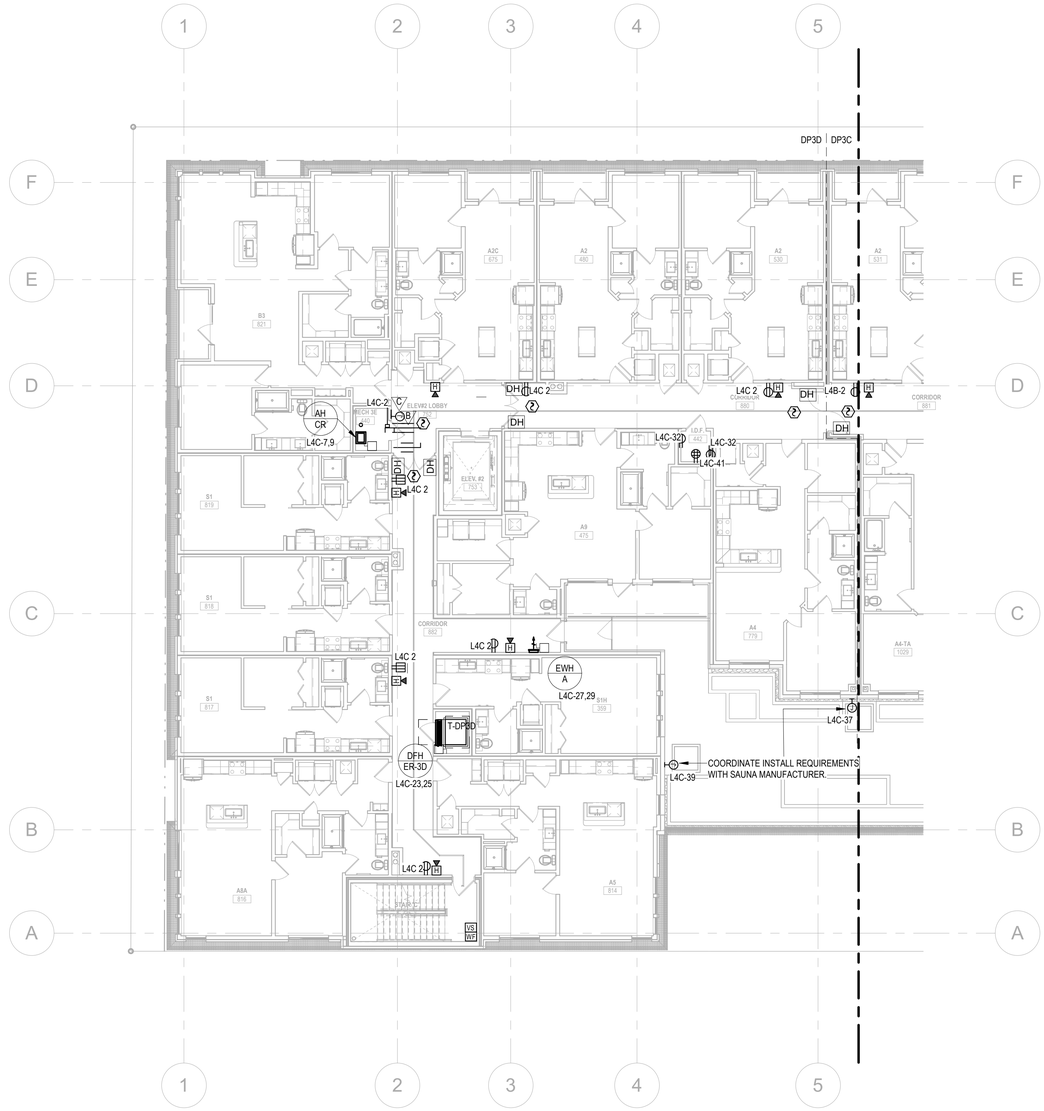
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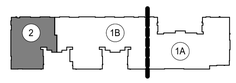
FLOOR PLAN NOTES - POWER

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1 ENLARGED POWER PLAN - BUILDING #2 - LEVEL 3

Scale: 3/32" = 1'-0"



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Project Number: 23080076 Drawn By: DD Checked By: SL

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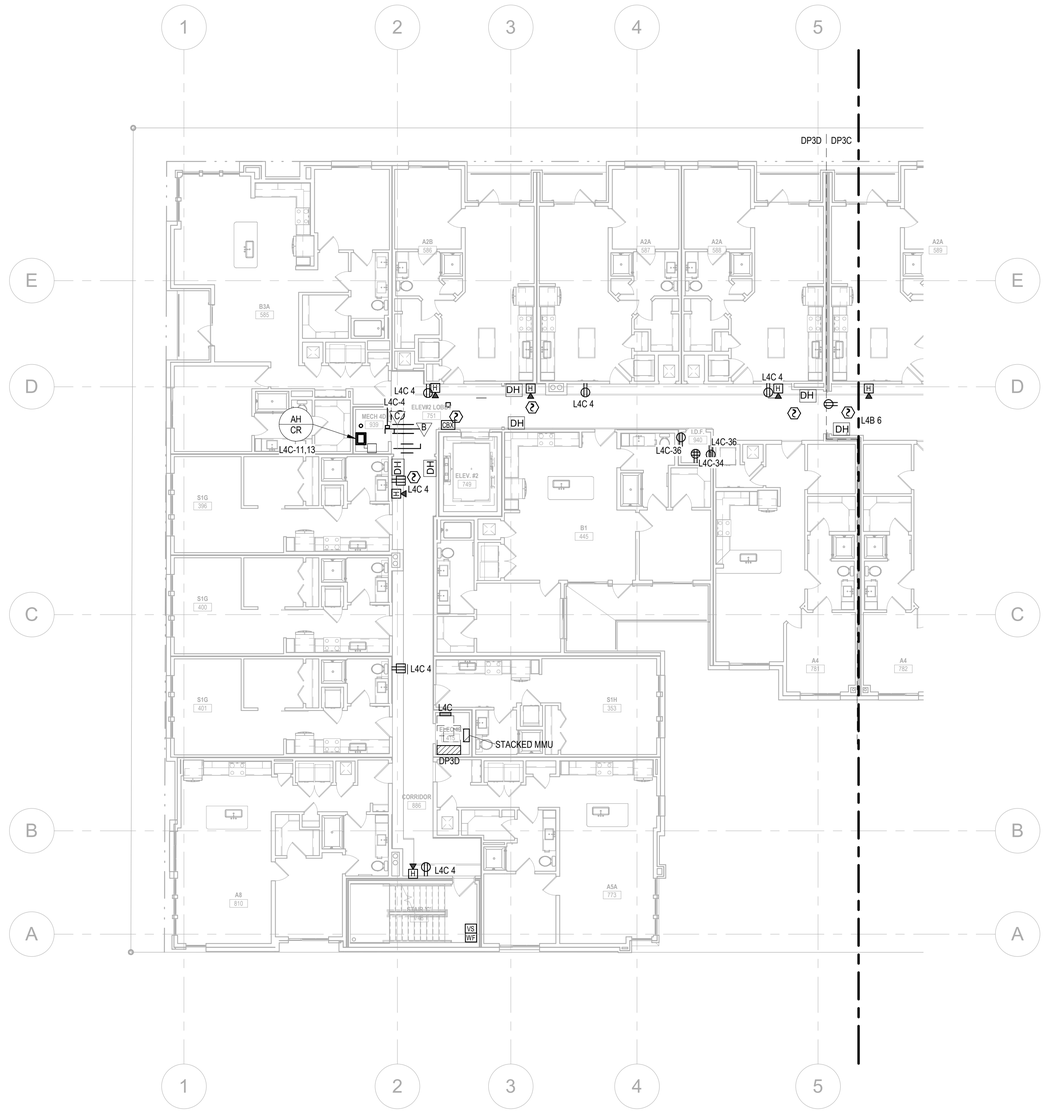
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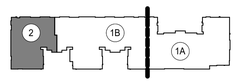
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1 ENLARGED POWER PLAN - BUILDING #2 - LEVEL 4

Scale: 3/32" = 1'-0"



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41442
PROFESSIONAL ENGINEER
10/18/24

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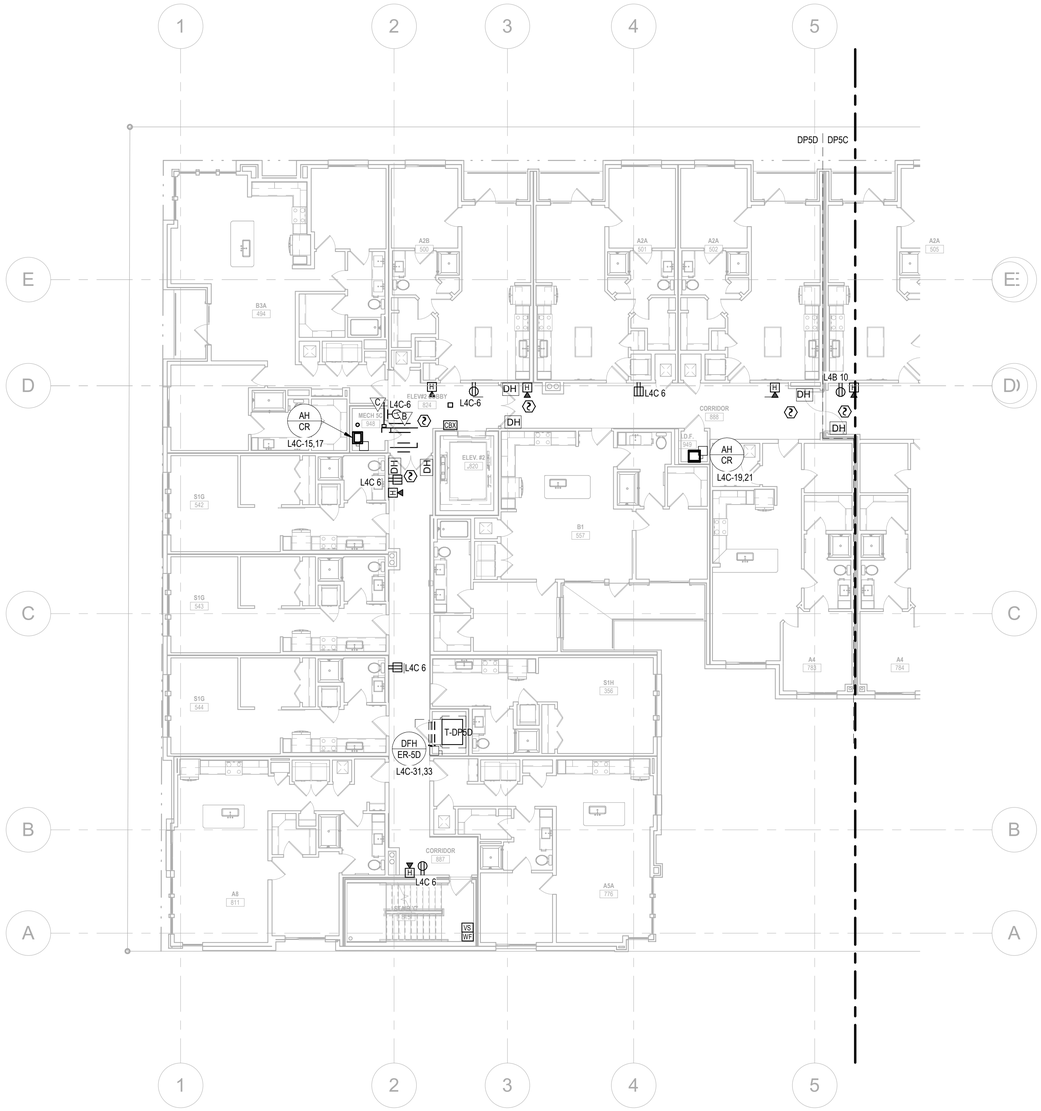
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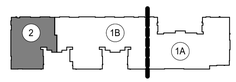
FLOOR PLAN NOTES - POWER

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1 ENLARGED POWER PLAN - BUILDING #2 - LEVEL 5

Scale: 3/32" = 1'-0"



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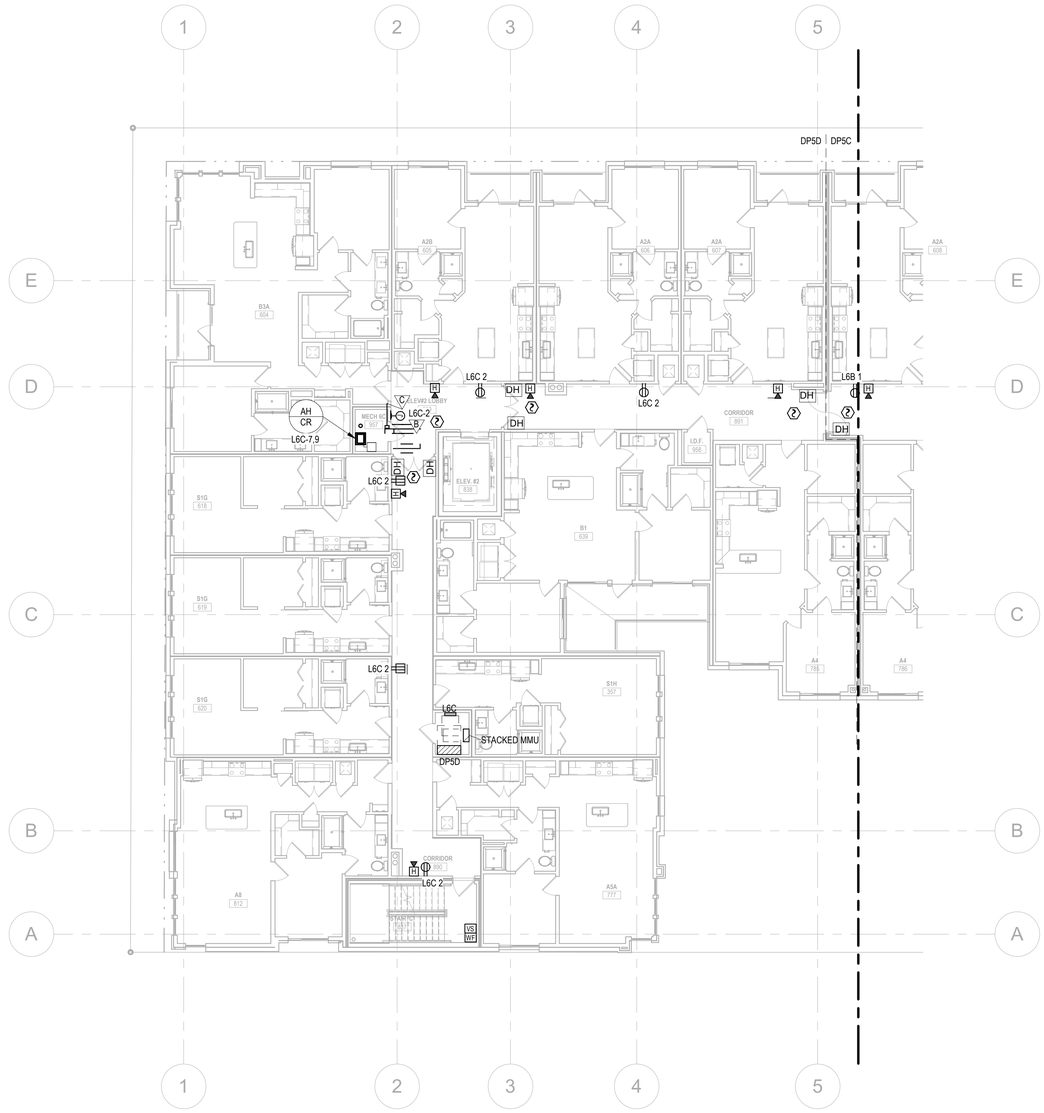
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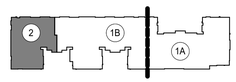
FLOOR PLAN NOTES - POWER

1. REFER TO FIRST ELECTRICAL SHEET, 'ELECTRICAL GENERAL NOTES', FOR INFORMATION ON WIRE SIZES, MEANS/METHODS, AND LENGTH OF CONDUIT RUNS VERSUS VOLTAGE DROP REQUIREMENTS.
2. REFER TO CONNECTION EQUIPMENT SCHEDULES FOR MECHANICAL AND PLUMBING EQUIPMENT DISCONNECT SIZES, BRANCH CIRCUIT INFORMATION, AND ASSOCIATED GENERAL NOTES.
3. PROVIDE AT LEAST (1) GFCI OUTLET/PROTECTION PER NEC210.8(E) AND NEC210.63 MINIMUM REQUIREMENTS (I.E. ONE GFCI RECEPTACLE WITHIN 25 FEET OF APPLICABLE EQUIPMENT). VERIFY EXACT LOCATIONS IN FIELD TO ENSURE COMPLIANCE IS MAINTAINED.



1 ENLARGED POWER PLAN - BUILDING #2 - LEVEL 6

Scale: 3/32" = 1'-0"



KEYMAP N

Jordan & Skala Engineers
555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED
MARK W. BIGLER
41442
PROFESSIONAL ENGINEER
10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/29/2024	DESIGN DEVELOPMENT PACKAGE
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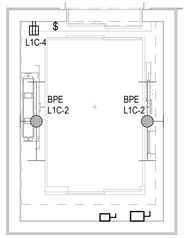
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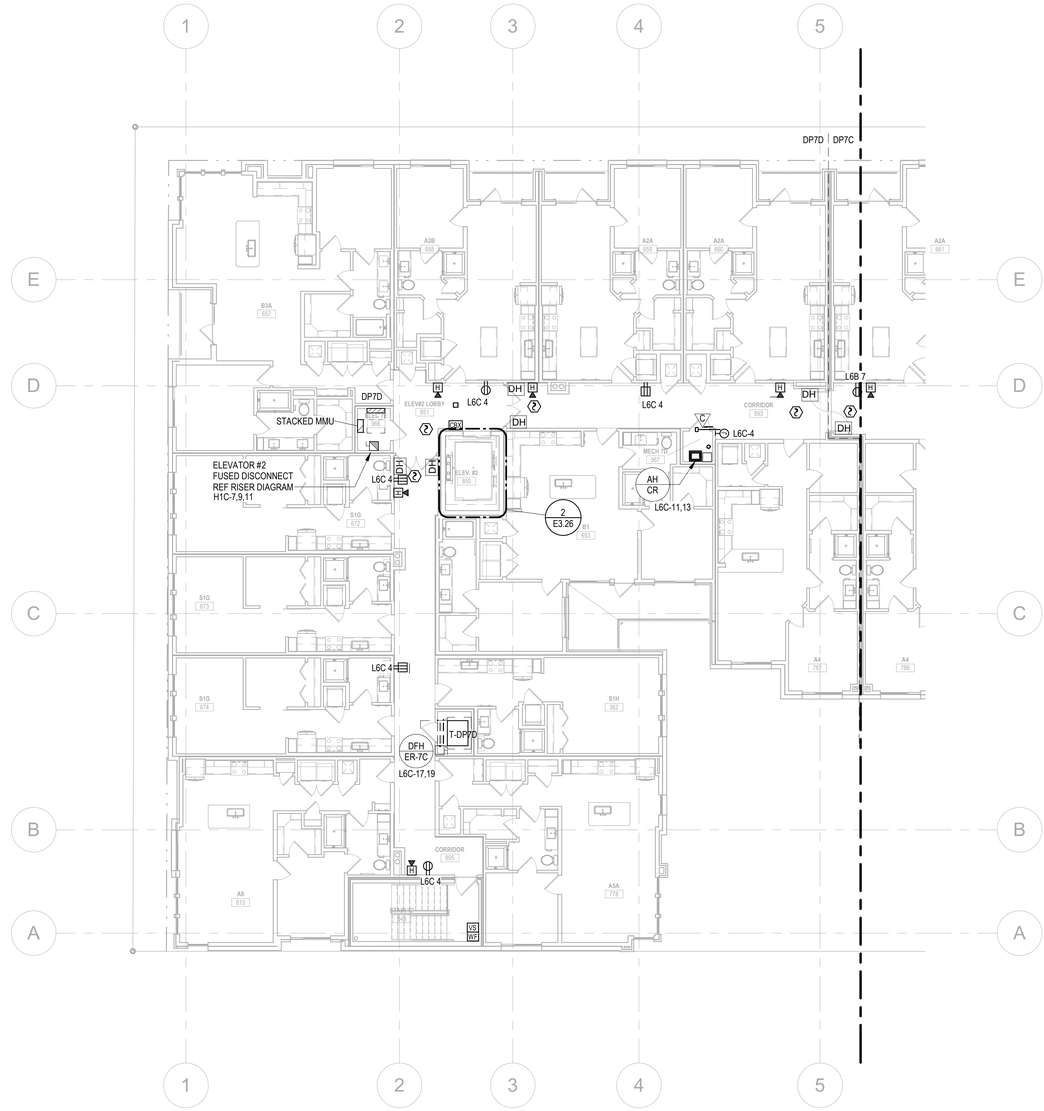
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2 ELEVEVATOR 2 LVL 7

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

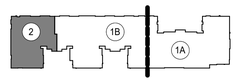


1 ENLARGED POWER PLAN - BUILDING #2 - LEVEL 7

Scale: 3/32" = 1'-0"

FLOOR PLAN NOTES - POWER

1. REFER TO FIRST ELECTRICAL SHEET, 'ELECTRICAL GENERAL NOTES', FOR INFORMATION ON WIRE SIZES, MEANS/METHODS, AND LENGTH OF CONDUIT RUNS VERSUS VOLTAGE DROP REQUIREMENTS.
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41442
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10/18/24

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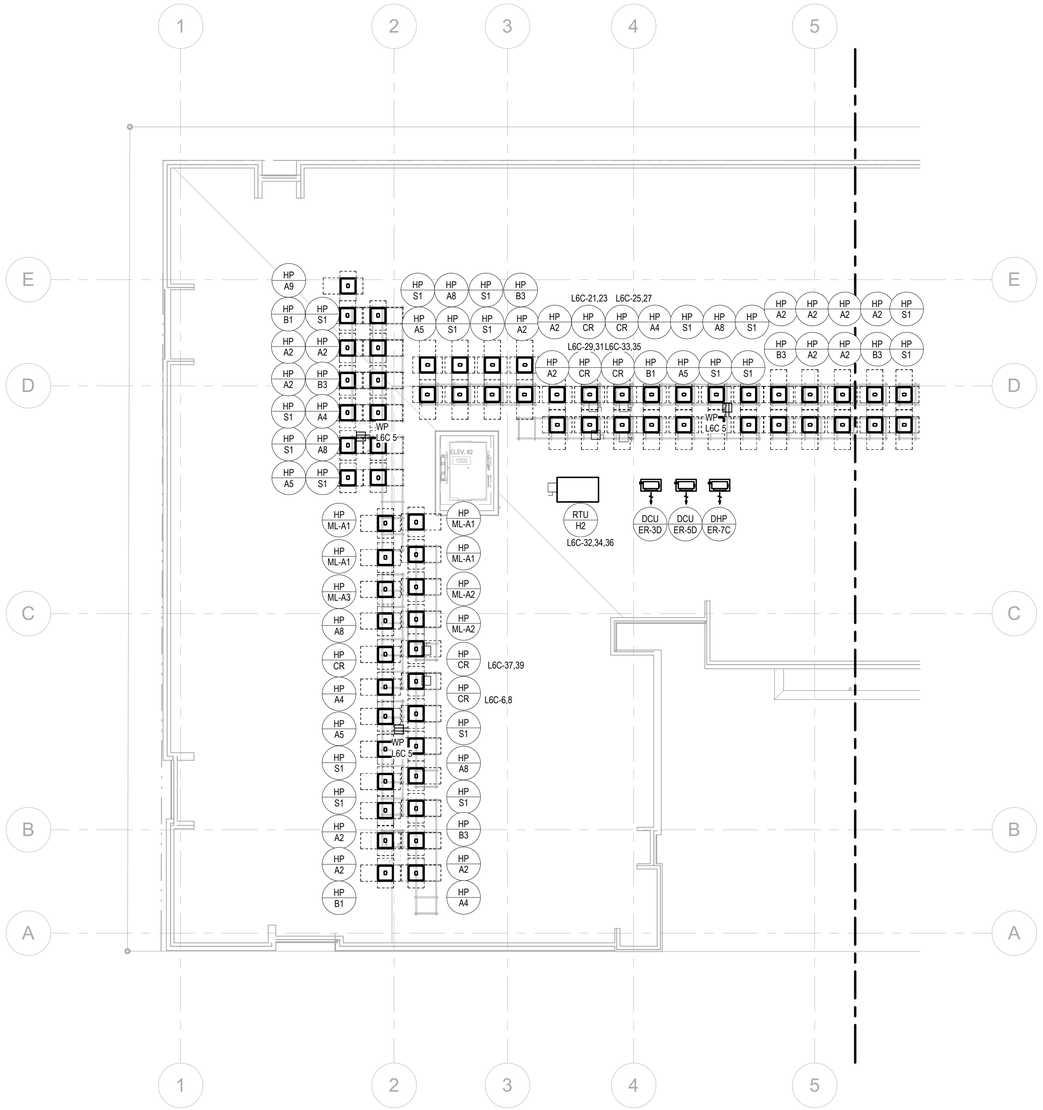
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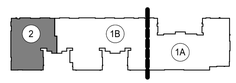
ROOF PLAN NOTES - POWER

1. REFER TO FIRST ELECTRICAL SHEET, 'ELECTRICAL GENERAL NOTES', FOR INFORMATION ON WIRE SIZES, MEANS/METHODS, AND LENGTH OF CONDUIT RUNS VERSUS VOLTAGE DROP REQUIREMENTS.
2. REFER TO CONNECTION EQUIPMENT SCHEDULES FOR MECHANICAL AND PLUMBING EQUIPMENT DISCONNECT SIZES, BRANCH CIRCUIT INFORMATION, AND ASSOCIATED GENERAL NOTES.
3. ALL ARCHITECTURALLY INDICATED MEETING ROOMS SHALL ADHERE TO NEC 210.65. CONTRACTOR SHALL NOTIFY ELECTRICAL ENGINEER IF ANY ROOMS ARE NOT MEETING THIS INTENT PRIOR TO FINAL INSTALLATION BASED ON LATEST ROOM NAMES.
4. MOUNT MECHANICAL EQUIPMENT DISCONNECTS WITH PROPER WORKING CLEARANCES PER NEC AND LOCAL JURISDICTION.
5. MOUNT GFCI WEATHERPROOF MAINTENANCE RECEPTACLES SUCH THAT ONE IS WITHIN 25' OF ALL MECHANICAL EQUIPMENT PER NEC. RECEPTACLES SHALL BE MOUNTED TO WALL, EQUIPMENT RACK OR SUPPORTED VIA RIGID CONDUIT.
6. REFER TO FINAL DEFERRED SUBMITTAL FOR RADON MITIGATION FOR ADDITIONAL ROOFTOP EXHAUST FAN(S). POWER SHALL BE PULLED FROM NEAREST EXISTING ROOFTOP EXHAUST CIRCUITRY AS NECESSARY TO SERVE.



1 ENLARGED POWER PLAN - BUILDING #2 - ROOF

Scale: 3/32" = 1'-0"



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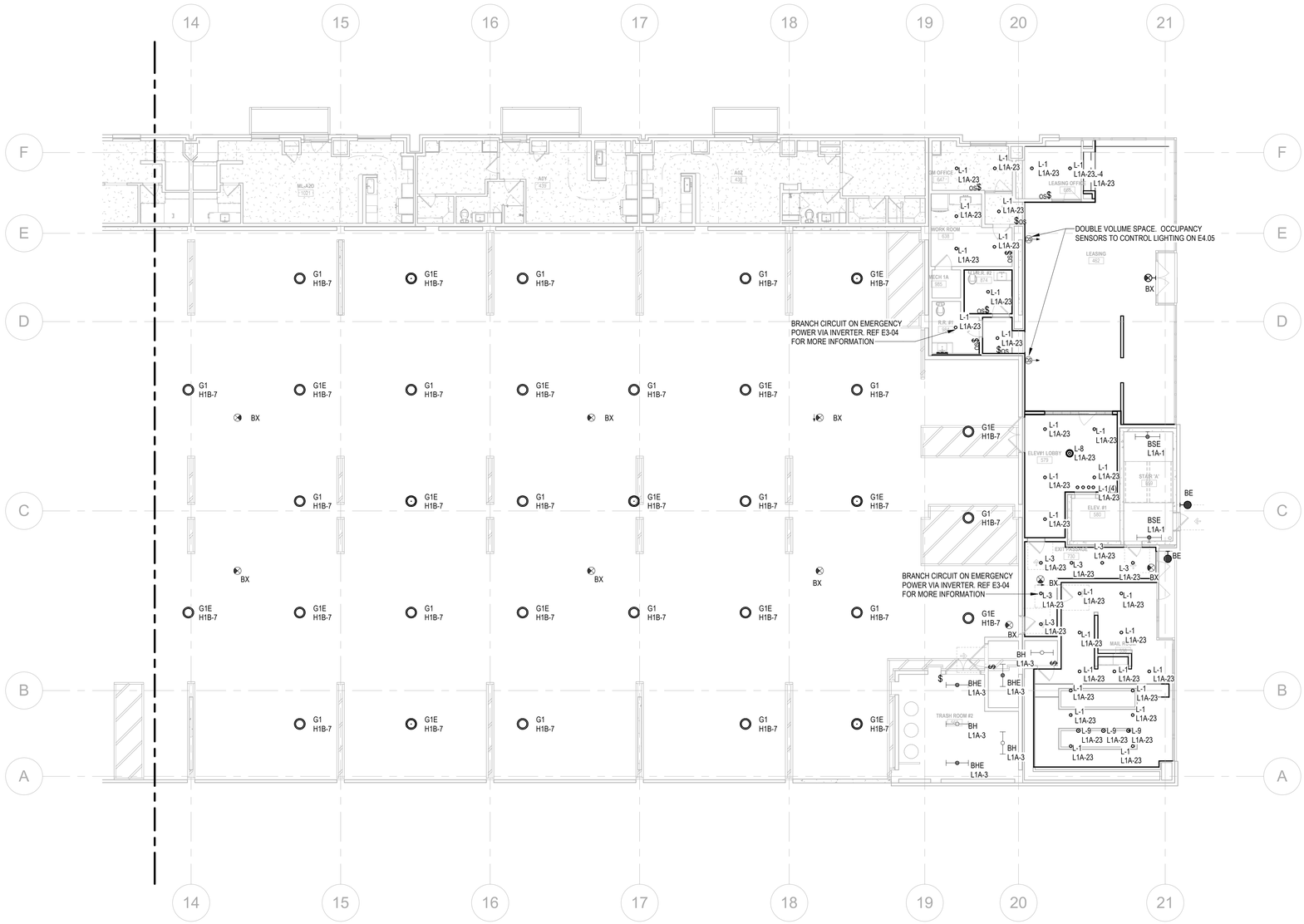
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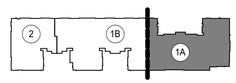
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FLOOR PLAN NOTES - LIGHTING

1. REFER TO FIRST ELECTRICAL SHEET, 'ELECTRICAL GENERAL NOTES', FOR INFORMATION ON WIRE SIZES, MEANS/METHODS, AND LENGTH OF CONDUIT RUNS VERSUS VOLTAGE DROP REQUIREMENTS.
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3. CONTRACTOR SHALL PROVIDE #10 WIRE FOR ALL CORRIDOR AND GARAGE LIGHTING, UNLESS NOTED OTHERWISE. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
4. CONNECT COMMON SPACES, LIGHTING CONTACTOR(S), CONTROLS TO NEAREST HOUSE PANEL. LOCATE EQUIPMENT IN NEAREST ELECTRICAL OR IDF ROOM WHILE MAINTAINING ALL REQUIRED CLEARANCES.
5. CONTRACTOR SHALL LOCATE AND AIM ALL OCCUPANCY AND DAYLIGHT SENSORS IN THE CORRECT QUANTITIES AS REQUIRED FOR COMPLETE (100%) COVERAGE OF THE CONTROLLED AREAS INDICATED ON PLANS, PER THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. CONTRACTOR SHALL COORDINATE ALL OF THESE REQUIREMENTS PRIOR TO INSTALLATION TO ENSURE PROPER COVERAGE AND PER JSE SPECIFICATIONS, NOTES.
6. REFERENCE ID PLANS FOR EXACT DIMENSIONS AND MOUNTING HEIGHTS OF ALL DECORATIVE LIGHTING.
7. FIXTURES IN GARAGE SHALL BE MOUNTED SUCH THAT THE LUMINAIRE IS BELOW OR AT EQUAL HEIGHT WITH STRUCTURAL BEAMS IN GARAGE.





KEYMAP

1 ENLARGED LIGHTING PLAN - BUILDING #1A - LEVEL 1

Scale: 3/32" = 1'-0"

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p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

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PROFESSIONAL ENGINEER
10/18/24

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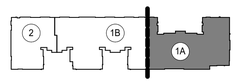
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7. FIXTURES IN GARAGE SHALL BE MOUNTED SUCH THAT THE LUMINAIRE IS BELOW OR AT EQUAL HEIGHT WITH STRUCTURAL BEAMS IN GARAGE.



1 ENLARGED LIGHTING PLAN - BUILDING #1A - LEVEL 2

Scale: 3/32" = 1'-0"



KEYMAP

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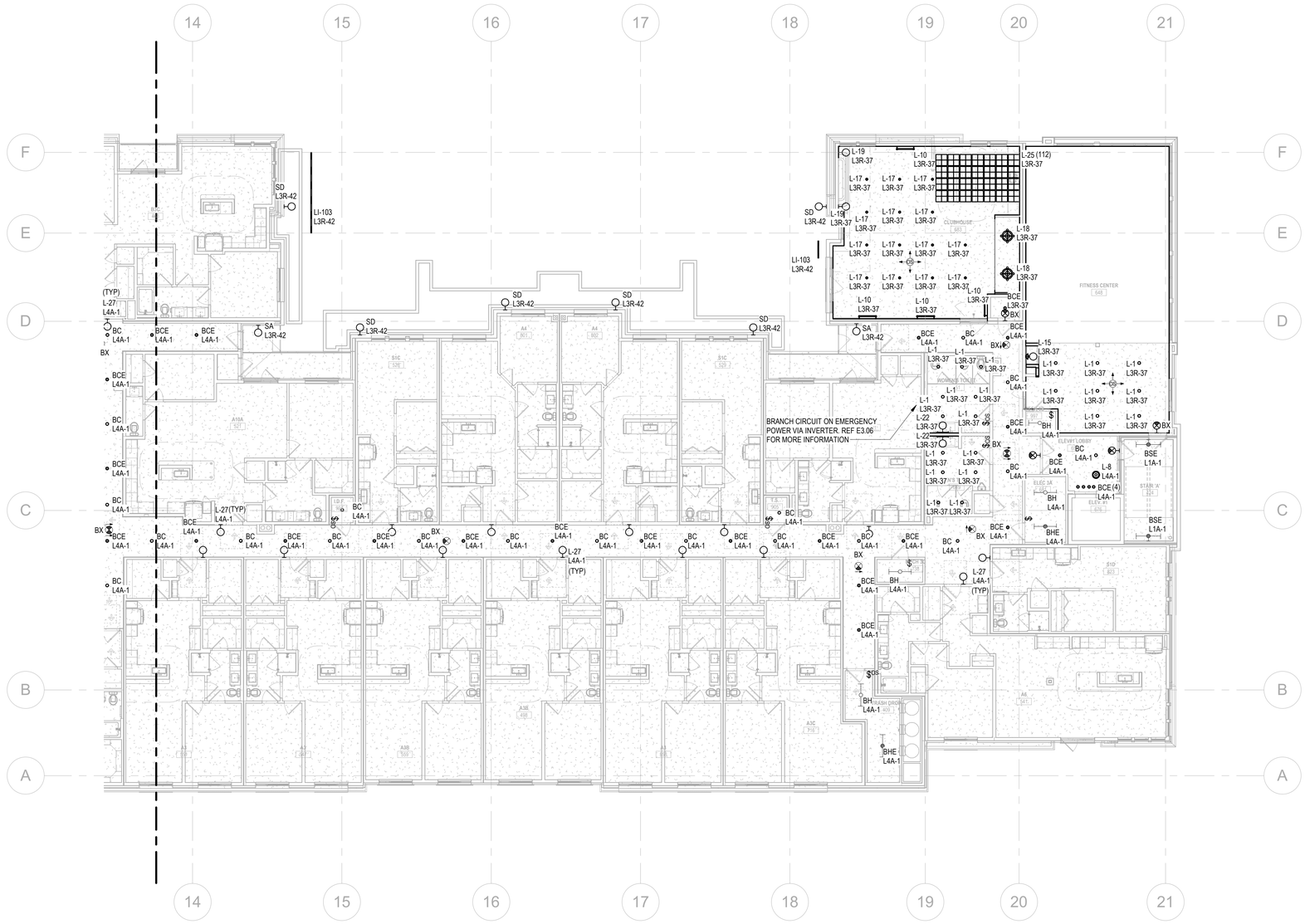
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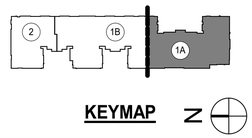
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6. REFERENCE ID PLANS FOR EXACT DIMENSIONS AND MOUNTING HEIGHTS OF ALL DECORATIVE LIGHTING.



1 ENLARGED LIGHTING PLAN - BUILDING #1A - LEVEL 3

Scale: 3/32" = 1'-0"



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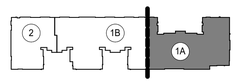
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FLOOR PLAN NOTES - LIGHTING

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6. REFERENCE ID PLANS FOR EXACT DIMENSIONS AND MOUNTING HEIGHTS OF ALL DECORATIVE LIGHTING.





KEYMAP N

1 ENLARGED LIGHTING PLAN - BUILDING #1A - LEVEL 4

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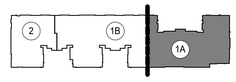
FLOOR PLAN NOTES - LIGHTING

1. REFER TO FIRST ELECTRICAL SHEET, 'ELECTRICAL GENERAL NOTES', FOR INFORMATION ON WIRE SIZES, MEANS/METHODS, AND LENGTH OF CONDUIT RUNS VERSUS VOLTAGE DROP REQUIREMENTS.
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1 ENLARGED LIGHTING PLAN - BUILDING #1A - LEVEL 5

Scale: 3/32" = 1'-0"



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PROFESSIONAL ENGINEER
10/18/24

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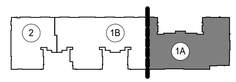
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1 ENLARGED LIGHTING PLAN - BUILDING #1A - LEVEL 6

Scale: 3/32" = 1'-0"



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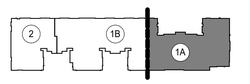
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KEYMAP N

1 ENLARGED LIGHTING PLAN - BUILDING #1A - LEVEL 7

Scale: 3/32" = 1'-0"

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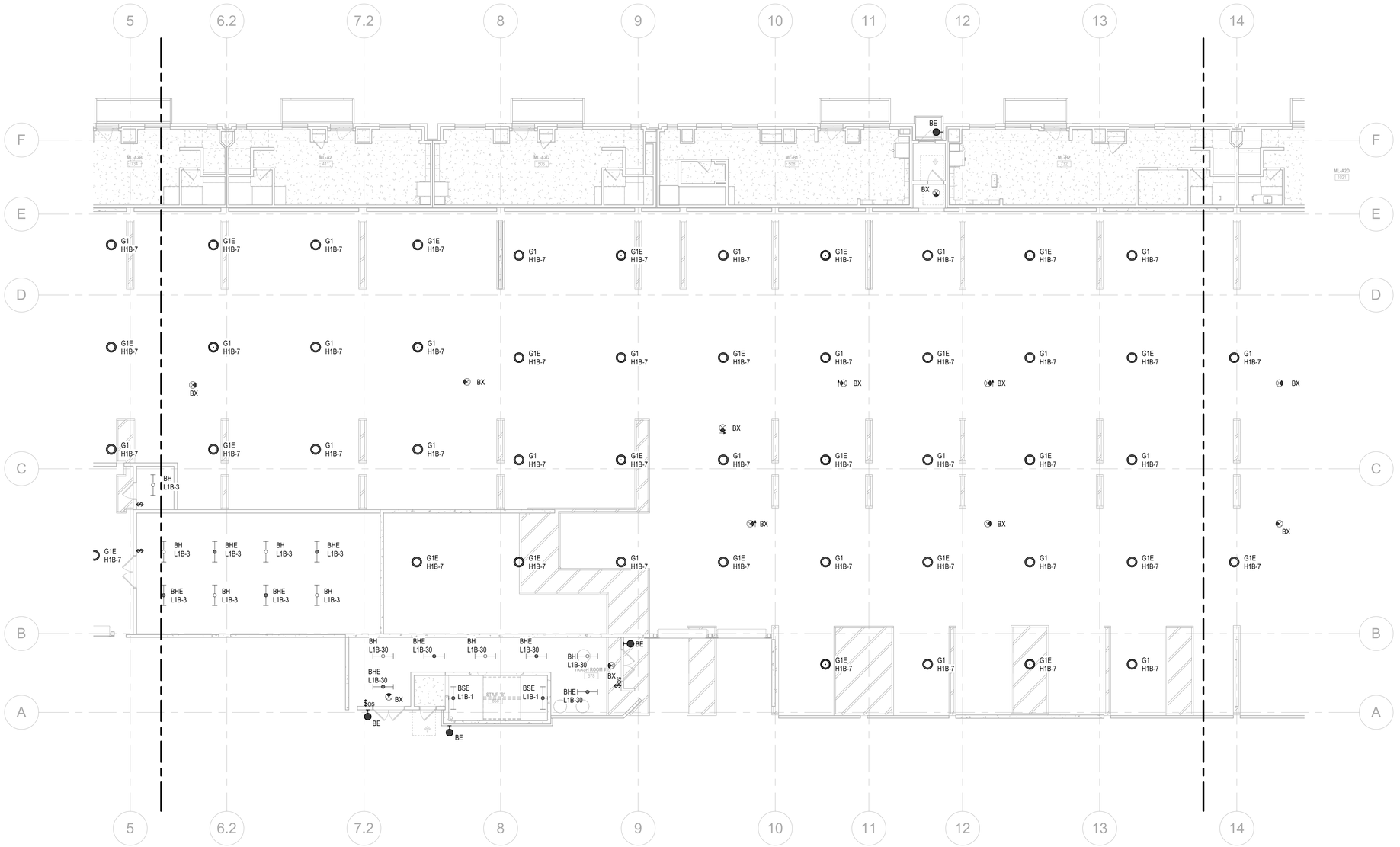
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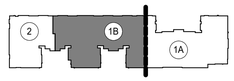
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7. FIXTURES IN GARAGE SHALL BE MOUNTED SUCH THAT THE LUMINAIRE IS BELOW OR AT EQUAL HEIGHT WITH STRUCTURAL BEAMS IN GARAGE.



1 ENLARGED LIGHTING PLAN - BUILDING #1B - LEVEL 1

Scale: 3/32" = 1'-0"



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Project Number: 23080076 Drawn By: DD Checked By: SL

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41442
PROFESSIONAL ENGINEER
10/18/24

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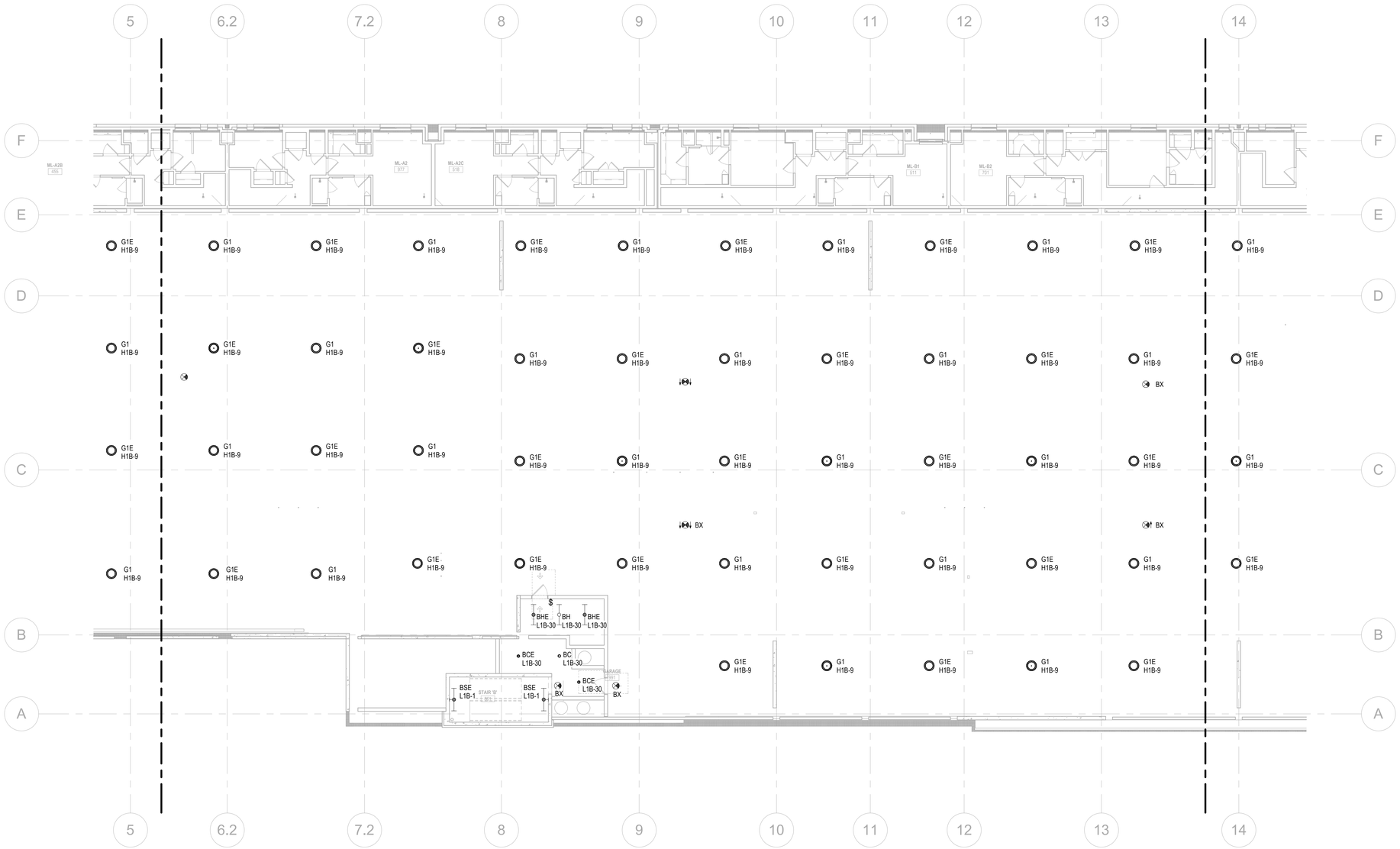
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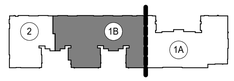
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1 ENLARGED LIGHTING PLAN - BUILDING #1B - LEVEL 2

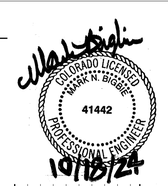
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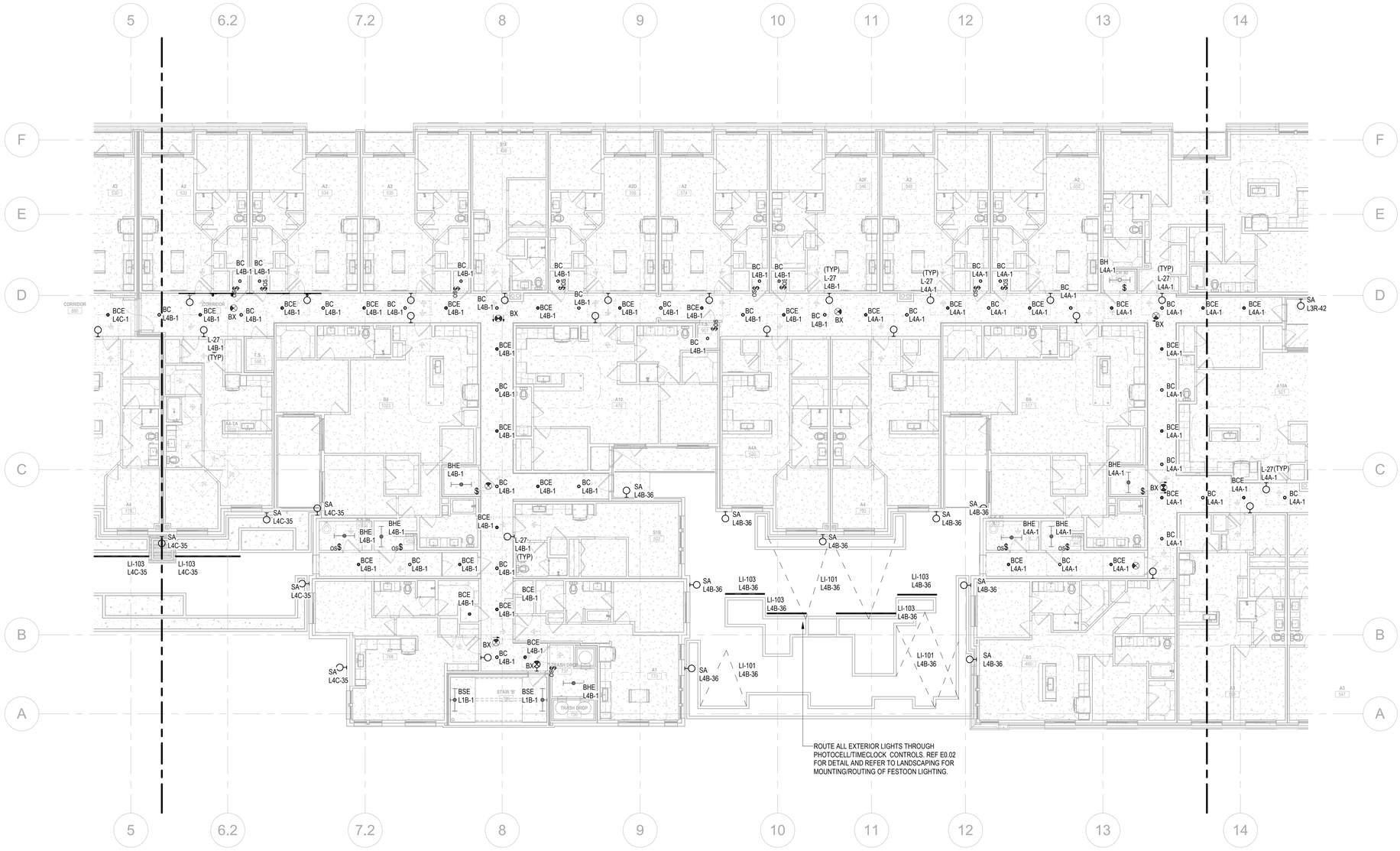
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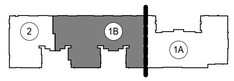
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1 ENLARGED LIGHTING PLAN - BUILDING #1B - LEVEL 3

Scale: 3/32" = 1'-0"



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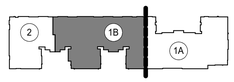
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1 ENLARGED LIGHTING PLAN - BUILDING #1B - LEVEL 4

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PROFESSIONAL ENGINEER
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ENLARGED CEILING PLAN - BLDG. #1B - LVL. 4

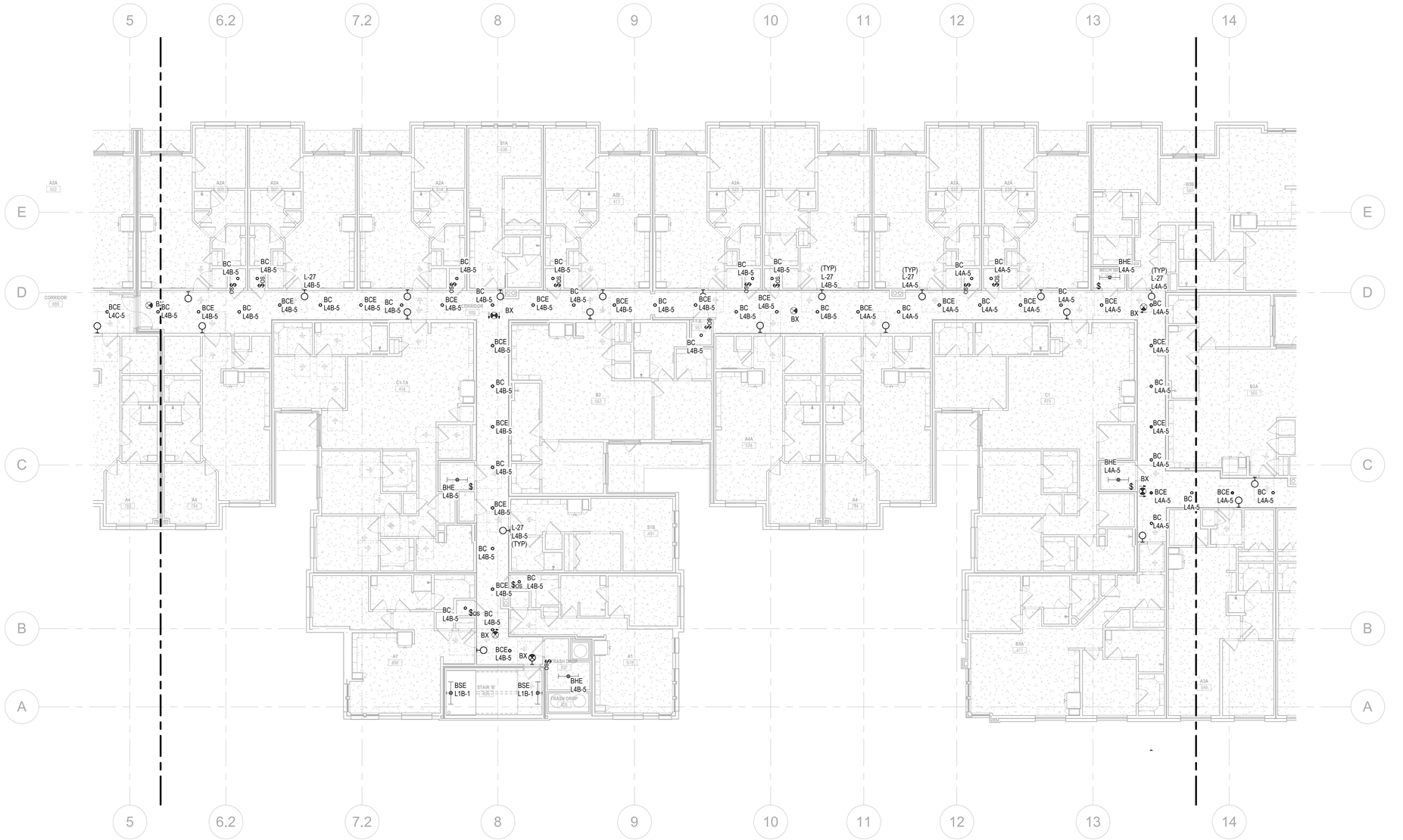
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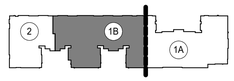
FLOOR PLAN NOTES - LIGHTING

1. REFER TO FIRST ELECTRICAL SHEET, 'ELECTRICAL GENERAL NOTES', FOR INFORMATION ON WIRE SIZES, MEANS/METHODS, AND LENGTH OF CONDUIT RUNS VERSUS VOLTAGE DROP REQUIREMENTS.
2. ALL EMERGENCY/EXIT LIGHTS SHALL BE CONNECTED TO THE UNSWITCHED PHASE CONDUCTOR OF THE CIRCUIT SERVING THE RESPECTIVE AREA. COORDINATE UL924 DEVICES QUANTITY AND LOCATIONS FOR EMERGENCY FIXTURES WITH CALLED OUT CONTROLS. REFER TO FRONT END LIGHTING CONTROL MATRIX AND NOTES FOR MORE INFORMATION.
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6. REFERENCE ID PLANS FOR EXACT DIMENSIONS AND MOUNTING HEIGHTS OF ALL DECORATIVE LIGHTING.



1 ENLARGED LIGHTING PLAN - BUILDING #1B - LEVEL 5

Scale: 3/32" = 1'-0"



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Jordan & Skala Engineers
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p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

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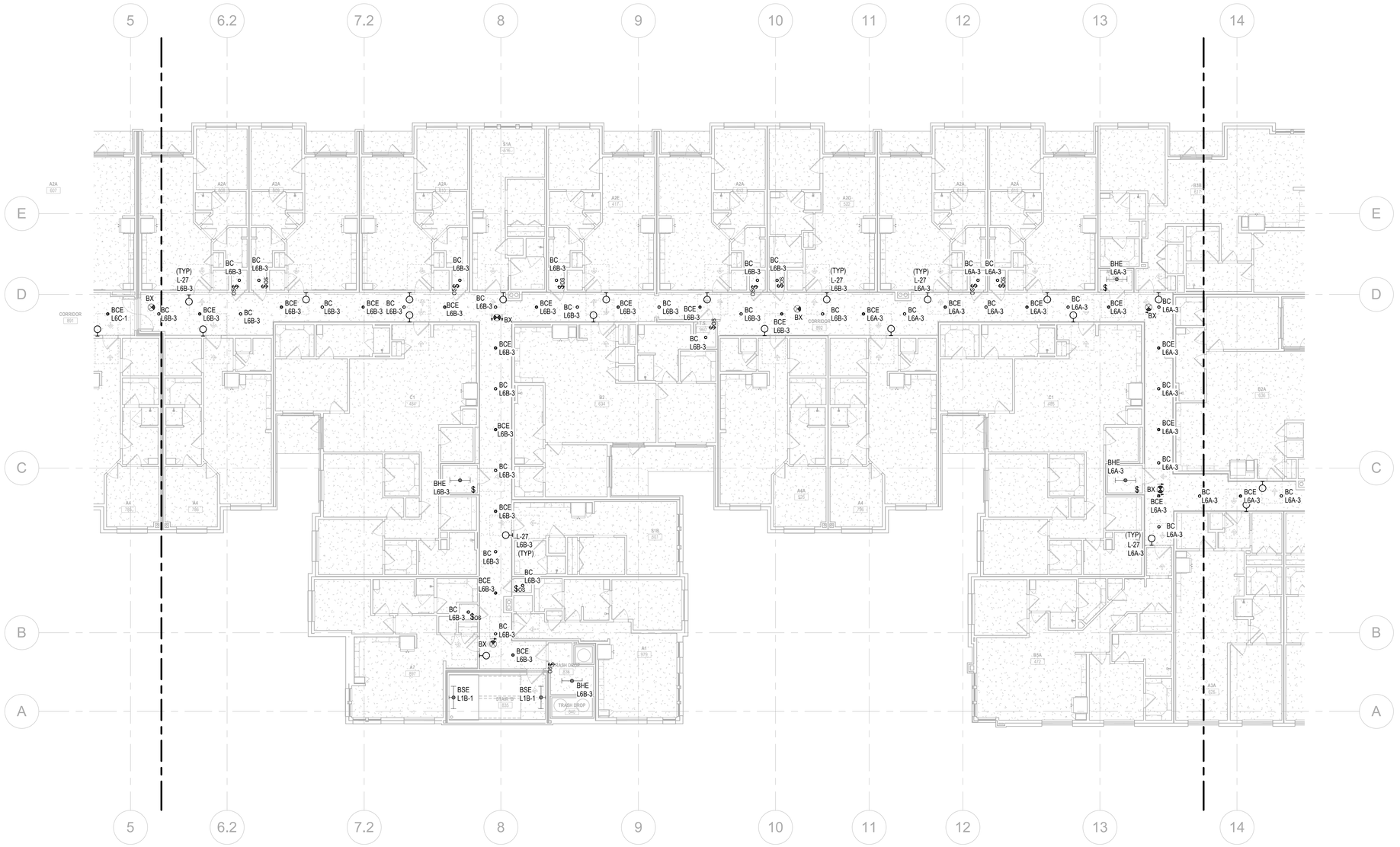
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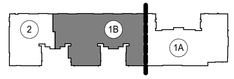
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1 ENLARGED LIGHTING PLAN - BUILDING #1B - LEVEL 6

Scale: 3/32" = 1'-0"



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41442
PROFESSIONAL ENGINEER
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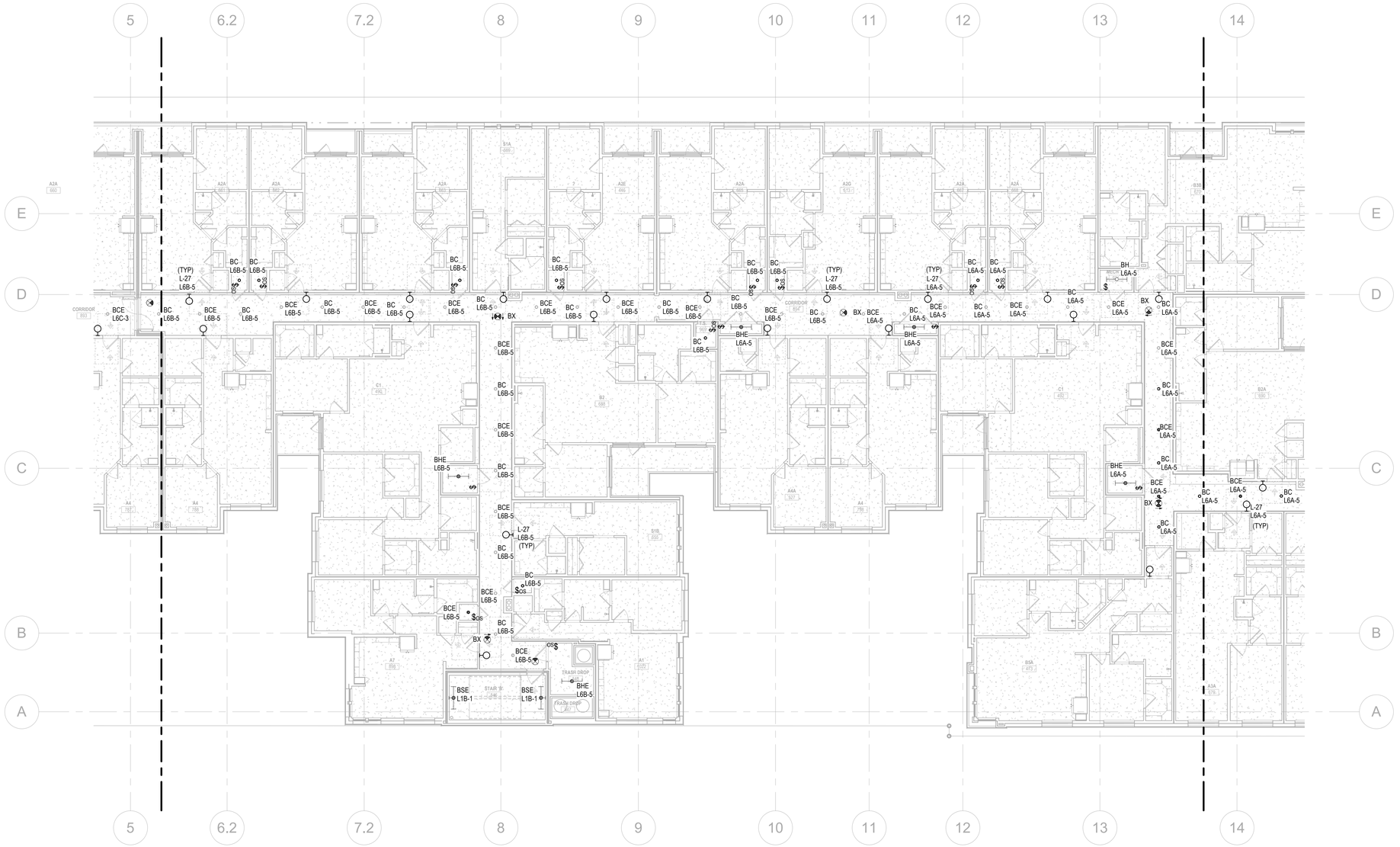
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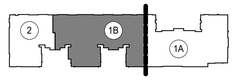
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1 ENLARGED LIGHTING PLAN - BUILDING #1B - LEVEL 7

Scale: 3/32" = 1'-0"



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41442
PROFESSIONAL ENGINEER
10/18/24

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JOB NO.: 22035

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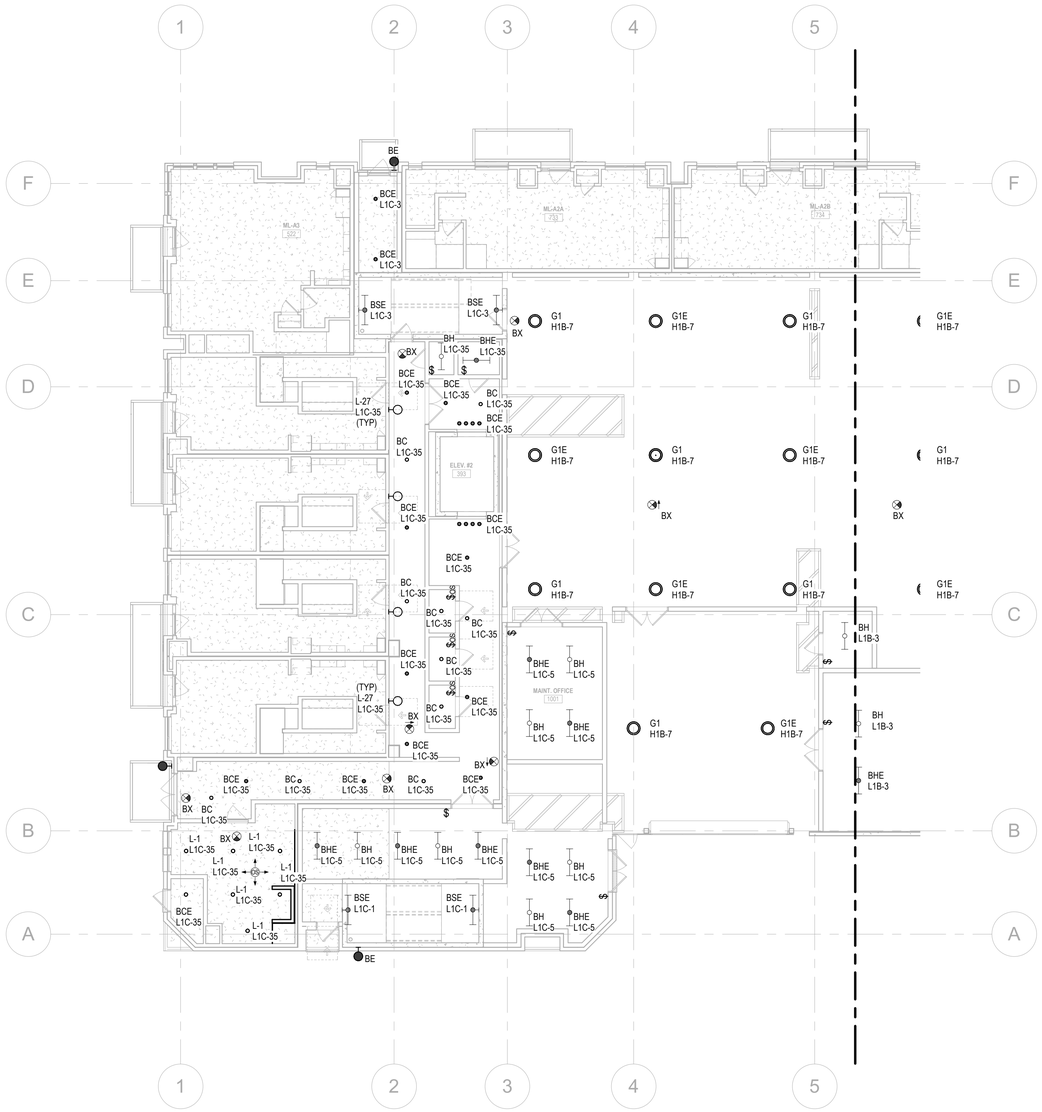
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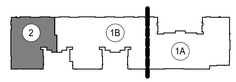
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7. FIXTURES IN GARAGE SHALL BE MOUNTED SUCH THAT THE LUMINAIRE IS BELOW OR AT EQUAL HEIGHT WITH STRUCTURAL BEAMS IN GARAGE.



1 ENLARGED LIGHTING PLAN - BUILDING #2 - LEVEL 1

Scale: 3/32" = 1'-0"



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555 17th Street, Suite 700 • Denver, CO 80202
p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED MARK W. BIGBEE 41442 PROFESSIONAL ENGINEER 10/18/24

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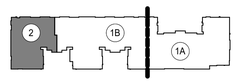
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1 ENLARGED LIGHTING PLAN - BUILDING #2 - LEVEL 2

Scale: 3/32" = 1'-0"



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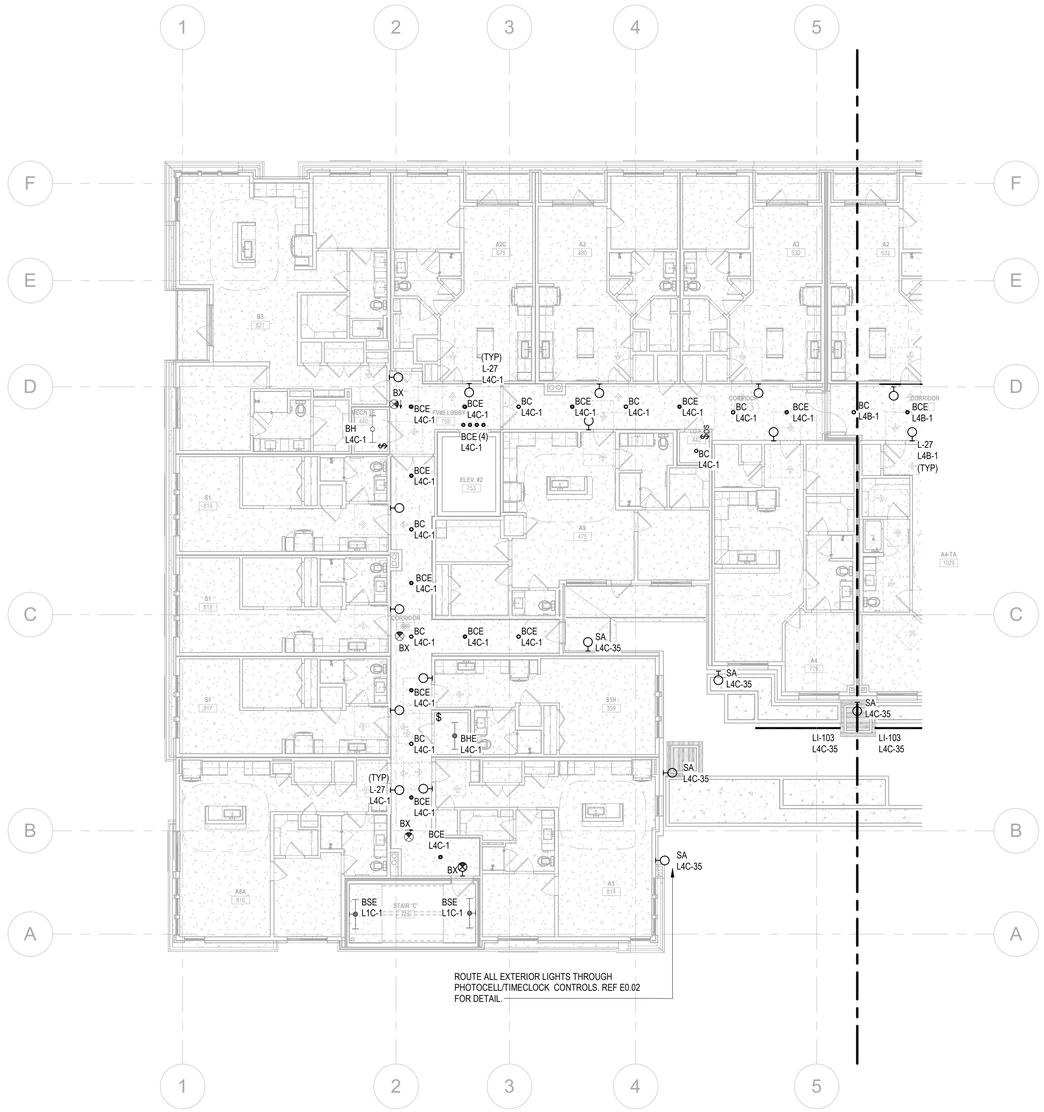
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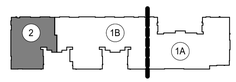
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1 ENLARGED LIGHTING PLAN - BUILDING #2 - LEVEL 3

Scale: 3/32" = 1'-0"



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Project Number: 23080076 Drawn By: DD Checked By: SL

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MARK W. MEEKS
41442
PROFESSIONAL ENGINEER
10/18/24

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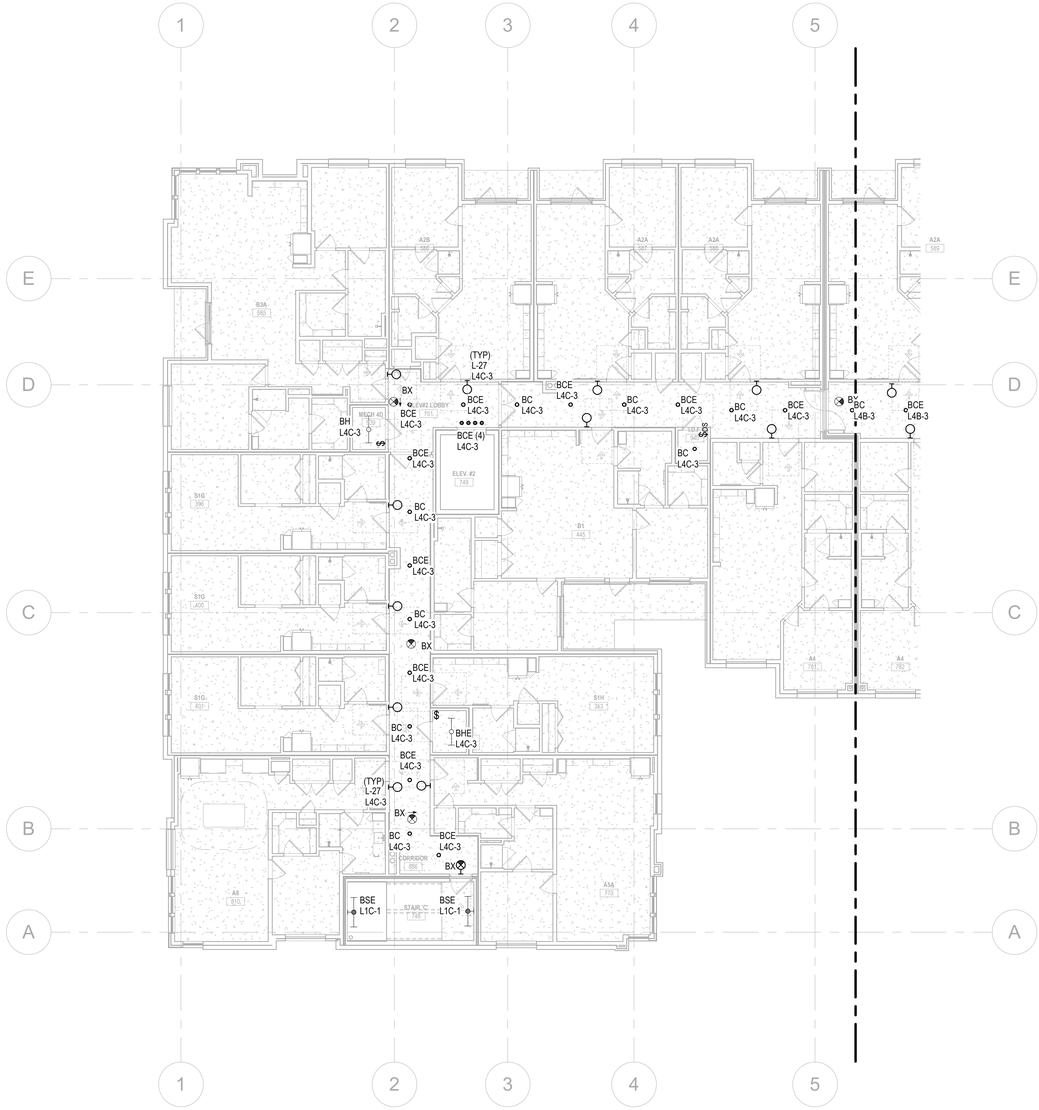
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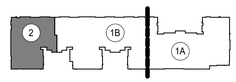
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4. CONNECT COMMON SPACES, LIGHTING CONTACTOR(S), CONTROLS TO NEAREST HOUSE PANEL. LOCATE EQUIPMENT IN NEAREST ELECTRICAL OR IDF ROOM WHILE MAINTAINING ALL REQUIRED CLEARANCES.
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6. REFERENCE ID PLANS FOR EXACT DIMENSIONS AND MOUNTING HEIGHTS OF ALL DECORATIVE LIGHTING.



1 ENLARGED LIGHTING PLAN - BUILDING #2 - LEVEL 4

Scale: 3/32" = 1'-0"



KEYMAP N

Jordan & Skala Engineers
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p. 303.586.2375

Project Number: 23080076 Drawn By: DD Checked By: SL

COLORADO LICENSED MARK W. BIGLIN 41442 PROFESSIONAL ENGINEER 10/18/24

REVISION NO.	REVISION DATE	REVISION DESCRIPTION
	04/29/2024	DESIGN DEVELOPMENT PACKAGE
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290 E. 17th Ave, Denver, CO 80203
A Development of
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JOB NO.: 22035

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ENLARGED CEILING PLAN - BLDG. #2 - LVL. 4

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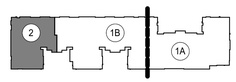
FLOOR PLAN NOTES - LIGHTING

1. REFER TO FIRST ELECTRICAL SHEET, 'ELECTRICAL GENERAL NOTES', FOR INFORMATION ON WIRE SIZES, MEANS/METHODS, AND LENGTH OF CONDUIT RUNS VERSUS VOLTAGE DROP REQUIREMENTS.
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1 ENLARGED LIGHTING PLAN - BUILDING #2 - LEVEL 5

Scale: 3/32" = 1'-0"



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Project Number: 23080076 Drawn By: DD Checked By: SL

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MARK W. MEEKS
41442
PROFESSIONAL ENGINEER
10/18/24

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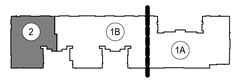
FLOOR PLAN NOTES - LIGHTING

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1 ENLARGED LIGHTING PLAN - BUILDING #2 - LEVEL 6

Scale: 3/32" = 1'-0"



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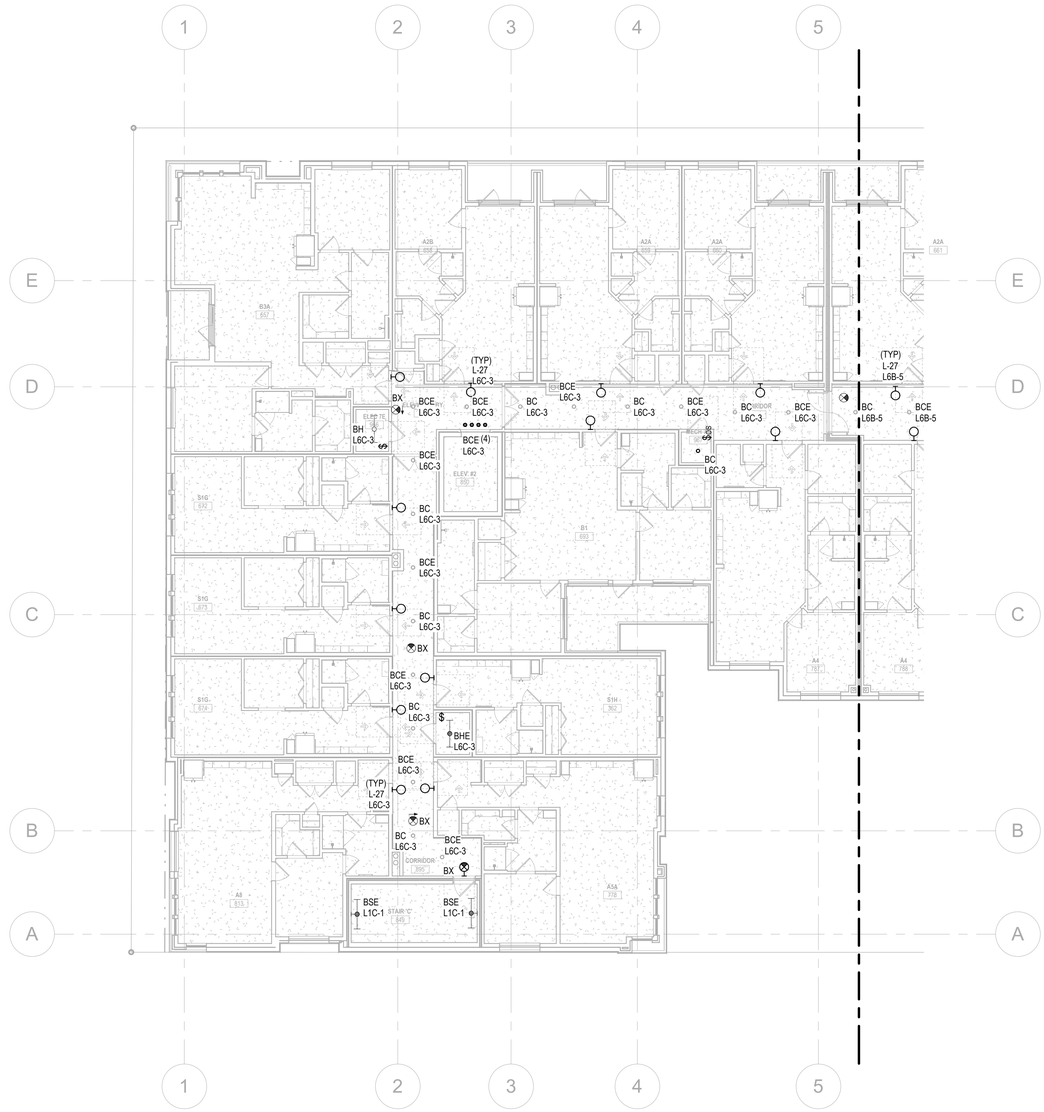
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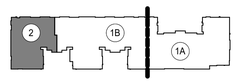
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1 ENLARGED LIGHTING PLAN - BUILDING #2 - LEVEL 7

Scale: 3/32" = 1'-0"



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