

#### REQUIREMENTS. REFER TO HILTI ICC#ESR-1917 PRE-APPROVAL. DUCT HANGERS AND SUPPORTS SHALL COMPLY WITH PRE-APPROVED B-LINE "SEISMIC RESTRAINT SYSTEM"

# **RECTANGULAR DUCT SUPPORT**

SCALE: NONE

3

SCALE: NONE

4

HEIGHT.

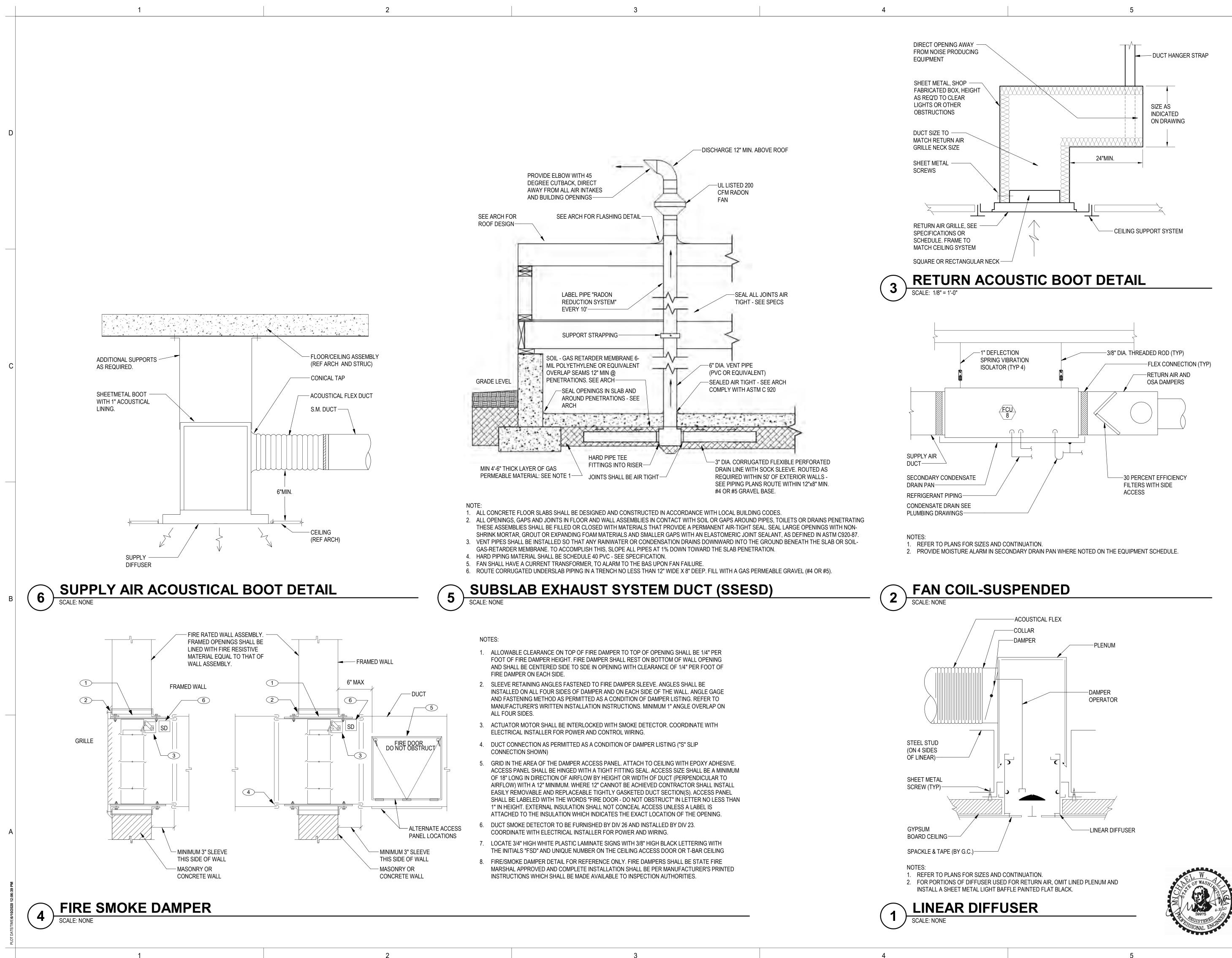
		GGGLOg 1301 First Avenue, Suite 301 Seattle, WA 98101 http://www.gglo.com
UCT DROP I NECK SIZE E (TYP) VD VD VD VD VD VD VD VD VD VD VD VD VD	D	A C A FUTURE PHASE
GREE T TAP MIN 36" BEFORE AND AFTER ELBOW IS DEGREE TYP 30 DEGREE MAX PROVIDE REDUCER UPSTREAM OF BRANCH INLET CONICAL OR LO-LOSS 45 DEGREE FITTING	C	CONTRACTOR CONTRACTOR OF CONTR
SQUARE H TURNING WABLE WHERE TIES ARE LESS M. DE DUCT LINER AND/OR EXTERNAL DUCT INSULATION AS NOTED ON PLANS OR IN SPECIFICATIONS. DE HANGERS AND SEISMIC BRACING PER SMACNA AND BUILDING CODE. TE MANUAL BALANCING DAMPERS IMMEDIATELY DOWNSTREAM OF EACH DUCT TAP. AIN MINIMUM 36" CLEARANCE BETWEEN LEADING OR TRAILING ELBOW JOINT AND DUCT TAP FITTINGS. NG VANES REQUIRED ON RECTANGULAR DUCT SYSTEM ELBOWS. SINGLE THICKNESS VANES UP TO 25" T AND DOUBLE THICKNESS VANES IN DUCTS GREATER THAN 25" HEIGHT. RADIUSED ELBOWS MAY BE AS AN ALTERNATE. RNING VANES REQUIRED ON DUCT SIZES LESS THAN 180 SQ. IN. IF DUCT VELOCITY IS LESS THAN 1500 <b>URNEXHAUST DUCTS FITTINGS</b> . NE		PROJECT ADDRESS: BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET EVERETT, WA 98201 OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVE EVERETT, WA 98201
SQUARE TO ROUND TRANSITION TRANSITION VD UND NECK FFUSER YP) T, 45 DEGREE H, LO-LOSS H, BOOT TAP OR	В	MARK DATE DESCRIPTION REVISIONS
EDUCER TO MATCH FFUSER NECK SIZE IF RANCH DUCT IS OVERSIZED. DCATE AT CONNECTION TO FFUSER. MPER WHERE SHOWN. DO VAV SYSTEMS	BMITTAL / 80% HUD SUBMITTAL	C       06/08/2020       BUILDING PERMIT SUBMITTAL /         80% HUD SUBMITTAL         B       04/10/2020       DESIGN DEVELOPMENT         A       01/07/2020       SCHEMATIC DESIGN         MARK       DATE       DESCRIPTION         ISSUE INFORMATION       2017033         PROJECT NO.:       2017033         PRINCIPAL IN CHARGE:       Jon Hall         PROJECT MANAGER:       Scott Schreffler         OWNER APPROVAL:
ES: PROVIDE DUCT LINER AND/OR EXTERNAL DUCT INSULATION AS NOTED ON PLANS OR IN SPECIFICATIONS. PROVIDE HANGERS AND SEISMIC BRACING PER SMACNA AND BUILDING CODE REQUIREMENTS. LOCATE MANUAL BALANCING DAMPERS IMMEDIATELY DOWNSTREAM OF EACH DUCT TAP. CUSHION HEADS OR BULLHEAD TEES ARE NOT ALLOWED. MAINTAIN MINIMUM 36" CLEARANCE BETWEEN LEADING OR TRAILING ELBOW JOINT AND DUCT TAP FITTINGS. RADIUSED ELBOWS OR TURNING VANES REQUIRED ON RECTANGULAR DUCT SYSTEM ELBOWS. SINGLE THICKNESS VANES UP TO 25" HEIGHT AND DOUBLE THICKNESS VANES IN DUCTS GREATER THAN 25"	C DERMIT SUBM	SHEET TITLE <b>MECHANICAL DETAILS</b> SHEET NO.

**SUPPLY DUCT FITTINGS** 



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**M-901** 



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	1601 Fifth Ave., Suite 2210 Seattle, WA 98101 www.glumac.com
	T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169
	PROJECT: EHA BAKER HEIGHTS
С	<b>EVERETT</b>
	HOUSING AUTHORITY
	PROJECT ADDRESS:
	BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET
	BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET EVERETT, WA 98201
	OWNER: EVERETT HOUSING AUTHORITY
	3107 COLBY AVE EVERETT, WA 98201
В	MARK DATE DESCRIPTION REVISIONS
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		Γ			El	ECTRICAL LEGEND
	LIGHTING	SM	VITCHING CONTROLS			POWER DEVICES
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMB		DESCRIPTION
	RECESSED 2X4 LUMINAIRE	Sª	SINGLE POLE SWITCH (SUPERSCRIPT DENOTES SIMILARLY	Іюд		SIMPLEX RECEPTACLE - WALL, CEILING, ON ALT.
	SURFACE MOUNTED 2X4 LUMINAIRE	0	MARKED LUMINAIRES CONTROLLED TOGETHER)			DUPLEX RECEPTACLE - WALL, CEILING, ON ALT.
	RECESSED 1X4 LUMINAIRE	S <sub>2</sub>	TWO POLE SWITCH			DOUBLE DUPLEX RECEPTACLE - WALL, CLG, ON ALT.
		S <sub>3</sub>	THREE WAY SWITCH			
	SURFACE MOUNTED 1X4 LUMINAIRE	S <sub>4</sub>	FOUR WAY SWITCH			SPECIAL PURPOSE RECEPTACLE -WALL, CEILING ON ALT. F NEMA CONFIGURATION AS NOTED
	RECESSED 2X2 LUMINAIRE	Sκ	KEY OPERATED SWITCH			RECEPTACLE TYPE SHOWN -WALL -ABOVE COUNTER
0	SURFACE MOUNTED 2X2 LUMINAIRE		DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT	AB		BACKSPLASH. SEE ARCHITECTURAL DRAWINGS.
	SHADING OF ANY LUMINAIRE INDICATES CONNECTION TO ALTERNATE POWER SOURCE (EMERGENCY, UPS, STANDBY, ETC.)	D	SHOWN THEN EQUAL TO LOAD.	"ON /	ALT."	SHADED RECEPTACLES NOTED "ON ALT." ABOVE ARE CONNECTED TO ALTERNATE POWER SOURCE (EMERG., ST
	PER CIRCUITING INDICATED	D	DIMMER SWITCH UNDER SEPARATE COVERPLATE			UPS, ETC.) PER CIRCUITING INDICATED
	SUSPENDED LINEAR LUMINAIRE (SIZE VARIES)	S <sub>P</sub>	SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON").	-		DUPLEX RECEPTACLE - WALL - HALF SWITCHED
	WALL MOUNTED LINEAR LUMINAIRE (SIZE VARIES)	S <sub>PL</sub>	SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF").	e e	<b>⊕</b> _	CONTROLLED DUPLEX / DOUBLE DUPLEX RECEPTACLE
Ø	SUSPENDED PENDANT LUMINAIRE (SIZE VARIES)	S <sub>TS</sub>	TIMER SWITCH	⇒ s	U	COMBINATION SWITCH/DUPLEX RECEPTACLE
	RECESSED DOWNLIGHT, CEILING MOUNTED		LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE	= GFI		DUPLEX RECEPTACLE - WALL - WITH INTEGRAL GROUND F
0	SURFACE DOWNLIGHT, CEILING MOUNTED	\$ <sup>5A</sup>	LETTER SUPERSCRIPT INDICATES CONNECTION TO LOW VOLTAGE RELAY CONTROLLING SIMILARLY MARKED LUMINAIRES.	GFI		CIRCUIT INTERRUPTER
				⊨ ⇒ <sub>WP</sub>		RECEPTACLE TYPE SHOWN W/ WEATHERPROOF COVER AI
		S <sub>WP</sub>	WEATHERPROOF SWITCH			INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER
WW DIRECTION-	> SURFACE WALLWASH	Sv	LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH. LOCATE ADJACENT TO ADJACENT TO LIGHT SWITCHES.	₩ +42"		RECEPTACLE TYPE SHOWN AT SPECIAL HEIGHT
	RECESSED LINEAR WALLWASH	Sτ	MOTOR-RATED THERMAL OVERLOAD SWITCH			WALL MOUNTED ELECTRICAL CONNECTION TO ELECTRIFIE FURNITURE. PROVIDE 8 WIRES (4 HOTS, 1 DEDICATED NEU
	SURFACE LINEAR WALLWASH			2		COMMON NEUTRAL, 1 IG) NEUTRALS TO BE #10 AWG. USE
	RECESSED WALL MOUNTED LUMINAIRE	S <sub>OR1</sub>	LIGHTING CONTROL OVERRIDE SWITCH. NUMBER = ZONE CONTROLLED		1	
	TRACK LIGHTING WITH HEADS AS INDICATED.	PC	PHOTOCELL			FLUSH FLOOR BOX DEVICE - DEVICE TYPE PER SYMBOLS A
	RECESSED CEILING ADJUSTABLE POINT SOURCE		EQUIPMENT OPERATOR PUSH BUTTON STATION. PROVIDED WITH		J	PEDESTAL FLOOR DEVICE - DEVICE TYPE PER SYMBOLS A
	SURFACE CEILING ADJUSTABLE POINT SOURCE	· · ·	EQUIPMENT, INSTALLED AND CONNECTED BY ELECTRICAL, UON.			POKE THRU UNIT WITH DUPLEX RECEPTACLE - FLUSH, PED MOUNTED.
Q V	WALL MOUNTED LUMINAIRE	$\diamond$	PUSHBUTTON OR PUSHBUTTONS.			POKE THRU UNIT WITH DOUBLE DUPLEX RECEPTACLE - FL
		TC	TIME CLOCK		0	PORE THRU UNIT WITH DOUBLE DUPLEX RECEPTACLE - FL PEDESTAL MOUNTED.
	WALL MOUNTED DIRECTIONAL (SIZE VARIES)	QS	OCCUPANCY SENSOR - WALL MOUNTED			COMBO POKE THRU UNIT WITH DUPLEX RECEPTACLE AND
	FLUORESCENT STRIPLIGHT - POWER FEED SECTION, FEED THROUGH SECTION. LENGTH AS SHOWN.		360 DEGREE OCCUPANCY SENSOR - CEILING MTD.			TELEPHONE OUTLET - FLUSH, PEDESTAL MOUNTED.
	WALL MOUNTED FLUORESCENT STRIPLIGHT	 OS <del>}</del>	180 DEGREE OCCUPANCY SENSOR - CEILING MTD.	$\square \nabla$	$\bigcirc \mathbf{V}$	MULTI-SERVICE FLOOR BOX CAST IN CONC. OR IN RAISED F SEE ARCH DWGS; WITH RECEPTACLES & SIGNAL OUTLETS
						NOTED.
	UNDERCABINET FLUORESCENT STRIPLIGHT	€ <mark>OS</mark> ≯	CORRIDOR/AISLE OCCUPANCY SENSOR - CEILING MOUNTED		)	POKE THRU UNIT WITH JUNCTION BOX. RACEWAY COMPON
	CONTINUOUS LINEAR SOURCE (LED, COLD CATHODE, NEON, FIBER OPTIC, ETC)	S <sup>a</sup> OS b	COMBINATION OCCUPANCY SENSOR & SWITCH GANGED UNDER A COMMON COVER PLATE. OCCUPANCY SENSOR TO CONTROL ALL		l	RC-700 SERIES.
	BATTERY POWER EMERGENCY UNIT EQUIPMENT (SEE LUMINAIRE	5- <u>[05]</u> v	LUMINAIRES IN ROOM WITH 1/2 LIGHT REDUCTION CONTROLLED BY SWITCH.			TWO OR THREE COMPARTMENT SURFACE METAL RACEWA
· 날· 날·	SCHEDULE FOR QUANTITY OF HEADS) - WALL, CEILING MOUNTED.		THERMOSTAT - WALL, CEILING.			RECEPTACLES AND OUTLETS AS INDICATED, LENGTH AS INDICATED ON THE DRAWINGS. PROVIDE ALL FITTINGS AS
$\bigotimes \bigotimes$	ILLUMINATED EXIT SIGN, SHADED QUADRANT INDICATES FACES,	T T			$\nabla$	REQUIRED.
	ARROWS AS SHOWN	S <sub>EPO</sub> EPO	EMERGENCY POWER OFF, HEAVY-DUTY, OIL-TIGHT RED MUSHROOM-HEAD PUSHBUTTON WITH GUARD.	    TX	ו	REMOTE MOUNTED LINE TO LOW-VOLTAGE FUSED
۵	BOLLARD		LIGHTING CONTROL PANEL AND ASSOCIATED COMPONENTS.		]	TRANSFORMER. CONCEAL FROM VIEW.
	POLE MOUNTED LUMINAIRE- SINGLE OR DUAL HEAD		PROVIDE CONTROL POWER AS REQUIRED OR AS INDICATED.		С	
•	INDICATES ROTATED OPTICS		SIGNAL DEVICES			<b>RIBUTION &amp; EQUIPMEN</b>
Image: Second se	POST TOP MOUNTED LUMINAIRE			SYMB		DESCRIPTION
<del>O</del> >	IN-GRADE POINT SOURCE	SYMBOL	DESCRIPTION		 -	BRANCH CIRCUIT PANELBOARDS, SURFACE AND RECESS MOUNTED
	GARAGE LIGHTING LUMINAIRE WITH CUTOFF LOUVERS	$\leftarrow$ W $\rightarrow$	TERMINAL/MOUNTING BOARD, 8' HIGH, 3/4"x4'x WIDTH AS SHOWN,		1	MOTOR CONTROL CENTER WITH CODE CLEARANCES SHOW
	LUMINAIRE MARKING CONVENTION LEGEND:		FIRE RETARDANT TREATED PLYWOOD.			DASHED EQUIP. = FUTURE
HA o	HA = LUMINAIRE TYPE IDENTIFICATION. SEE LUMINAIRE		SIGNAL SYSTEM EQUIPMENT ENCLOSURES AS NOTED- SURFACE,		· ,     	TRANSFORMER WITH CODE CLEARANCES SHOWN
3c	SCHEDULE. 3c = CIRCUIT NUMBER VIA LOCAL SWITCH (LOWERCASE		RECESSED MOUNTED			SERVICE AND/OR DISTRIBUTION EQUIPMENT WITH CODE
HA o	LETTER) THAT SERVES THE LUMINAIRE. 3A = CIRCUIT NUMBER/UPPERCASE LETTER COMBINATION		COMBO TELEPHONE/DATA OUTLET - WALL			CLEARANCES SHOWN
3A	INDICATES LOW VOLTAGE RELAY OR LIGHTING CONTACTOR THAT SERVES THE LUMINAIRE	I ■ ■ W	TELEPHONE OUTLET - WALL, W = USE HIGHER MOUNTING HEIGHT PER MOUNTING HEIGHT DETAIL	$\  \dot{Q} \ $		CONNECTION TO MOTOR PROVIDED BY OTHERS
				VFD		CONNECTION TO VARIABLE FREQUENCY DRIVE WITH INTEG
			DATA OUTLET - WALL			
R	EFERENCE SYMBOLS	-S S	SPEAKER - WALL, CEILING		] ]	DISCONNECT SWITCH, SIZE AS NOTED OR IF NOT SHOWN S PER CONNECTED MOTOR SIZE AND MOTOR DISCONNECT
SYMBOL	DESCRIPTION		VOLUME CONTROL - WALL			SCHEDULE
XX	KEYED NOTE REFERENCE		PUSHBUTTON OR PUSHBUTTONS	F	ا ل_ا	FUSED DISCONNECT SWITCH, SIZE AS NOTED. SIZE FUSE P MANUFACTURER'S RECOMMENDATIONS
	BRANCH CIRCUIT OR FEEDER TAG; REFER TO BRANCH CIRCUIT		RF COAX CABLE OUTLET (TV, VCR, ETC.)			
125.4	AND FEEDER SCHEDULE FOR WIRE AND CONDUIT SIZES &		COMBINATION RF COAX CABLE AND DATA OUTLET	С		ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH, TRIP S
	QUANTITY.		RF COAX CABLE SIGNAL SPLITTER		 	DISCONNECT W/ MAGNETIC MOTOR STARTER (CONTROLLE
E4.1	REFER TO DETAIL ON DRAWING INDICATED					CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIM
		S PA	PAGING SYSTEM HORN (OUTDOOR)		ļ	MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTO
2	ELEVATION TAG: REFER TO ELEVATION NUMBER ON DRAWING INDICATED	AV>	AV INPUT OUTLET, 1"C WITH 3-GANG BOX. CONDUIT STUBBED ABOVE ACCESSIBLE TILE CEILING.			SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
			ASSISTIVE LISTENING INFRARED TRANSMITTER PANEL, 1"C WITH			CONNECTION TO EQUIPMENT PROVIDED BY OTHERS. SHAD ON ALT. POWER SOURCE NOTED
E4.1	SECTION TAG: REFER TO SECTION NUMBER ON DRAWING		2-GANG BOX. CONDUIT STUBBED ABOVE ACCESSIBLE TILE			CONNECTION TO EQUIPMENT WITH INTEGRAL DISCONNEC
	INDICATED		CEILING.			PROVIDED BY OTHERS. SHADED = ON ALTERNATE POWER
	1		FLUSH FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE			SOURCE NOTED
	KITCHEN EQUIPMENT TAG, REFER TO KITCHEN EQUIPMENT					EQUIPMENT OR TERMINAL ENCLOSURE AS NOTED, SURFAC
K112	SCHEDULE		PEDESTAL FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE			RECESS MOUNTED
A M-1		s <sub>d</sub> s <sub>d</sub>	DUAL COIL SPEAKER - SURFACE CEILING, RECESSED CEILING.			
K112	SCHEDULE	S <sub>D</sub> S <sub>D</sub>	DUAL COIL SPEAKER - SURFACE CEILING, RECESSED CEILING. PAGING OR PAGING/SOUND MASKING SPEAKER, MOUNTED ABOVE		$\mathcal{V}$	DAMPER MOTOR
K112       CH       1	SCHEDULE MECHANICAL EQUIPMENT IDENTIFICATION TAG		DUAL COIL SPEAKER - SURFACE CEILING, RECESSED CEILING.		$\mathcal{V}$	

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	DIAGRAMS
SYMBOL	DESCRIPTION
هر ه	AUTOMATIC TRANSFER SWITCH (ATS)
6	
00	AUTOMATIC TRANSFER SWITCH WITH MAINTENANCE BYPASS(BIATS)
-~~-	OVERLOADS
	NORMALLY CLOSED CONTACTOR OR RELAY CONTACTS
	NORMALLY OPEN CONTACTOR OR RELAY CONTACTS
	BUS DUCT
	BUS BAR
	BATTERY GENERAL
$\longrightarrow$	CONNECTOR, FEMALE AND MALE RESPECTIVELY
5 5	PIPE GROUND
C	CONTACTOR COIL
R	RELAY COIL
	LIGHTNING SURGE ARRESTOR D = DISTRIBUTION CLASS I = INTERMEDIATE CLASS
SPD	SURGE PROTECTION DEVICE
	CURRENT TRANSFORMER
$\rightarrow \vdash$	POTENTIAL TRANSFORMER
PF	METER: POWER FACTOR
KWH	METER: KILOWATT HOUR
MM	UTILITY CO. APPROVED SOCKET WITH METER INSTALLED. SQUARE = REMOTE MOUNTED
DMU	DIGITAL METER UNIT. REFER TO SPECIFICATIONS.
STB	CURRENT TRANSFORMER SHORTING TERMINAL BLOCK.
$\oslash$	TERMINAL FOR FIELD CONNECT, SIZE & TYPE SUITABLE FOR CONDUCTOR INSTALLED.
Y <u> </u>	GROUNDED WYE CONNECTION
	CONNECTION TO GROUND
100AT لم 225AF م	CIRCUIT BREAKER, WITH TRIP & FRAME AMPERE RATING
225AF 400AS	FUSED SWITCH, WITH FUSE AND SWITCH AMPERE RATING
$\not\!$	DRAWOUT CIRCUIT BREAKER
GF	GROUND FAULT TRIP UNIT
BA	BELL ALARM TRIP MODULE CONTACTS
ST	SHUNT TRIP UNIT, 120VAC OR VOLTAGE AS NOTED
AM	INTEGRAL AMMETER DISPLAY
(K)	KEY INTERLOCK
Ē	GENERATOR
C	CONNECTION TO CHILLER

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# ELECTRICAL DRAWING LIST

E-000	ELECTRICAL LEGEND
E-001	ELECTRICAL ABBREVIATIONS & GENERAL NOTE
E-002	ELECTRICAL FEEDER & CIRCUIT SCHEDULES
E-003	LUMINAIRE SCHEDULE
E-004	LIGHTING CONTROL & MEP COORDINATION SCHEDULE
E-005	RESIDENTIAL UNIT LOAD CALCULATION
E-006	ELECTRICAL PANEL SCHEDULES
E-007	BUILDING A - PANEL SCHEDULES
E-008	BUILDING B - PANEL SCHEDULES
E-009	BUILDING C - PANEL SCHEDULES
E-010	BUILDING D - PANEL SCHEDULES
E-011	WSEC ENERGY COMPLIANCE FORMS
E-012	WSEC ENERGY COMPLIANCE FORMS
E-013	WSEC ENERGY COMPLIANCE FORMS
E-101	SITE PLAN - ELECTRICAL
E-102	SITE PLAN - LIGHTING
EA-110	BUILDING A - LEVEL 1 - POWER
EA-111	BUILDING A - LEVEL 2 - POWER
EA-112	BUILDING A - LEVEL 3 - POWER
EA-113	BUILDING A - LEVEL 4 - POWER
EB-110	BUILDING B - LEVEL 1 AND 2 - POWER
EB-111	BUILDING B - LEVEL 3 - POWER
EC-110	BUILDING C - LEVEL 1 - POWER
EC-111	BUILDING C - LEVEL 2 - POWER
EC-112	BUILDING C - LEVEL 3 - POWER

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NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT. REFER TO DETAILS AND NOTES FOR MOUNTING HEIGHTS.

# WIRING

SYMBOL	DESCRIPTION
	NEW WORK
	WIRING CONCEALED IN FLOOR OR UNDER GRADE OR ROUTED IN CEILING SPACE OF FLOOR BELOW.
(E)	EXISTING WORK TO REMAIN
(ER)	EXISTING RELOCATED
(D)	EXISTING WORK TO BE REMOVED
(F)	FUTURE WORK
T	TELEPHONE SYSTEM CONDUIT
MV	MEDIUM VOLTAGE CONDUIT
G	BARE GROUNDING GRID OR CONDUCTORS, UON.
GC	GROUNDING CONDUCTOR(S) ROUTED IN CODE SIZED CONDUIT, UON.
	STROKES INDICATE QUANTITY OF #12 AWG. CONDUCTORS, UON. NOTE: WIRING STROKES FOR 20A BRANCH CIRCUITS ARE NOT SHOWN ON DRAWINGS. CONTRACTOR SHALL USE INFORMATION IN PANEL AND BRANCH CIRCUIT SCHEDULES TO PROVIDE REQUIRED CIRCUITING.
	GROUND
+	НОТ
—	NEUTRAL
L1A-1,3	HOME RUN WIRING TO INDICATED DESTINATION, 3/4"C. MIN. OR AS OTHERWISE NOTED. CONTRACTOR SHALL USE CIRCUIT SIZES NOTED IN RESPECTIVE SCHEDULES AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES.
HD1AO	CONDUIT RUN TURNED UP THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
0	CONDUIT RUN TURNED DOWN THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
]	CONDUIT STUBBED OUT AT LOCATION SHOWN. PROVIDE INSULATED BUSHING & PULLROPE.
[]	TELEPHONE/DATA SLEEVE THROUGH WALL, ABOVE CEILING. EXTEND TO ACCESSIBLE TILE CLG. BOTH SIDES. TERMINATE WITH BUSHINGS. (1) 1.25" CO UON. COORDINATE LOCATIONS WITH CABLE INSTALLER(S) PRIOR TO ROUGH-IN.
	BASKET TYPE CABLE TRAY WITH 90 DEGREE ELBOW SHOWN
	LADDER TYPE CABLE TRAY WITH 90 DEGREE ELBOW SHOWN
	JUNCTION BOXES, WALL, CEILING AND FLUSH FLOOR MOUNTED. 4" SQ. BOX MIN., LARGER IF REQUIRED
	WIRING EXTENSION POINT - CONDUIT TO MC CABLE OR MANUFACTURED WIRING SYSTEM J-BOX ABOVE ACCESSIBLE CEILINGS AREAS, OR EXTEND CONDUIT & WIRE IN EXPOSED OR "HARD" CEILING AREAS. SHADED= ON ALT. POWER SOURCE (EMERG,UPS,ETC.)
PB	PULL BOX, MIN. SIZE PER NEC., UON.
~~~~~	FLEXIBLE CONDUIT CONNECTION
(ZZZZZ)	POWER CONNECTION TO DIV 15 FIRE/SMOKE DAMPER. REFER TO FSD CONNECTION DETAIL IF NOT SHOWN

ED-110	BUILDING D - LEVEL 1 - POWER
ED-111	BUILDING D - LEVEL 2 - POWER
ED-112	BUILDING D - LEVEL 3 - POWER
EA-210	BUILDING A - LEVEL 1 - LIGHTING
EA-211	BUILDING A - LEVEL 2 - LIGHTING
EA-212	BUILDING A - LEVEL 3 - LIGHTING
EA-213	BUILDING A - LEVEL 4 - LIGHTING
EB-210	BUILDING B - LEVEL 1 AND 2 - LIGHTING
EB-211	BUILDING B - LEVEL 3 - LIGHTING
EC-210	BUILDING C - LEVEL 1 - LIGHTING
EC-211	BUILDING C - LEVEL 2 - LIGHTING
EC-212	BUILDING C - LEVEL 3 - LIGHTING
ED-210	BUILDING D - LEVEL 1 - LIGHTING
ED-211	BUILDING D - LEVEL 2 - LIGHTING
ED-212	BUILDING D - LEVEL 3 - LIGHTING
EA-601	UNIT PLANS - LIGHTING
EB-601	UNIT PLANS - LIGHTING
EC-601	UNIT PLANS - LIGHTING
ED-601	UNIT PLANS - LIGHTING
E-501	ELECTRICAL SINGLE LINE DIAGRAM

	ISSUE INFORMATION
	C       06/08/2020       BUILDING PERMIT SUBMITTAL         80% HUD SUBMITTAL         B       04/10/2020       DESIGN DEVELOPMENT         A       01/07/2020       SCHEMATIC DESIGN         MARK       DATE       DESCRIPTION
В	MARK DATE DESCRIPTION REVISIONS
	PROJECT ADDRESS: BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET EVERETT, WA 98201 OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVE EVERETT, WA 98201
С	engineers for a sustainable future <sup>®</sup> I Constraints of the subscription of the subscr
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		ELECTRICAL -
	<ol> <li>GENERAL PROVISIONS         <ol> <li>THE REQUIREMENTS OF THE SPECIFICATIONS, THE FOREGOING ARCHITECTURAL GENERAL NOTES AND MECHANICAL NOTES SHALL APPLY TO ALL WORK HEREUNDER.</li> </ol> </li> </ol>	<ol> <li>COORDINATION</li> <li>A. COORDINATE ALL WORK WITH ARC DRAWINGS. INSTALL ALL WORK TO AND STRUCTURAL MEMBERS. NO IT</li> </ol>
	B. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE W/ ANY LOCAL AMENDMENTS, THE LOCALLY ADOPTED ENERGY CODE, AND ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, LAWS AND REGULATIONS.	B. EXAMINE MECHANICAL DRAWINGS DOCUMENTS. PROVIDE AND INSTAL
D	C. CONTRACTOR IS DIRECTED TO OBTAIN AND REVIEW BUILDING CONSTRUCTION STANDARDS. WORK SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS WHETHER OR NOT SUCH ARE REPEATED HEREIN OR ON PLANS. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN BUILDING STANDARDS	CONDUIT, WIRING, ETC) INDICATE BY ELECTRICAL (WHETHER SHOWN ROUGH ELECTRICAL PRIOR TO VEF 6. RELATED WORK
	AND THESE DRAWINGS. D. CONTRACTOR IS DIRECTED TO OBTAIN AND REVIEW BUILDING CONSTRUCTION STANDARDS. WORK SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS WHETHER OR NOT SUCH ARE REPEATED HEREIN OR ON PLANS. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN BUILDING STANDARDS AND THESE DRAWINGS.	<ul> <li>A. SUBCONTRACTOR SHALL BE RESPONSED AND CESSARY FOR INSTALLATION OF</li> <li>B. OBTAIN WRITTEN PERMISSION FROM BEFORE PROCEEDING WITH ANY CONSTRUCTION STATEMS, INCLUDING FLOOR SLAB</li> </ul>
	E. CONTRACTOR IS DIRECTED TO OBTAIN AND REVIEW BUILDING CONSTRUCTION STANDARDS. WORK SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS WHETHER OR NOT SUCH ARE REPEATED HEREIN OR ON PLANS. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN BUILDING STANDARDS AND THESE DRAWINGS.	<ul> <li>C. REFINISH MARRED OR DAMAGED F.</li> <li>D. CONNECT ALL CONTRACTOR AND C AND INSTALL REQUIRED DISCONNE</li> </ul>
	F. PROVIDE EQUIPMENT AND MATERIALS WHICH CONFORM TO THE STANDARDS EFFECTIVE AS OF THE DATE OF THE CONTRACT DOCUMENTS AS PROMULGATED BY THE FOLLOWING BODIES:	<ul> <li>E. RESTORE ALL DAMAGE RESULTING CLEAN CONDITION WHEN FINISHED</li> <li>7. COMMUNICATION SYSTEM A. PROVIDE 3/4"C.O. FROM ALL TELEP</li> </ul>
	<ol> <li>UNDERWRITERS' LABORATORIES (UL).</li> <li>NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION (NEMA).</li> <li>ELECTRICAL TESTING LABORATORIES (ETL).</li> <li>AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).</li> </ol>	UP INTO ACCESSIBLE CEILING SPACE 8. <b>DISTRIBUTION AND GROUNDING</b>
	<ul> <li>5. INSULATED CABLE ENGINEERS ASSOCIATION (ICEA).</li> <li>6. NATIONAL ELECTRICAL CODE 2014 (NEC) W/ CITY OF HOUSTON AMENDMENTS.</li> <li>G. BEFORE SUBMITTING A BID, EXAMINE ALL PERTINENT CONTRACT DOCUMENTS FOR ELECTRICAL REQUIREMENTS WHICH ARE NOT NECESSARILY INDICATED ON THE</li> </ul>	A. PANELBOARDS SHALL BE BOLTED STANDARDS, WHERE BUILDING STA PROVIDE SQUARE D NQOD, GE, EA CIRCUIT BREAKERS SHALL BE "SWI
С	ELECTRICAL DRAWINGS AND INCLUDE IN THE BID A SUM WHICH IS SUFFICIENT TO COVER THE COSTS OF THESE OTHER REQUIREMENTS. 2. SCOPE	1. PROVIDE SELF-ADHESIVE ENG LABEL (PER BUILDING STANDA PANELBOARD DESIGNATION AN B. PROVIDE GROUNDING SYSTEM CO
	A. FURNISH AND INSTALL COMPLETE ALL MATERIALS, EQUIPMENT AND LABOR AS SHOWN AND AS NECESSARY FOR COMPLETE WORKABLE SYSTEM.	SPECIFIED. GROUNDING SYSTEM S ELECTRICAL SYSTEM.
	B. OBTAIN AND PAY FOR ALL REQUIRED FEES, PERMITS AND INSPECTIONS.	C. PROVIDE ARC FLASH LABELING AS
	C. GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR FROM DATE OF FILING NOTICE OF COMPLETION.	9. CONDUIT AND RACEWAYS A. PROVIDE COMPLETE CONDUIT OR
	<ul> <li>D. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION WORK WITHIN THE TENANT SPACE.</li> <li>E. DISCONNECT AND REMOVE ALL DEVICES, CONDUIT AND WIRE NOT BEING REUSED</li> </ul>	WIRING OVER 100 VOLTS AND AS D SYSTEMS CIRCUITS AND WIRING. 1. ALL EXPOSED OR DAMP LOCAT
	WITHIN REMODEL AREAS. DETERMINE FROM OWNER EQUIPMENT TO BE SALVAGED. REMOVE ALL OTHER FROM SITE. SEAL ALL UNUSED FLOOR PENETRATIONS WITH APPROVED FIRE RATED ABANDONMENT PLUG. RECIRCUIT AS	GALVANIZED ELECTRICAL MET
	REQUIRED TO LEAVE AREAS ADJACENT TO REMODEL IN SERVICE. F. DISCONNECT ALL HVAC EQUIPMENTS TO BE DEMOLISHED. COORDINATE WITH MECHANICAL SUB-CONTRACTOR. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF	CONDUIT COUPLED WITH SET S 3. CONNECTIONS TO MECHANICA MAXIMUM LENGTH 24", WITH PL
	THESE ITEMS. G. CONTRACTOR SHALL ESTABLISH A CONTRACT WITH THE LANDLORD'S FIRE ALARM DESIGN/BUILD CONTRACTOR TO DESIGN AND INSTALL A FIRE/ALARM LIFE SAFETY	4. CONNECTIONS TO LIGHTING FI BE FLEXIBLE METAL CONDUIT.
	SYSTEM COMPATIBLE WITH THE EXISTING SYSTEM. H. MAINTAIN ALL CIRCUITS TO CORE AND ADJACENT TENANT SPACES DURING	B. RUN ALL WIRES IN CONDUIT CONCL OR FLOOR SPACES. RUN CLOSE TO EXPOSED RACEWAY IN STAIRWELL
В	I. RUN HOMERUNS TO PANELS/CIRCUITS AS SHOWN. IF THERE IS A CONFLICT WITH	CONFORM TO BUILDING OUTLINES C. PROVIDE FISH-CORD IN ALL EMPTY
	EXISTING CONDITIONS, USE THE NEXT AVAILABLE CIRCUIT. J. REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS FOR EXACT	D. PROVIDE INSULATING BUSHINGS O
	LOCATION AND REQUIREMENT OF ALL EQUIPMENT REQUIRING ELECTRICAL POWER.	E. ALL JUNCTION BOXES, OUTLETS, A PANEL NUMBER AND CIRCUITS WH
	<ul><li>K. PROVIDE NEW CONDUITS AND WIRING AS SHOWN ON PLAN, UON.</li><li>L. CONTRACTOR TO VERIFY MOUNTING HEIGHTS OF ALL DEVICES AND FINISHES WITH</li></ul>	F. ALL ELECTRICAL CONDUIT OR RAC EXPANSION JOINTS SHALL BE PRO
	ARCHITECTURAL PLANS.	10. <b>WIRE</b>
	<ul> <li>M. PROVIDE CONDUITS FOR ALL LOW VOLTAGE WIRING AS INDICATED ON PLANS PER LANDLORD REQUIREMENT.</li> <li>N. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THAT REMAINING EXISTING</li> </ul>	A. PROVIDE COPPER CONDUCTORS V LOCATIONS AND TYPE "THWN" INSU CONDUCTORS IN SIZES #10 AWG A CONDUCTORS SHALL BE STRANDE
	ELECTRICAL EQUIPMENT AND DEVICES ARE FUNCTIONING AND RECONNECT POWER IF DISCONNECTED DURING THE REMODEL.	PERMITTED FOR LINE VOLTAGE BR SHALL BE LABELED W/ NUMBERED ACCESSIBLE JUNCTION OR OUTLET
	<ul> <li>O. LABEL ALL NEW AND EXISTING RECEPTACLES &amp; LIGHT SWITCHES/OCC SENSORS WITH PANEL &amp; CIRCUIT NUMBER THEY'RE FED FROM. SEE ITEM 11-E.</li> <li>P. PROVIDE NEW TYPE-WRITTEN CIRCUIT DIRECTORY FOR MODIFIED BRANCH</li> </ul>	NEATLY INSTALLED; GROUPED, LAC TERMINAL. B. IF ALLOWED BY BUILDING STANDAR
	CIRCUIT PANELBOARDS TO MATCH AS-BUILT CONDITIONS. 3. SUBMITTALS	CIRCUIT DISTRIBUTION IN DRY CON FEEDERS. MC CABLE SHALL INCLUI
	A. PROVIDE CATALOG CUTS OR SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT FOR THE FOLLOWING EQUIPMENT AND ITEMS:	11. DEVICES A. TYPES OF ALL SWITCHES, RECEPTA APPROVED BY ARCHITECT. VERIFY
Δ	<ol> <li>LIGHTING FIXTURES AND CONTROL DEVICES</li> <li>SWITCHES, OUTLETS AND WALL PLATES</li> </ol>	ARCHITECT.
A	<ul><li>4. RECORD DRAWINGS</li><li>A. SUBMIT AT THE PROJECT COMPLETION AND PRIOR TO FINAL PAYMENT ONE SET OF</li></ul>	B. GENERAL RECEPTACLES SHALL BE BY ARCHITECT. DEDICATED RECEP U.O.N.
	RECORD PRINTS NOTING ACTUAL ROUTINGS OF CONDUITS, EQUIPMENT LOCATIONS, ETC., AS WELL AS ANY REVISIONS MADE TO DESIGN DRAWINGS. SUBMIT WITH RECORD PRINTS TWO COPIES OF AVAILABLE EQUIPMENT MANUALS,	C. SWITCHES SHALL BE RATED 120 VC D. DEVICE INSTALLATION: DEVICES M
:020 10:45:40 AM	SERVICE RECOMMENDATIONS, GUARANTEES, ETC. B. CIRCUIT NUMBERS FOR ALL FIXTURES AND DEVICES (NEW AND EXISTING) WITHIN THE AREA OF WORK SHALL BE VERIFIED AND INDICATED ON RECORD DRAWINGS.	HORIZONTALLY A MINIMUM OF 8" IN OCCUPANCY SEPARATION WALLS. ALL UNUSED HOLES IN BOXES SHA
PLOT DATE/TIME:6/10/2020 10:45:40 AM	PANEL SCHEDULES SHALL BE CORRECTED TO REFLECT ACTUAL INSTALLATION.	E. PROVIDE P-TOUCH LABELS ON THE CIRCUIT NUMBERS.

# **GENERAL NOTES**

CHITECTURAL, MECHANICAL AND STRUCTURAL CLEAR NEW AND EXISTING ARCHITECTURAL ITEM SUCH AS PIPE, DUCT, ETC. SHALL BE IN EQUIPMENT.

WHICH FORM A PART OF THE CONTRACT ALL ALL MATERIALS, (DISCONNECT, STARTER, ED ON MECHANICAL DRAWINGS TO BE PROVIDED N ON ELECTRICAL PLANS OR NOT). DO NOT ERIFICATION OF HVAC UNITS' EXACT LOCATION.

PONSIBLE FOR ALL CUTTING AND PATCHING F HIS WORK.

OM ARCHITECT AND GENERAL CONTRACTOR CUTTING OR PATCHING OF STRUCTURAL

FACTORY FINISHED EQUIPMENT.

OWNER FURNISHED EQUIPMENT AND PROVIDE ECTING MEANS.

G FROM YOUR WORK AND LEAVE PREMISES IN D WITH WORK.

PHONE, DATA OR TEL/DATA OUTLETS STUBBED ACE U.O.N.

TYPE CIRCUIT BREAKERS MATCHING BUILDING ANDARDS DO NOT DESIGNATE MANUFACTURER, ATON, OR ITE EQUIVALENT. ALL 15/1 AND 20/1 VD" RATED AND MARKED.

GRAVED LAMINATED ACRYLIC OR MELAMINE ARDS) ON PANELBOARD COVER INDICATING ND SOURCE OF SUPPLY.

MPLYING WITH THE CODES AND ORDINANCES SHALL PROVIDE CONTINUITY THROUGH ENTIRE

S REQUIRED PER NEC 110.16.

RACEWAY SYSTEM FOR ALL CIRCUITS AND DESIGNATED FOR LOW VOLTAGE AND SIGNAL

TIONS OR LARGER THAN 2" SHALL BE FALLIC TUBING (E.M.T.) CONDUIT UON.

BOVE GROUND SHALL BE GALVANIZED E.M.T. SCREW TYPE FITTINGS.

AL EQUIPMENT SHALL BE FLEXIBLE CONDUIT, LASTIC BUSHED CONNECTIONS. 1/2" MINIMUM.

FIXTURES IN T-BAR SUSPENDED CEILINGS SHALL

CEALED WHEREVER POSSIBLE IN CEILING, WALL TO STRUCTURE, PARALLEL TO BUILDING LINES. L, EQUIPMENT ROOMS, ETC. SHALL TIGHTLY S SO AS TO BE AS INCONSPICUOUS AS POSSIBLE.

Y CONDUIT.

ON ALL TERMINATIONS OF CONDUIT.

AND SWITCHES SHALL BE LABELED IDENTIFYING HICH ROUTE THROUGH THE BOX.

CEWAY CROSSING SEISMIC SEPARATION OR VIDED WITH APPROVED FLEXIBLE CONNECTORS.

WITH 600 VOLT TYPE "THHN" INSULATION IN DRY SULATION IN DAMP OR WET LOCATIONS. AND SMALLER SHALL BE SOLID; OTHER ED. #12 AWG IS THE SMALLEST CONDUCTOR SIZE RANCH WIRING. BOTH ENDS OF ALL WIRE RUNS PRESSURE LABELS. SPLICE ONLY IN T BOXES. SCREW-ON CONNECTORS SHALL BE ACED OR CLIPPED, AND FANNED OUT TO/FROM

ARD, MC CABLING MAY BE USED FOR BRANCH NCEALED LOCATION BUT NOT HOMERUNS OR JDE GROUND WIRE.

TACLES AND WALL PLATES SHALL BE AS Y MATERIALS AND COLOR AND LOCATION WITH

E NEMA 5-15R SPEC GRADE U.O.N. ON PLANS OR PTACLES SHALL BE NEMA 5-20R SPEC GRADE

/OLT SPEC GRADE.

2

MOUNTED IN A COMMON WALL SHALL BE OFFSET N REGULAR WALLS AND 24" IN ONE-HOUR RATED . NO BOXES SHALL BE INSTALLED BACK TO BACK. ALL BE SLUGGED OR SEALED.

E RECEPTACLES AND SWITCHES IDENTIFYING

#### 12. LIGHTING

3

- A. PROVIDE LIGHTING FIXTURES OF SIZES, TYPES AND RATING INDICATED; COMPLETE WITH, BUT NOT LIMITED TO HOUSINGS, LAMPS, LAMP HOLDERS, BALLASTS, STARTERS, WIRING, AND MOUNTING HARDWARE. FIXTURE TYPE DESIGNATION FOR AN INDIVIDUAL FIXTURE SHALL BE TYPICAL FOR SIMILARLY INDICATED FIXTURES WITHIN THE ENTIRE ROOM OR DEFINED AREA. IN THE EVENT A FIXTURE IS UN-DESIGNATED ON PLANS, IT SHALL BE OF THE SAME TYPE AS FIXTURES OF SIMILAR FUNCTION WITHIN ROOMS OR AREAS.
- B. ALL LIGHTING FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED OUTLET BOXES IN ACCORDANCE WITH CODE. FOR EXACT LOCATION OF ALL FIXTURES, REFER TO ARCHITECTURAL DRAWINGS.
- C. SUPPLY PLASTER FRAMES, TRIM RINGS, AND BACKBOXES TO OTHER TRADES. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN AND MECHANICAL EQUIPMENT.
- D. ALL FIXTURES, LENSES, AND OTHER TRIM SHALL BE ALIGNED, CLEANED, FREE OF PAINT AND BLEMISHES BEFORE FINAL ACCEPTANCE. NO FIXTURE SUPPORT OR INSERT, EXCEPT PENDANT CANOPIES, SHALL BE VISIBLE FROM THE FLOOR.

(E)	EXISTING TO REMAIN
(F) (D)	
(R) (DI)	EXISTING TO BE REMOVED EXISTING TO BE RELOCATED
	ABOVE COUNTER BACKSPLASH
	AIR CONDITIONING UNIT
	ALTERNATING CURRENT
	AMPERES
	AMPERES
ADJ AF	AMPERE (RATED) FUSE OR CB FRAME
	ABOVE FINISHED FLOOR
AFF AFG	ABOVE FINISHED FLOOR
	AUTHORITY HAVING JURISDICTION
	EQUIPMENT SHORT CIRCUIT INTERRUPT
AIC	
A 1	RATING (RMS SYM. AMPS)
AL	
ALC	
AS	AMPERE (RATED) SWITCH
	CIRCUIT BRKR TRIP SETTING (AMPS) AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	
	AMERICAN WIRE GAUGE
	BATTERY
	BARE COPPER
	BELOW GRADE
С	CONDUIT (CIRCULAR RACEWAY)
CAB	
CB	
CFM	
CKT	CIRCUIT
	CEILING
CO	CONDUIT ONLY
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
	DISCONNECT
	DIAMETER
	DIVISION
DP	DISTRIBUTION PANEL
	DOUBLE POLE DOUBLE THROW
	DOUBLE POLE SINGLE THROW
	DRAWING
,	EMERGENCY
	EXHAUST FAN
	ELECTRICAL METALLIC TUBING
	ENCLOSURE
	ELECTRICALLY OPERATED
EOL	END OF LINE
	ELECTRIC WATER COOLER
	ELECTRIC WATER HEATER
	FIRE ALARM
	FIRE ALARM ANNUNCIATOR
	FIRE ALARM CONTROL PANEL
-	FURNISHED BY OTHERS
	FOOT CANDLES
	FLUSH FLOOR MOUNTED
	FULL LOAD AMPERES
	FLEXIBLE
FPB	FAN POWERED BOX
FSD	FIRE/SMOKE DAMPER
FW	FLUSH WALL MOUNTED
FU	FUSE
GEN	
GFI	GROUND FAULT CIRCUIT INTERRUPTER
,	GROUND
	GENERATOR REMOTE ANNUNCIATOR PANE
	GALVANIZED RIGID STEEL CONDUIT
HLO	HANDLE LOCK-ON(OFF)
HP	
HPF	HIGH POWER FACTOR
HTR	
HZ	HERTZ (CYCLES PER SECOND)
IES	ILLUMINATING ENGINEERING SOCIETY INDIVIDUAL BRANCH CIRCUIT
IBC ID	INDIVIDUAL BRANCH CIRCUIT
IG	INSIDE DIAMETER ISOLATED GROUND
0	

4

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(E)

(F)

EXISTING TO REMAIN

# ABBREVIATIONS

	IMC	INTERMEDIATE METAL CONDUIT
		THOUSAND CIRCULAR MILS
		KEYED NOTE
	-	KNOCK OUT
		KILOWATTS
		LIGHTING LIGHTING CONTROL PANEL
		MAXIMUM
	MCA	MINIMUM CIRCUIT AMPERES
	MCB	MAIN CIRCUIT BREAKER
	MFR	MANUFACTURER
		MISCELLANEOUS MAIN LUGS ONLY
		MANUAL OPERATOR
		MOUNTED
	MTR	MOTOR
	Ν	NEUTRAL (GROUNDED CONDUCTOR)
		NORMALLY CLOSED
		NATIONAL ELECTRICAL CODE NEGATIVE
		NATIONAL ELECTRICAL MFGR'S ASSOC.
	NL	NIGHT LIGHT (UNSWITCHED)
	NO	NORMALLY OPEN
		NOT TO SCALE
		NAMEPLATE
		ON CENTER OUTSIDE DIAMETER
		OWNER FURNISHED CONTRACTOR INSTALLED
	ODOI	OWNER FURNISHED, OWNER INSTALLED
	OS	OCCUPANCY SENSOR
	Р	POLE
		PUSHBUTTON
		PHASE PANEL
		POSITIVE
		PRIMARY
		REQUIRED
		RIGID NON-METALLIC CONDUIT (PVC)
		RAPID START
	RSI	REMOTE STATION TRANSMITTER
	SEC	SEE ARCHITECTURAL DRAWINGS SECONDARY
	SN	
		SOLENOID
		SURGE PROTECTION DEVICE
		SINGLE POLE DOUBLE THROW
		SINGLE POLE SINGLE THROW SUBSTATION
		SWITCHBOARD
		SWITCHGEAR
	ТВ	TERMINAL BOARD
		TIME DELAY CLOSING
		TIME DELAY OPENING
	TYP	TELEPHONE TYPICAL
		UNDERFLOOR
		UNDERGROUND
	-	UNDERWRITERS LAB
		UNLESS OTHERWISE NOTED
	UTX V	UTILITY TRANSFORMER VOLTS
	-	VOLT-AMPERES
		VARIABLE FREQUENCY DRIVE
	W	WATT
	W/	WITH
NEL	W/O WP	WITHOUT WEATHERPROOF
	XFR	TRANSFORMER
	XP	EXPLOSION PROOF
	Z	ZONE
	",IN	INCHES
	',FT	FEET
	Ø >	PHASE GREATER THAN
	<	LESS THAN
	>	GREATER THAN OR EQUAL TO

GGLO 1301 First Avenue, Suite 301 Seattle, WA 98101 http://www.gglo.com **GLUMAC** A TETRA TECH COMPANY r J engineers for a sustainable future<sup>™</sup> ь д 1601 Fifth Ave., Suite 2210 Seattle, WA 98101 www.glumac.com T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169 PROJECT: EHA BAKER HEIGHTS R. EVERET' HOUSING AUTHORITY PROJECT ADDRESS: BUILDING A: 2710 14TH STREET **BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET** BUILDING D: 2810 14TH STREET **EVERETT, WA 98201** OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVE **EVERETT, WA 98201** MARK DATE DESCRIPTION REVISIONS 06/08/2020 BUILDING PERMIT SUBMITTAL / С 80% HUD SUBMITTAL B 04/10/2020 DESIGN DEVELOPMENT A 01/07/2020 SCHEMATIC DESIGN MARK DATE DESCRIPTION **ISSUE INFORMATION** 2017033 PROJECT NO .: Jon Hall PRINCIPAL IN CHARGE Scott Schreffler PROJECT MANAGER: OWNER APPROVAL: SHEET TITLE ELECTRICAL **ABBREVIATIONS &** GENERAL NOTE SHEET NO.

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E-001

Α	LUM	IN	UMI	FEEDER S	SCHEDU	LE
EEDER			DUITS	CONDUCTOR		NOTES
TAG 4000.4 )	4.00"	SE <sup>-</sup>	TS RNC 1 5.00"	PHASE/NEUTRA (4) 700 KCMIL	L GROUND (2) 250 KCMIL	
00.3	3.50"	1		(3) 700 KCMIL	(2) 250 KCMIL	-
3500.4	4.00"	1(		(4) 700 KCMIL	(2) 250 KCMIL	-
3500.3	3.50"	1(		(3) 700 KCMIL	(2) 250 KCMIL	-
3000.4	4.00"	8	3 5.00"	(4) 700 KCMIL	600 KCMIL	-
3000.3	3.50"	8	3 4.00"	(3) 700 KCMIL	600 KCMIL	-
2500.4	4.00"	7	5.00"	(4) 700 KCMIL	600 KCMIL	-
2500.3	3.50"	7	4.00"	(3) 700 KCMIL	600 KCMIL	-
2000.4	3.50"	6	6 4.00"	(4) 600 KCMIL	400 KCMIL	-
2000.3	3.50"	6	6 4.00"	(3) 600 KCMIL	400 KCMIL	-
1600.4K)	4.00"	6	6 4.00"	(3) 500 KCMIL, (2) 400 KCMIL-N	350 KCMIL	7
1600.4	4.00"	5	5 4.00"	(4) 600 KCMIL	350 KCMIL	-
1600.3	3.50"	5	5 4.00"	(3) 600 KCMIL	350 KCMIL	-
1200.4	3.50"	4	4.00"	(4) 500 KCMIL	250 KCMIL	-
1200.3	3.00"	4	4.00"	(3) 500 KCMIL	250 KCMIL	-
1000.4K)	3.00"	4	4.00"	(3) 500 KCMIL, (2) 350 KCMIL-N	#4/0	7
1000.4	3.50"	3	3 4.00"	(4) 600 KCMIL	#4/0	-
1000.3	3.00"	3	3 4.00"	(3) 600 KCMIL	#4/0	-
800.4K	3.00"	3	3 4.00"	(3) 500 KCMIL, (2) 400 KCMIL-N	#3/0	7
800.4	3.00"	3	3 3.00"	(2) 400 KCMIL-N (4) 400 KCMIL	#3/0	-
800.3	3.00"			(4) 400 KCMIL (3) 400 KCMIL	#3/0	-
700.4	4.00"		2 4.00"	(4) 700 KCMIL	#3/0	-
700.3	3.50"		2 4.00"	(3) 700 KCMIL	#3/0	-
600.4	3.50"	2	2 4.00"	(4) 500 KCMIL	#2/0	-
600.3	3.00"	2	2 4.00"	(3) 500 KCMIL	#2/0	-
500.4K	3.00"	2	2 4.00"	(3) 400 KCMIL, (2) 350 KCMIL-N	#1/0	7
500.4	2.50"	2	2 3.00"	(2) 350 KCMIL-N (4) 350 KCMIL	#1/0	-
500.4	2.50			(4) 350 KCMIL (3) 350 KCMIL	#1/0	
450.4	2.50"		2 3.00"	(4) 300 KCMIL	#1/0	-
450.3	2.50"	2		(3) 300 KCMIL	#1/0	-
(400.4K)	2.50"	2	2 3.00"	(3) 300 KCMIL, (2) 250 KCMIL-N	#1	7
	2 50"		2 00"		#1	
400.4	2.50"			(4) 250 KCMIL	#1	-
400.3	2.00" 4.00"		2 3.00" 4.00"	(3) 250 KCMIL (4) 700 KCMIL	#1	-
350.3	3.50"		4.00"	(4) 700 KCMIL	#1	_
300.4	3.50"		4.00"	(4) 500 KCMIL	#2	-
300.3	3.00"	1	4.00"	(3) 500 KCMIL	#2	
250.4	2.50"	1	3.00"	(4) 350 KCMIL	#2	-
250.3	2.50"	1	3.00"	(3) 350 KCMIL	#2	-
225.4K	3.00"	1	4.00"	(3) 350 KCMIL,	#2	7
	2 50"		2 00"	(2) 300 KCMIL-N	#0	
225.4	2.50" 2.50"		3.00" 3.00"	(4) 300 KCMIL (3) 300 KCMIL	#2 #2	-
200.4	2.50"		3.00	(3) 300 KCMIL (4) 250 KCMIL	#2	-
200.4	2.50"		3.00"	(3) 250 KCMIL	#4	-
175.4	2.50"		3.00"	(4) #4/0	#4	-
175.3	2.00"		3.00"	(3) #4/0	#4	-
150.4K	2.50"	1	3.00"	(3) #4/0,	#4	7
450 4	0.00"			(2) #3/0-N	ш л	
150.4	2.00"		2.00"	(4) #3/0	#4	-
<u>    150.3</u> <u>    125.4</u>	2.00" 2.00"		2.00" 2.00"	(3) #3/0 (4) #2/0	#4 #4	-
125.4	2.00 <sup>**</sup> 1.50"		2.00"	(4) #2/0 (3) #2/0	#4 #4	
125.3	2.00"		2.00"	(3) #2/0 (3) #1/0,	#4 #6	- 7
v. <del>+</del> r\	2.00		2.00	(3) #1/0, (2)#1/0-N	m'∪	· · · · ·
XFR						8
HD) S:						9
	FORS AND CO	ondui	TS SHOWN	IN THIS SCHEDULE ARE	BASED ON "STABILOY	" (AL. ALLOY)
UC	FORS WITH X	HHW-2	2 INSULATI			· · · · ·
SIZE MAT	CHES THE AI	/IPACI	TY OF ITS F	EEDER. ALL OTHER SMA	LLER SIZE FEEDERS /	AND BRANCH
CIRCUIT	SCHEDULE" F	OR LC	ADS, SUCH	CTORS PER THE APPROP I AS MOTORS, PUMPS, FA	NS, CHILLERS, ETC.,	
	-	-	-	N THE AMPACITY OF ITS IN ALL FEEDERS AND BI		ERE MULTIPLE
CONDUIT	S ARE INDIC	TED F	PROVIDE NO	DTED GROUND WIRE IN E JSED ON THIS PROJECT.		
NOMINAL	AMPACITIES	GREA	TER THAN	100 AMPS ARE FOR 75 DE		
FIBERGL/	SS TYPE CO	NDUIT	S ROUTED	DATED GRC TYPE CONDU	TO SIZING ON DRAW	INGS IF "RNC"
PLANS SI	IPERSEDE SI	ZES N	OTED ABO	ID. CONDUIT SIZES NOTE /E IF LARGER.		
OVERSIZ TRANSFO	· ·	.) NEU	TRAL FOR	FEEDERS CONNECTED T	O A K-4 OR HIGHER R	ATED
REFER TO	) TRANSFOR			FOR STANDARD PRIMARY FOR FEEDER SIZES TO B		
JIV			SUFDOFE9	I OITI LEDLIT OILEO IUI		THE THE TAG.

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				CO	PPER I	FEED	ER S	CHI	EDI	JLE			
EEDER	CC	ONDUI	TS	CONDUCTORS	PER SET	NOTES	FEEDER	C	ONDUI	TS	CONDUCTORS	PER SET	NOTES
TAG	MET	SETS	RNC	PHASE/NEUTRAL	GROUND		TAG	MET	SETS	RNC	PHASE/NEUTRAL	GROUND	
4000.4	3.50"	11	4.00"	(4) 500 KCMIL	500 KCMIL	-	250.4	2.50"	1	3.00"	(4) 250 KCMIL	#4	-
4000.3	3.00"	11	4.00"	(3) 500 KCMIL	500 KCMIL	-	250.3	2.50"	1	3.00"	(3) 250 KCMIL	#4	-
3500.4	3.50"	10	4.00"	(4) 500 KCMIL	500 KCMIL	-	225.4	2.50"	1	3.00"	(4) #4/0	#4	-
3500.3	3.00"	10	4.00"	(3) 500 KCMIL	500 KCMIL	-	225.3	2.00"	1	2.50"	(3) #4/0	#4	-
3000.4	3.50"	8	4.00"	(4) 500 KCMIL	400 KCMIL	-	200.4	2.00"	1	2.50"	(4) #3/0	#6	-
3000.3	3.00"	8	4.00"	(3) 500 KCMIL	400 KCMIL	-	200.3	2.00"	1	2.50"	(3) #3/0	#6	-
2500.4	3.50"	7	4.00"	(4) 500 KCMIL	350 KCMIL	-	175.4	2.00"	1	2.50"	(4) #2/0	#6	-
2500.3	3.00"	7	4.00"	(3) 500 KCMIL	350 KCMIL	-	175.3	1.50"	1	2.00"	(3) #2/0	#6	-
2000.4	3.00"	6	4.00"	(4) 400 KCMIL	250 KCMIL	-	150.4	2.00"	1	2.00"	(4) #1/0	#6	-
2000.3	3.00"	6	4.00"	(3) 400 KCMIL	250 KCMIL	-	150.3	1.50"	1	2.00"	(3) #1/0	#6	-
1600.4	3.00"	5	4.00"	(4) 400 KCMIL	#4/0	-	125.4	1.50"	1	1.50"	(4) #1	#6	-
1600.3	3.00"	5	4.00"	(3) 400 KCMIL	#4/0	-	125.3	1.25"	1	1.50"	(3) #1	#6	-
1200.4	3.00"	4	4.00"	(4) 350 KCMIL	#3/0	-	110.4	1.25"	1	1.50"	(4) #2	#6	-
1200.3	3.00"	4	3.00"	(3) 350 KCMIL	#3/0	-	110.3	1.25"	1	1.50"	(3) #2	#6	-
1000.4	3.00"	3	4.00"	(4) 400 KCMIL	#2/0	-	100.4	1.25"	1	1.50"	(4) #2	#8	-
1000.3	3.00"	3	4.00"	(3) 400 KCMIL	#2/0	-	100.3	1.25"	1	1.50"	(3) #2	#8	-
800.4	3.00"	3	3.00"	(4) 300 KCMIL	#1/0	-	90.4	1.25"	1	1.50"	(4) #2	#8	-
800.3	2.50"	3	3.00"	(3) 300 KCMIL	#1/0	-	90.3	1.25"	1	1.50"	(3) #2	#8	-
700.4	3.50"	2	4.00"	(4) 500 KCMIL	#1/0	-	80.4	1.25"	1	1.50"	(4) #4	#8	-
700.3	3.00"	2	4.00"	(3) 500 KCMIL	#1/0	-	80.3	1.00"	1	1.50"	(3) #4	#8	-
600.4	3.00"	2	4.00"	(4) 350 KCMIL	#1	-	70.4	1.25"	1	1.50"	(4) #4	#8	-
600.3	2.50"	2	3.00"	(3) 350 KCMIL	#1	-	70.3	1.00"	1	1.50"	(3) #4	#8	-
500.4	2.50"	2	3.00"	(4) 250 KCMIL	#2	-	60.4	1.00"	1	1.00"	(4) #6	#10	-
500.3	2.50"	2	2.50"	(3) 250 KCMIL	#2	-	60.3	0.75"	1	1.00"	(3) #6	#10	-
450.4	2.50"	2	3.00"	(4) #4/0	#2	-	50.4	1.00"	1	1.00"	(4) #6	#10	-
450.3	2.00"	2	2.50"	(3) #4/0	#2	-	50.3	0.75"	1	1.00"	(3) #6	#10	-
400.4	2.00"	2	2.50"	(4) #3/0	#2	-	40.4	0.75"	1	1.00"	(4) #8	#10	-
400.3	2.00"	2	2.50"	(3) 3/0	#2	-	40.3	0.75"	1	1.00"	(3) #8	#10	-
350.4	3.50"	1	4.00"	(4) 500 KCMIL	#2	-	30.4	0.75"	1	1.00"	(4) #10	#10	-
350.3	2.50"	1	4.00"	(3) 500 KCMIL	#2	-	30.3	0.75"	1	1.00"	(3) #10	#10	-
300.4	3.00"	1	3.00"	(4) 350 KCMIL	#4	-	20.4	0.75"	1	1.00"	(4) #12	#12	-
300.3	2.50"	1	3.00"	(3) 350 KCMIL	#4	-	20.3	0.75"	1	1.00"	(3) #12	#12	-
							(K)						7
							XFR						8
							SCHD						9

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NOTES:

CONDUCTORS AND CONDUITS SHOWN IN THIS SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN INSULATION. THIS SCHEDULE SHALL BE USED ON ALL FEEDERS SERVING LOADS WHERE THE CIRCUIT BREAKER SIZE MATCHES THE AMPACITY OF ITS FEEDER. USE THE "MOTOR CIRCUIT SCHEDULE" FOR LOADS, SUCH AS MOTORS, PUMPS, FANS, CHILLERS, ETC., WHERE THE CIRCUIT BREAKER SIZE IS LARGER THAN THE AMPACITY OF ITS FEEDER. PROVIDE GROUND WIRE NOTED ABOVE IN ALL FEEDERS AND BRANCH CIRCUITS. WHERE MULTIPLE CONDUITS ARE INDICATED PROVIDE NOTED GROUND WIRE IN EACH CONDUIT.

NOT ALL FEEDERS ARE NECESSARILY USED ON THIS PROJECT.

NOMINAL AMPACITIES GREATER THAN 100 AMPS ARE FOR 75 DEG..C TERMINALS.

- IF "RNC" CONDUITS ARE ROUTED ABOVEGROUND. CONDUIT SIZES NOTED ON SINGLE-LINE DIAGRAM OR ON PLANS SUPERSEDE SIZES NOTED ABOVE IF LARGER.
- OVERSIZED (173% MIN.) NEUTRAL FOR FEEDERS CONNECTED TO A K-4 OR HIGHER RATED TRANSFORMER.
- REFER TO TRANSFORMER SCHEDULE FOR STANDARD PRIMARY AND SECONDARY FEEDER SIZES. . REFER TO MCC OR PANEL SCHEDULES FOR FEEDER SIZES TO EQUIPMENT NOTED WITH THIS TAG.

VOLTAGE DROP TABLE												
		MAXIMUM ALLOWED RUN LENGTH (FT)										
VOLT	AMP	#12	#10	#8	#6	#4						
	2	500	800	1200	2000	3250						
	4	250	400	600	1000	1625						
	6	175	250	400	650	1100						
120	8	125	200	325	500	800						
120	10	100	150	250	400	650						
	12	85	125	200	350	550						
	14	75	110	175	300	450						
	16	60	100	150	250	400						
	2	1100	1800	2750	/ / /							
	4	550	900	1375								
	6	350	600	950								
277	8	275	450	700								
	10	225	350	550		///						
	12	175	300	475								
	14	150	250	400								
	16	140	225	360								

#### NOTES:

THIS SCHEDULE APPLIES TO ALL BRANCH CIRCUITS. CONTRACTOR SHALL PROVIDE UPSIZED CONDUCTORS AND CONDUIT/ RACEWAYS AS REQUIRED FOR EACH SITUATION.

- THIS SCHEDULE IS FOR 3% VOLTAGE DROP USING COPPER CONDUCTORS. ALUMINUM CONDUCTORS ARE NOT ALLOWED TO SERVE BRANCH CIRCUITS.
- USE 12-AMPS FOR ALL CIRCUITS SERVING ONE OR MORE RECEPTACLES, UNLESS HIGHER AMPACITY IS APPROPRIATE OR REQUIRED. USE FULL LOAD AMPS (FLA) OF EQUIPMENT SERVED X 125% FOR ALL OTHER CIRCUITS THAT SERVE A DEDICATED LOAD WITH NO PLANS FOR ADDING FUTURE EQUIPMENT OR A RECEPTACLE TO THAT CIRCUIT.
- WHENEVER BRANCH CIRCUIT CONDUCTORS ARE UPSIZED THE ASSOCIATED GROUND CONDUCTOR SHALL ALSO BE UPSIZED, PER NEC 250.122.

"MET"= EMT, IMC, GRC, RAC, OR PVC COATED GRC TYPE CONDUITS. "RNC"= PVC 40, PVC 80 OR FIBERGLASS TYPE CONDUITS ROUTED UNDERGROUND. REFER TO SIZING ON DRAWINGS

GLUMAC A TETRA TECH COMPANY ি ৢ engineers for a sustainable future<sup>™</sup> 6 2 1601 Fifth Ave., Suite 2210 Seattle, WA 98101 www.glumac.com T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169 PROJECT: EHA BAKER HEIGHTS HOUSING AUTHORITY PROJECT ADDRESS: **BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET** BUILDING D: 2810 14TH STREET **EVERETT, WA 98201** OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVE EVERETT, WA 98201 MARK DATE DESCRIPTION REVISIONS в C 06/08/2020 BUILDING PERMIT SUBMITTAL / 80% HUD SUBMITTAL B 04/10/2020 DESIGN DEVELOPMENT A 01/07/2020 SCHEMATIC DESIGN MARK DATE DESCRIPTION **ISSUE INFORMATION** 2017033 PROJECT NO .: Jon Hall PRINCIPAL IN CHARGE: PROJECT MANAGER: Scott Schreffler OWNER APPROVAL: SHEET TITLE ELECTRICAL FEEDER & **CIRCUIT SCHEDULES** 

SHEET NO.

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#### LIGHTING CONTROL INTENT SUMMARY

NEW LIGHTING CONTROLS SHALL BE A DESIGN BUILD EFFORT (PROVIDED BY THE ELECTRICAL CONTRACTOR AND LIGHTING CONTROL VENDOR/MANUFACTURER) THAT INTENT SPECIFIED IN THIS DRAWING PACKAGE. REFER TO LIGHTING PLANS, DETAILS, AND ASSOCIATED NOTES AND SPECIFICATIONS FOR CONTROL INTENT. ALL CONTROL AND DIAGRAMS IN GLUMAC'S DOCUMENTS ARE SHOWN TO AID IN ARCHITECTURAL COORDINATION, AND TO CONCEPTUALLY INDICATE THE CONTROL INTENT. CONTRAC DRAWINGS THAT INCLUDE (BUT ARE NOT LIMITED TO) EQUIPMENT AND DEVICES AND EQUIPMENT AND DEVICE LOCATIONS AND QUANTITIES FOR REVIEW BY THE ENGIN OWNERSHIP TO REVIEW AND APPROVE.

<u>GENERAL</u>

- 1. LIGHTING CONTROLS VENDOR/MANUFACTURER SHALL PROVIDE A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM AS DESCRIBED IN BASIS OF DESIG
- 2. OCCUPANCY SENSORS TO BE SET TO VACANCY, MANUAL ON/AUTOMATIC OFF. OCCUPANCY SENSOR TIME DELAY FUNCTIONS TO BE SET AS FOLLOWS (CONFIRM WITH OWNER. PROVIDE TEST REPORT FOR EACH SPACE):
- A. OFFICE 30 MIN B. RESTROOM - 10 MIN
- C. BOH - 5 MIN
- D. EDUCATION 30 MIN
- E. STAIRWELLS 10 MIN F. AMENITY - 30 MIN
- 3. LIGHTING IN CORRIDOR AND COMMON AREAS HAS BEEN DESIGNED TO MAINTAIN A MINIMUM OF 1 FOOT CANDLE IN THE PATH OF EGRESS TO BUILDING EXIT DUI HOURS.
- 4. ALL TESTS REPORTS TO BE PROVIDED PRIOR TO OCCUPANCY.
- A. CONTROLS INSTALLED TO OVERRIDE LIGHTING IN THE AUTOMATIC DAYLIGHT ZONES SHALL ALLOW THE LIGHTS TO REMAIN ON FOR NO MORE THEN 2 HOURS INTIATED.
- B. MEASURE AVERAGE LIGHT LEVELS FOR DAYLIGHT SENSORS 2'-6" A.F.F. C. DAYLIGHT SENSORS TO BE SET AT NIGHT AND DAY. PROVIDE TEST REPORT FOR EACH SPACE.
- 5. PRIMARY AND SECONDARY DAYLIGHTING ZONES AS REQUIRED BY CODE. PROVIDE LOW VOLTAGE DIMMING DAYLIGHT SENSOR FOR EACH DAYLIGHT ZONE, EITH MULTIZONE. REFER TO LIGHTING DRAWINGS FOR LOCATIONS OF DAYLIGHTING ZONES.
- A. PRIMARY DAYLIGHTING ZONE DAYLIGHTING ZONE EXTENDS TO INTERIOR OF SPACE EQUAL DISTANCE TO HEAD HEIGHT OF WINDOW AND 2'-0" TO EITHER S B. SECONDARY DAYLIGHTING ZONE - DAYLIGHTING ZONE EXTENDS TO INTERIOR OF SPACE EQUAL DISTANCE TO TWICE HEAD HEIGHT OF WINDOW AND 2'-0" TH OPENING.
- 6. CONTRACTOR TO VERIFY NUMBER OF RELAYS AND ROOM CONTROLLERS REQUIRED IN EACH SPACE. CONTRACTOR TO LOCATE ROOM CONTROLLERS ABOVE A SAME GENERAL LOCATION IN EACH ROOM FOR EASY MAINTENANCE. FOR ROOMS WITH HARD LID CEILINGS, LOCATE ABOVE NEAREST ADJACENT ACCESSIBLE C
- 7. OCCUPANCY SENSORS ARE TO BE PROVIDED WITH DUAL HARD CONTACTS. COORDINATE WITH DIV. 23 FOR USE OF AUX CONTACTS FOR UNOCCUPIED HOUR SE LIGHTING OCCUPANCY SENSORS FOR DIV. 23 CONTROLS.

#### FUNCTIONAL REQUIREMENTS

PROVIDE CONTROLS THAT MEET THE FUNCTIONAL REQUIREMENTS LISTED BELOW UNLESS NOTED OTHERWISE. IT IS THE RESPONSIBILITY OF THE LIGHTING CONTROLS PROVIDE ALL EQUIPMENT, DEVICES, INTERCONNECTS, AND PROGRAMMING NECCESSARY TO PROVIDE THE FUNCTIONAL REQUIREMENTS LISTED. PLEASE NOTE THAT NO COMPONENTS MAY BE SHOWN ON PLANS OR DETAILS, THE COMPONENTS SHOWN ON PLANS AND DETAILS ARE SHOWN TO AID IN ARCHITECTURAL COORDINATION (E.G. OF LOCAL CONTROLLERS) AND TO AID IN COMMUNICATING WHICH SPACES NEED SENSORS ONLY). THE EXACT QUANTITIES, LOCATIONS, AND MODELS/TYPES OF ALL NEW TO MEET THE LISTED FUNCTIONAL REQUIREMENTS IS TO BE DETERMINED BY THE VENDOR/MANUFACTURER OF THE LIGHTING CONTROLS PACKAGE.

1. CIRCULATION SPACES (E.G. CORRIDORS, ELEVATOR LOBBIES, VESTIBULES)

AUTOMATIC-ON/AUTOMATIC-OFF DIMMING CONTROL VIA CEILING-MOUNTED OCCUPANCY SENSOR(S). WHILE SPACE IS OCCUPIED, LOCAL LIGHTING SHALL PROV ILLUMINATION. DIM LIGHT LEVELS DOWN TO 30% AFTER NO OCCUPANCY HAS BEEN DETECTED FOR 20 MINUTES. UNLESS OTHERWISE NOTED OR SHOWN ON PL CONTROL ZONE FOR THE LUMINAIRES WITHIN THE SPACE. PROVIDE TWO-HOUR LOCAL OVERRIDE CONTROL FOR EACH CONTROL ZONE (ON/OFF/RAISE/LOWER)

A. EXCEPTION: STAIRWELLS

a. LIGHTING WITHIN STAIRWELLS SHALL PROVIDE 50% OUTPUT WHEN NO OCCUPANCY IS DETECTED AND 100% OUTPUT WHEN OCCUPANCY IS DETECTED. b. DO NOT PROVIDE LOCAL OVERRIDE CONTROL FOR SAFETY PURPOSES.

- 2. ELECTRICAL AND MECHANICAL ROOMS (INCLUDES ELEVATOR CONTROLS ROOM AND WATER SPRINKLER ROOMS) MANUAL-ON/MANUAL-OFF LINE-VOLTAGE TOGGLE SWITCH CONTROL FOR SAFETY OF MAINTENANCE PERSONNEL.
- 3. EDUCATION SPACES (E.G. CLASSROOMS, YOUTH PROGRAM, BREAKOUT, ETC.)
- A. AUTOMATIC-ON/AUTOMATIC-OFF AND DIMMING CONTROL VIA LIGHTING CONTROL PANEL WITH TIME CLOCK (LIGHTING CONTROL PANEL IS SHOWN IN THE EL
- PLANS), AND LOCAL OVERRIDE CONTROLLER(S). B. LIGHTING CONTROL PANEL SHALL BE USER-PROGRAMMABLE, ALLOWING THE USER TO SCHEDULE EVENTS AND THE ASSOCIATED LIGHTING OUTPUT FOR TH CONTROL PANEL (EXPECTED EVENTS ARE "DAY" AND "NIGHT"). ALL COMPONENTS NEEDED FOR USER PROGRAMMABILITY SHALL BE INCLUDED IN THE LIGHT (I.E. THE USER SHALL NOT BE REQUIRED TO USE ANY OWNER FURNISHED EQUIPMENT TO ADJUST THE SCHEDULES AND OUTPUTS OF CONTROLLED ZONES) C. UNLESS OTHERWISE NOTED OR SHOWN ON PLANS, PROVIDE A DEDICATED CONTROL ZONE FOR EACH LUMINAIRE TYPE WITHIN THE SPACE.
- D. PROVIDE TWO-HOUR LOCAL OVERRIDE CONTROL FOR EACH CONTROL ZONE (ON/OFF/RAISE/LOWER).

#### 4. <u>RESTROOMS</u>

MANUAL-ON/AUTOMATIC-OFF SWITCHED CONTROL VIA LOCAL COMBINATION OCCUPANCY-SENSING/WALL-SWITCH. UNLESS OTHERWISE NOTED OR SHOWN ON CONTROL ZONE FOR THE LUMINAIRES WITHIN THE SPACE.

#### 5. <u>EXTERIOR</u>

- A. AUTOMATIC-ON/AUTOMATIC-OFF AND DIMMING CONTROL VIA LIGHTING CONTROL PANEL WITH TIME CLOCK (LIGHTING CONTROL PANEL IS SHOWN IN THE ELI AND EXTERIOR DAYLIGHT SENSOR.
- B. LIGHTING CONTROL PANEL SHALL BE USER-PROGRAMMABLE, ALLOWING THE USER TO SCHEDULE EVENTS AND THE ASSOCIATED LIGHTING OUTPUT FOR TH CONTROL PANEL. ALL COMPONENTENTS NEEDED FOR USER PROGRAMMABILITY SHALL BE INCLUDED IN THE LIGHTING CONTROLS PACKAGE (I.E. THE USER TO USE ANY OWNER FURNISHED EQUIPMENT TO ADJUST THE SCHEDULES AND OUTPUTS OF CONTROLLED ZONES).
- C. UNLESS OTHERWISE NOTED OR SHOWN ON PLANS, PROVIDE A DEDICATED CONTROL ZONE FOR EACH LUMINAIRE TYPE.
- D. PROVIDE EXTERIOR DAYLIGHT SENSOR ON ROOF FOR AUTOMATIC DAYLIGHT RESPONSIVE DIMMING. E. INITIAL EXTERIOR LIGHTING PROGRAMMING SHALL MATCH THE FOLLWING INTENT:
- 1. BUILDING MOUNTED LIGHTING
- a. TIMECLOCK SCHEDULE CONTROL (CONFIRM WITH OWNER)
- 1. DUSK ON TO 100%
- 2. 12AM DIM TO 50%
- 3. 4AM ON TO 100% 4. DAWN - OFF
- b. <u>EXCEPTION: PRIVATE UNIT PORCHES:</u> MANUAL-ON/MANUAL-OFF LINE-VOLTAGE TOGGLE SWITCHES WITHIN UNITS.
- 2. SITE LIGHTING
- a. TIMECLOCK SCHEDULE CONTROL (CONFIRM WITH OWNER) 1. DUSK - ON TO 100%
- 2. 12AM DIM TO 50%
- 3. 4AM ON TO 100%
- 4. DAWN OFF
- 1. <u>RESIDENTIAL UNITS</u>

MANUAL-ON/MANUAL-OFF LINE-VOLTAGE TOGGLE SWITCHES. PROVIDE 3-WAY AND 4-WAY SWITCHES IF INDICATED ON PLANS.

#### 2. OTHER SPACES NOT PREVIOUSLY LISTED

MANUAL-ON/MANUAL-OFF DIMMING CONTROL VIA LOCAL WALL-MOUNTED CONTROLLER(S) AND CEILING-MOUNTED OCCUPANCY SENSOR(S). PROVIDE A DEDICATION CONTROL VIA LOCAL WALL-MOUNTED CONTROLLER(S) AND CEILING-MOUNTED OCCUPANCY SENSOR(S). EACH LUMINAIRE TYPE IN THE SPACE. PROVIDE EACH CONTROL ZONE WITH ON/OFF/RAISE/LOWER CONTROL VIA THE LOCAL WALL-MOUNTED CONTROLLER(S).

#### 3. DAY LIGHT ZONES

- A. WHERE DAYLIGHT ZONES ARE IDENTIFIED ON PLANS, PROVIDE AUTOMATIC DAYLIGHT RESPONSIVE DIMMING VIA LOCAL DAYLIGHT SENSOR(S). WHEN "ON", / 1. NO CONTRIBUTING AMBIENT LIGHT IN A DAYLIGHT ZONE, LUMINAIRES WITHIN THE DAYLIGHT ZONE SHALL MIMIC THE BEHAVIOR OF SIMILAR LUMINAIRES
- THAT ARE NOT IN THE DAYLIGHT ZONE. 2. CONTRIBUTING AMBIENT LIGHT IN A DAYLIGHT ZONE, LUMINAIRES WITHIN THE DAYLIGHT ZONE SHALL AUTOMATICALLY DIM TO CONTRIBUTE ONLY THE I REACH THE SPECIFIED DESIRED LIGHT LEVEL FOR THAT SPACE.
- B. AUTOMATIC DAYLIGHT RESPONSIVE DIMMING MAY CAUSE THE ADDITION OF CONTROL ZONES THAT ARE NOT SPECIFICALLY IDENTIFIED ELSEWHERE IN THIS ZONES, PROGRAMMING, AND ALL COMPONENTS SHALL BE ADDED AS NEEDED TO ACCOUNT FOR DAYLIGHT ZONES.

#### 4. EGRESS LIGHTING

- A. EGRESS LUMINAIRES SHALL TYPICALLY MIMIC THE BEHAVIOR OF SIMILAR GENERAL LUMINAIRES WITHIN THE SAME SPACE, WITH THE EXCEPTIONS THAT FOLLOW IN THIS SECTION.
- B. PROVIDE EGRESS LUMINAIRES WITH UL924 RELAYS AND CONTROLS SUCH THAT WHEN NORMAL POWER IS NOT PRESENT, EGRESS LUMINAIRES ILLUMINATE WITH FULL OUTPUT, AND WHEN NORMAL POWER IS PRESENT, EGRESS LUMINAIRES BEHAVE AS NORMAL LUMINAIRES WITHIN THE SAME LIGHTING CONTROL SPACE.
- C. EGRESS CONTROL REQUIREMENTS ABOVE MAY REQUIRE THE ADDITION OF EGRESS SPECIFIC LIGHTING CONTROL ZONES THAT ARE NOT EXPLICITLY IDENTIFIED ON PLANS. E.G. A CORRIDOR WITH GENERAL AND EGRESS LIGHTING MAY NEED A DEDICATED CONTROL ZONE TO ENSURE EGRESS LIGHTING DOES NOT DIM BELOW ALLOWABLE EGRESS ILLUMINATION LEVELS. PROVIDE ADDITIONAL CONTROL ZONES AS REQUIRED.

	TAG	DESCRIPTION	LAMP	COLOR         MANUFACTURER         MODEL				
AT MEETS THE CONTROL TROL EQUIPMENT, DEVICES, ACTOR SHALL SUBMIT SHOP INEER, ARCHITECT, AND	BA1	4-FEET LED LINEAR STRIPLIGHT FOR BACK OF HOUSE USE	LED	<b>TEMP</b> 3500K	COOPER METALUX	SNLED		
IGN DOCUMENTATION. RM TIME DELAY SETTINGS	BA2	SAME AS BA1 EXCEPT WITH HIGHER OUTPUT.	LED	3500K	COOPER METALUX	SNLED		
	DA1	10-INCH HEIGHT BY 8-INCH WIDTH BY 4-INCH DEPTH LED WALL MOUNTED SCONCE	LED	3000K	KUZCO	601471 LED		
URING REGULAR OCCUPIED	E1 FA1	WALL-MOUNT EMERGENCY BUGEYE. 5-INCH DIAMETER LED SURFACE MOUNTED DOWNLIGHT	LED	5000K 3000K	LITHONIA WAC	ELM6L FM 05RN		
				30001	WAG			
JRS WHEN THE OVERRIDE IS	FB1	11-INCH LED SURFACE MOUNTED DOWNLIGHT	LED	3000K	WAC	FM 11RN		
THER SINGLE ZONE OR	HA1	8-FOOT LED SUSPENDED LINEAR	LED	3500K	PINNACLE	EDGE EX3D		
R SIDE OF WINDOW OPENING. TO EITHER SIDE OF WINDOW	HA2	12-FOOT LED SUSPENDED LINEAR	LED	3500K	PINNACLE	EDGE EX3D		
E ACCESSIBLE CEILING IN CEILING. SETBACKS AND USE OF	HA3	18-FOOT LED SUSPENDED LINEAR	LED	3500K	PINNACLE	EDGE EX3D		
	RA1	2-FEET BY 2-FEET LED RECESSED TROFFER	LED	3500K	COOPER METALUX	CGT LED		
LS CONTRACTOR TO NOT ALL NECESSARY .G. PREFERRED LOCATIONS NECESSARY COMPONENTS	RB1	4-INCH DIAMETER LED RECESSED DOWNLIGHT	LED	3500K	WAC	POP IN 4		
DVIDE 15FC AVERAGE OF PLANS, PROVIDE ONE	SA1	SINGLE HEAD LED POLE FIXTURE WITH TYPE III MEDIUM DISTRIBUTION AND HOUSE-SIDE SHIELD; MOUNTED ON 20' POLE.	LED	3000K	LITHONIA	D SERIES SIZE 0		
R). D.	SB1	CIRCULAR INDIRECT LED POST-TOP WITH SOFT GLARE TYPE V SYMMETRIC OPTICS; MOUNTED ON 10' POLE.	LED	3000K	LITHONIA	RADEAN POST TOP		
	SB2	SAME AS SB1 EXEPT WITH TYPE III PATHWAY OPTICS.	LED	3000K	LITHONIA	RADEAN POST TOP		
ELECTRICAL ROOM ON	SC1	LED WALL MOUNTED SCONCE	LED	3000K	EATON INVUE	ENTRI LED		
THE EVENTS AT THE HTING CONTROLS PACKAGE S).	SD1	4-INCH DIAMETER LED RECESSED DOWNLIGHT; WET LOCATION RATED.	LED	3000K	USAI	B4RD		
N PLANS, PROVIDE ONE	SE1	4-FOOT SURFACE-MOUNT LED STRILIGHT; WET LOCATION RATED.	LED	3000K	LITHONIA	FEM LED		
ELETRICAL ROOM ON PLANS)	UA1	5-INCH DIAMETER LED SURFACE MOUNTED DOWNLIGHT	LED	3000K	WAC	I CAN'T BELIEVE IT'S NOT RECESSED		
THE EVENTS AT THE R SHALL NOT BE REQUIRED	UB1	9-INCH DIAMETER LED SURFACE MOUNTED DOWNLIGHT	LED	3000K	WAC	SLICE		
	UC1	2-FOOT WALL-MOUNT LED VANITY LUMINAIRE.	LED	3000K	WAC	TURBO		
	WA1	4-FEET WALL MOUNTED LED LINEAR TO BE USED IN STAIRCASES	LED	3500K	LITHONIA	WL4		
	WB1	LED WALL MOUNTED VANITY SCONCE	LED	3000K	KUZCO	VL61236		
	WS1	5-INCH BY 5-INCH LED EXTERIOR WALL SCONCE.	LED	3000K	TECH LIGHTING	PITCH		
	X1	RECESSED OR SURFACE MOUNT EDGE-LIT LED EXIT SIGN.	LED	GREEN	LITHONIA	EDG		
CATED CONTROL ZONE FOR		NISH ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSOR URES SHALL BE CONFIRMED WITH THE ARCHITECT PRIOR TO ROUGHI		JOB REQUIR	EMENTS. VERIFY FIXTURE	E MOUNTING AND LOC		
', AND THERE IS:	B. SERI C. ALL F	ES FIXTURES SHALL SATISFY LENGTHS AS SHOWN ON THE DRAWINGS FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, IN	s. Fixture L Idependent	OF HUNG CE				
ES IN THE SAME SPACE/ROOM	D. ALL F	CONFIRMED BY OWNER, ARCHITECT AND ENGINEER PRIOR TO ORDEF FLUORESCENT TUBE LAMPS SHALL USE INSTANT START BALLASTS UN AABLE BALLAST SHALL BE COMPATIBLE WITH LAMPS AND DIMMEDS			). ALL AREAS UTILIZING O	CCUPANCY SENSORS		
E NECESARY OUTPUT TO	E. ALL I	/IABLE BALLAST SHALL BE COMPATIBLE WITH LAMPS AND DIMMERS. LIGHT FIXTURES ARE TO BE PROVIDED BY SPECIFIED MANUFACTURER EARANCE TO THE SPECIFIED EQUIPMENT.	R OR APPRO	/ED EQUAL. "	ALTERNATE MANUFACTU	RER" AND "OR APPRO\		
IIS PACKAGE. CONTROL	F. CON CON	TRACTOR SHALL PROVIDE AND INSTALL ALL TRANSFORMERS AND/OR TRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF COMPATIBIL	ITY BETWEE					
OLLOW IN THIS SECTION.	G. CON	INEER CONSULTANT OF ANY INCOMPATIBILITY PRIOR TO ORDERING E TRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE COORDINATIC FIXTURES SHALL USE LAMPS OF COLOR TEMPERATURE 3500K WHEN A	ON OF ALL LIC			VICES WITH CEILING A		

G. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE COORDINATION OF ALL LIGHTING EQUIPMENT AND CONTROL DEVICES WITH CEILING AND WALL TYPES SPECIFIED PRIOR TO ORDERING LIGHTING EQUIPMENT. H. ALL FIXTURES SHALL USE LAMPS OF COLOR TEMPERATURE 3500K WHEN AVAILABLE UNLESS OTHERWISE NOTED. I. PRELIMINARY AIMING OF ALL ADJUSTABLE LIGHTING EQUIPMENT SHALL BE DONE DURING INSTALLATION BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE LIGHTING PLANS / AIMING DIAGRAM. WHERE SUCH A DIAGRAM IS INCLUDED IN

4

CONTRACT DOCUMENTS OR AS AN ADDENDUM. FINAL AIMING OF ALL ADJUSTABLE LIGHTING EQUIPMENT SHALL BE DONE BY THE ELECTRICAL CONTRACTOR AS DIRECTED BY THE ARCHITECT. J. IN ALL FIXTURES WITH ADJUSTABLE SOCKETS, SET SOCKETS DURING INSTALLATION TO LOCATE SPECIFIED LAMP IN CORRECT RELATIONSHIP TO REFLECTOR AS RECOMMENDED BY FIXTURE MANUFACTURER. K. LIGHT FIXTURE COUNTS INDICATED ARE FOR COORDINATION AND CALCULATION PURPOSES ONLY AND SHOULD NOT BE USED FOR PRICING OR PURCHASING. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE QUANTITIES OF FIXTURES AND ACCESSORIES TO HAVE A COMPLETE INSTALLATION OF ALL LIGHTING SYSTEMS.

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E				
POWER SUPPLY	VOLTAGE	LOAD	MOUNTING	COMMENTS
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	31.0 W	SURFACE	FINISH TBD BY ARCHITECT; CONTRACTOR SHALL COORDINATE WITH FIELD CONDITIONS AND PROVIDE REQUIRED ACCESSORIES FOR SURFACE, PENDANT OR WALL MOUNT
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	41.0 W	SURFACE	FINISH TBD BY ARCHITECT; CONTRACTOR SHALL COORDINATE WITH FIELD CONDITIONS AND PROVIDE REQUIRED ACCESSORIES FOR SURFACE, PENDANT OR WALL MOUNT
INTEGRAL LOW VOLTAGE DIMMING DRIVER	120 V	8.0 W	WALL	FINISH TBD BY ARCHITECT
	120 V	11.0 W	WALL	
INTEGRAL LOW VOLTAGE DIMMING DRIVER	120 V	12.0 W	SURFACE	FINISH TBD BY ARCHITECT
INTEGRAL LOW VOLTAGE DIMMING DRIVER	120 V	28.0 W	SURFACE	FINISH TBD BY ARCHITECT
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	60.0 W	PENDANT	FINISH TBD BY ARCHITECT; COORDINATE EXACT PLACEMENT HEIGHT WITH ARCHITECTURAL DRAWINGS AND DETAILS
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	90.0 W	PENDANT	FINISH TBD BY ARCHITECT; COORDINATE EXACT PLACEMENT HEIGHT WITH ARCHITECTURAL DRAWINGS AND DETAILS
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	135.0 W	PENDANT	FINISH TBD BY ARCHITECT; COORDINATE EXACT PLACEMENT HEIGHT WITH ARCHITECTURAL DRAWINGS AND DETAILS
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	32.0 W	RECESSED	
INTEGRAL LOW VOLTAGE DIMMING DRIVER	120 V	12.0 W	RECESSED	FINISH TBD BY ARCHITECT
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	38.0 W	POLE	FINISH TBD BY ARCHITECT
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	56.0 W	GRADE	FINISH TBD BY ARCHITECT
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	56.0 W	GRADE	FINISH TBD BY ARCHITECT
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	21.0 W	WALL	FINISH TBD BY ARCHITECT
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	16.0 W	RECESSED	
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	18.0 W	SURFACE	
INTEGRAL LOW VOLTAGE DIMMING DRIVER	120 V	12.0 W	SURFACE	FINISH TBD BY ARCHITECT
INTEGRAL LOW VOLTAGE DIMMING DRIVER	120 V	12.0 W	SURFACE	FINISH TBD BY ARCHITECT
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	32.0 W	WALL	
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	29.0 W	WALL	FINISH TBD BY ARCHITECT
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	40.0 W	WALL	FINISH TBD BY ARCHITECT
INTEGRAL ELECTRONIC DIMMING DRIVER	120 V	26.0 W	WALL	FINISH TBD BY ARCHITECT
	120 \/	3.0.W		

DCATION AGAINST ARCHITECTS PLANS, ELEVATIONS AND DETAIL DRAWINGS. EXACT LOCATION OF ALL RES SHALL BE TYPICAL FOR THAT ROW UNLESS OTHERWISE NOTED.

WALL

STEM LENGTHS, STEM FINISHES AND STEM LOCATIONS OF ALL PENDANT FIXTURES TO BE VERIFIED

RS FOR CONTROL SHALL UTILIZE PROGRAMMED START ELECTRONIC FLUORESCENT BALLASTS. ROVED EQUAL" MEAN EQUIVALENT OR SUPERIOR IN PERFORMANCE, MATERIALS, WORKMANSHIP AND

REMOTE BALLAST'S AND/OR TRANSFORMERS AND THE ENCLOSURES FOR SAME. ELECTRICAL

SPECIFIED, AND DIMMING AND OTHER CONTROL DEVICES SPECIFIED. NOTIFY ARCHITECT AND

120 V 3.0 W

	A	UTURE PHASE
engine 1601 Fi Seattle, www.glu T. 206.2 Project Job. No	A BAKER H	IPANY future <sup>™</sup> enn
BUIL BUIL BUIL EVEF OWNER EVEF 3107	CT ADDRESS: DING A: 2710 14 DING B: 2715 15 DING C: 2815 15 DING D: 2810 14 RETT, WA 98201 R: RETT HOUSING COLBY AVE RETT, WA 98201	OTH STREET OTH STREET OTH STREET
MARK	DATE DESCR	IPTION
	80%	DING PERMIT SUBMITTAL HUD SUBMITTAL GN DEVELOPMENT
C B A	01/07/2020 SCHE	EMATIC DESIGN

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				MEP	P CO	ORD	INAT	ON	SCH	EDULE				
EQUIPMENT DESIGNATION	AREA SERVED			ELECTRICAL DATA			STANDBY	CONTRO STANDBY /STARTE				FEEDER SIZE		NOTES
DESIGNATION		HP	VOLT	PHASE	AMPS	KVA	PWR (Y/N)	DIV.23	DIV.26	DIV.23 DIV.26	SIZE	CONDUCTOR	CONDUIT	
LEF-X.X	RESIDENTIAL UNITS	0.1	120	1	1.12	0.13	N			Х	20	2 #12 & 1#12G	1/2"	NOTE 2
TEF-X.X	RESIDENTIAL UNITS	0.1	120	1	1.12	0.13	N			X	20	2 #12 & 1#12G	1/2"	NOTE 2
REF-X.X	RESIDENTIAL UNITS	0.1	120	1	1.12	0.13	N			X	20	2 #12 & 1#12G	1/2"	NOTE 2
EH-1.00	BLDG A STAIR 208		208	1	4.81	1.00	N	Х		X	20	2 #12 & 1#12G	1/2"	
EH-1.25	BLDG A STAIR 209		208	1	6.01	1.25	N	Х		X	20	2 #12 & 1#12G	1/2"	
EH-2.00	BLDG A STAIR 210		208	1	9.62	2.00	N	Х		X	20	2 #12 & 1#12G	1/2"	
EH-A	LIVING UNITS		208	1	4.81	1.00	N	Х		X	20	2 #12 & 1#12G	1/2"	
EH-B	LIVING UNITS		208	1	6.01	1.25	N	Х		X	20	2 #12 & 1#12G	1/2"	
EH-C	LIVING UNITS		208	1	9.62	2.00	N	Х		X	20	2 #12 & 1#12G	1/2"	
EH-D	LIVING UNITS		208	1	10.82	2.25	N	Х		X	20	2 #12 & 1#12G	1/2"	
ERV-1-1	OFFICE CONF.		208	1	7.10	1.48	N	VFD		X	20	2 #12 & 1#12G	1/2"	
ERV-1-2	OFFICE CONF.		208	1	7.10	1.48	N	VFD		X	20	2 #12 & 1#12G	1/2"	
ERV-1-3	OFFICE CONF.		208	1	7.10	1.48	N	VFD		X	20	2 #12 & 1#12G	1/2"	
ERV-2-1	CORRIDOR		120	1	2.00	0.24	N	VFD		X	20	2 #12 & 1#12G	1/2"	
ERV-2-2	CORRIDOR		120	1	2.00	0.24	N	VFD		X	20	2 #12 & 1#12G	1/2"	
ERV-3-1	CORRIDOR		120	1	2.00	0.24	N	VFD		X	20	2 #12 & 1#12G	1/2"	
ERV-3-2	CORRIDOR		120	1	2.00	0.24	N	VFD		X	20	2 #12 & 1#12G	1/2"	
ERV-4-1	CORRIDOR		120	1	2.00	0.24	N	VFD		X	20	2 #12 & 1#12G	1/2"	
ERV-4-2	CORRIDOR		120	1	2.00	0.24	N	VFD		X	20	2 #12 & 1#12G	1/2"	
HP-1 (CU-1, CU-2)	1ST FLOOR HEAT PUMP		208	1	4.70	0.98	N	Х		X	20	2 #12 & 1#12G	1/2"	NOTE 1
CU-1	HEAT PUMP INDOOR UNIT		208	1	1.00	0.21	N	Х		X	20	2 #12 & 1#12G	1/2"	NOTE 1
CU-2	HEAT PUMP INDOOR UNIT		208	1	1.00	0.21	N	Х		X	20	2 #12 & 1#12G	1/2"	NOTE 1
FCU-1-1	1ST FLOOR FAN COIL		208	1	2.70	0.56	N	Х		X	20	2 #12 & 1#12G	1/2"	
FCU-1-2	1ST FLOOR FAN COIL		208	1	2.70	0.56	N	Х		X	20	2 #12 & 1#12G	1/2"	
FCU-1-3	1ST FLOOR FAN COIL		208	1	2.70	0.56	N	Х		X	20	2 #12 & 1#12G	1/2"	
FCU-1-4	1ST FLOOR FAN COIL		208	1	2.70	0.56	N	Х		X	20	2 #12 & 1#12G	1/2"	
FCU-1-5	1ST FLOOR FAN COIL		208	1	2.70	0.56	N	Х		X	20	2 #12 & 1#12G	1/2"	
FCU-1-6	1ST FLOOR FAN COIL		208	1	2.70	0.56	N	Х		X	20	2 #12 & 1#12G	1/2"	
FCU-1-7	1ST FLOOR FAN COIL		208	1	2.70	0.56	N	Х		X	20	2 #12 & 1#12G	1/2"	
FCU-1-8	1ST FLOOR FAN COIL		208	1	2.70	0.56	N	Х		X	20	2 #12 & 1#12G	1/2"	
FCU-1-9	1ST FLOOR FAN COIL		208	1	2.70	0.56	N	Х		X	20	2 #12 & 1#12G	1/2"	
FCU-2-1	2nd FLOOR FAN COIL		208	1	2.70	0.56	N	Х		X	20	2 #12 & 1#12G	1/2"	
FCU-2-2	2nd FLOOR FAN COIL		208	1	2.70	0.56	N	Х		X	20	2 #12 & 1#12G	1/2"	
FCU-2-3	2nd FLOOR FAN COIL		208	1	2.70	0.56	N	Х		X	20	2 #12 & 1#12G	1/2"	
BC-1	CONTROL POWER		208	1	0.80	0.17	N	Х		X	20	2 #12 & 1#12G	1/2"	
GWH-4.1	GAS WATER HEATER		120	1	5.00	0.60	N	Х			20	2 #12 & 1#12G	1/2"	
GWH-4.2	GAS WATER HEATER		120	1	5.00	0.60	N	X			20	2 #12 & 1#12G	1/2"	
EWH-B	ELECTRIC WATER HEATER		208	1	30.00	6.24	N	X			60	2 #6 & 1#10G	3/4"	
EWH-C	ELECTRIC WATER HEATER		208	1	30.00	6.24	N	X			60	2 #6 & 1#10G	3/4"	
EWH-C	ELECTRIC WATER HEATER		208	1	30.00	6.24	N	X			60	2 #6 & 1#10G	3/4"	
HWCP-4.1	CIRC PUMP	0.1	120	1	1.12	0.13	N	X		X	20	2 #12 & 1#12G	1/2"	
	1. PROVIDE SINGLE CONNECTION TO	-												

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2. RESIDENTIAL	UNITS FANS	, LEF - LAUNDRY F	ANS,
2.1120102111/1			/

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CONTROL AREA					0	ONTROL TYPE				_
	Second Second	2		SENSOR			DAYLIGHT	Carries .		1
TYPE	ZONE CONTROL	TYPE	QUANTITY	ON OPERATION	OFF OPERATION	TIMEOUT	CONTROL	DIMMING	WALLBTATION(5)	EME
OFFICE		VACANCY	AS REQUIRED FOR COMPLETE COVERAGE	MANUAL ON @ 100% OUTPUT	ALITOMATIC OFF	15 MINUTES	·	YES	2-BUTTON + RAISELOWER	15
OPEN OFFICES		GCOPANCY	AS REQUIRED FOR COMPLETE ODVERAGE ZONED BY AN AREA OF 250FT <sup>C</sup> OR LESS	AUTOMATICE ON @50% OUTPUT MANUAL OVERRIDE @ 100% DUTPUT	AUTCMATIC OFF	15 MINUTES		753	4-BUTTON, 1 PER ENTRY POINT TO CONTROL ALL LIGHTING, TOP BUTTON - ALL ON, SECOND BUTTON - DIM (ALL ON 60% POWER), THIRD BUTTON - TASK (GENERAL LIGHT ON 100%, WALLWASHERS OFF), FOURTH BUTTON - ALL OFF	
COMPUTER LAR		VACANES	AS REQUIRED FOR COMPLETE COVERAGE	MANUAL ON @ 100% DUTPOT	ALITOMATIC OFF	11 MINUTES		WES	2-BUTTON + RAISEALOWER	11
CONFERENCE ROOM		VACANER	ÁS REQUIRED FOR COMPLETE COVERAGE	MANUAL ON @ 100% OUTPUT	AUTOMATIC OFF	15 MINUTES		VES	4-BUTTON SCENE CONTROL. TOP BUTTON - ALL ON. SECOND BUTTON - PRESENT (GENERAL LIGHTS ON 50%, WALLWASHERS ON FULL OUTPUT), THIRD BUTTON - TASK (GENERAL LIGHT ON 100%, WALLWASHERS OFF), FOURTH BUTTON - ALL OFF	
ELEVAJOR LOBBY		TIME GLOCK		DAYTIME - SCHEDULE ON 100% OUTPUT, LATE NIGHT -AUTOMATIC DIMMING DOWN TO 50% OUTPUT	HOUDAY SHUT OFF' PROGRAM			YES	2-BUTTON + RAISE/LOWER OVERRIDE SWITCH AT BECUED PLACE	
BREAK ROOM		VACANCY	AS REQUIRED FOR COMPLETE	MANUAL ON @ 100% OUTPUT	AUTOMATIC DFF	15 MINUTES		YES	2 BUTTON + RAISEADWER	
LAUNDRY			MUVERAGE		and the second sec			1		15
ELEVATOR MACHINE ROOM			And the second sec	the second se			1.1.1.1			2.1
MAINTENANCE		DEGUPANCY	AS REQUIRED FOR COMPLETE COVERAGE	AUTOMATIC ON @ 50% OUTPUT	AUTOMATIC OFF	15 MINUTES		YES	2-BUTTON, OVERRIDE SWITCH TO TURN ON 100% OUTPUT AND DEF	REFE
TELECOM ROOM					the second se	1.1	WHERE REQUIRED	10.1		ZO
MECH, ROOMWATER ENTRY RM	REFER TO PLANS FOR KEYED ZONING BY						BY ENERGY CODE (SEE LIGHTING	1		LET
RESTROOM	LOWERCASELETTER	GOOUPANCY	AS REQUIRED FOR COMPLETE COVERAGE	AUTOMATIC ON & 100% OUTPUT	AUTOMATIC OFF	IS MINUTES	(PLANS)	YES	MANUAL OVERRIDE AT ENTRY DOOR	OPERA OUT LOSS
STAIRWELL		DOCUPANCY	AS REQUIRED FOR COMPLETE COVERAGE	AUTOMATIC ON @ 100% OUTPUT	AUTOMATIC DIM DOWN TO 60% QUTPUT	15 MINUTES		VES	NO	P
COMMON AREA & ECEAP		TIME GEOGN		DAY TIME - SCHEDULED ON; LATE NIGHT - OVERRIDE SWITCH MANUAL ON @100% FOR 2-HOUR	DAY TIME - SCHEDULED OFF LATE NIGHT - 2-HOURS TIMEOUT DFF			YES	TIME CLOCK CONTROL (DAYTIME - PRESET SCENE, LATE NIGHT - GENERAL LIGHTING ALONG CIRCULATION ON 50%). 4-BUTTON SCENE CONTROL KEYPAD AT ENTRY. TOP BUTTON - ALL ON (100% LIGHTS ON), SECOND BUTTON - EVENT (GENERAL LIGHTS ON 50%) PANTRY LIGHTS ON 50%, DECORATIVE / ARTWORK / NOOK LIGHTS ON 100%), THIRD BUTTON - AFTER HOURS (GENERAL LIGHT ON 50%, PANTRY LIGHTS ON 50%, WALLWASHERS OFF, DECORATIVE OFF), FOURTH BUTTON - ALL OFF	
EXTERIOR BUILDING MOUNT										1
EXTERIOR SITE LIGHT		TIME CLOCK		DUSK - 100% OUTPUT ON 4AM - 100% OUTPUT ON	12AM + IJFF DÁWN - DFF			191	2-BUTTON, OVERRIDE SWITCH TO TURN ON ON AND OFF	
EXTERIOR AMENITY								12.7		
ELECTRICAL ROOM		The second	AS REQUIRED FOR COMPLETE	in all all	THINK ST			Cont		
ELEVATOR PIT AND SHAFT		NO	COVERAGE	MANUAL ON	MANUALOPT			NO	LINE VOLTAGE SWITCH ON/OFF	. · · ·
RESIDENTIAL UNIT		NO	AS REQUIRED FOR COMPLETE COVERAGE	MANUAL DN	MANUAL OFF		I made II	ŃS	SINGLE, 3 OR 4-WAY LINE VOLTAGE	0
STORAGE JANITOR	1	VADANCY	AS REQUIRED FOR COMPLETE COVERAGE	MANUAL ON @ 100%, OUTPUT	AUTOMATIC OFF	15 MINUTES		NO	2 BUTTON (DN/DFF)	

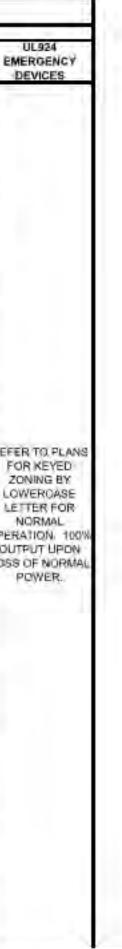
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**NOTES:** 1. PROVIDE SINGLE CONNECTION TO HEAT PUMP AND PROVIDE 2#12AWG+#12G IN 1/2"C BETWEEN HEAT PUMP AND CU.

S, TEF - RESTROOM FANS, REFER TO RESIDENTIAL PANEL SCHEDUEL FOR FAN TAG NUMBER.

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GGLO
1301 First Avenue, Suite 301 Seattle, WA 98101
http://www.gglo.com
A B C B
GLUMAC A TETRA TECH COMPANY

engineers for a sustainable future<sup>™</sup> 6 2 1601 Fifth Ave., Suite 2210 Seattle, WA 98101 www.glumac.com T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169

PROJECT:



PROJECT ADDRESS:

BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET **EVERETT, WA 98201** 

OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVE **EVERETT, WA 98201** 

MARK	DATE	DESCRIPTION
REVIS	SIONS	
С	06/08/2020	BUILDING PERMIT SUBMITT
		80% HUD SUBMITTAL
В	04/10/2020	DESIGN DEVELOPMENT
A	01/07/2020	SCHEMATIC DESIGN
MARK	DATE	DESCRIPTION
ISSU		IATION
		20170
PROJEC	AL IN CHARG	
	T MANAGER:	
OWNER	APPROVAL:	

MEP COORDINATION SCHEDULE

SHEET NO.

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BUILDING PERMI

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Unit Number	Unit Type	Unit Quantity	Avg. squre feet / per unit		circuits	Appliances Load Nameplate rating- (VA) - 220-82(B)(3)	Gross General Load- (VA) - 220-82(B)	FUTURE AC UNIT IN LIVING ROOM: (VA)- 220-82(C)(1)	Electric heat load: (VA)- 220-82(C)(4)	Largest Electric Heat and AC Load (VA) - 220-82(C)	EACH Dwelling Unit Load, Per 220-82: (VA)	EACH Dwelling Unit Load center @ (208V-1Ph): (A)	Multifamily Dwelling Service MS-RS Calculated - 220-84(C) (KVA)	DIVERSITY FACTOR (T220.84)	Residential Switchboard MS- RS NEC load (KVA)
BLDG A,B,C,D SUMMARY		105		230577	472500	2277570		152250	237500				3218	0.23	740.17
BULIDING A	ONE BED	41	606	74538	184500	739394	645372.8	51250	77900	51250	16990.8	82			
L			ŀ						-					TOTAL MS-RS LOAD:	740.17
BUILDING B	TWO BED	15	775	34875	67500	360510	275154	22500	36000	23400	19903.6	96	TOTAL MS-RS LOA	D CURRENT@208V/3ph:	2056 Amp
	THREE BED	3	996	8964	13500	72102	55826.4	6000	9000	6000	20608.8	99			
BUILDING C1	TWO BED	15	775	34875	67500	360510	275154	22500	36000	23400	19903.6	96			
BUILDING C2	TWO BED	8	788	18912	36000	192272	146873.6	12000	19200	12480	19919.2	96			
BUILDING D1	TWO BED	9	775	20925	40500	216306	165092	13500	21600	14040	19904	96			
	THREE BED	6	1010	18180	27000	144204	111754	12000	18000	12000	20626	99			
BULIDING D2	TWO BED	7	778	16338	31500	168238	128430	10500	16800	10920	19907	96			
	THREE BED	1	990	2970	4500	24034	18602	2000	3000	2000	20602	99			

Unit Number	Unit Type	Unit Quantity	Avg. squre feet / per unit	General Lighting Loads (3VA/sf): (VA) - 220-82(B)(1)	Small Appliance circuits (3)-1500VA - 220-82(B)(2)	Appliances Load Nameplate rating- (VA) - 220-82(B)(3)	Gross General Load- (VA) - 220-82(B)	FUTURE AC UNIT IN LIVING ROOM: (VA)- 220-82(C)(1)		Largest Electric Heat and AC Load (VA) - 220-82(C)	Unit Load, Per	EACH Dwelling Unit Load center @ (208V-1Ph): (A)	Multifamily Dwelling Service MS-RS Calculated - 220-84(C) (KVA)	DIVERSITY FACTOR (T220.84)	Residential Switchboard MS-RS NEC Ioad (KVA)
BLDG A SUMMARY		41	24846	74538	184500	739394		51250	77900				1076	0.28	301.37
1B1B	ONE BED	41	606	74538	184500	739394	645373	51250	77900	51250	16991	82		TOTAL MS-RS LOAD:	301
		·											TOTAL MS-RS LOAD	CURRENT@208V/3ph:	837 Amp

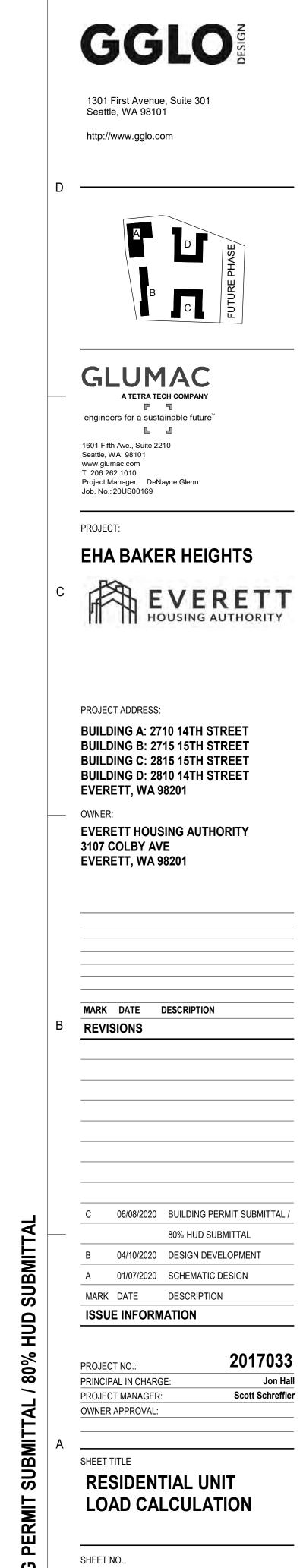
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Unit Number	Unit Type	Unit Quantity	Avg. squre feet / per unit	General Lighting Loads (3VA/sf): (VA) - 220-82(B)(1)	Small Appliance circuits (3)-1500VA - 220-82(B)(2)	Appliances Load Nameplate rating- (VA) - 220-82(B)(3)	Gross General Load- (VA) - 220-82(B)	FUTURE AC UNIT IN LIVING ROOM: (VA)- 220-82(C)(1)	Electric heat load: (VA)- 220-82(C)(4)	Largest Electric Heat and AC Load (VA) - 220-82(C)	Unit Load, Per	EACH Dwelling Unit Load center @ (208V-1Ph): (A)	Multifamily Dwelling Service MS-RS Calculated - 220-84(C) (KVA)	DIVERSITY FACTOR (T220.84)	Residential Switchboard MS-RS NEC Ioad (KVA)
BLDG B SUMMARY	SUMMARY	18	14613	43839	81000	432612		28500	45000	1	1	1	602	0.38	228.93
0B1B	TWO BED	15	775	34875	67500	360510	275154	22500	36000	23400	19904	96			
1B1B	THREE BED	3	996	8964	13500	72102	55826	6000	9000	6000	20609	99		TOTAL MS-RS LOAD:	229
													TOTAL MS-RS LOAD	CURRENT@208V/3ph:	636 Amp

Jnit Number	Unit Type	Unit Quantity	Avg. squre feet / per unit	General Lighting Loads (3VA/sf): (VA) - 220-82(B)(1)	Small Appliance circuits (3)-1500VA - 220-82(B)(2)	Appliances Load Nameplate rating- (VA) - 220-82(B)(3)	Gross General Load- (VA) - 220-82(B)	FUTURE AC UNIT IN LIVING ROOM: (VA)- 220-82(C)(1)	Electric heat load: (VA)- 220-82(C)(4)	Largest Electric Heat and AC Load (VA) - 220-82(C)	Unit Load, Per		Multifamily Dwelling Service MS-RS Calculated - 220-84(C) (KVA)	DIVERSITY FACTOR (T220.84)	Residential Switchboard MS-RS NEC Ioad (KVA)
BLDG C SUMMARY	SUMMARY-C1	15	11625	34875	67500	360510		22500	36000	1			499	0.40	199.55
	TWO BED	15	775	34875	67500	360510	275154	22500	36000	23400	19904	96			
														TOTAL MST-C1 LOAD:	200
													TOTAL MS-RS LOAD	CURRENT@208V/3ph:	554 Amp
			· · · · · · · · · · · · · · · · · · ·			•									
	SUMMARY-C2	8	6304	18912	36000	192272		12000	19200				266	0.43	114.55
	TWO BED	8	788	18912	36000	192272	146874	12000	19200	12480	19919	96			
														TOTAL MST-C2 LOAD:	115
-													TOTAL MS-RS LOAD	CURRENT@208V/3ph:	318 Amp

Unit Number	Unit Type	Unit Quantity	Avg. squre feet / per unit	General Lighting Loads (3VA/sf): (VA) - 220-82(B)(1)	Small Appliance circuits (3)-1500VA - 220-82(B)(2)	Appliances Load Nameplate rating- (VA) - 220-82(B)(3)	Gross General Load- (VA) - 220-82(B)	FUTURE AC UNIT IN LIVING ROOM: (VA)- 220-82(C)(1)	Electric heat load: (VA)- 220-82(C)(4)	Largest Electric Heat and AC Load (VA) - 220-82(C)	Unit Load, Per	EACH Dwelling Unit Load center @ (208V-1Ph): (A)	Multifamily Dwelling Service MS-RS Calculated - 220-84(C) (KVA)	DIVERSITY FACTOR (T220.84)	Residential Switchboard MS-RS NEC Ioad (KVA)
BLDG D SUMMARY	SUMMARY-D1	15	13035	39105	67500	360510		25500	39600	1	1	11	507	0.40	202.69
2B1B	TWO BED	9	775	20925	40500	216306	165092	13500	21600	14040	19904	96			
3B2B	THREE BED	6	1010	18180	27000	144204	111754	12000	18000	12000	20626	99		TOTAL MS-D1 LOAD:	203
													TOTAL MS-RS LOAD	CURRENT@208V/3ph:	563 Amp
	SUMMARY-D2	8	6436	19308	36000	192272		12500	19800				267	0.43	114.97
	TWO BED	7	778	16338	31500	168238	128430	10500	16800	10920	19907	96		1	
	THREE BED	1	990	2970	4500	24034	18602	2000	3000	2000	20602	99		TOTAL MS-D2 LOAD:	115
				· I					•				TOTAL MS-RS LOAD	CURRENT@208V/3ph:	319 Amp

	SIDENTIAL	LOAD CALCULATION	
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E-005

	Mol Bus F Main	JNTING: RATING: N AMPS:	600 A MLO		INTEC ISOL GRC FEED-TH	A RATING: Ty RAL SPD: No UND BAR: No RU LUGS: No			LOCATION: ELEC	TRICAL ROOM	104	
СКТ		POLE	SEE ONE LINE DIAGRAM DESCRIPTION	TYPE	A (kVA)	B (kVA)		TYPE	SUPPLY FROM: DESCRIPTION	POLE		Ск
1							• (				<u> </u>	2
3											<del> </del>	4
5												6
7											<u> </u>	8
9											<u> </u>	10
11												12
13												14
15												16
17												18
19												20
21											$\vdash$	22
23											_	24
25											—	26
27											──	28
<u>29</u> 31											┼──	30
33											┼──	34
35											┼──	36
37												38
39											<u> </u>	40
41											<u> </u>	42
	IAL P	ANEL F	EATURES		0 kVA	0 kVA	0 kVA		OTES	<b>I</b>		

# LOAD TYPE CONNECTED DEMAND FACTOR DEMAND LO Image: Strategy of the strategy of t

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OAD	LOAD TYPE KEY	PANEL	TOTALS	
	C = CONTINUOUS		KVA	AMPS
	E = ELEVATOR	TOTAL CONNECTED LOAD:	0 kVA	0 A
	K = KITCHEN	TOTAL DEMAND LOAD:	0 kVA	0 A
	L = LIGHTING	SPARE CAPACITY:	25%	25%
	M = MOTOR	DESIGNED CAPACITY:	0 kVA	0 A
	MOTOR = LARGEST MOTOR			
	N = NON-CONTINUOUS			
	R = RECEPTACLE			

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	VO		: 208Y/120V, 3PH, 4W		Ν	IEMA R	ATING	· Type	1						
			SURFACE			ITEGRA			•						
		RATING:				GROUN	-	-							
		-	225 A MLO			)-THRU		-				LOCATION: ELECTRI	CAL ROOM	104	
	AIC F	RATING:	: ????		D	OUBLE	-LUGS:	: No				SUPPLY FROM:			
СКТ	TRIP	POLE	DESCRIPTION	TYPE	A (k	(VA)	B (k	(VA)	C (k	XA)	TYPE	DESCRIPTION	POLE	TRIP	СК
1	20 A	1	CONF 285 RECEPTS	R	0.72	0.19					L	LEVEL 1 EM LIGHTING	1	20 A	2
3	20 A	1	CONF 285 RECEPTS	R; N			0.72	1.64			L	LEVEL 1 LIGHTING SOUTH	1	20 A	4
5	20 A	1	OFFICE 276 RECEPTS	R					1.08	1.46	L	LEVEL 1 LIGHTING NORTH	1	20 A	6
7	20 A	1	OFFICE 275 RECEPTS	R	0.9	0.15					L	LEVEL 2 EM LIGHTING	1	20 A	8
9	20 A	1	RESTROOM/CORRIDOR RECEPTS	R			0.9	1.09			L	LEVEL 2 LIGHTING	1	20 A	1
11	20 A	1	ECEAP/CLASSROOM RECEPTS	R					0.72	0.09	L	LEVEL 3 EM LIGHTING	1	20 A	12
13	20 A	1	CLASSROOM RECEPTS	R	1.08	0.62					L	LEVEL 3 LIGHTING	1	20 A	14
15	20 A	1	BREAK ROOM RECEPTS	R			0.9	0.08			L	LEVEL 4 EM LIGHTING	1	20 A	1(
17	20 A	1	CLASSROOM RECEPTS	R					0.72	0.62	L	LEVEL 4 LIGHTING	1	20 A	18
19	20 A	1	ELEVATOR PIT RECEPTS	R	0.36	0.6					L	SITE LIGHTING SOUTH	1	20 A	2
21	20 A	1	ROOM 260 RECEPTS	R			1.08	0.68			L	SITE LIGHTING NORTH	1	20 A	22
23	20 A	1	ROOM 260 RECEPTS	R					0.72						24
25	20 A	1	ROOM 260 RECEPTS	R	0.54										20
27	20 A	1	ROOM 260 RECEPTS	R			1.08								28
29	20 A	1	COMPUTER LAB RECEPTS	С					1.2						30
31	20 A	1	COMPUTER LAB RECEPTS	С	1.2										32
33	20 A	1	OFFICE 279 RECEPTS	R			0.9								34
35	20 A	1	ELEC ROOM RECEPTS	R					0.54						36
37	20 A	1	OFFICE 204 & LOBBY 398 RECEPTS	R	1.08										38
39	20 A		MDF DED RECEPT	С			1.2								4(
41	20 A	1	MDF DED RECEPT	С					0.3						4

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LOAD TYPE	CONNECTED	DEMAND FACTOR	DEMAND LOAD	LOAD TYPE KEY	PANEL	TOTALS	
С	3.9 kVA	125%	4.88 kVA	C = CONTINUOUS		KVA	AMPS
L	7.2 kVA	125%	9 kVA	E = ELEVATOR	TOTAL CONNECTED LOAD:	25.14 kVA	69.8 A
Ν	0.18 kVA	100%	0.18 kVA	K = KITCHEN	TOTAL DEMAND LOAD:	25.99 kVA	72.1 A
R	13.86 kVA	86%	11.93 kVA	L = LIGHTING	SPARE CAPACITY:	25%	25%
				M = MOTOR	DESIGNED CAPACITY:	32.48 kVA	90 A
				MOTOR = LARGEST MOTOR			
				N = NON-CONTINUOUS			
				R = RECEPTACLE			

P/	4NE	EL:	M1A1									
	MOL BUS F MAIN	JNTING: RATING: I AMPS:	208Y/120V, 3PH, 4W SURFACE 600 A 600 A MLO SEE ONE LINE DIAGRAM		INTEGRA ISOL GROUN FEED-THRU		1		Location: Elec <sup>-</sup> Supply from:	TRICAL ROOM	104	
СКТ	TRIP	POLE	DESCRIPTION	TYPE	A (kVA)	B (kVA)	C (kVA)	TYPE	DESCRIPTION	POLE	TRIP	СК
1												2
3												4
5												6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23 25												24 26
25 27												20
29												30
31												32
33												34
35												36
37												38
39												40
41												42
SPEC	CIAL P	ANEL FE	EATURES		0 kVA	0 kVA	0 kVA		TES	-		

LOAD TYPE	CONNECTED	DEMAND FACTOR	DEMAND LOAD	LOAD TYPE KEY	PANEL	TOTALS	
				C = CONTINUOUS		KVA	AMPS
				E = ELEVATOR	TOTAL CONNECTED LOAD:	0 kVA	0 A
				K = KITCHEN	TOTAL DEMAND LOAD:	0 kVA	0 A
				L = LIGHTING	SPARE CAPACITY:	25%	25%
				M = MOTOR	DESIGNED CAPACITY:	0 kVA	0 A
				MOTOR = LARGEST MOTOR			
				N = NON-CONTINUOUS			
				R = RECEPTACLE			

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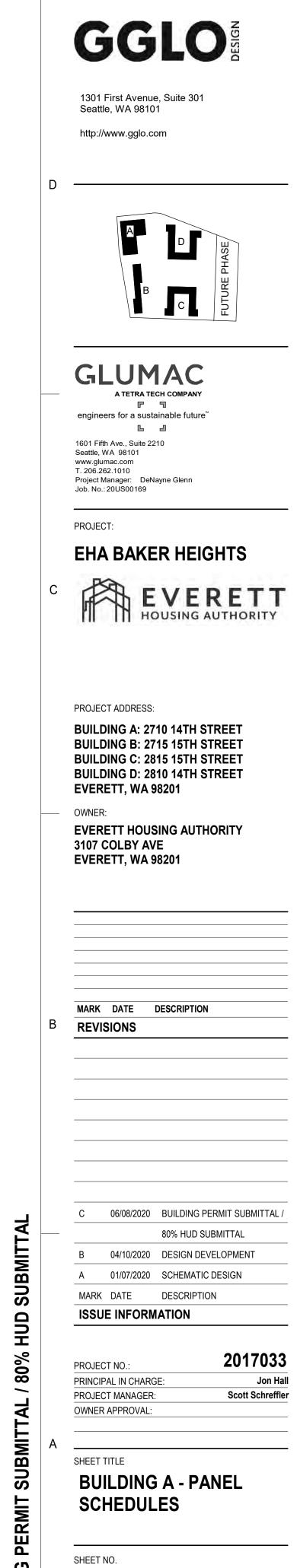
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3       20A       1       CONF 285 RECEPTS       R:N       0.72       1.64       L       LEVEL 1 LIGHTING SOUTH       1       20,7         7       20A       1       OFFICE 276 RECEPTS       R       0.9       0.15       1.08       1.46       L       LEVEL 1 LIGHTING NORTH       1       20,7         9       20A       1       OFFICE 276 RECEPTS       R       0.9       0.5       LEVEL 2 LIGHTING       1       20,7         9       20A       1       RESTROOM/CORRIDOR RECEPTS       R       0.9       0.5       LEVEL 2 LIGHTING       1       20,7         11       20A       1       CLASSROOM RECEPTS       R       0.9       0.62       L       LEVEL 2 LIGHTING       1       20,7         13       20A       1       CLASSROOM RECEPTS       R       0.9       0.08       L       LEVEL 3 LIGHTING       1       20,7         10       20A       1       ELEVATOR PIT RECEPTS       R       0.9       0.08       L       LEVEL 4 LIGHTING SOUTH       1       20,7         12       20A       1       ROOM 280 RECEPTS       R       0.36       0.66       L       STE LIGHTING NORTH       1       20,7       1 <t< th=""><th></th><th>VO</th><th>LTAGE:</th><th><b>L1A</b><sup>•</sup> 208Y/120<sup>•</sup> SURFACE</th><th>V, 3PH, 4W</th><th></th><th></th><th></th><th>NEMA R</th><th></th><th></th><th>1</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>		VO	LTAGE:	<b>L1A</b> <sup>•</sup> 208Y/120 <sup>•</sup> SURFACE	V, 3PH, 4W				NEMA R			1							
AIC RATING: ????         DOUBLE-LUGS: No         SUPPLY FROM:           CRT         TRM         POLE         DESCRIPTION         TYPE         A (kVA)         B (kVA)         C (kVA)         TYPE         DESCRIPTION         POLE         TR           1         20.A         1         CONF 285 RECEPTS         R         0.72         1.64         L         LEVEL 1 EM LIGHTING SOUTH         1         20,72           5         20.A         1         OFFICE 276 RECEPTS         R         0.9         1.08         1.46         L         LEVEL 1 LIGHTING SOUTH         1         20,72           7         20.A         1         OFFICE 276 RECEPTS         R         0.9         0.15         0.8         1.46         L         LEVEL 2 LIGHTING SOUTH         1         20,71           7         20.A         1         RESTROOMCORRIDOR RECEPTS         R         0.9         0.15         0.72         0.9         L         LEVEL 2 LIGHTING         1         20,71         20,4         R         CLASSROOM		BUS F	RATING:	225 A				ISOL (	GROUN	ID BAR:	: No								
CKT         TRIP         POLE         DESCRIPTION         TYPE         A (kVA)         B (kVA)         C (kVA)         TYPE         DESCRIPTION         POLE         TRI           1         20.A         1         CONF 285 RECEPTS         R         0.72         0.19         0.72         1.64         L         LEVEL 1 EM LIGHTING         1         20.72           3         20.A         1         OFFICE 275 RECEPTS         R         0.9         0.72         1.64         L         LEVEL 1 EM LIGHTING NORTH         1         20.72           20.A         1         OFFICE 275 RECEPTS         R         0.9         0.9         1.09         L         LEVEL 2 EM LIGHTING NORTH         1         20.72         1.64         L         LEVEL 2 EM LIGHTING         1         20.72         1.64         L         LEVEL 2 EM LIGHTING         1         20.72         1.08         1.08         0.62         L         LEVEL 2 EM LIGHTING         1         20.72         1.08         0.62         L         LEVEL 2 EM LIGHTING         1         20.72         1.08         1.08         0.62         L         L         L         L         L         L         L         L         L         L         L         L		MAIN	I AMPS:	225 A ML	0			FEE	D-THRU	ULUGS:	: No				LOCATION	I: ELECTRICAL	ROOM	104	
1         20.A         1         CONF 285 RECEPTS         R         0.72         0.72         1.64         L         LEVEL 1 EW LIGHTING         1         20.7           5         20.A         1         OFFIC 275 RECEPTS         R         0         0.72         1.64         L         LEVEL 1 LIGHTING SOUTH         1         20.7           7         20.A         1         OFFIC 275 RECEPTS         R         0         9         0.15         L         LEVEL 1 LIGHTING SOUTH         1         20.7           9         20.A         1         CECAPICLASSROOM RECEPTS         R         0.9         0.15         L         LEVEL 2 EW LIGHTING         1         20.7           11         20.A         1         CECAPICLASSROOM RECEPTS         R         1.08         0.62         L         L         LEVEL 3 EM LIGHTING         1         20.7           13         20.A         1         DECAPTS         R         0.06         0.72         0.62         L         LEVEL 3 EM LIGHTING         1         20.7           14         20.A         1         RECEPTS         R         0.36         0.6         L         L         STEL 1 GM TING         STEL 1 GM TING         1         20.7		AIC F	RATING:	????				D	OUBLE	-LUGS	: No			SUPPLY FROM:					
3       20.A       1       COMP 285 RECEPTS       R; N       0.72       1.64       L       L       LEVEL 1 LIGHTING SOUTH       1       20.7         7       20.A       0       OFFICE 276 RECEPTS       R       0.9       0.5       0.8       1.08       1.46       L       LEVEL 1 LIGHTING SOUTH       1       20.7         7       20.A       1       OFFICE 276 RECEPTS       R       0.9       0.5       0.9       1.08       1.46       L       LEVEL 2 EM LIGHTING SOUTH       1       20.7         10       20.A       1       RESTRODMOCORRIDOR RECEPTS       R       0.9       0.72       0.9       L       LEVEL 2 EM LIGHTING       1       20.7         13       20.A       1       BREAK ROOM RECEPTS       R       1.08       0.62       L       LEVEL 3 LIGHTING       1       20.7         17       20.A       1       BREAK ROOM RECEPTS       R       0.36       0.6       L       LEVEL 3 LIGHTING SOUTH       1       20.7         19       20.A       1       ROOM 260 RECEPTS       R       0.36       0.68       L       STE LIGHTING SOUTH       1       20.7         10       20.A       1       ROOM 260 RECEPTS <th>СКТ</th> <th>TRIP</th> <th>POLE</th> <th></th> <th>DESCRIPTION</th> <th></th> <th>TYPE</th> <th>A (I</th> <th>kVA)</th> <th>B (k</th> <th>(VA)</th> <th>C (k</th> <th>(VA)</th> <th>TYPE</th> <th>DESCRIPTION</th> <th>N</th> <th>POLE</th> <th>TRIP</th> <th><b>,</b> (</th>	СКТ	TRIP	POLE		DESCRIPTION		TYPE	A (I	kVA)	B (k	(VA)	C (k	(VA)	TYPE	DESCRIPTION	N	POLE	TRIP	<b>,</b> (
5         20.A         1         OFFICE 276 RECEPTS         R         0         0         1.08         1.46         L         LEVEL 1 LIGHTING NORTH         1         20.7           7         20.A         1         OFFICE 275 RECEPTS         R         0.9         0.15         L         LEVEL 2 EM LIGHTING         1         20.7           9         20.A         1         RESTROOM/CORRIDOR RECEPTS         R         0.9         0.16         L         LEVEL 2 EM LIGHTING         1         20.7           11         20.A         1         CLASSROOM RECEPTS         R         0.9         0.08         L         LEVEL 2 ILGHTING         1         20.7           13         20.A         1         CLASSROOM RECEPTS         R         0.9         0.08         L         LEVEL 4 LIGHTING         1         20.7           17         20.A         1         CLASSROOM RECEPTS         R         0.36         0.6         L         LEVEL 4 LIGHTING NORTH         1         20.7           19         20.A         1         CLOMM 260 RECEPTS         R         0.36         0.6         L         LEVEL 4 LIGHTING NORTH         1         20.7           20.A         1         ROOM 260 RECEPT	1		1	CONF 285	RECEPTS		R	0.72	0.19					L	LEVEL 1 EM LIGHTING		1	20 A	_
7       20.A       1       OFFICE 275 RECEPTS       R       0       0.15       0.9       1.05       L       L       L LEVEL 2 EM LIGHTING       1       20.7         9       20.A       1       RESTROM/CORRIDOR RECEPTS       R       0.9       1.09       1.09       L       L EVEL 2 EM LIGHTING       1       20.7         11       20.A       1       ECGAPICASSROOM RECEPTS       R       1.08       0.62       0.72       0.09       L       LEVEL 3 LIGHTING       1       20.7         13       20.A       1       BERAK ROOM RECEPTS       R       1.08       0.62       0.72       0.08       L       LEVEL 4 EM LIGHTING       1       20.7         17       20.A       1       BREAK ROOM RECEPTS       R       0.36       0.62       0.72       0.62       L       Level 4 Level 4 DM LIGHTING       1       20.7         19       20.A       1       ROOM 260 RECEPTS       R       0.36       0.68       L       STELIGHTING NORTH       1       20.7         21       20.A       1       ROOM 260 RECEPTS       R       0.36       0.68       L       L       STELIGHTING NORTH       1       20.7         21       2	-									0.72	1.64			L			1	20 A	_
9         20A         1         RESTROOM/CORRIDOR RECEPTS         R         0.9         1.09         L         LEVEL 2 LIGHTING         1         20,7           11         20A         1         CCAPRICLASSROOM RECEPTS         R         0.08         0.72         0.09         L         LEVEL 3 LIGHTING         1         20,7           13         20A         1         CLASSROOM RECEPTS         R         1.08         0.62         0.09         L         LEVEL 3 LIGHTING         1         20,7           15         20A         1         BREAK ROOM RECEPTS         R         0.08         0.8         0.12         0.09         L         LEVEL 4 LIGHTING         1         20,7           10         20A         1         LEXPCR STING SOUTH         1         20,7         L         LEVEL 4 LIGHTING SOUTH         1         20,7           2         20A         1         ROOM 260 RECEPTS         R         0.36         0.6         L         STELIGHTING SOUTH         1         20,7           2         20A         1         ROOM 260 RECEPTS         R         0.54         L         L         LEVEL 4 LIGHTING NORTH         1         20,7           20A         1         CO	5						R					1.08	1.46	L			1	20 A	_
11       20A       1       ECEAP/CLASSROOM RECEPTS       R       1.08       0.62       0.72       0.09       L       LEVEL 3 EM LIGHTING       1       20.0       1       20.7       1.08       0.72       0.09       L       LEVEL 3 EM LIGHTING       1       20.7       1.08       0.72       0.09       L       LEVEL 3 EM LIGHTING       1       20.7       1.08       0.72       0.09       L       LEVEL 3 EM LIGHTING       1       20.7       1.08       0.72       0.62       L       LEVEL 4 LIGHTING       1       20.7       1.08       0.72       0.62       L       LEVEL 4 EM LIGHTING       1       20.7         17       20.A       1       CLASSROOM RECEPTS       R       0.36       0.66       0.72       0.62       L       LEVEL 4 LIGHTING SOUTH       1       20.7         12       20.A       1       ROOM 260 RECEPTS       R       0.36       0.66       0.72       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -<	7						R	0.9	0.15					L			1	20 A	_
13       20 A       1       CLASSROOM RECEPTS       R       1.08       0.62       L       LEVEL 3 LIGHTING       1       20,1         15       20 A       1       BREAK ROOM RECEPTS       R       0.9       0.08       L       LEVEL 3 LIGHTING       1       20,1         17       20 A       1       CLASSROOM RECEPTS       R       0.36       0.6       L       LEVEL 4 EM LIGHTING       1       20,1         19       20 A       1       ELEVATOR PIT RECEPTS       R       0.36       0.6       L       SITE LIGHTING SOUTH       1       20,0         10       20 A       1       ROOM 260 RECEPTS       R       0.36       0.6       L       SITE LIGHTING NORTH       1       20,0         21       20 A       1       ROOM 260 RECEPTS       R       0.54       L       L       SITE LIGHTING NORTH       1       20,0         27       20 A       1       ROOM 260 RECEPTS       R       0.54       L       L       L       L       L       L       L       L       L       L       L       L       L       L       L       L       L       L       L       L <thl< th=""> <thl< th="">       L</thl<></thl<>	9		1	RESTROC	M/CORRIDOR RECE	PTS	R			0.9	1.09			L	LEVEL 2 LIGHTING		1	20 A	_
15       20 A       1       BREAK ROOM RECEPTS       R       0.9       0.08       L       L LEVEL 4 ENLIGHTING       1       20,1         17       20 A       1       CLASSROOM RECEPTS       R       0.36       0.6       L       LEVEL 4 ENLIGHTING       1       20,1         19       20 A       1       ELEVATOR PIT RECEPTS       R       0.36       0.6       L       SITE LIGHTING SOUTH       1       20,1         23       20 A       1       ROOM 260 RECEPTS       R       0.36       0.6       L       SITE LIGHTING SOUTH       1       20,1         23       20 A       1       ROOM 260 RECEPTS       R       0.54       0.72       L       SITE LIGHTING NORTH       1       20,1         25       20 A       1       ROOM 260 RECEPTS       R       0.54       0.72       L       L       I       20,2         20 A       1       COMPUTER LAB RECEPTS       C       1.2       1.2       1.2       1.2         21       20 A       1       OFFICE 279 RECEPTS       R       0.9       0.54       1.2       1.2         31       20 A       1       OFFICE 279 RECEPTS       R       0.08       2 <td>11</td> <td></td> <td>1</td> <td>ECEAP/CL</td> <td>ASSROOM RECEPTS</td> <td><u>S</u></td> <td>R</td> <td></td> <td></td> <td></td> <td></td> <td>0.72</td> <td>0.09</td> <td>L</td> <td></td> <td></td> <td>1</td> <td>20 A</td> <td>١</td>	11		1	ECEAP/CL	ASSROOM RECEPTS	<u>S</u>	R					0.72	0.09	L			1	20 A	١
17       20 A       1       CLASSROOM RECEPTS       R       0       0       0.72       0.62       L       LEVEL4 LIGHTING       1       20         19       20 A       1       ELEVATOR PIT RECEPTS       R       0.36       0.6       L       STE LIGHTING SOUTH       1       20         21       20 A       1       ROOM 260 RECEPTS       R       0.36       0.6       L       STE LIGHTING SOUTH       1       20         21       20 A       1       ROOM 260 RECEPTS       R       0.54       L       STE LIGHTING NORTH       1       20         25       20 A       1       ROOM 260 RECEPTS       R       0.54       L       STE LIGHTING NORTH       1       20         27       20 A       1       ROOM 260 RECEPTS       R       0.54       L       STE LIGHTING NORTH       1       20         21       20 A       1       COMPUTER LAB RECEPTS       C       1.2       L       L       L       L       L       STE LIGHTING NORTH       1       20       L       L       L       L       L       L       L       L       L       L       L       L       L       L       L       L	-							1.08	0.62					L			1	20 A	_
19       20 A       1       ELEVATOR PIT RECEPTS       R       0.36       0.6       L       SITE LIGHTING SOUTH       1       20 /r         11       20 A       1       ROOM 260 RECEPTS       R       0.36       0.6       L       SITE LIGHTING SOUTH       1       20 /r         23       20 A       1       ROOM 260 RECEPTS       R       0.54       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.7	-									0.9	0.08			L			1	20 A	_
21       20 A       1       ROOM 260 RECEPTS       R       1.08       0.68       L       SITE LIGHTING NORTH       1       20 / / / / / / / / / / / / / / / / / / /	17						R					0.72	0.62	L			1	20 A	_
23       20 A       1       ROOM 260 RECEPTS       R       0.54       0.72       0.72       0.72         25       20 A       1       ROOM 260 RECEPTS       R       0.54       0.72       0.72       0.72       0.72         27       20 A       1       ROOM 260 RECEPTS       R       1.08       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.74       0.74       0.74<	19	20 A	1	ELEVATO	R PIT RECEPTS		R	0.36	0.6					L			1	20 A	١
25         20 A         1         ROOM 260 RECEPTS         R         0.54         Image: Constraint of the second	21	20 A	1	ROOM 260	0 RECEPTS		R			1.08	0.68			L	SITE LIGHTING NORTH		1	20 A	١
27       20 A       1       ROOM 260 RECEPTS       R       1.08       Image: Computer Lab Recepts       Image: Computer Lab Recepts <td< td=""><td>23</td><td>20 A</td><td>1</td><td><b>ROOM 26</b></td><td>) RECEPTS</td><td></td><td>R</td><td></td><td></td><td></td><td></td><td>0.72</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	23	20 A	1	<b>ROOM 26</b>	) RECEPTS		R					0.72							
29         20 A         1         COMPUTER LAB RECEPTS         C         1.2         1.2         1.2           31         20 A         1         COMPUTER LAB RECEPTS         C         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.3         20.4         1         OFFICE 279 RECEPTS         R         0.9         0.54         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2	25	20 A	1	<b>ROOM 26</b>	) RECEPTS		R	0.54											
31       20 A       1       COMPUTER LAB RECEPTS       C       1.2       Image: Computer	27	20 A	1	<b>ROOM 26</b>	) RECEPTS		R			1.08									
33         20 A         1         OFFICE 279 RECEPTS         R         0.9         0.9         0.54         0.54           35         20 A         1         ELEC ROOM RECEPTS         R         1.08         0.54         0.54         0.54           37         20 A         1         OFFICE 204 & LOBBY 398 RECEPTS         R         1.08         0.54         0.54         0.54           39         20 A         1         MDF DED RECEPT         C         1.2         0.3         0.3         0.3           SPECIAL PANEL FEATURES         CONNECTED DEMAND FACTOR DEMAND LOAD         LOAD TYPE KEY         PANEL TOTALS           CONNECTED DEMAND FACTOR DEMAND LOAD         LOAD TYPE KEY         PANEL TOTALS           CONNECTED DEMAND FACTOR DEMAND LOAD         LOAD TYPE KEY         PANEL TOTALS           C         39 kVA         C = CONTINUOUS           LOAD TYPE         CONNECTED DEMAND FACTOR         DEMAND FACTOR         DEMAND FACTOR         C IRCUIT NOTES           CONNECTED DEMAND FACTOR         LOAD TYPE KEY         PANEL TOTALS           C	29	20 A	1	COMPUTE	ER LAB RECEPTS		С					1.2							٦
35         20 A         1         ELEC ROOM RECEPTS         R         0.54         0.54         0.54           37         20 A         1         OFFICE 204 & LOBBY 398 RECEPTS         R         1.08         0.54         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <t< td=""><td>31</td><td>20 A</td><td>1</td><td>COMPUTE</td><td>ER LAB RECEPTS</td><td></td><td>С</td><td>1.2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	31	20 A	1	COMPUTE	ER LAB RECEPTS		С	1.2											
37         20 A         1         OFFICE 204 & LOBBY 398 RECEPTS         R         1.08         Image: Constraint of the state of the st	33	20 A	1	OFFICE 27	79 RECEPTS		R			0.9									
39         20 A         1         MDF DED RECEPT         C         1.2         0.3         Image: constraint of the state of th	35	20 A	1	ELEC ROO	OM RECEPTS		R					0.54							Γ
41       20 A       1       MDF DED RECEPT       C       0.3       0.3         SPECIAL PANEL FEATURES       7.44 kVA       10.26 kVA       7.44 kVA       CIRCUIT NOTES         LOAD TYPE       CONNECTED       DEMAND FACTOR       DEMAND LOAD       LOAD TYPE KEY       PANEL TOTALS         C       3.9 kVA       125%       4.88 kVA       C = CONTINUOUS       KVA       AMF         L       7.2 kVA       125%       9 kVA       E = ELEVATOR       TOTAL CONNECTED LOAD:       25.14 kVA       69.8         N       0.18 kVA       100%       0.18 kVA       L = LIGHTING       SPARE CAPACITY:       25%       25%         M = MOTOR       MOTOR = LARGEST MOTOR       MOTOR = LARGEST MOTOR       MOTOR = LARGEST MOTOR       DESIGNED CAPACITY:       32.48 kVA       90 /	37	20 A	1	OFFICE 20	04 & LOBBY 398 REC	EPTS	R	1.08											
SPECIAL PANEL FEATURES         7.44 kVA         10.26 kVA         7.44 kVA         CIRCUIT NOTES           LOAD TYPE         CONNECTED         DEMAND FACTOR         DEMAND LOAD         LOAD TYPE KEY         PANEL TOTALS           C         3.9 kVA         125%         4.88 kVA         C = CONTINUOUS         KVA         AMF           L         7.2 kVA         125%         9 kVA         E = ELEVATOR         TOTAL CONNECTED LOAD:         25.14 kVA         69.8           N         0.18 kVA         100%         0.18 kVA         K = KITCHEN         TOTAL DEMAND LOAD:         25.99 kVA         72.1           R         13.86 kVA         86%         11.93 kVA         L = LIGHTING         SPARE CAPACITY:         25%         259           M         MOTOR         MOTOR         MOTOR         DESIGNED CAPACITY:         32.48 kVA         90 /	39	20 A	1	MDF DED	RECEPT		С			1.2									
LOAD TYPECONNECTEDDEMAND FACTORDEMAND LOADLOAD TYPE KEYPANEL TOTALSC3.9 kVA125%4.88 kVAC = CONTINUOUSKVAAMFL7.2 kVA125%9 kVAE = ELEVATORTOTAL CONNECTED LOAD:25.14 kVA69.8N0.18 kVA100%0.18 kVAK = KITCHENTOTAL DEMAND LOAD:25.99 kVA72.1R13.86 kVA86%11.93 kVAL = LIGHTINGSPARE CAPACITY:25%25%MMOTORMe MOTORDESIGNED CAPACITY:32.48 kVA90 AMNNNN = NON-CONTINUOUSMOTORMOTOR	41	20 A	1	MDF DED	RECEPT		С					0.3							
C         3.9 kVA         125%         4.88 kVA         C = CONTINUOUS         KVA         AMF           L         7.2 kVA         125%         9 kVA         E = ELEVATOR         TOTAL CONNECTED LOAD:         25.14 kVA         69.8           N         0.18 kVA         100%         0.18 kVA         K = KITCHEN         TOTAL DEMAND LOAD:         25.99 kVA         72.1           R         13.86 kVA         86%         11.93 kVA         L = LIGHTING         SPARE CAPACITY:         25%         25%           M         M         M         M         M         M         86%         11.93 kVA         M         M         SPARE CAPACITY:         25%         25%           M         MOTOR         LARGEST MOTOR         M         MOTOR = LARGEST MOTOR         M         M         M         M	SPEC	CIAL PA	ANEL FI	EATURES				7.44	l kVA	10.26	6 kVA	7.44	kVA	CIRCI	JIT NOTES				
L         7.2 kVA         125%         9 kVA         E = ELEVATOR         TOTAL CONNECTED LOAD:         25.14 kVA         69.8           N         0.18 kVA         100%         0.18 kVA         K = KITCHEN         TOTAL DEMAND LOAD:         25.99 kVA         72.1           R         13.86 kVA         86%         11.93 kVA         L = LIGHTING         SPARE CAPACITY:         25%         25%           M         M         M         MOTOR         MOTOR         DESIGNED CAPACITY:         32.48 kVA         90 A           N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N         N	LOAD	) TYPE		NECTED	DEMAND FACTOR	DEMA		AD		LOAI	) TYPE	KEY			PANEL	TOTALS			
N         0.18 kVA         100%         0.18 kVA         K = KITCHEN         TOTAL DEMAND LOAD:         25.99 kVA         72.1           R         13.86 kVA         86%         11.93 kVA         L = LIGHTING         SPARE CAPACITY:         25%         25%           M = MOTOR         M = MOTOR         DESIGNED CAPACITY:         32.48 kVA         90 /           M = NOTOR         N = NON-CONTINUOUS         N = NON-CONTINUOUS         Image: Capacity = Capaci		С	3.	9 kVA	125%	4.8	88 kVA			C = C	ONTIN	JOUS				KVA		AMPS	s
R         13.86 kVA         86%         11.93 kVA         L = LIGHTING         SPARE CAPACITY:         25%         25%           M = MOTOR         M = MOTOR         DESIGNED CAPACITY:         32.48 kVA         90 /           M = NON-CONTINUOUS         N = NON-CONTINUOUS         M = MOTOR         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		L	7.	2 kVA	125%	ç	9 kVA			E = I	ELEVA <sup>.</sup>	TOR		Т	OTAL CONNECTED LOAD:	25.14 kVA		69.8	Ā
R         13.86 kVA         86%         11.93 kVA         L = LIGHTING         SPARE CAPACITY:         25%         25%           M = MOTOR         M = MOTOR         DESIGNED CAPACITY:         32.48 kVA         90 /           M = NOTOR         N = NON-CONTINUOUS         N = NON-CONTINUOUS         Image: Capacity = C		N	_							K =	KITCH	EN						72.1	
M = MOTOR     DESIGNED CAPACITY:     32.48 kVA     90 /       MOTOR = LARGEST MOTOR     MOTOR = LARGEST MOTOR     MOTOR     MOTOR     MOTOR			_												SPARE CAPACITY:			25%	
MOTOR = LARGEST MOTOR         N = NON-CONTINUOUS																		90 A	
N = NON-CONTINUOUS			1						MO				TOR						-
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			1											<b> </b>			-		-

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E-007

	Mol Bus F Main	inting: Rating: I Amps:	SURFAC 200 A 125 A ML			NEMA RATING: Type 1 INTEGRAL SPD: No ISOL GROUND BAR: No FEED-THRU LUGS: No DOUBLE-LUGS: No						LOCATION: STORAGE B-005 SUPPLY FROM:				
скт	TRIP	POLE		DESCRIPTION	TYPE	A (I	٧A)	B (k	VA)	C (kVA)	TYPE	DESCRIPTION	1	POLE	TRIP	Ск
1	20 A	1	EM LIGHT	ING		0.23										2
3	20 A	1	EXTERIO	RLIGHTING	L			0.93								1
5																
7																
9																1
11																1
13																1
15																1
17																1
19											_					2
21											<u> </u>			$ \longrightarrow $		2
23											_			$ \longrightarrow $		2
25														$ \longrightarrow $		2
27														$ \longrightarrow $		2
29														┝───┤		3
31											-			┝───┤		3
33 35											<u> </u>			<b>├──</b>		3
35 37											-			┝───┤		3
39														┝───┤		4
<u>39</u> 41											-			┝───┼		4
			EATURES			0.23	2 k\/Λ	0.03	k)/A	0 kVA						4
											i					
LUAL	) TYPE		NECTED 16 kVA	DEMAND FACTOR 125%	DEMAND LO 1.45 kVA				) TYPE ONTINU			PANEL	TOTALS KVA		AMPS	
	L	.	IUKVA	120%	1.40 KVA				ELEVAT		<b>–</b>	OTAL CONNECTED LOAD:	1.16 kVA		3.2 A	
												TOTAL DEMAND LOAD:	1.16 kVA 1.45 kVA	_	3.2 A 4 A	
													1.45 KVA 25%			
									LIGHTI			SPARE CAPACITY:			25%	
							MO		= MOTC			DESIGNED CAPACITY:	1.81 kVA	_	5 A	
										ST MOTOR NUOUS						

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1301 First Avenue, Suite 301 Seattle, WA 98101 http://www.gglo.com

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	A B C A FUTURE PHASE
	GLUMACC A TETRA TECH COMPANY A TETRA TECH COMPANY C C C COMPANY C C C C C C C C C C C C C C C C C C C
С	PROJECT: EHA BAKER HEIGHTS EVERETT HOUSING AUTHORITY
	PROJECT ADDRESS: BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET EVERETT, WA 98201 OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVENUE EVERETT, WASHINGTON 98201
В	MARK DATE DESCRIPTION REVISIONS
	C 06/08/2020 BUILDING PERMIT SUBMITTAL / 80% HUD SUBMITTAL B 04/10/2020 DESIGN DEVELOPMENT A 01/07/2020 SCHEMATIC DESIGN
	MARK DATE DESCRIPTION
	PROJECT NO · 2018000.00
A	PROJECT NO.: ZUTOUUUU PRINCIPAL IN CHARGE: Scott Vollmoelle PROJECT MANAGER: DeNayne Glen OWNER APPROVAL:
	SHEET TITLE BUILDING B - PANEL SCHEDULES SHEET NO.
	E-008

**BUILDING PERMIT SUBMITTAL / 80% HUD SUBMI** 

NEMA RATING: Type 1 INTEGRAL SPD: No ISOL GROUND BAR: No FEED-THRU LUGS: No DOUBLE-LUGS: No SUPPLY FROM:								
ON POL	POLE TRIP	LE TRIP	IP (					
			_					
<del> </del>								
			_					
			_					
<b>I</b>	1							
L TOTALS								
KVA	AMPS	AMPS	PS					
0.79 kVA	2.2 A							
0.99 kVA	2.8 A							
25%	25%	25%	%					
1.24 kVA	3 A	3 A	Α					

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Ρ/	ANE	EL:	L1C	2													
	VO		208Y/120	V, 3PH, 4W			١	IEMA R	ATING:	Туре	1						
	MOL	JNTING:	SURFAC	E					AL SPD:								
		RATING							ID BAR:								
			100 A MC	В					LUGS:					: ELECTRICAL	L METEF	RS C-0	08
		RATING	????					OUBLE	-LUGS:	No		<del></del>	SUPPLY FROM	:			
CKT	TRIP	POLE		DESCRIPTION		TYPE	A (I	(VA)	B (k	VA)	C (kVA)	TYPE	E DESCRIPTION	1	POLE	TRIP	СКТ
1	20 A			ING EAST		L	0.09										2
3	20 A	1	EXTERIO	R LIGHTING EAST		L			0.33								4
5												-					6
7 9												-					8 10
9 11												-					10
13																	14
15																	16
17																	18
19																	20
21																	22
23												-					24
25																	26
27 29												-					28 30
<u>29</u> 31																	32
33																	34
35																	36
37																	38
39																	40
41			EATURES					kVA	0.33								42
									1		0 kVA						
JAO.	) TYPE	_		DEMAND FACTOR		ND LO	AD					_	PANEL	TOTALS			
	L	0.4	42 kVA	125%	0.8	52 kVA				ontini Eleva <sup>:</sup>		-	TOTAL CONNECTED LOAD:	KVA 0.42 kVA		AMPS 1.2 A	
										ELEVA KITCH			TOTAL CONNECTED LOAD:	0.42 KVA 0.52 kVA		1.2 A 1.5 A	
										LIGHT			SPARE CAPACITY:	<u>0.52 KVA</u> 25%		25%	
										= MOT			DESIGNED CAPACITY:	0.65 kVA		23%	
								MO			ST MOTOR					- ^	
											INUOUS						

4

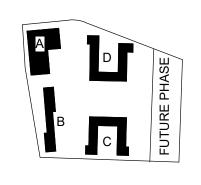
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1301 First Avenue, Suite 301 Seattle, WA 98101 http://www.gglo.com

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# **GLUMAC** A TETRA TECH COMPANY engineers for a sustainable future<sup>®</sup>

6 2 1601 Fifth Ave., Suite 2210 Seattle, WA 98101 www.glumac.com T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169

PROJECT:

## EHA BAKER HEIGHTS



PROJECT ADDRESS:

BUILDING A: 2710 14TH STREET **BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET EVERETT, WA 98201** 

OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVENUE EVERETT, WASHINGTON 98201

MARK		DESCRIPTION
REVIS	SIONS	
С	06/08/2020	BUILDING PERMIT SUBMI
		80% HUD SUBMITTAL
В	04/10/2020	DESIGN DEVELOPMENT
A	01/07/2020	SCHEMATIC DESIGN
MARK	DATE	DESCRIPTION
ISSU		IATION
		2017
PROJEC	AL IN CHARG	
	T MANAGER	
OWNER	APPROVAL:	

BUILDING C - PANEL SCHEDULES

SHEET NO.

₹

80% HUD SUBMI

**\_** 

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SU

BUILDING PERMI

E-009

P/	ANE	L:	L1D	1											
	VOL	TAGE:	208Y/120	V, 3PH, 4W		١	NEMA RATI	NG: Type	1						
	MOU	NTING:	SURFAC	E		IN	NTEGRAL S	PD: No							
		ating:					GROUND B								
			100 A MC	В			D-THRU LU					I: ELECTRICAL	METERS	D-00	04
	AIC R	ATING:	????			D	OUBLE-LU	GS: No			SUPPLY FROM	1:	<del></del>		
СКТ	TRIP	POLE		DESCRIPTION	TYPE	A (I	kVA) I	3 (kVA)	C (kVA)	TYPE	DESCRIPTION	N	POLE TRI		Ск
1	20 A	1	EM LIGHT	ING WEST	L	0.16									2
3	20 A	1	EXTERIO	R LIGHTING WEST	L		0.0	69							4
5															6
7															8
9															1(
11															12
13 15	$\vdash$														14
15 17															10
17 19															20
21															22
23															24
25															26
27															28
29															30
31															32
33															34
35															36
37															38
39															40
41															42
PEU	JAL PA	NEL FE	ATURES			0.10	δikVA   C	.09 KVA	UKVA		IT NOTES				
OAE	D TYPE CONNECTED DEMAND FACTOR DEMAND LO		AD	L	DAD TYPE	KEY	ĺ	PANEL	TOTALS						
	L	0.8	5 kVA	125%	1.06 kVA		C	= CONTIN	UOUS			KVA	A	ЛРS	,
							E	= ELEVA	TOR	TC	TAL CONNECTED LOAD:	0.85 kVA	2	4 A	
								K = KITCH	IEN		TOTAL DEMAND LOAD:	1.06 kVA	2	9 A	
								_ = LIGHT	ING		SPARE CAPACITY:	25%	2	5%	
								M = MOT	OR		DESIGNED CAPACITY:	1.33 kVA		Α	
							MOTOR	= LARGE	ST MOTOR						
							N = N	ON-CONT	INUOUS						
							R	= RECEPT	ACLE						

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	Vol Moui Bus R/ Main	L: L1D TAGE: 208Y/12 NTING: SURFAC ATING: 100 A AMPS: 100 A M ATING: ????	0V, 3PH, 4W CE		IN ISOL ( FEEL	iema Rating Itegral SPD Ground Bar D-thru Lugs Ouble-Lugs	No No No			Location Supply From	J: ELECTRICAL 1:	. METER	S D-0	03
скт	TRIP	POLE	DESCRIPTION	TYPE	A (k	(VA) B (k	VA)	C (kVA)	TYPE	DESCRIPTIO	N	POLE	TRIP	СКТ
1	20 A	1 EM LIGH	TING EAST	L	0.11									2
3	20 A	1 EXTERIC	R LIGHTING EAST	L		0.33								4
5														6
7														8
9														10
11														12
13 15														14 16
15														18
19														20
21														22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39 41														40 42
		I NEL FEATURES	1		0.11	kVA 0.33	k)/A	0 kVA		IT NOTES				42
040	TYPE	CONNECTED	DEMAND FACTOR	DEMAND LO			) TYPE K	ΈΥ ΈΥ		DANEI	TOTALS			
		0.44 kVA	125%	0.54 kVA							KVA		AMPS	,
							ELEVATO		тс	TAL CONNECTED LOAD:	0.44 kVA		1.2 A	
							KITCHE			TOTAL DEMAND LOAD:	0.54 kVA		1.5 A	
						LIGHTIN			SPARE CAPACITY:	25%		25%		
							= MOTOF			DESIGNED CAPACITY:	0.68 kVA		2 A	
						MOTOR = L								
						N = NON								
							ECEPTA		1			1		

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**GGLO**<sup>N</sup> 1301 First Avenue, Suite 301 Seattle, WA 98101 http://www.gglo.com GLUMAC A TETRA TECH COMPANY engineers for a sustainable future<sup>™</sup> 6 2 1601 Fifth Ave., Suite 2210 Seattle, WA 98101 www.glumac.com T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169 PROJECT: EHA BAKER HEIGHTS 网 HOUSING AUTHORITY PROJECT ADDRESS: BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET **BUILDING C: 2815 15TH STREET** BUILDING D: 2810 14TH STREET **EVERETT, WA 98201** OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVENUE **EVERETT, WASHINGTON 98201** MARK DATE DESCRIPTION B REVISIONS C 06/08/2020 BUILDING PERMIT SUBMITTAL / ₹ 80% HUD SUBMITTAL B 04/10/2020 DESIGN DEVELOPMENT A 01/07/2020 SCHEMATIC DESIGN Ξ SU MARK DATE DESCRIPTION **ISSUE INFORMATION** HUD 80% 2017033 PROJECT NO .: PRINCIPAL IN CHARGE: Scott Vollmoeller DeNayne Glenn PROJECT MANAGER: OWNER APPROVAL: SHEET TITLE **BUILDING D - PANEL** SCHEDULES

SHEET NO.

E-010

TAL SUBMI<sup>-</sup> PERMI DING Ω

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Project Title:	Code Compliance Forms for Commercial Buildings I EHA BAKER HEIGHTS		Date	6/8/2020
Exterior Lighting Zone			For Building Departm	and the second sec
Calculation Area	New construction     New construction     Atteration with < 50%     ext. wattage replaced     Atteration with	+ existing ≥ 50% ext.	User Note	
Building Grounds Applies to Individual Iuminaires > 100 Watts	Efficacy > 80 lumens/watt     Exempti     Controlled by motion sensor		Surress	
Tradable Maximum	Allowed Lighting Wattage NOTE 1	0	Base Site Allowance;	1300
Tradable Surfaces	Surface Description	Area (ft²), perimeter (lf) or # of items	Allowed Watts per ft <sup>2</sup> or per If	Allowed Watts x ft <sup>2</sup> (or x lf) NOTE 2
Main Entry Door		12	30W/LF door	360

		11111
30	20W/LF door	600
659	0.4 W/ft2	264
3844	1.0 W/ft2	3844
1355	1.0 W/LF	1355
104940	0.20 W/ft2	20988
2211	0.10 W/ft2	221
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Contraction of the	A
	659 3844 1355 104940	659         0.4 W/It2           3844         1.0 W/It2           1355         1.0 W/LF           104940         8.20 W/It2

Total Allowed Tradable + Site Allowance Watts: 28932

2

#### Tradable Proposed Lighting Wattage NOTE 3

Tradable Surface	Fixture Description NOTE 4, 5	Number of Fixtures	Watts per Fixture NOTE 6	Watts Proposed
Stairways	E2	62	11	682
Uncovered Parking and drives	SA1	14	3E	532
Grounds Walkways >10' wide	SB1	9	56	504
Grounds Walkways >10' wide	SB2	3	56	168
Main Entry Door	SC1	10	21	210
Other Entry Door	SD1	12	16	192
Entry Canopies	SE1	4	18	72
Grounds Walkways <10 wide	WS1	108	36	2808
Grounds Walkways <10 wide	X2	25	4	100
	may not exceed the sum of total allowed tradable nce. Any base site allowance not needed to ma		posed Tradable Watts;	5268

walls plus the base site allowance. Any base site allowance not needed to make tradable watts comply can be applied to individual non-tradable categories.

in Thundere Muslinu	m Allowed Lighting Wa	Site All	owance Remaining:	1300
Non-Tradable Surfaces	Surface Description	Area (ft <sup>2</sup> ), perimeter (lf) or # of items	Allowed Watts per ft <sup>2</sup> , if or item	Allowed Watts $x \text{ ft}^2 (\text{or } x \text{ If})^{\text{NOTE } 2}$
		T 1 1		

#### Non-Tradable Proposed Lighting Wattage NOTE 3, 7

Non-Tradable Surface	Fixture Description NOTE 4,5	Number of Fixtures	Watts per Fixture NOTE 6	Watts Proposed
n-tradable proposed watts may	not exceed allowed watts for any individual	Non-Tradable	Watts Exceeding LPA:	0

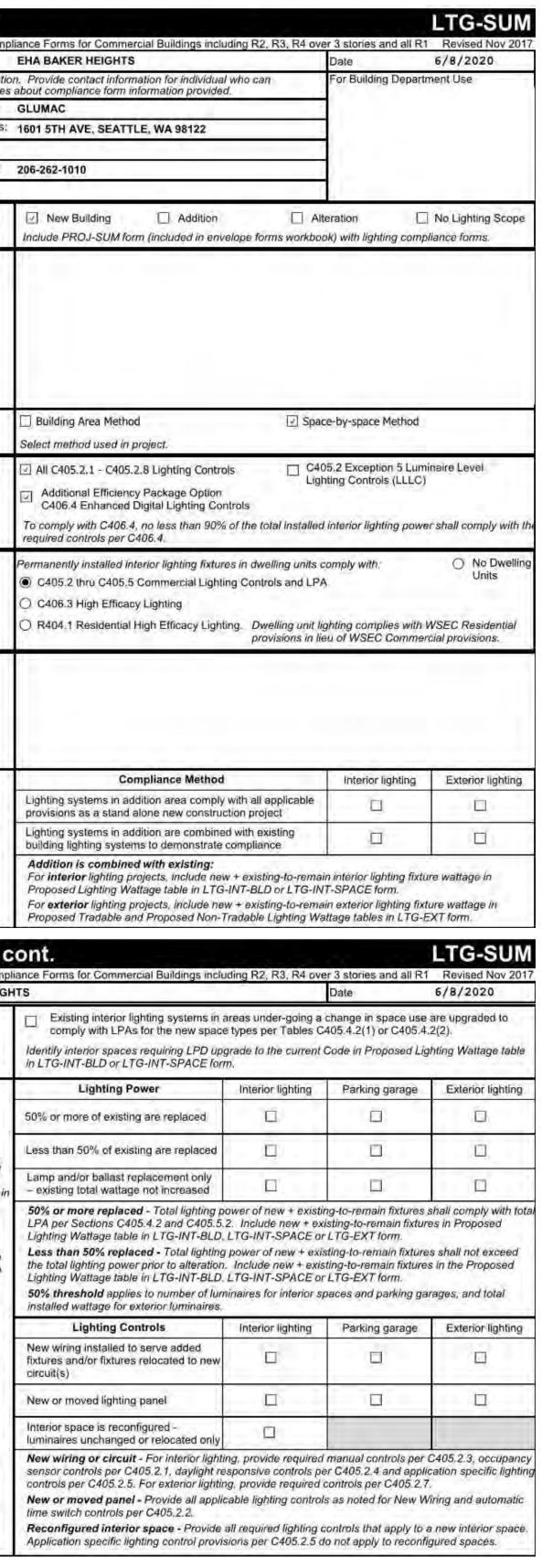
surface unless the total excess vatts for all non-tradable surfaces are less than Remaining Site Allowance: 1300 the remaining site allowance.

Exterior Lighting

1

- Note 1 List all exterior surfaces per Table C405.5.2(2) that occur in the project scope. Select exterior surface categories from drop down men Note 2 - Unlit Message - Enter lighting fixture information for this surface in Proposed Lighting Wattage table to generate Lighting Power Allow
- Note 3 List all proposed lighting fixtures including existing-to-remain fixtures. Note 4 - For proposed Fixture Description, indicate fixture type, lamp type, number of lamps in the fixture, and ballast type (if applicable). Note 5 - Existing-to-remain fixtures shall be included in the Tradable and Non-Tradable Proposed Lighting Wattage tables in the same manner
- as new fixtures. Identify as existing in fixture description. Note 6 - For proposed Watts/Fixture enter the luminaire wattage for installed lamp and ballast using manufacturer or other approved source. For luminaires with screwin lamps, enter the manufacturer's listed maximum input wattage of the fixture (not the lamp wattage). For low voltage lighting, enter the wattage of the transformer.
- Note 7 Automated Teller and Night Depositories For each location, enter the number of ATM machines or depositories within that location. there are multiple locations in the project, enter each location individually in the Non-Tradable Maximum Allowed Lighting Wattage tab and identify the location in the Surface Description section.

icluding R2, R3, R4 of	ver 3 stories and all R <sup>*</sup> Date	6/8/2020	2015 Washington Project Title:	State Energy Code Compliance Forms for Commercial B EHA BAKER HEIGHTS	uildings including R	2, R3, R4 over 3	stories and all R1 Date	Revised Nov 2017 6/8/2020	2015 Washington Sta Project Info	te Energy Code Com Project Title:
Cone 4 e LTG-EXT form. fied by the d Addition + existing	For Building Departm	and the second sec	Calculation Area <sup>NOTE 9</sup> LPA	<ul> <li>New Construction</li> <li>Spaces where &lt; 50% of luminaires are replaced</li> <li>Standard</li> <li>Addition - stand alone</li> <li>Spaces where ≥ 50 luminaires are replaced</li> <li>Additional Efficience</li> </ul>	cy Package Option	where the Use ng (C505)	For Building Depar	-	Compliance forms do not require a password to use. Instructional and calculating cells are write- protected.	Applicant Information respond to inquirie Company Name: Company Address Applicant Name:
≥ 50% ext. ed	User Note		Calculation	C406.3 Reduced I To comply with C406.3, the Proposed LPD shall be 2		Target LPA	in a l	-		Applicant Phone: Applicant Email:
	( Contraction of the second se		Туре	Refer to C406.3 for additional requirements.	60. 612. C.C. 612		User Note		Project Descri	Contraction of the
-			Maximum A	Allowed Lighting Wattage NOTE 1					i loject Desch	puon
	States of some of		Laboration Value 4		Height <sup>NOTE</sup>	Gross Interior	Allowed	Watts Allowed	Interior Light	ing System
	Base Site Allowance: Allowed Watts	1300 Allowed Watts	Location (plan #, room #)	Space Type	2	Area in ft <sup>2</sup>	Watts per ft <sup>2</sup>	(watts/ft <sup>2</sup> x area)	Description	
rea (ft²), perimeter (lf) or # of items	per ft <sup>2</sup> or per lf	x ft <sup>2</sup> (or x lf) NOTE 2	Building A	Classroom/lecture/training		774	1.000	774		
12	30W/LF door	360	Building A Building A	Corridor: all other Office: Enclosed	-	4587 907	0.530	2431 807		
30	20W/LF door	600	Building A	Computer room		96	1.370	132	Interior Lighting	Plans Included
659 3844	0.4 W/ft2 1.0 W/ft2	264 3844	Building A	Lobby: all other		264	0,720	190		
1355	1.0 W/LF	1355	Building A Building A	Stairwell Electrical/mechanical		1311 479	0.550	721		
104940	0.20 W/ft2	20988	Building A	Restroom: all other		479	0.780	354	Interior Light	
2211	0.10 W/ft2	221	Building A	Conference/meeting/multipurpose		1813	0.980	1777	Allowance Me	
			Building A	Laundry/washing area	_	472	0.480	227	Interior Lighti	ing Controls
Allowed Tradable +	Site Allowance Watts:	28932	Building A	Lounge/breakroom: all other	Total Area	189 11346	0.580	110		
							LTG-INT-DISPLAY			
Number of	Watts per Fixture NOTE 6	Watts	l la la							
Fixtures 62	Fixture 11	Proposed 682	Lobi	oy Art/Exhibit Display Allowance from LTG-INT-DISPLAY	IOTE B		Allowed Watts	7887	Dwelling Uni	t Interior
14	38	532							Lighting	
9	56	504	Proposed Li	ighting Wattage NOTE 3						
3	56	168	Location (plan #,		Number of	Watts/		Watts		
10	21 16	210 192	room #)	Fixture Description NOTE 4, 5, 6	Fixtures	Fixture NOTE 7		Proposed	<b>Exterior Light</b>	ing System
4	18	7,2	Building A Building A	BA1 BA2	18	31 41	e e	558 82	Description	
108	786	2808	Building A	DA1	8	8	9-	64	and the second sec	
.25	4	100	Building A	E1	40	11		440		
Total Prop	oosed Tradable Watts:	5268	Building A Building A	FA1 FB1	94 11	12	6	220	Exterior Lighting	Plans Included
			Building A	HA1	3	50		150	<b>Building Add</b>	itions
Site A	Allowance Remaining:	1300	Building A	HA2	1	90		90		
rea (ft <sup>2</sup> ), perimeter (lf) or # of items	) Allowed Watts per ft <sup>2</sup> , if or item	Allowed Watts x ft <sup>2</sup> (or x lf) NOTE 2	Building A	HA3	7	135	0	945	Refer to Section C5 requirements.	02.2.6 for additional
or # or norma	perit, noritem	XIL (DI XII)	Building A Building A	RA1 RB1	.27	32 12		864		
		(	Building A	WA1	17	29		493		
			Building A	WB1	4	40		160		
			Building A	X1	21	3	e	63	-	
Number of	Watts per	Watts		P	oposed Retail Disp	lay Lighting from	LTG-INT-DISPLAY		Lighting S	ummary.
Fixtures	Fixture NOTE 6	Proposed	Total Proposed	Watts may not exceed Total Allowed Watts for Interior L	ghting	Te	otal Proposed Watts	5365	2015 Washington Sta	
	1. K	1	Interior Lig	hting Power Allowance			COMPLIES V	VITH C406.3	Project Title:	EHA BAKER HEIG
		(	Note 1 - List all un	nique space types per Table C405.4.2(2) that occur in th ceiling height for atriums and spaces utilizing the ceiling	e project scope. Se	elect space type	category from drop	down menu.	Change of Spa	ice Use
Non-Tradable V	Vatts Exceeding LPA:	0	Note 3 - List all pr	roposed lighting fixtures including exempt lighting equipr	nent and existing-to	o-remain fixtures	5.		1.2	
Rema	aining Site Allowance:	1300	For	osed Fixture Description, indicate fixture type, lamp type				type (if included).		
COMPLIES	WITH MAX. A	LOWANCE	Note 5 - For light	nting, list the length of the track (in feet) in addition to the ing equipment eligible for exemption per C405.4.1, note	exception number	and leave Watts	/Fixture blank		Interior and E	xterior
	surface categories fro		Note 6 - Existing- existing	to-remain fixtures shall be included in the Proposed Ligh	iting Wattage table	in the same ma	anner as new fixture:	s. Identify as	Lighting Alter	ations
	e table to generate Li			description. osed Watts/Fixture enter the luminaire wattage for instal	led lamp and balla	stusing manufa	cturer or other appro	oved source. For	Select all Lighting Po	
	ire, and ballast type (i			es with screw-in lamps, enter the manufacturer's listed m					Control elements that of the retrofit project.	. If project includes a
	ting Wattage tables in			enter the wattage of the transformer. For line voltage tra	ck/buswey system:	s, enter the large	er of the attached lu	minaire wattage or		fixtures are replaced in
	anufacturer or other a fixture (not the lamp v		watts/line	al foot, or enter the wattage limit of permanent current I t/Exhibit Display Allowance is independent of the Maxin	imiting device.	a Wattara Ent	ar all amagazad labb	u adlovbibit display	some spaces, and 5 fixtures are replaced	
imber of ATM machin	nes or depositories wi	thin that location. If	fixtures i	n LTG-INT-DISPLAY form only.	ioni Anomeo Lignui	iy wanaye. Em	er all proposed lobo	y albexinoir display	provide separate ligh compliance forms for	
	Maximum Allowed Lig			on Area Details; ng fixtures in a building addition may comply as a stand ng systems to demonstrate compliance. Refer to C502.1	alone project, or th	ey may be com	bined with the overa	Il existing building	conditions. Spaces u type of retrofit may b	Indergoing the same be combined into one
				Iterations and building additions, provide Space Types a	nd gross interior at	eas in the Maxi	mum Allowed Lightii	ng Wattage table. If	lighting power compl	
			buildi	ng addition will comply as combined with the overall exis ross inlerior areas.	sting building lightir	ng systems, inclu	ude all applicable ex	isting Space Types	Refer to Section C50 requirements.	13.6 for additional
				than 50% of existing lighting fixtures will be replaced, p	rovide total existing	g lighting wattage	e (prior to alteration)	) in the space	All alteration lighting commissioned per C	
									commissioned per o	
										re being made to exterior lighting
									systems and e	exterior lighting existing space figuration are not



p.//	le, WA 9810	
	AB	P FUTURE PHASE
engine 1601 Fift Seattle, V www.glut T. 206.26 Project M	F ers for a susta L h Ave., Suite 22 NA 98101 mac.com 62.1010	CH COMPANY inable future <sup>™</sup>
		R HEIGHTS
F	~	VERETT DUSING AUTHORITY
BUILD BUILD BUILD EVER	DING B: 27 DING C: 28 DING D: 28 ETT, WA 9	10 14TH STREET 15 15TH STREET 15 15TH STREET 10 14TH STREET 8201
3107 (		
EVER 3107 (	ETT HOUS COLBY AV	E
EVER 3107 ( EVER	ETT HOUS COLBY AV ETT, WA 9	E
EVER 3107 ( EVER	ETT HOUS COLBY AV ETT, WA 9	E 8201
EVER 3107 ( EVER	ETT HOUS COLBY AV ETT, WA 9	E 8201
EVER 3107 ( EVER	ETT HOUS COLBY AV ETT, WA 9	E 8201 DESCRIPTION DESCRIPTION BUILDING PERMIT SUBMITTAL 80% HUD SUBMITTAL DESIGN DEVELOPMENT
EVER 3107 ( EVER MARK REVI:	ETT HOUS COLBY AV ETT, WA 9	E 8201  DESCRIPTION  BUILDING PERMIT SUBMITTAL  80% HUD SUBMITTAL  BUILDING PERMIT SUBMITTAL  SCHEMATIC DESIGN  DESCRIPTION
EVER 3107 ( EVER MARK REVI:	ETT HOUS COLBY AV ETT, WA 9 DATE 1 SIONS 06/08/2020 04/10/2020 01/07/2020 DATE E INFORM	E 8201  DESCRIPTION  BUILDING PERMIT SUBMITTAL  BUILDING PERMIT SUBMITTAL  DESIGN DEVELOPMENT  SCHEMATIC DESIGN  DESCRIPTION  ATION
EVER 3107 ( EVER MARK REVIS	ETT HOUS COLBY AV ETT, WA 9 DATE 1 SIONS 06/08/2020 04/10/2020 01/07/2020 DATE E INFORM	E 8201 DESCRIPTION DESCRIPTION DESCRIPTION BUILDING PERMIT SUBMITTAL 80% HUD SUBMITTAL DESIGN DEVELOPMENT SCHEMATIC DESIGN DESCRIPTION ATION 201703
EVER 3107 ( EVER MARK REVIS	ETT HOUS COLBY AV ETT, WA 9 DATE I SIONS 06/08/2020 04/10/2020 01/07/2020 01/07/2020 DATE E INFORM CT NO.: PAL IN CHARG CT NO.: PAL IN CHARG CT NO.:	E 8201 DESCRIPTION DESCRIPTION DESCRIPTION BUILDING PERMIT SUBMITTAL 80% HUD SUBMITTAL DESIGN DEVELOPMENT SCHEMATIC DESIGN DESCRIPTION ATION ATION E: Jon H

SUBMIT HUD 80% A BMI SU ERMI đ C DIN Ш

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**E-011** 

			ectrical Permit Checklist, Pg. 3		LTG-CHK
			Forms for Commercial Buildings including R2, R3, R4 over 3 sto	the second se	Revised Nov 201
Project Title		EHA BAKER HEIGH		Date	6/8/2020
The followin Applicability	• • • • • • • • • • • • • • • • • • •	a necessary to check a	permit application for compliance with the lighting, motor, and el	ectrical requirement Location in	s in the Building Departmen
	Code Section	Component	Compliance information required in permit documents	Documents	Notes
INTERIO	RLIGHTING	POWER & EFFI	CACY		
			Include all luminaires in lighting fixture schedule; indicate fixture types, lamps, ballasts. and manufacturer's rated watts per fixture;	E-003	
Yes	C405.4.1	Total connected interior lighting	Identify spaces eligible for lighting power exemption on plans and in compliance forms, indicate the exception applied;	NA	-
	C405.4.2	power	Identify lighting equipment eligible for lighting power exemption in fixture schedule and in compliance forms; indicate the exception applied;	NA	
			Indicate that exempt lighting equipment is in addition to general area lighting and is controlled independently	NA	
Yes	C405.3	Exit signs	Indicate location of exit signs on plans and rated watts per fixture in lighting fixture schedule (maximum 5 watts per side)	E-003, E-2XX SERIES	
NA	C405.1	Lighting in dwelling units - lamp efficacy	If high efficacy exception is applied to permanently installed lighting fixtures in dwelling units, indicate in lighting fixture schedule if lamps in fixtures are high efficacy per R404.1. Calculate percentage of fixtures with high efficacy lamps in project (min 75% to comply with exception).	NA	
Interior Lig	nting Power C	alculation - Indicate c	ompliance path taken		
NA	C405.4.2.1	Building Area Method	Complete required compliance forms – proposed wattage per building area does not exceed maximum allowed wattage per building area; identify locations of building areas on plans	NA	
Yes	C405.4.2.2	Space-By-Space Method	Complete required compliance forms – total proposed wattage does not exceed maximum allowed wattage; identify locations of space types on plans, including retail display areas, lobby art & exhibit display areas, and ceiling heights as applicable	E-011, E-012, E- 013	
ADDITIO	NAL EFFICI	ENCY PACKAGE	<b>OPTION - REDUCED INTERIOR LIGHTING POW</b>	ER DENSITY	
Yes	C406.3	Reduced lighting power density	To comply with additional efficiency package option, demonstrate in compliance forms that total connected interior lighting wattage is 25% less than the total maximum allowed lighting wattage via Building Area Method or Space-By-Space Method	E-011, E-012, E- 013	
Yes	C406.3	Reduced lighting power density - dwelling unit lamp efficacy	For project with dwelling units, to comply with additional efficiency package option indicate in lighting fixture schedule if lamps in interior fixtures have efficacy rating of 60 lumens per watt or more. Calculate percentage of fixtures with lamps that have this efficacy rating (min 95% to comply with option)	E-011, E-012, E- 013	1
EXTERIO	R LIGHTIN	G POWER & EFF	CACY		
			Include all luminaires in lighting fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's rated watts per fixture;	E-003	
Yes	C405.5.2	Total connected exterior lighting power	Identify exterior applications eligible for lighting power exemption on plans and in compliance forms; indicate exception applied;	NA	
			Indicate that exempt exterior lighting is controlled independently from non-exempt exterior lighting; include exception claimed for each fixture or group of fixtures under exception category		
Yes	Table C405.5.2(1)	Exterior lighting zone	Indicate building exterior lighting zone as defined by the AHJ	E-011, E-012, E- 013	
Yes	C405.5.1	Exterior building grounds lighting	For building grounds fixtures rated at greater than 100 watts that are complying based on efficacy, indicate rated lamp efficacy (in lumens per watt) in fixture schedule	E-003	
Yes	C405.5.2	Exterior lighting power calculations	Complete required compliance form – proposed wattage for exterior lighting plus base site allowed does not exceed maximum allowed	E-011, E-012, E- 013	

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		tor, and El	Forms for Commercial Buildings including R2, R3, R4 over 3 sto		Revised Nov 201
Project Title		EHA BAKER HEIGH	TS	Date	6/8/2020
The following	g information is	s necessary to check a	permit application for compliance with the lighting, motor, and ele	ectrical requirement	s in the
Applicability (yes.no.na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Department Notes
NA	C405.2.5 - Item 3	Hotel/motel guest rooms	Indicate method of automatic control - vacancy or captive key control of all installed luminaires and switched receptacles in guest room	NA	
NA	C405.2.5 - Item 4	Supplemental task. lighting	Indicate method and location of automatic shut-off vacancy	NA	
-	1.2	1.2	Indicate on plans eligible non-visual lighting applications, include sq. ft. area of each lighting control zone;	NA	
NA	C405.2.5 - Item 5	Lighting for non- visual applications	Indicate on plans that non-visual lighting are controlled independently from both general area lighting and other lighting applications within the same space;	NA	
			Indicate method of manual lighting control and applicable automatic lighting control	NA	
NA	C405.2.5 - Item 6	Lighting equipment for sale or	Indicate on plans that lighting equipment for sale or demonstration are controlled independently from both general area lighting and other lighting applications within the same space;	NA	
	11	demonstration	Indicate method of manual lighting control and applicable automatic lighting control	NA	
	1		Identify on plans egress fixtures that function as both normal and emergency means of egress illumination;	NA	
	C405.2.5 -	Means of egress	Provide calculation of lighting nower density of total earess	NA	
Yes	Item 7	lighting	If total egress lighting power density is greater than 0.02 W/sq. ft., indicate on plans egress fixtures requiring automatic shut-off during unoccupied periods;	NA	
A	·		Indicate method of automatic shut-off control	E-004	
			Indicate on exterior lighting plans and fixture schedules the automatic lighting control method, control sequence, and locations served;	E-004	
Yes	C405.2.7	Exterior lighting	For building facade and landscape lighting, indicate automatic controls shut off lighting as a function of dawn/dusk and fixed opening/closing time;	E-004	
		controls	For all other exterior lighting, indicate automatic controls shut off lighting as a function of available daylight; include control sequence that also reduces lighting power by at least 30% between 12am-6am, or from 1 hour after closing to 1 hour before opening, or based upon motion sensor	E-004	
Yes	C405.5.1	Exterior building grounds lighting controls	For building grounds fixtures greater than 100 watts, indicate on plans whether fixtures have efficacy greater than 80 lumens or; are controlled by motion sensor, or are exempt lighting per C405.5.2	NA	
NA	C405.2.5 (listed after	Area controls - Master control switches and circuit	Indicate location(s) of master control switch(es) intended to control multiple independent switches; circuit breaker may not be used as a master control switch;	NA	
	C405.2.7)	power limit	Verify that no 20 amp circuit controlled by a single switch or automatic control is loaded beyond 80%	NA	
ADDITION	VAL EFFICI	ENCY PACKAGE	OPTION - ENHANCED DIGITAL LIGHTING CONT	ROLS	1
	0.05	Enhanced digital	To comply with additional efficiency package option, indicate on plans all interior lighting fixtures that are individually addressed and provided with continuous dimming, or exception taken;		
NA	C406.4	lighting controls	Include calculation of percent total installed interior lighting power that is configured with required enhanced lighting control functions (min 90% to comply with additional efficiency package option)	NA	

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		Code, Commercial Prov	permit application for compliance with the lighting, motor, and el- visions.	ectrical requirement	
pplicability yes,no,na)	Code Section	Component.	Compliance information required in permit documents	Location in Documents	Building Departme Notes
IGHTING	CONTRO	LS			
Yes	C405.2	Lighting controls, general	For all lighting fixtures, indicate lighting control method on plans for spaces and lighting zone(s) served, or exception taken	E-004	
NA	C405.2	Luminaire level lighting controls (LLLC)	Indicate on plans all fixtures provided with LLLC in lieu of C405.2 lighting controls; provide description of control capabilities and performance parameters	NA	
Yes	C405.1	Lighting in dwelling units	For permanently installed lighting fixtures in dwelling units, indicate lighting control method on plans for spaces and lighting zone(s) served, or demonstrate compliance with high efficacy exception	E-004	
Yes	C405.2.3 C405.2.1.1 C405.2.2.2 C405.2.4 C405.2.5	Manual controls	Indicate on plans the method of manual lighting control (whether combined with occupancy sensor, automatic light reduction, daylight responsive or specific application controls), location of manual control device and area or specific application it serves	E-004, E2XX SERIES	
Yes	C405.2.2.1 C405.2.2.2 C405.2.3	Manual interior light reduction controls	Indicate on plans which method of manual 50% lighting load reduction is provided, or whether lighting load is reduced via occupancy sensors or daylight responsive controls	E-004	
Yes	C405.2.2	Method of automatic	Indicate on plans the method of automatic shut-off control during unoccupied periods (occupancy sensor, time switch or digital timer switch) for all lighting zones;	E-004	
Tea	0403.2.2	shut-off control	Indicate locations where automatic shutoff is provided by other methods (occupancy sensor or digital timer switch) or which time switch control exception applies	E-004	
			Indicate on plans the spaces served by occupancy sensors;	E2XX SERIES	
Yes	C405.2.1 C405.2.1.1	Occupancy sensor controls	Indicate whether occupancy sensor controls are configured to be manual-on, automatic 50%-on, or serve a space eligible for automatic 100%-on per exception	E-004	
NA	C405.2.1.2	Occupancy sensor controls - warehouses	Indicate aisleways and open areas in warehouse spaces provided with occupancy sensor controls that reduce lighting power by 50%	NA	
Yes	C405.2.2.1	Automatic time switch controls	Indicate locations of override switches on plans and the lighting zone(s) served, include area sq. ft.	E2XX SERIES	
Yes	C405,2.6	Digital timer switch	Indicate digital timer switch control includes: manual on/off, time delay, audible and visual indication of impending time-out	E-004	
	1.000		Indicate primary and secondary sidelight daylight zone areas on plans, include sq. ft.;	E-210, E-211	
Yes	C405.2.4.2 C405.2.4.3	Daylight zones - Sidelight and toplight	Indicate toplight daylight zone areas on plans, include sq. ft.: For small vertical fenestration assemblies (rough opening less than 10 percent of primary daylight zone) where daylight responsive controls are not required, provide fenestration area to daylight zone calculation(s)	NA NA	
			Indicate on plans lighting zone(s) served by daylight responsive controls:	E-004	· · · · · · · · · · · · · · · · · · ·
	G105 0.4	Daylight responsive	Identify sidelight and toplight daylight zones that are not provided with daylight sensing controls and the exception(s) that apply;	NA	
Yes	C405.2.4	controls	Indicate on plans the lighting load reduction method - continuous dimming, or stepped dimming that provides at least two even steps between 0%-100% of rated power;	E-004	
			Indicate that daylight sensing controls are configured to completely shut off all controlled lights in the lighting zone	E-004	
Yes	C405.2.5	Additional controls - Specific application lighting controls	Identify spaces and lighting fixtures on plans that require specific application lighting controls per this section	E2XX SERIES	1
NA	C405.2.5 - Items 1&2	Display and accent lighting	Indicate on plans that display and accent lighting, and display case lighting are controlled independently from both general area lighting and other lighting applications within the same space;	NA	
			Indicate manual and automatic lighting control method	NA	Q.C.

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		EHA BAKER HEIGH	TS	Date	6/8/2020
The followin	g information is	necessary to check a	permit application for compliance with the lighting, motor, and ele	actrical requirements	s in the
Applicability (yes.no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Departm Notes
MOTORS	, TRANSFO	RMERS, ELECT	RIC METERS, INTERIOR TRANSPORTATION		
NA	C405.6	Electrical transformers	Include electrical transformer schedule on electrical plans; indicate transformer size, efficiency, or exception taken	NA	
Yes	C405.7	Dwelling unit electrical energy consumption	Indicate on electrical plans that each dwelling unit in Group R-2 has a separate electrical energy meter	E-501	
Yes	C405.8	Electric motor efficiency	Include all motors, including fractional hp motors, in electric motor schedule on electrical plans; indicate hp, rpm, rated efficiency, or exception applied	E-002	
			For luminaires in each elevator cab, provide calculated average efficacy of combined fixtures that indicates efficacy is not less than 35 lumens per watt;	E-501	
Yes	C405.9.1	Elevalor cabs	Indicate rated watts per cfm for elevator cab ventilation fans do not exceed 0.33 watts per cfm;	E-501	
			Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoccupied for a period of 15 minutes or more	E-501	
NA	C405.9.2	Escalators and moving walks	Indicate escalators comply with ASME A17.1/CSA B44; automatic controls are configured to reduce operational speed to the minimum permitted when not in use	NA	
NA	C405.9.3	Regenerative drive	Indicate all one-way down or reversible escalators are provided with a variable frequency regenerative drive	NA	
DOCUME	NTATION A	ND SYSTEM RE	QUIREMENTS TO SUPPORT COMMISSIONING (	(x)	
Yes	C408.3	Scope of electrical power and lighting systems commissioning	Indicate that all electrical systems (receptacles, transformers, motors, vertical and horizontal transportation) for which the WSEC requires control functions and / or configuration to perform specific functions are required to be commissioned; Where total building lighting load is > 20 kW, or where total lighting load of luminaires requiring daylight sensing and / or occupancy control > 10 kW, indicate that all automatic lighting control systems are required to be commissioned; or provide building lighting power calculation demonstrating eligibility for	E-003 E-003	
			exception; Indicate Cx requirements in plans and specifications for all applicable electrical and lighting control systems per C408;	E-003	-
Yes	C405.13 C408.1.1 C408.1.2 C408.1.4.2	Commissioning requirements in construction documents	Include general summary with at minimum Items 1 thru 4 of the Cx plan per C408.1.2 including: narrative description of activities, responsibilities of the Cx team, schedule of activities including verification of project close out documentation per C103.6, and conflict of interest plan (if required);	E-003	
	C103.6	ocumenta	Include in general summary that a Cx project report or Compliance Checklist (Figure C408.1.4.2) shall be completed by the Certified Cx Professional and provided to the owner prior to the final electrical inspection	E-003	
Yes	C408.3.1	Functional performance testing criteria	Identify in plans and specifications the intended operation of all equipment and controls during all modes of operation, including interfacing between new and existing-to-remain systems	E-003	L
PROJECT	CLOSE O	UT DOCUMENTA			
Yes	C103.6.3	Project close out documentation requirements	Indicate in plans that project close out documentation is required including WSEC lighting compliance forms and calculations that document all interior and exterior lighting area and / or surface types. lighting power allowances and installed densities	E-011, E-012, E- 013	
If "no" is	selected fo	r any question, p	provide explanation:		

pplicability yes.no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Department Notes
IGHTING	ALTERAT	IONS			
NA	C503.6	Interior and parking garage lighting	Where ≥ 50% of existing luminaires in interior space(s) or parking garage are replaced; indicate compliance path (building area or space-by-space method); include all new and existing- to-remain luminaires in compliance form (LTG-INT-BLD or LTG- INT-SPACE); indicate proposed lighting wattage does not exceed maximum allowed per compliance path	NA	
Ma.	0.00.0	fixture alterations	Where < 50% of existing luminaires in interior space(s) or parking garage are replaced; indicate total existing lighting wattage in each space prior to alteration; include all new and existing-to-remain luminaires in LTG-INT-SPACE form; indicate proposed total lighting wattage in alteration area does not exceed total existing lighting wattage prior to alteration	NA	
52		Exterior lighting	Where ≥ 50% of existing exterior lighting wattage is replaced; include all new and existing-to-remain luminaires in LTG-EXT form; indicate proposed total exterior lighting wattage does not exceed maximum allowed	NA	
NA	C503.6	fixture alterations	Where < 50% of existing exterior lighting wattage is replaced; indicate total existing lighting wattage prior to alteration; include all new and existing-to-remain luminaires in LTG-EXT form; indicate proposed total exterior lighting wattage does not exceed total existing wattage prior to alteration	NA	
NA	C503.6	Interior lighting wiring alterations	Where new wiring is installed to serve new interior luminaires and /or luminaires are relocated to a new circuit; indicate lighting controls are provided (as applicable) - manual (C405.2.3); occupancy sensor (C405.2.1); daylight responsive (C405.2.4); specific application (C405.2.5); exit signs (C405.3)	NA	
NA	C503.6	Exterior lighting wining alterations	Where new wiring is installed to serve new exterior luminaires and /or luminaires are relocated to new circuit; indicate exterior lighting controls are provided (C405.2.7)	NA	
NA	C503.6	Lighting panel alterations	Where a new lighting panel is installed or an existing panel is moved (all new raceway and conductor wiring); indicate lighting controls are provided (as applicable) - same provisions as wiring alterations; time switch controls and manual light reduction controls (C405.2.2)	NA	
NA	C503.6	Interior space reconfiguration	Where interior space(s) is reconfigured (permanently installed	NA	
NA	C504.2	Lighting repairs	Identify existing luminaires being upgraded with bulb and / or ballast replacement; indicate fixture alteration does not Increase existing fixture wattage	NA	
1			Identify spaces on plans where the building area type or space use type is being changed from one type to another per Tables C405.4.2(1) or (2)	NA	
NA	C505.1	Change of space use	Indicate compliance path (building area or space-by-space method); include all new and existing-to-remain luminaires in compliance form (LTG-INT-BLD or LTG-INT-SPACE); indicate proposed lighting wattage does not exceed maximum allowed per compliance path	NA	
ECEPTA	CLES				
NA	C405.10	Controlled receptacles	and uncontrolled, duplex devices, etc;	NA	
			Indicate on plans whether the method of automatic control for each controlled receptacle zone is by occupant sensor or programmable time-of-day control	NA	

Applicability	0	H THE REAL PROPERTY AND A DESCRIPTION OF A DESCRIPTIONO OF A DESCRIPTION O	permit application for compliance with the lighting, motor, and ele	Location in	Building Department
	Code Section	1 2 Con . Sole / Re Con	Compliance information required in permit documents	Documents	Notes
LIGHTING	ALTERAT	IONS			
NA	C503.6	Interior and parking garage lighting	Where ≥ 50% of existing luminaires in interior space(s) or parking garage are replaced; indicate compliance path (building area or space-by-space method); include all new and existing- to-remain luminaires in compliance form (LTG-INT-BLD or LTG- INT-SPACE); indicate proposed lighting wattage does not exceed maximum allowed per compliance path	NA	
	0000.0	fixture alterations	Where < 50% of existing luminaires in interior space(s) or parking garage are replaced; indicate total existing lighting wattage in each space prior to alteration; include all new and existing-to-remain luminaires in LTG-INT-SPACE form: indicate proposed total lighting wattage in alteration area does not exceed total existing lighting wattage prior to alteration	NA	
		Exterior lighting	Where ≥ 50% of existing exterior lighting wattage is replaced; include all new and existing-to-remain luminaires in LTG-EXT form; indicate proposed total exterior lighting wattage does not exceed maximum allowed	NA	
NA	C503.6	fixture alterations	Where < 50% of existing exterior lighting wattage is replaced; indicate total existing lighting wattage prior to alteration; include all new and existing-to-remain luminaires in LTG-EXT form; indicate proposed total exterior lighting wattage does not exceed total existing wattage prior to alteration	NA	
NA	C503.6	Interior lighting wiring alterations	Where new wiring is installed to serve new interior luminaires and /or luminaires are relocated to a new circuit; indicate lighting controls are provided (as applicable) - manual (C405.2.3); occupancy sensor (C405.2.1); daylight responsive (C405.2.4); specific application (C405.2.5); exit signs (C405.3)	NA	
NĄ	C503.6	Exterior lighting winng alterations	Where new wiring is installed to serve new exterior luminaires and /or luminaires are relocated to new circuit; indicate exterior lighting controls are provided (C405.2.7)	NA	
NA	C503.6	Lighting panel alterations	Where a new lighting panel is installed or an existing panel is moved (all new raceway and conductor wiring); indicate lighting controls are provided (as applicable) - same provisions as wiring alterations; time switch controls and manual light reduction controls (C405.2.2)	NA	
NA	C503.6	Interior space reconfiguration	Where interior space(s) is reconfigured (permanently installed walls or ceiling-height partitions): indicate lighting controls are provided (as applicable) - same provisions as lighting panel alterations	NA	
NA	C504.2	Lighting repairs	Identify existing luminaires being upgraded with bulb and / or	NA	
leu'			Identify spaces on plans where the building area type or space use type is being changed from one type to another per Tables C405.4.2(1) or (2)	NA	
NA	C505.1	Change of space use	Indicate compliance path (building area or space-by-space method); include all new and existing-to-remain luminaires in compliance form (LTG-INT-BLD or LTG-INT-SPACE); indicate proposed lighting wattage does not exceed maximum allowed per compliance path	NA	
RECEPTA	CLES		Les servicementes peur		
	C405.10	Controlled receptacles	Identify all controlled and uncontrolled receptacles on electrical plans in each space in which they are required; include receptacle configuration such as spacing between controlled and uncontrolled, duplex devices, etc;	NA	
-			Indicate on plans whether the method of automatic control for each controlled receptacle zone is by occupant sensor or programmable time-of-day control	NA	

End of Lighting, Motor & Transformer Permit Documents Checklist

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engin 1601 F Seattle, www.gl T. 206. Project	LUMAC A TETRA TECH COMPANY ■ ■ theers for a sustainable future ■ ■ tifth Ave., Suite 2210 a, WA 98101 Jumac.com .262.1010 t Manager: DeNayne Glenn o.: 20US00169	
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SCALE: 1" = 30'-0"

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## KEYED NOTES (#)

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1. PROVIDE UNDERGROUND SERVICE FEEDERS IN PVC CONDUIT 24" BELOW THE GRADE, FEEDERS SIZE REFER TO ELECTRICAL SINGLE LINE DIAGRAM.

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2. PROVIDE 1" EMPTY CONDUIT WITH PULL STRING TO FUTURE ELECTRIC VIHECLE CHARGER STATION LOCATION, STUB UP AT LEAST 12" ABOVE THE GRADE WITH CONDUIT CAPPED, REFER TO ARCHITECT DRAWINGS FOR EXACT FUTURE EV CHARGER STATION LOCATION.

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В	MARK DATE DESCRIPTION REVISIONS
	C       06/08/2020       BUILDING PERMIT SUBMITTAL /         80% HUD SUBMITTAL       80% HUD SUBMITTAL         B       04/10/2020       DESIGN DEVELOPMENT         A       01/07/2020       SCHEMATIC DESIGN         MARK       DATE       DESCRIPTION
А	ISSUE INFORMATION          PROJECT NO.:       2017033         PRINCIPAL IN CHARGE:       Jon Hall         PROJECT MANAGER:       Scott Schreffler         OWNER APPROVAL:       SHEET TITLE         SHEET TITLE       SITE PLAN -
	SHEET NO.

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# SHEET NOTES

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1. ALL FIXTURES ON THIS SHEET ARE CIRCUITED TO PANEL L1A1, UON.

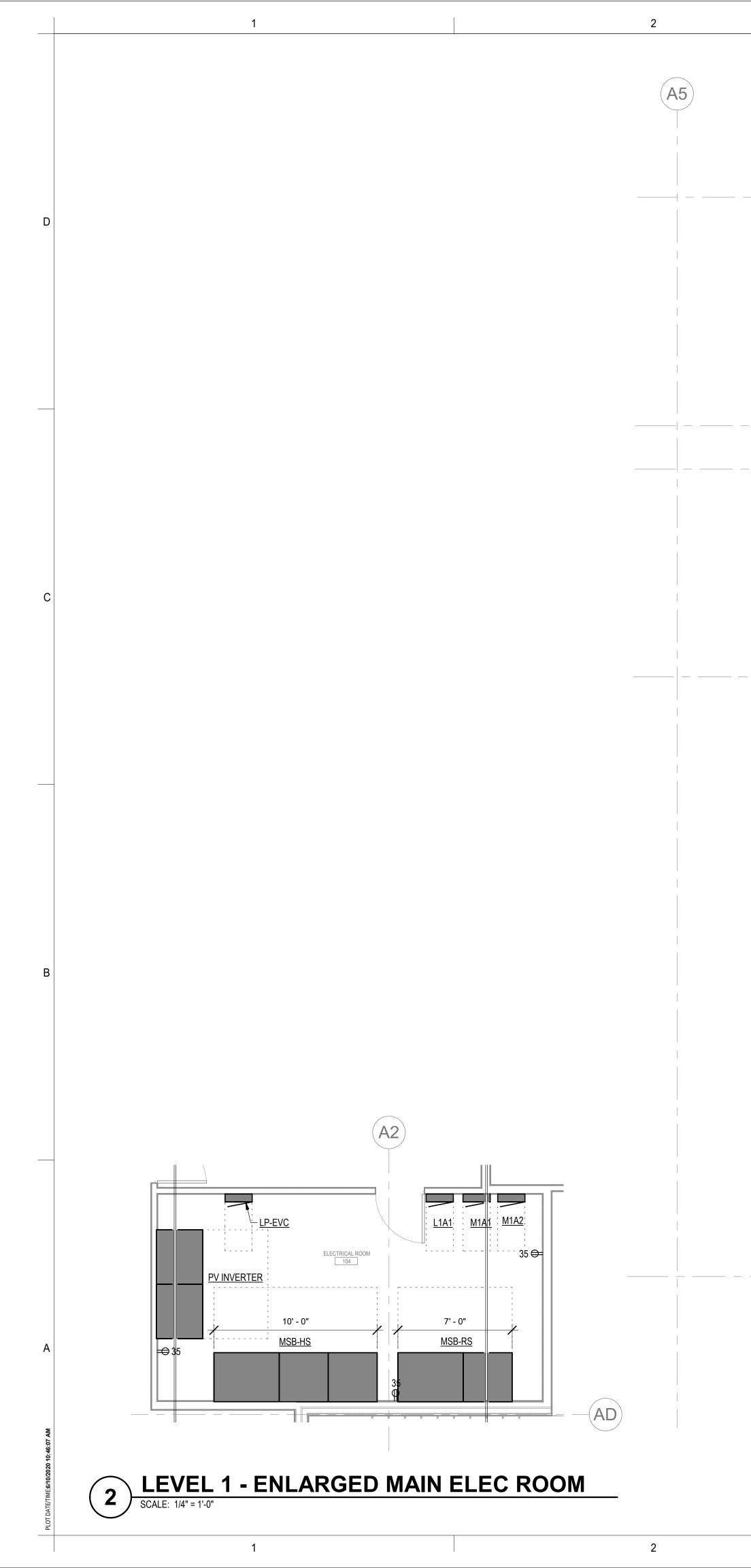


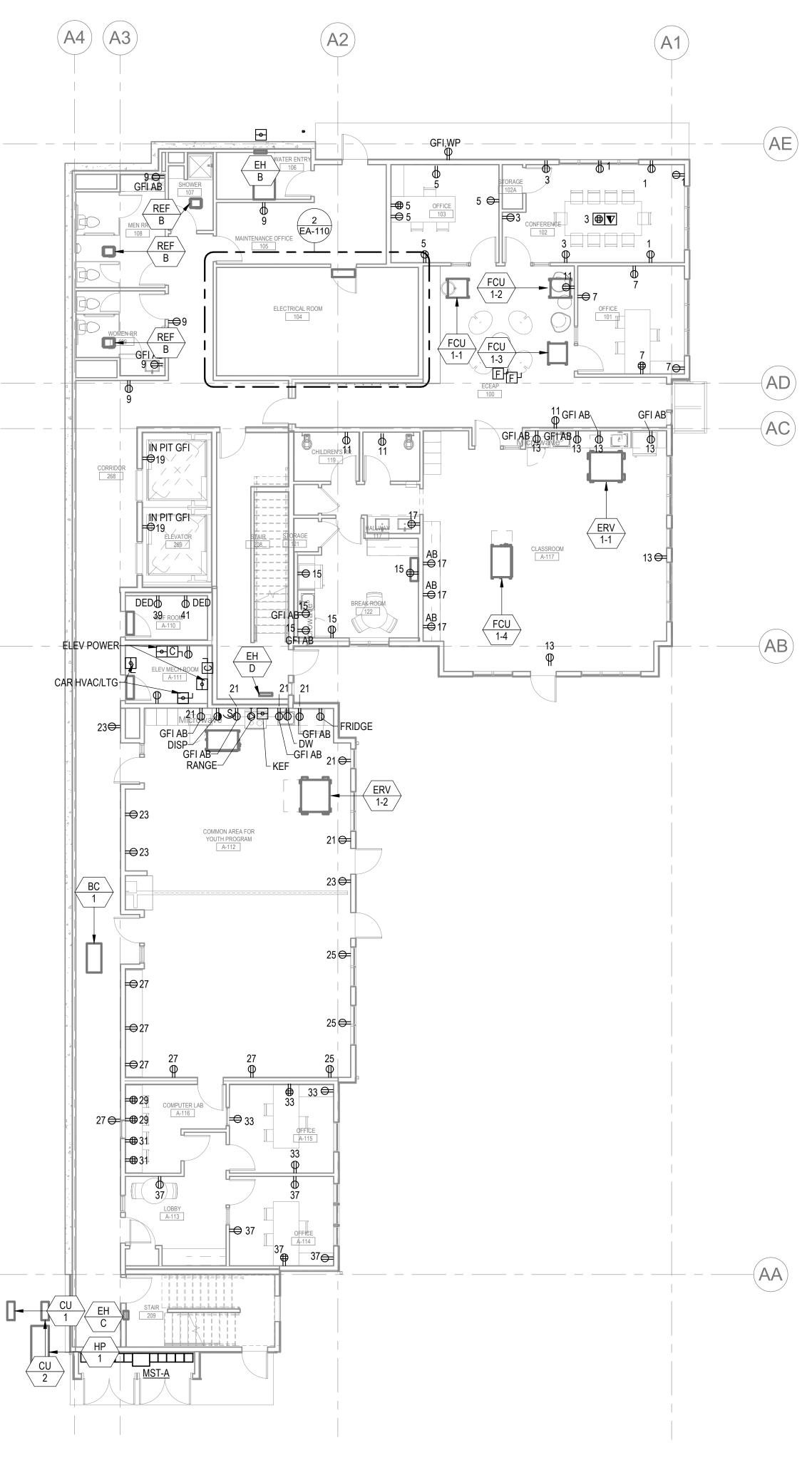
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BUILDING D: 2810 14TH STREET EVERETT, WA 98201 OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVE
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## **BUILDING A - LEVEL 1 FLOOR PLAN - POWER**

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

# **SHEET NOTES**

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- A. ALL RACEWAYS AND CONDUCTORS SHALL BE INSTALLED CONCEALED.
- B. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL TEST ALL EQUIPMENT PROVIDED BY OTHERS PRIOR TO INSTALLATION/CONNECTION AND IMMEDIATELY REPORT ANY DEFECTS TO THE ARCHITECT. ALL EQUIPMENT INSTALLED WILL BE ASSUMED TO HAVE BEEN TESTED AND FOUND TO BE IN WORKING ORDER BY THE CONTRACTOR.
- C. PROVIDE #10 AWG. NEUTRALS TO ALL 15A AND 20A RECEPTACLES THAT SHARE A COMMON NEUTRAL, UNLESS OTHERWISE NOTED. RESIDENTIAL UNITS BRANCH CIRCUITS SHALL BE 2#12AWG+#12G-1/2"C, UNLESS OTHERWISE NOTED AS FOLLOW:
  - a. RANGE CIRCUITS: 3#6AWG+#10G-3/4"C, b. STACKED WASHER/DRYER CIRCUTS: 3#10AWG+# <u>10G-3/4"C.</u>
- D. PROVIDE ACCESS PANELS PER CODE AND AS REQUIRED FOR ALL JUNCTION BOXES. COORDINATE WITH ARCHITECT AND CEILING CONTRACTOR. REFER TO ARCHITECT ENLARGED PLANS FOR ACCESSIBILITY NOTES RELATED TO UNIT OUTLETS AND SWITCHES.
- E. ALL ELECTRICAL ITEMS SHALL BE INDEPENDENTLY SUPPORTED ACCORDING TO CODE REQUIREMENTS.
- F. COORDINATE CONDUIT ROUTING WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS. ROUTE CONDUIT AS TO MINIMIZE PENETRATIONS THROUGH PARTITIONS BETWEEN OCCUPIED SPACES.
- G. BACK-TO-BACK OUTLETS ARE NOT PERMITTED. INSTALL IN SEPARATE STUD CAVITIES.
- H. SEE MEP COORDINATION SCHEDULES FOR REQUIREMENTS FOR CONNECTIONS TO MECHANICAL EQUIPMENT, DISCONNECTS, STARTERS, ETC.
- I. PROVIDE GFCI TYPE RECEPTACLES FOR ALL ACCESSIBLE RECEPTACLES IN KITCHEN AND DISHWASHER. SEE ARCHITECT PLANS FOR MOUNTING HEIGHT AND ADDITIONAL INFORMATION.
- J. PROVIDE AFCI TYPE BREAKERS IN THE LOAD CENTER FOR CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DENS, BEDROOMS, SUNROOMS, CLOSETS, HALLWAYS, LAUNDRY OR SIMILAR AREA.
- K. PROVIDE SMOKE ALARMS, COMBINATION SMOKE DETECTOR/CARBON MONOXIDE ALARM AS REQUIRED BY CODE.
- L. GANG ADJACENT LIGHT SWITCHES UNDER ONE FACEPLATE. TYPICAL UNLESS OTHERWISE NOTED OR DIRECTED BY ARCHITECT.
- M. PROVIDE TAMPER-RESISTANCE RECEPTACLES FOR ALL UNITS RECEPTACLES.
- N. REFER TO DRAWING <u>EX.XX</u> FOR EACH RESIDENTIAL UNIT LOAD CALCULATION, REFER TO DRAWING <u>EX.XX</u> FOR TYPICAL UNITS PANELBOARD CIRCUIT BREAKER INFORMATION.
- O. ALL RECEPTACLES CIRCUIT AT EXTERIOR WALL IN EACH UNIT SHALL BE INDIVIDUALLY DROP FROM CEILING.
- P. UNIT LOAD CENTER PANEL SHALL BE MOUNTED SUCH THAT THE HIGHEST CIRCUIT BREAKER POSITION IS AT MAXIMUM 48" ABOVE FINISH FLOOR.
- Q. INSTALL ALL MDUS SUCH THAT THE TOP FRAME IS LOCATED AT 46"AFF.
- R. ALL RECEPTACLES IN THIS AREA TO BE CIRCUITED TO PANEL L1A1, UON.

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engineers for a sustainable future<sup>™</sup> ь д 1601 Fifth Ave., Suite 2210 Seattle, WA 98101 www.glumac.com T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169

PROJECT:

## EHA BAKER HEIGHTS



PROJECT ADDRESS:

**BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET EVERETT, WA 98201** 

OWNER: **EVERETT HOUSING AUTHORITY** 3107 COLBY AVE EVERETT, WA 98201

MARK	DATE	DESCRIPTION
	SIONS	
С	06/08/2020	BUILDING PERMIT SUBMITTA
		80% HUD SUBMITTAL
В	04/10/2020	DESIGN DEVELOPMENT
А	01/07/2020	SCHEMATIC DESIGN
MARK	DATE	DESCRIPTION
ISSU	e infori	MATION
PROJEC	T NO.:	201703
RINCIP	AL IN CHAR	GE: Jon

PROJECT MANAGER Scott Schreffler OWNER APPROVAL:

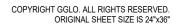
SHEET TITLE

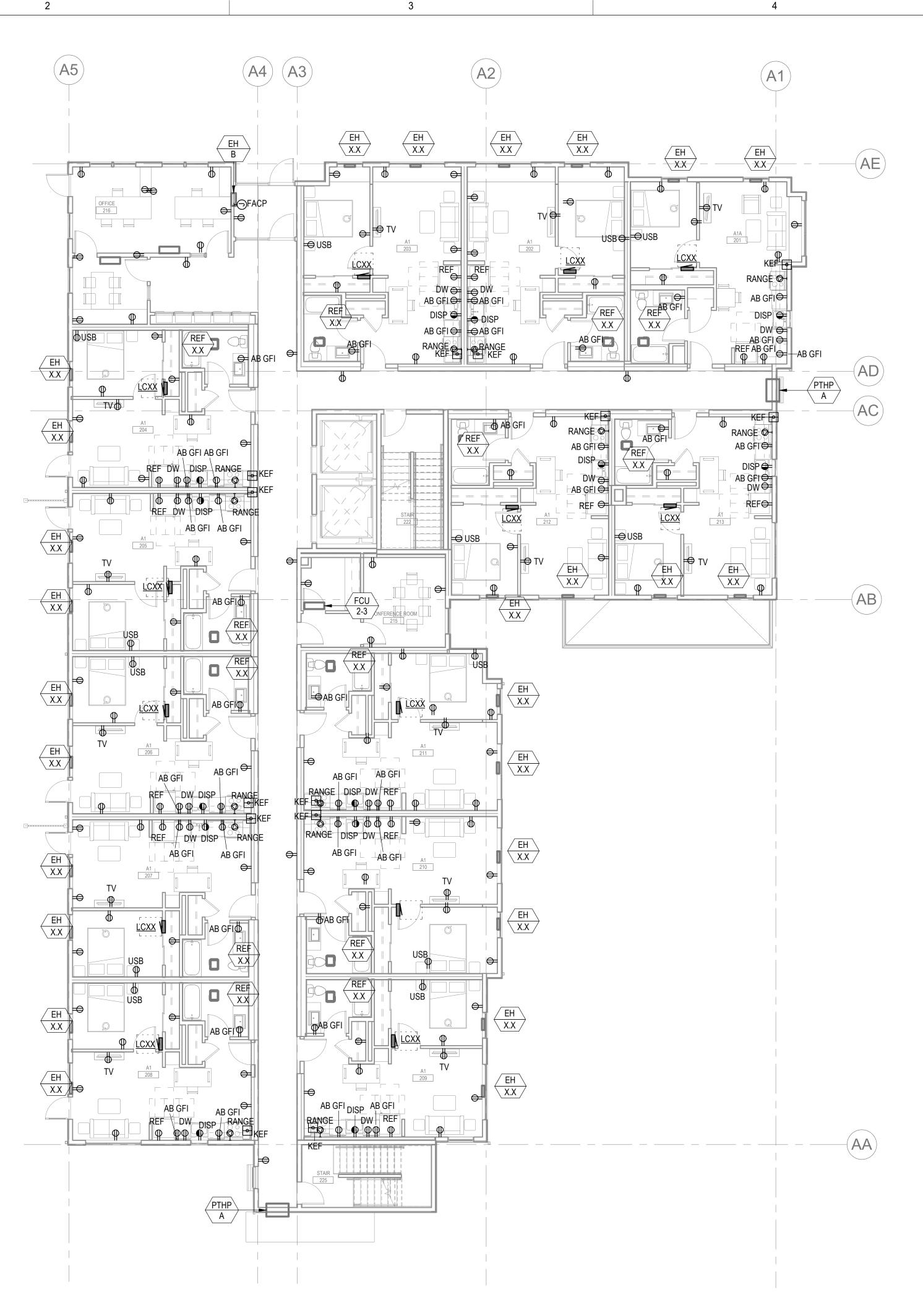
**BUILDING A - LEVEL 1 -**POWER

SHEET NO.

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**EA-110** 







1

1

# BUILDING A - LEVEL 2 FLOOR PLAN - POWER

# **SHEET NOTES**

- A. ALL RACEWAYS AND CONDUCTORS SHALL BE INSTALLED CONCEALED.
- B. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL TEST ALL EQUIPMENT PROVIDED BY OTHERS PRIOR TO INSTALLATION/CONNECTION AND IMMEDIATELY REPORT ANY DEFECTS TO THE ARCHITECT. ALL EQUIPMENT INSTALLED WILL BE ASSUMED TO HAVE BEEN TESTED AND FOUND TO BE IN WORKING ORDER BY THE CONTRACTOR.
- C. PROVIDE #10 AWG. NEUTRALS TO ALL 15A AND 20A RECEPTACLES THAT SHARE A COMMON NEUTRAL, UNLESS OTHERWISE NOTED. RESIDENTIAL UNITS BRANCH CIRCUITS SHALL BE 2#12AWG+#12G-1/2"C, UNLESS OTHERWISE NOTED AS FOLLOW:
  - a. RANGE CIRCUITS: 3#6AWG+#10G-3/4"C, b. STACKED WASHER/DRYER CIRCUTS: 3#10AWG+# <u>10G-3/4"C.</u>
- D. PROVIDE ACCESS PANELS PER CODE AND AS REQUIRED FOR ALL JUNCTION BOXES. COORDINATE WITH ARCHITECT AND CEILING CONTRACTOR. REFER TO ARCHITECT ENLARGED PLANS FOR ACCESSIBILITY NOTES RELATED TO UNIT OUTLETS AND SWITCHES.
- E. ALL ELECTRICAL ITEMS SHALL BE INDEPENDENTLY SUPPORTED ACCORDING TO CODE REQUIREMENTS.
- F. COORDINATE CONDUIT ROUTING WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO AVOID CONFLICTS. ROUTE CONDUIT AS TO MINIMIZE PENETRATIONS THROUGH PARTITIONS BETWEEN OCCUPIED SPACES.
- G. BACK-TO-BACK OUTLETS ARE NOT PERMITTED. INSTALL IN SEPARATE STUD CAVITIES.
- H. SEE MEP COORDINATION SCHEDULES FOR REQUIREMENTS FOR CONNECTIONS TO MECHANICAL EQUIPMENT, DISCONNECTS, STARTERS, ETC.
- I. PROVIDE GFCI TYPE RECEPTACLES FOR ALL ACCESSIBLE RECEPTACLES IN KITCHEN AND DISHWASHER. SEE ARCHITECT PLANS FOR MOUNTING HEIGHT AND ADDITIONAL INFORMATION.
- J. PROVIDE AFCI TYPE BREAKERS IN THE LOAD CENTER FOR CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DENS, BEDROOMS, SUNROOMS, CLOSETS, HALLWAYS, LAUNDRY OR SIMILAR AREA.
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- P. UNIT LOAD CENTER PANEL SHALL BE MOUNTED SUCH THAT THE HIGHEST CIRCUIT BREAKER POSITION IS AT MAXIMUM 48" ABOVE FINISH FLOOR.
- Q. INSTALL ALL MDUS SUCH THAT THE TOP FRAME IS LOCATED AT 46"AFF.

GLUMAC A TETRA TECH COMPANY F 7 engineers for a sustainable future<sup>™</sup> ь д 1601 Fifth Ave., Suite 2210 Seattle, WA 98101 www.glumac.com T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169 PROJECT: EHA BAKER HEIGHTS (A) EVERETT HOUSING AUTHORITY PROJECT ADDRESS: **BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET** BUILDING D: 2810 14TH STREET **EVERETT, WA 98201** OWNER: **EVERETT HOUSING AUTHORITY** 3107 COLBY AVE **EVERETT, WA 98201** MARK DATE DESCRIPTION REVISIONS 06/08/2020 BUILDING PERMIT SUBMITTAL 80% HUD SUBMITTAL 04/10/2020 DESIGN DEVELOPMENT 01/07/2020 SCHEMATIC DESIGN MARK DATE DESCRIPTION **ISSUE INFORMATION** 2017033 PROJECT NO .: Jon Hall PRINCIPAL IN CHARGE Scott Schreffler PROJECT MANAGER OWNER APPROVAL: SHEET TITLE **BUILDING A - LEVEL 2 -**POWER

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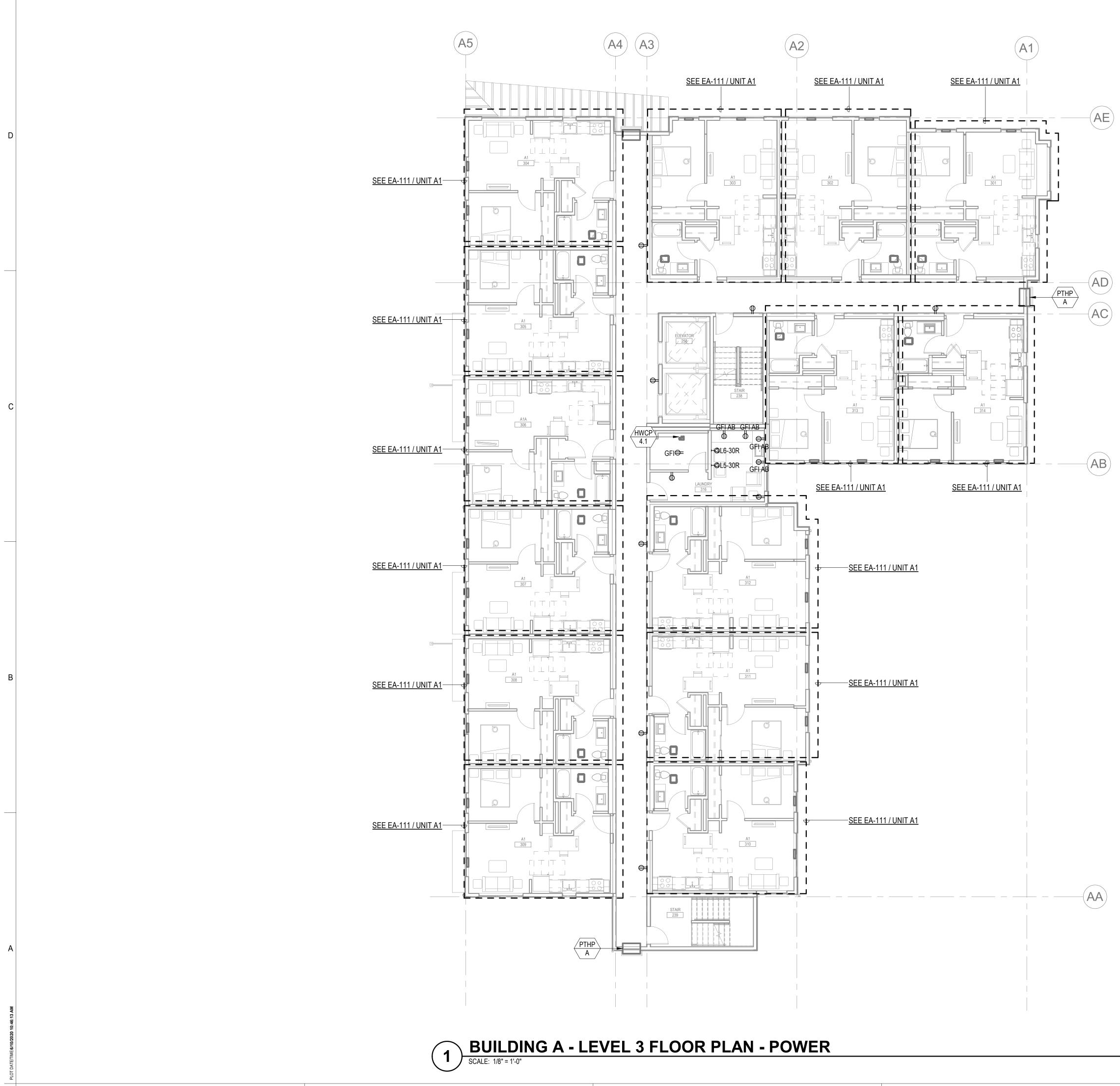
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**EA-111** 



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# **SHEET NOTES**

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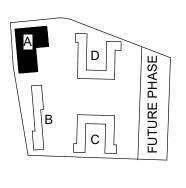
4

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#### GLUMAC A TETRA TECH COMPANY

F J engineers for a sustainable future  $\space{-1mu}$ ь д 1601 Fifth Ave., Suite 2210 Seattle, WA 98101 www.glumac.com T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169

PROJECT:

### EHA BAKER HEIGHTS



PROJECT ADDRESS:

**BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET EVERETT, WA 98201** 

OWNER: **EVERETT HOUSING AUTHORITY** 3107 COLBY AVE **EVERETT, WA 98201** 

MARK	DATE	DESCRIPTION
REVIS	SIONS	
С	06/08/2020	BUILDING PERMIT SUBMITTAL /
		80% HUD SUBMITTAL
В	04/10/2020	DESIGN DEVELOPMENT
А	01/07/2020	SCHEMATIC DESIGN
MARK	DATE	DESCRIPTION

**ISSUE INFORMATION** 

2017033

Jon Hall PRINCIPAL IN CHARGE Scott Schreffler PROJECT MANAGER OWNER APPROVAL:

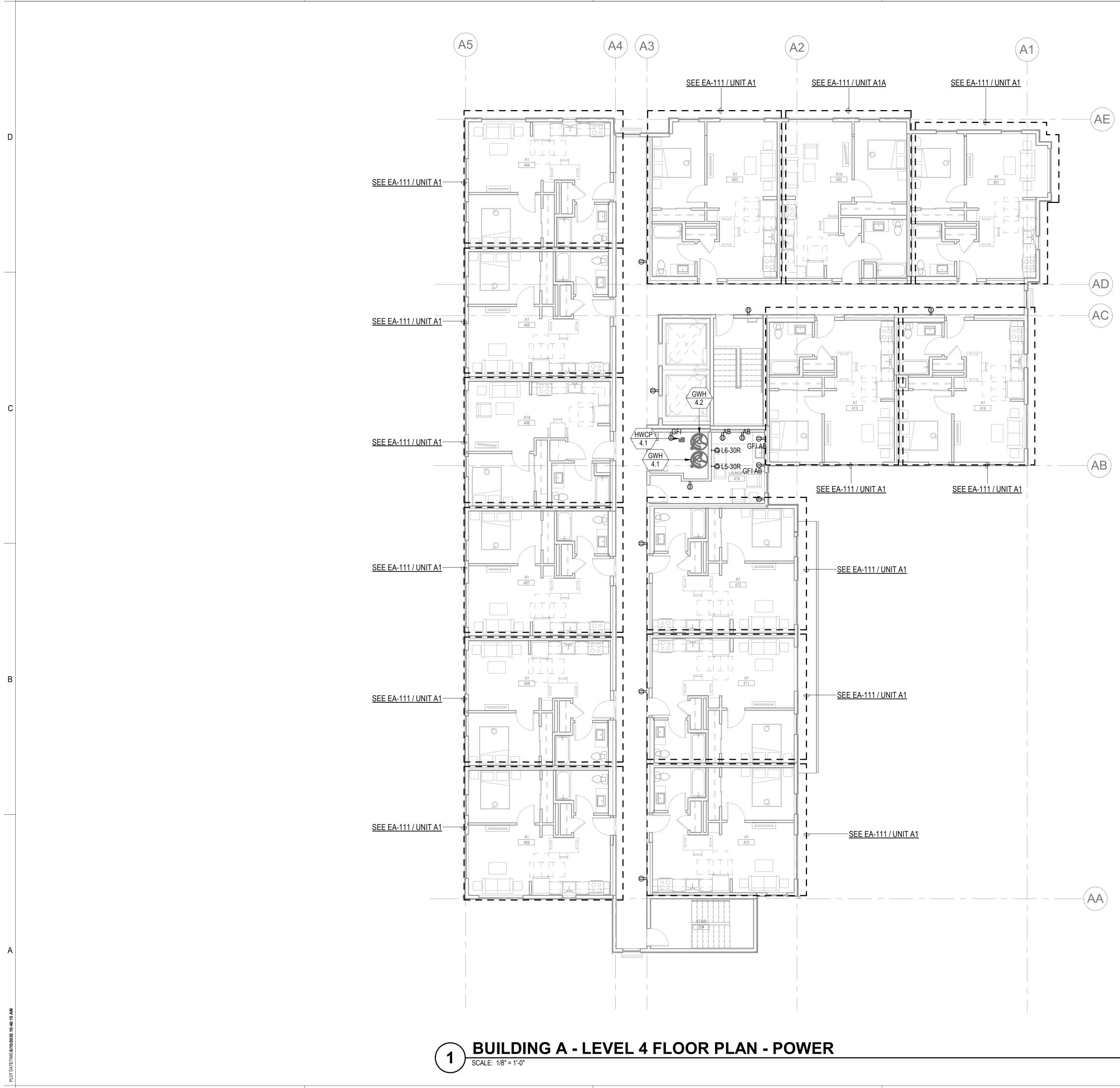
SHEET TITLE

PROJECT NO .:

**BUILDING A - LEVEL 3 -**POWER

SHEET NO.

**EA-112** 



2

# **SHEET NOTES**

4

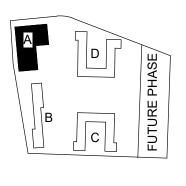
4

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#### GLUMAC A TETRA TECH COMPANY

r J engineers for a sustainable future<sup>™</sup> ь д 1601 Fifth Ave., Suite 2210 Seattle, WA 98101 www.glumac.com T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169

PROJECT:

### EHA BAKER HEIGHTS



PROJECT ADDRESS:

**BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET** EVERETT, WA 98201

OWNER: **EVERETT HOUSING AUTHORITY** 3107 COLBY AVE **EVERETT, WA 98201** 

MARK	DATE	DESCRIPTION
REVIS	SIONS	
С	06/08/2020	BUILDING PERMIT SUBMITTAL
		80% HUD SUBMITTAL
В	04/10/2020	DESIGN DEVELOPMENT
А	01/07/2020	SCHEMATIC DESIGN
MARK	DATE	DESCRIPTION

**ISSUE INFORMATION** 

2017033

Jon Hall Scott Schreffler

PROJECT NO .:

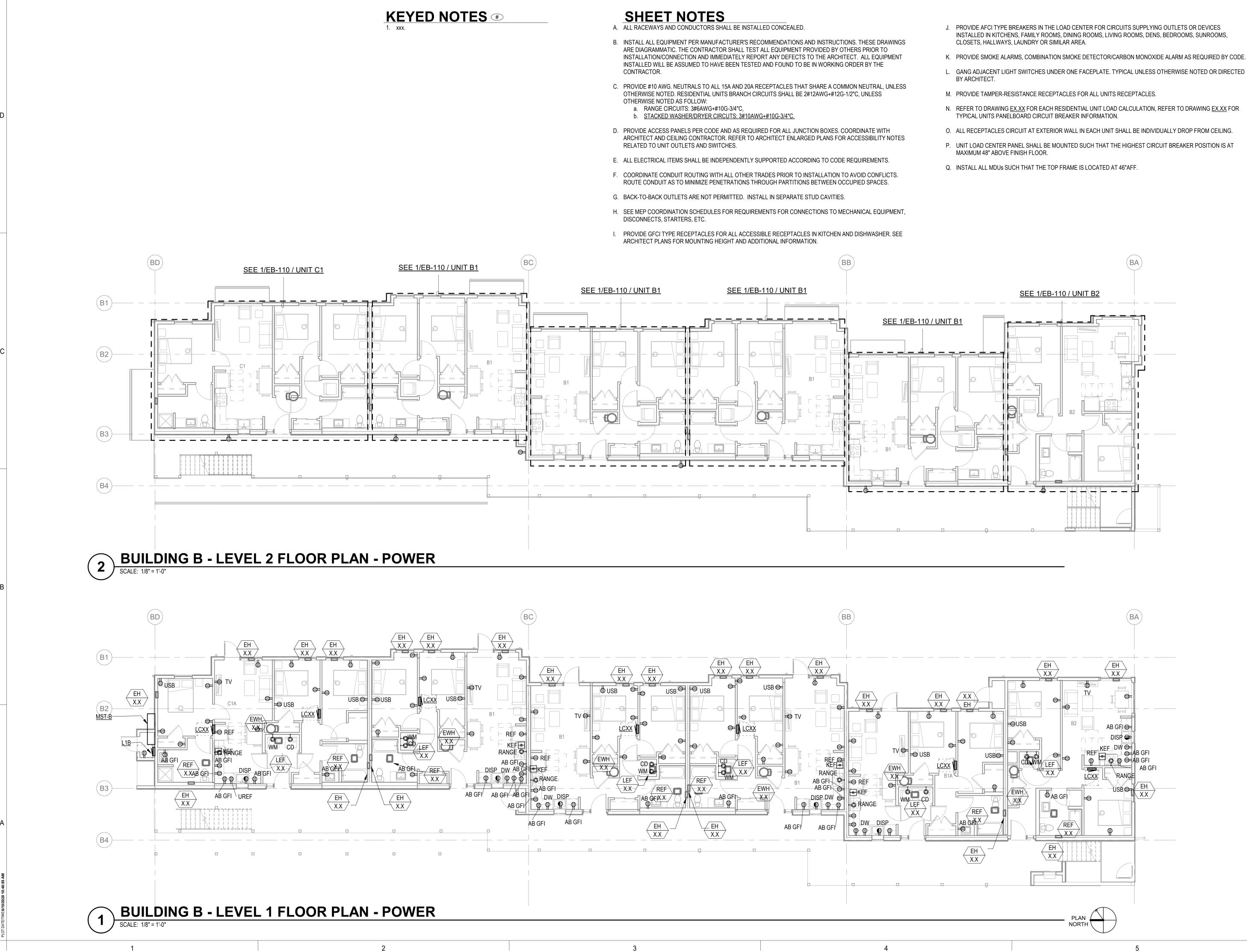
PRINCIPAL IN CHARGE

PROJECT MANAGER OWNER APPROVAL:

SHEET TITLE **BUILDING A - LEVEL 4 -**POWER

SHEET NO.

**EA-113** 



J. PROVIDE AFCI TYPE BREAKERS IN THE LOAD CENTER FOR CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DENS, BEDROOMS, SUNROOMS,

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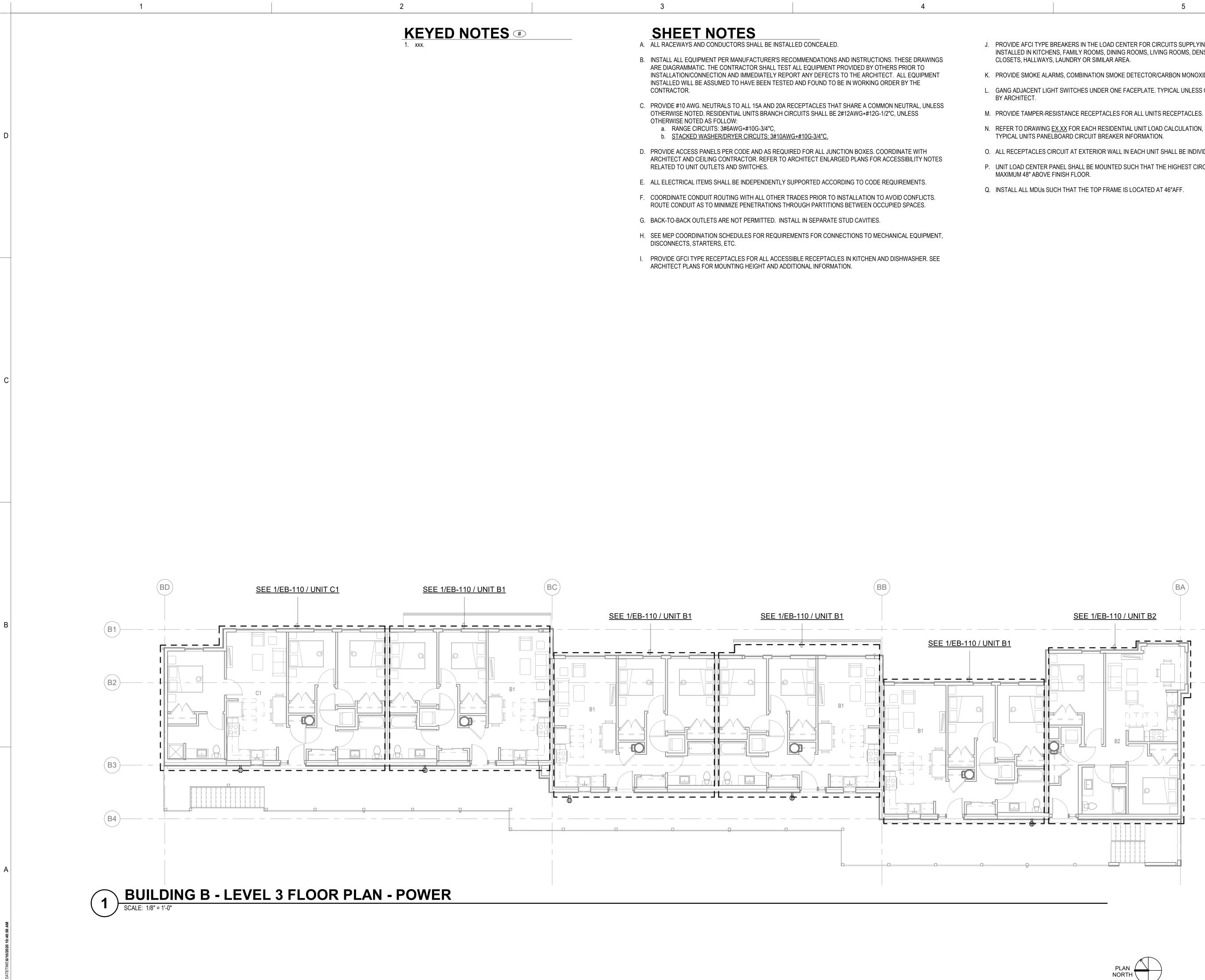
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P. UNIT LOAD CENTER PANEL SHALL BE MOUNTED SUCH THAT THE HIGHEST CIRCUIT BREAKER POSITION IS AT

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	GLUMAC ATETRA TECH COMPANY engineers for a sustainable future engineers for a sustainable future 1601 Fifth Ave., Suite 2210
	Seattle, WA 98101 www.glumac.com T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169 PROJECT:
С	EHA BAKER HEIGHTS
	PROJECT ADDRESS: BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET EVERETT, WA 98201 OWNER:
	EVERETT HOUSING AUTHORITY 3107 COLBY AVENUE EVERETT, WASHINGTON 98201
В	MARK DATE DESCRIPTION REVISIONS
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В	REVISIONS         C       06/08/2020         B       04/10/2020         DESIGN DEVELOPMENT         A       01/07/2020         SCHEMATIC DESIGN         MARK       DATE
B	REVISIONS         C       06/08/2020         B       04/10/2020         B       04/10/2020         DESIGN DEVELOPMENT         A       01/07/2020         SCHEMATIC DESIGN         MARK       DATE         DESCRIPTION         ISSUE INFORMATION         PROJECT NO.:       2018000.0         PRINCIPAL IN CHARGE:       Scott Vollmoel

**GGLO**<sup>NO</sup>

SHEET NO. **EB-110** 



2

J. PROVIDE AFCI TYPE BREAKERS IN THE LOAD CENTER FOR CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DENS, BEDROOMS, SUNROOMS,

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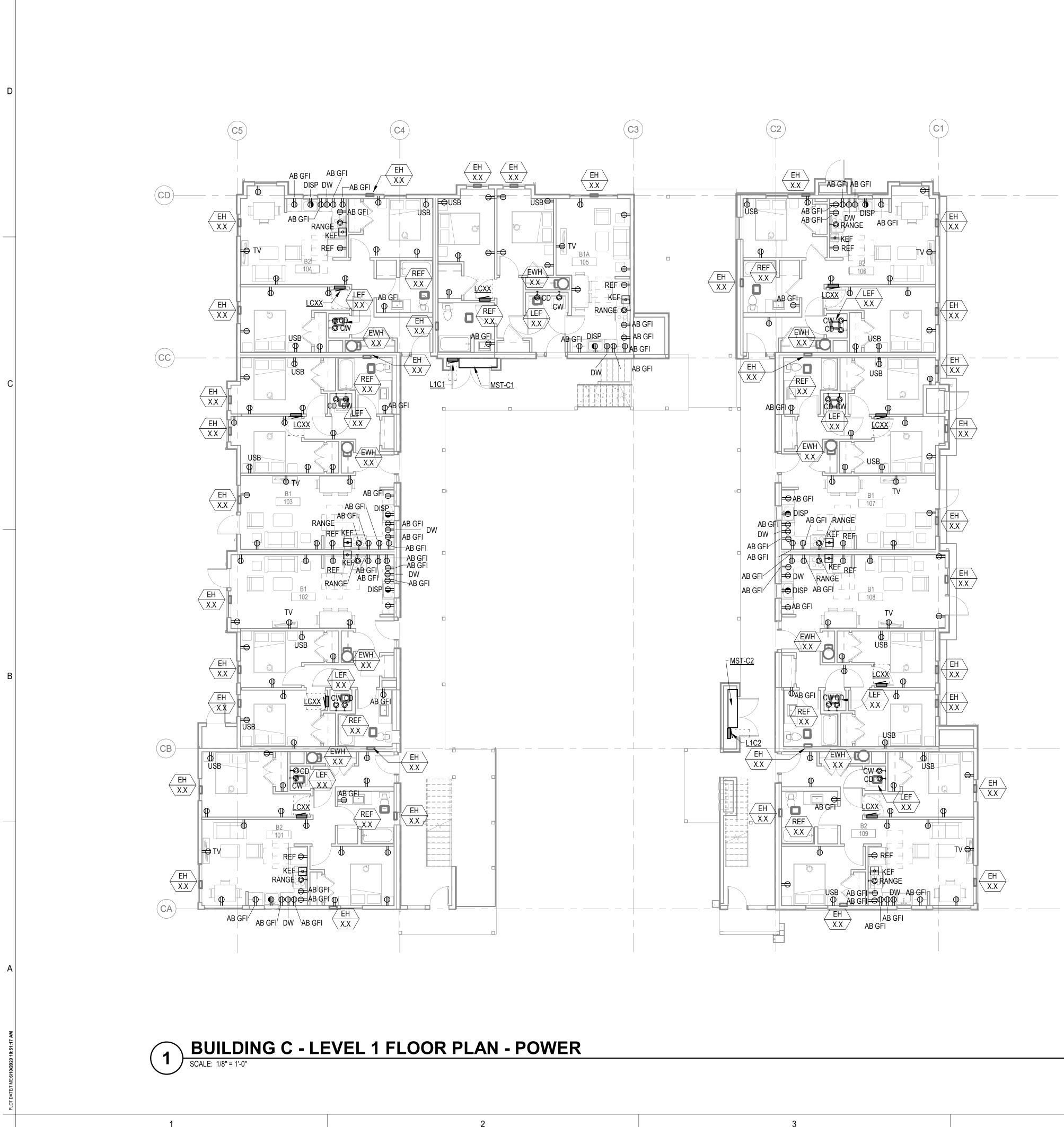
	GLUMAC A TETRA TECH COMPANY C engineers for a sustainable future <sup>™</sup> C 1601 Fifth Ave., Suite 2210 Seattle, WA 98101 www.glumac.com
	T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169 PROJECT:
	EHA BAKER HEIGHTS
С	HOUSING AUTHORITY
	PROJECT ADDRESS:
	BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET EVERETT, WA 98201
	OWNER: EVERETT HOUSING AUTHORITY
	3107 COLBY AVENUE EVERETT, WASHINGTON 98201
в	MARK DATE DESCRIPTION REVISIONS
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В	REVISIONS
В	REVISIONS         C       06/08/2020         B       04/10/2020         B       04/10/2020         DESIGN DEVELOPMENT         A       01/07/2020         SCHEMATIC DESIGN         MARK       DATE
В	REVISIONS         C       06/08/2020         B       04/10/2020         D       D         A       01/07/2020         SCHEMATIC DESIGN
В	REVISIONS         C       06/08/2020         B       04/10/2020         B       04/10/2020         DESIGN DEVELOPMENT         A       01/07/2020         SCHEMATIC DESIGN         MARK       DATE
B	REVISIONS         C       06/08/2020         B       04/10/2020         B       04/10/2020         DESIGN DEVELOPMENT         A       01/07/2020         SCHEMATIC DESIGN         MARK       DATE         DESCRIPTION         ISSUE INFORMATION         PROJECT NO.:       2018000.00         PRINCIPAL IN CHARGE:       Scott Vollmoelle         PROJECT MANAGER:       DeNayne Glent         OWNER APPROVAL:       SHEET TITLE         BUILDING B - LEVEL 3 -
	REVISIONS         C       06/08/2020         B       04/10/2020         B       04/10/2020         DESIGN DEVELOPMENT         A       01/07/2020         SCHEMATIC DESIGN         MARK       DATE         DESCRIPTION         ISSUE INFORMATION         PROJECT NO.:       Scott Vollmoelle         PROJECT MANAGER:       DeNayne Gler         OWNER APPROVAL:       SHEET TITLE
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	REVISIONS         C       06/08/2020         B       04/10/2020         B       04/10/2020         DESIGN DEVELOPMENT         A       01/07/2020         SCHEMATIC DESIGN         MARK       DATE         DESCRIPTION         ISSUE INFORMATION         PROJECT NO.:       2018000.00         PRINCIPAL IN CHARGE:       Scott Vollmoella         PROJECT MO.:       DeNayne Glem         OWNER APPROVAL:       DeNayne Glem         SHEET TITLE       BUILDING B - LEVEL 3 - POWER         SHEET NO.       SHEET NO.
	REVISIONS         C       06/08/2020         BUILDING PERMIT SUBMITTAL         80% HUD SUBMITTAL         B       04/10/2020         DESIGN DEVELOPMENT         A       01/07/2020         SUBLIDING PERMIT SUBMITTAL         B       04/10/2020         DESIGN DEVELOPMENT         A       01/07/2020         SUBLIDING DESIGN DEVELOPMENT         A       01/07/2020         SUB INFORMATION         PROJECT NO.:       2018000.00         PROJECT NO.:       Scott Vollmoelle         PROJECT NO.:       Scott Vollmoelle         PROJECT MANAGER:       DeNayne Glent         OWNER APPROVAL:       SHEET TITLE         BUILDING B - LEVEL 3 - POWER       POWER

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Seattle, WA 98101

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PLAN NORTH

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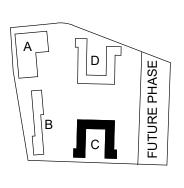
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PROJECT:

#### EHA BAKER HEIGHTS



PROJECT ADDRESS:

**BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET** BUILDING D: 2810 14TH STREET **EVERETT, WA 98201** 

OWNER: **EVERETT HOUSING AUTHORITY** 3107 COLBY AVENUE **EVERETT, WASHINGTON 98201** 

MARK	DATE	DESCRIPTION
REVIS	SIONS	
С	06/08/2020	BUILDING PERMIT SUBMIT
		80% HUD SUBMITTAL
В	04/10/2020	DESIGN DEVELOPMENT
A	01/07/2020	SCHEMATIC DESIGN
MARK	DATE	DESCRIPTION
ISSU		IATION
	TNO	2017
PROJEC	AL IN CHARG	

SHEET TITLE

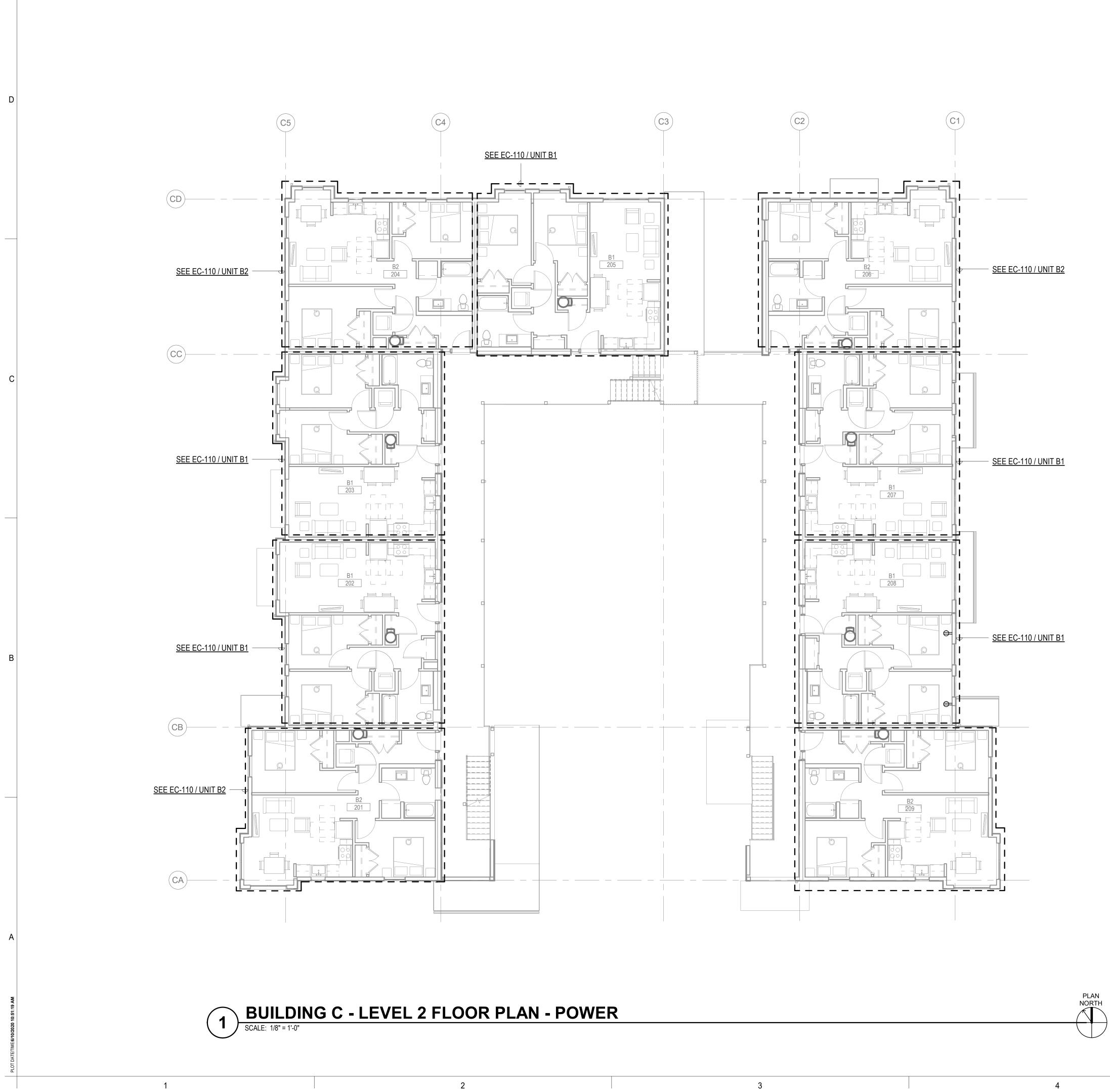
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BUILDING C - LEVEL 1 -POWER

SHEET NO.

EC-110



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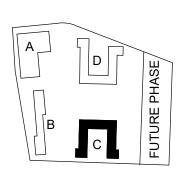
## SHEET NOTES

4

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# **GGLO**<sup>NO</sup>

1301 First Avenue, Suite 301 Seattle, WA 98101 http://www.gglo.com



#### GLUMAC A TETRA TECH COMPANY

r J engineers for a sustainable future<sup>™</sup> ь д 1601 Fifth Ave., Suite 2210 Seattle, WA 98101 www.glumac.com T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169

PROJECT:

#### EHA BAKER HEIGHTS



PROJECT ADDRESS:

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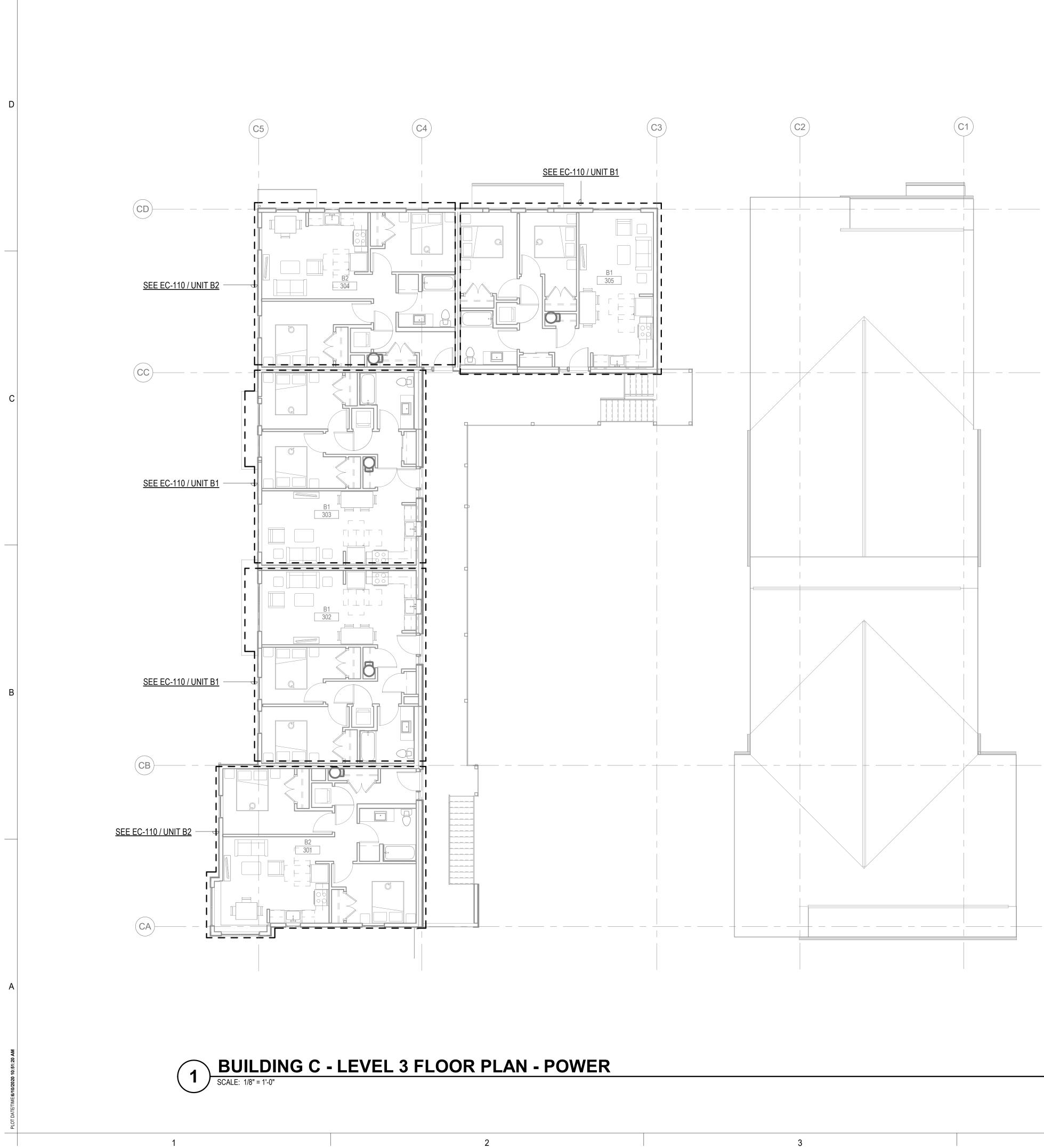
SHEET TITLE

BUILDING C - LEVEL 2 -POWER

SHEET NO.

**EC-111** 





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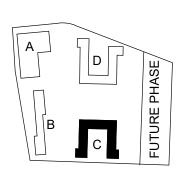
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PROJECT:

#### EHA BAKER HEIGHTS



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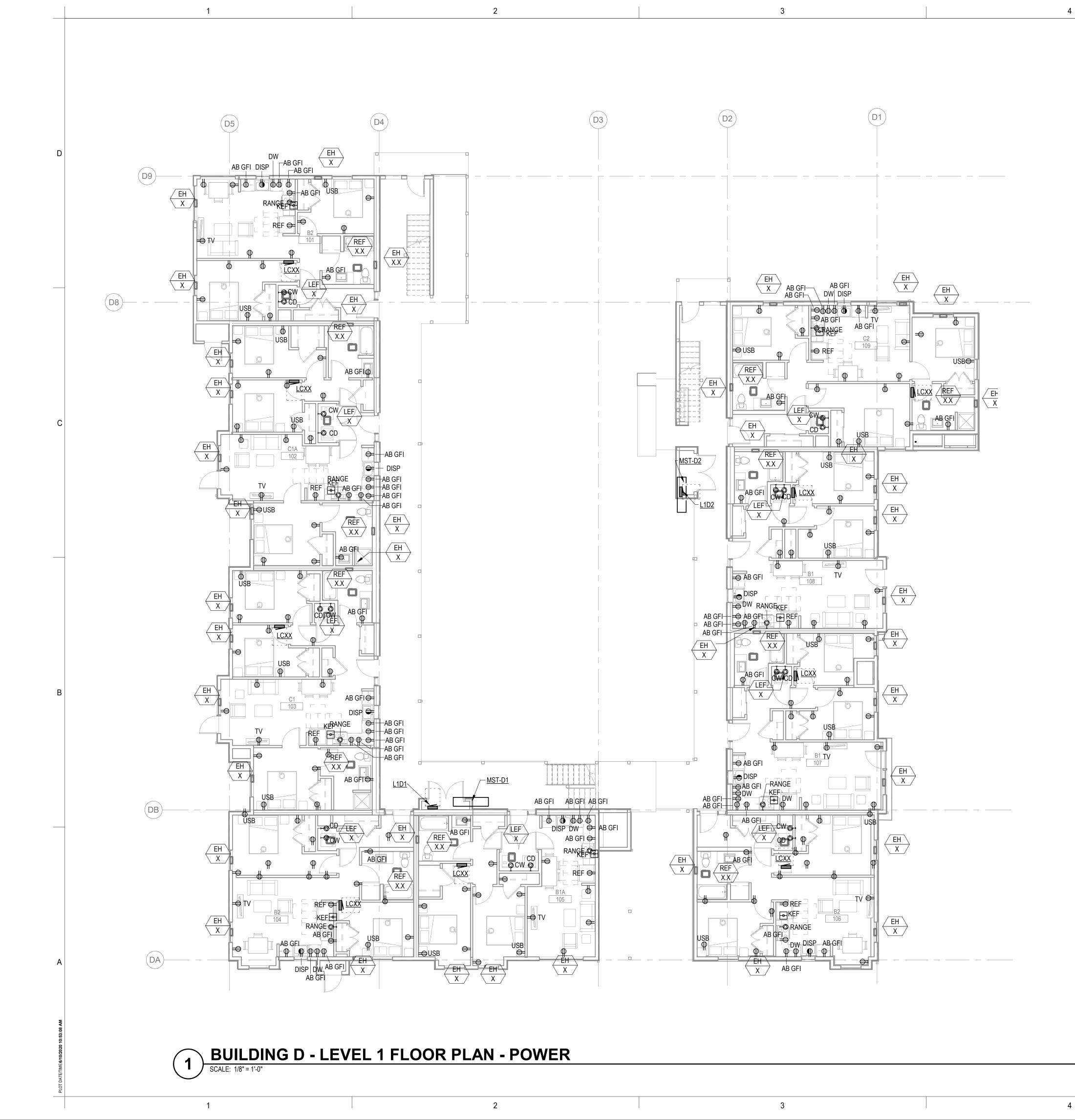
		DESCRIPTION
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А	01/07/2020	SCHEMATIC DESIGN
MARK	DATE	DESCRIPTION
ISSU		IATION
PROJEC	T NO ·	2017
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	T MANAGER	
OWNER	APPROVAL:	

BUILDING C - LEVEL 3 -POWER

SHEET NO.

**EC-112** 

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# SHEET NOTES

- CONTRACTOR.
- NOTED AS FOLLOW:

- DISCONNECTS, STARTERS, ETC.

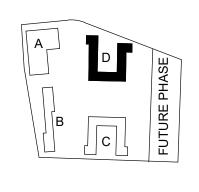
- BY ARCHITECT.

- MAXIMUM 48" ABOVE FINISH FLOOR.





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MARK	DATE	DESCRIPTION
ISSU		IATION
PROJEC	T NO ·	2017
	AL IN CHARG	E: Scott Voll
	T MANAGER	
OWNER	APPROVAL:	

SHEET TITLE

**BUILDING D - LEVEL 1 -**POWER

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SHEET NO.

**ED-110** 

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4

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1601 F	∎ Fifth Ave., Suite 22	<b>卫</b> 10
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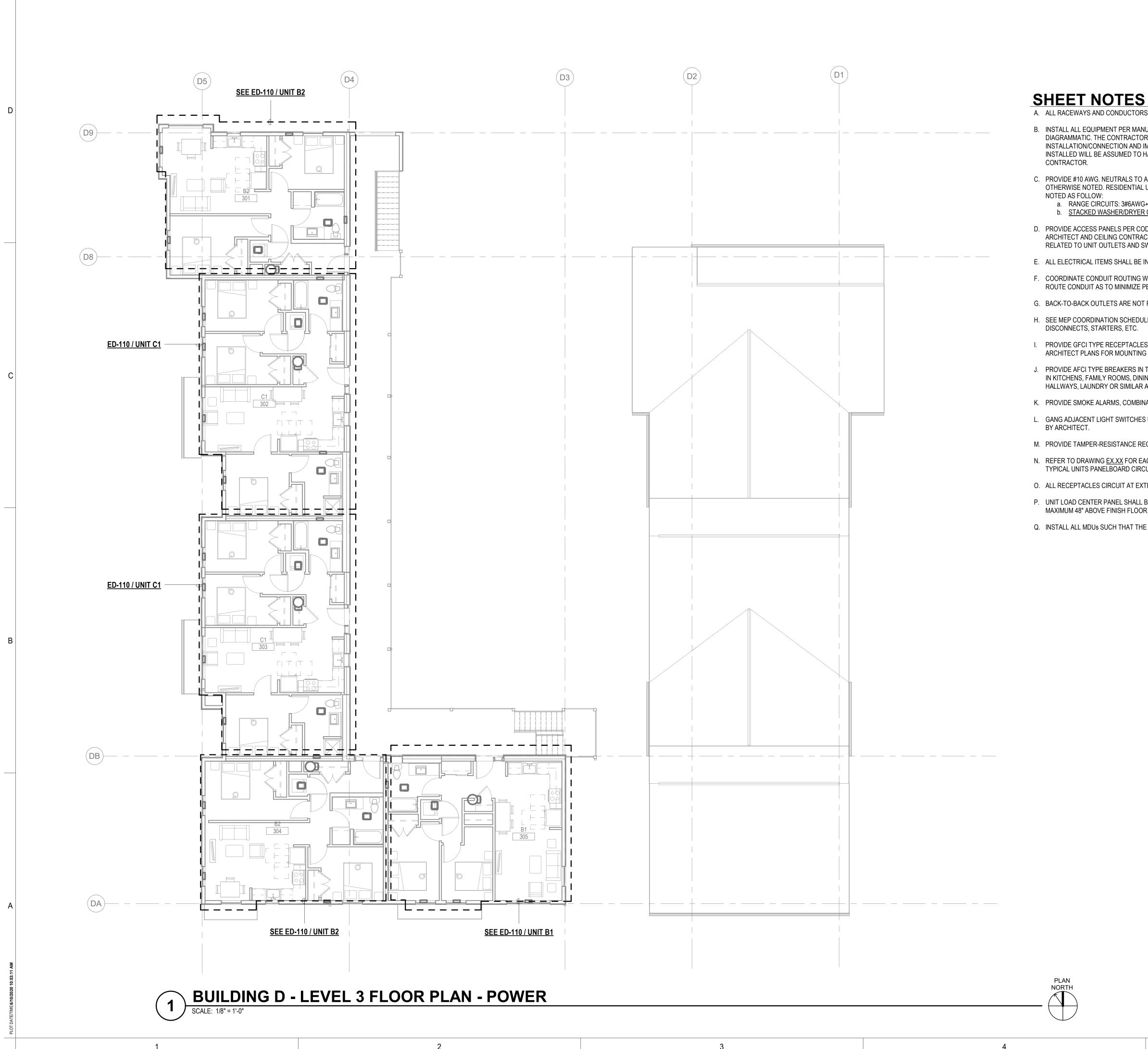
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SHEET NO.

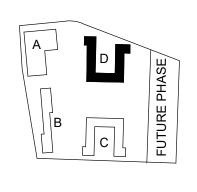
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PROJECT:

## EHA BAKER HEIGHTS



PROJECT ADDRESS:

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ISSU		IATION			
ROJEC		20170			
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SHEET TITLE

OWNER APPROVAL:

**BUILDING D - LEVEL 3 -**POWER

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SHEET NO.

**ED-112** 

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#### M. PROVIDE TAMPER-RESISTANCE RECEPTACLES FOR ALL UNITS RECEPTACLES.

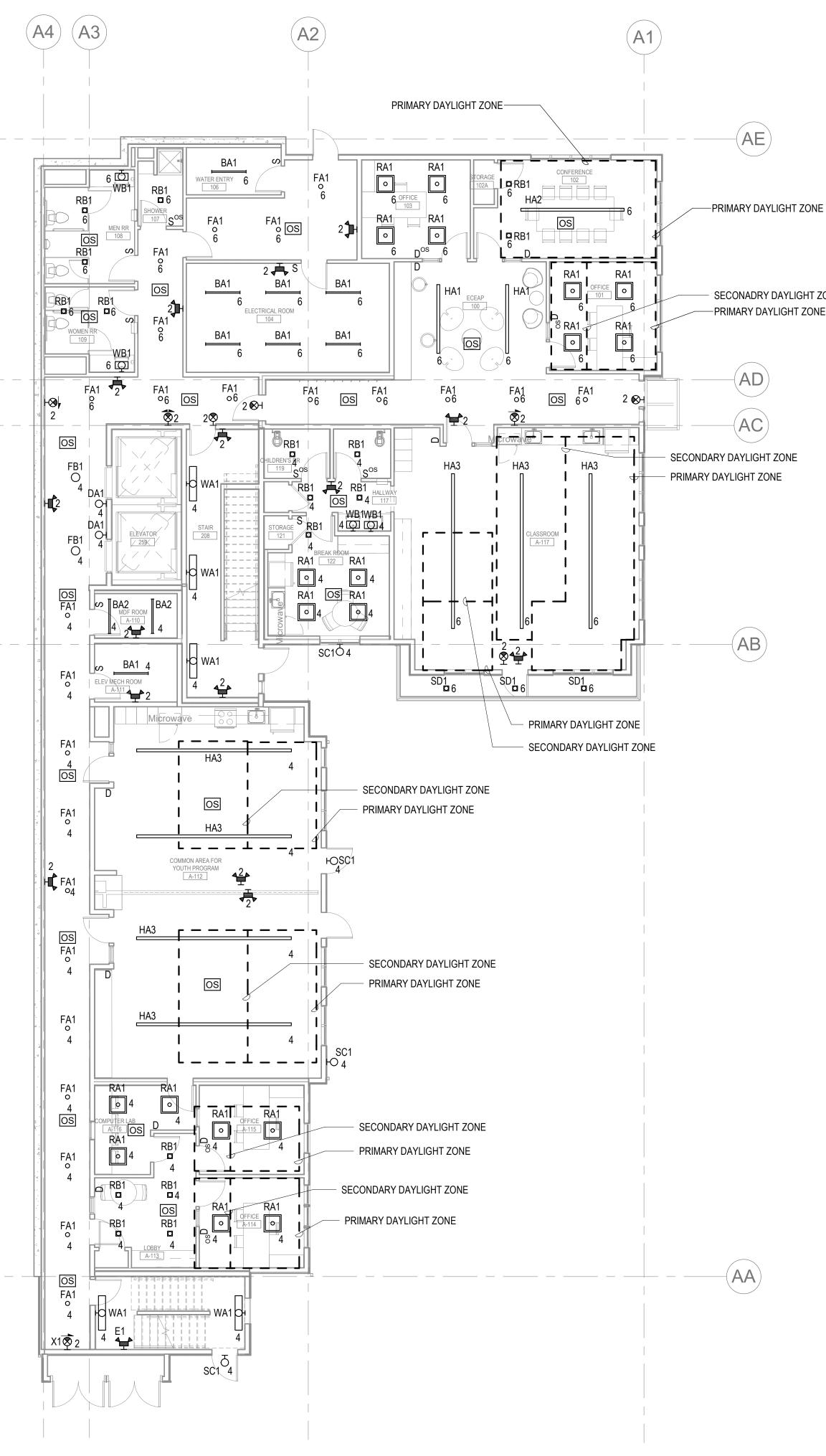
N. REFER TO DRAWING EX.XX FOR EACH RESIDENTIAL UNIT LOAD CALCULATION, REFER TO DRAWING EX.XX FOR TYPICAL UNITS PANELBOARD CIRCUIT BREAKER INFORMATION.

O. ALL RECEPTACLES CIRCUIT AT EXTERIOR WALL IN EACH UNIT SHALL BE INDIVIDUALLY DROP FROM CEILING.

P. UNIT LOAD CENTER PANEL SHALL BE MOUNTED SUCH THAT THE HIGHEST CIRCUIT BREAKER POSITION IS AT MAXIMUM 48" ABOVE FINISH FLOOR.

Q. INSTALL ALL MDUS SUCH THAT THE TOP FRAME IS LOCATED AT 46"AFF.

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# **BUILDING A - LEVEL 1 FLOOR PLAN - LIGHTING**

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

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- SECONADRY DAYLIGHT ZONE -PRIMARY DAYLIGHT ZONE





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PROJECT:





PROJECT ADDRESS:

**BUILDING A: 2710 14TH STREET** BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET EVERETT, WA 98201

OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVE EVERETT, WA 98201

MARK	DATE	DESCRIPTION
REVIS	SIONS	
С	06/08/2020	BUILDING PERMIT SUBMITTAL
		80% HUD SUBMITTAL
В	04/10/2020	DESIGN DEVELOPMENT
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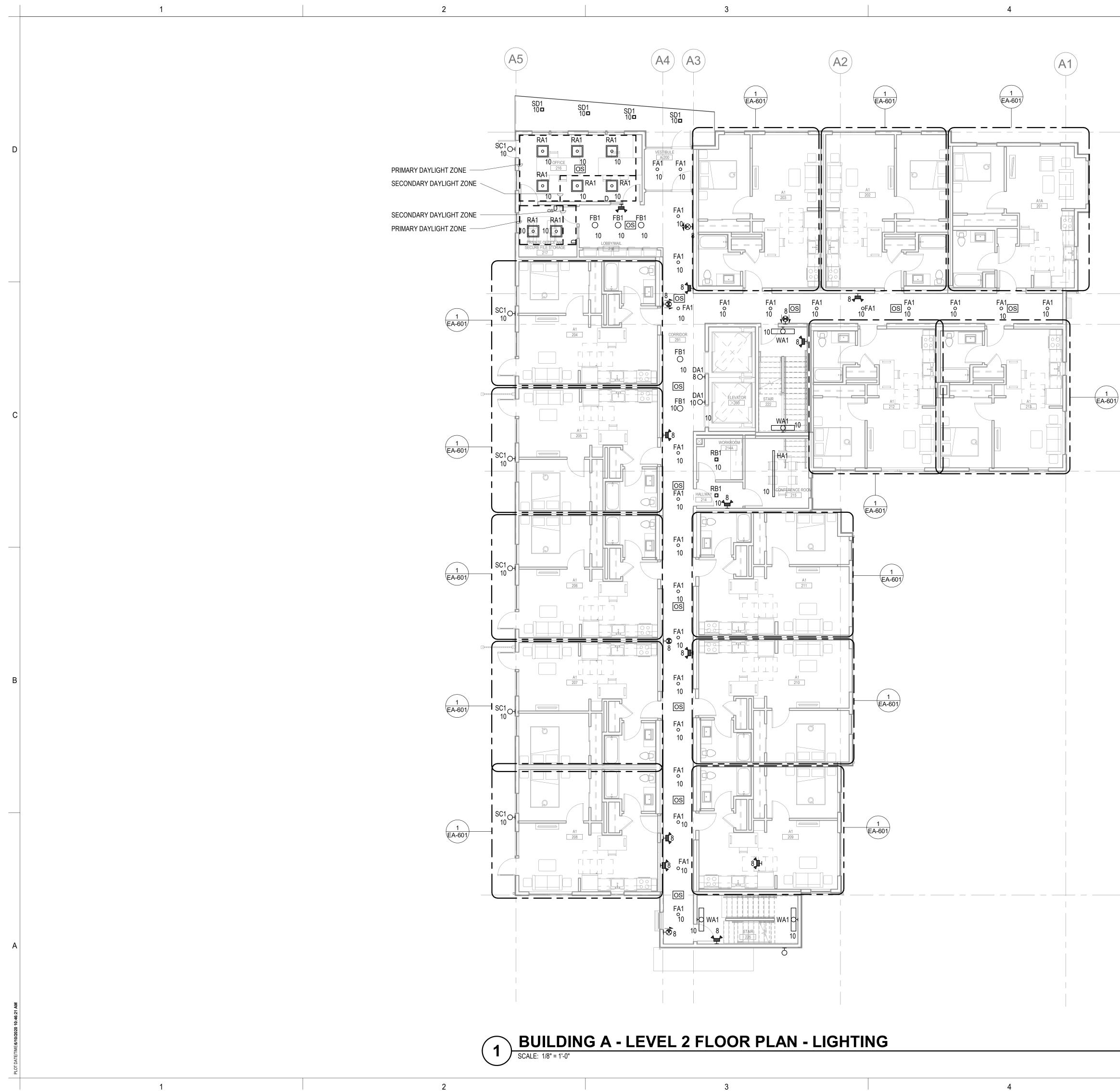
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PROJECT ADDRESS: BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET EVERETT, WA 98201 OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVE EVERETT, WA 98201	
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80% HUD SUBMITTAL         B       04/10/2020         DESIGN DEVELOPMENT         A       01/07/2020         SCHEMATIC DESIGN         MARK       DATE         DESCRIPTION         ISSUE INFORMATION         PROJECT NO.:         PRINCIPAL IN CHARGE:	D33 on Hall hreffler
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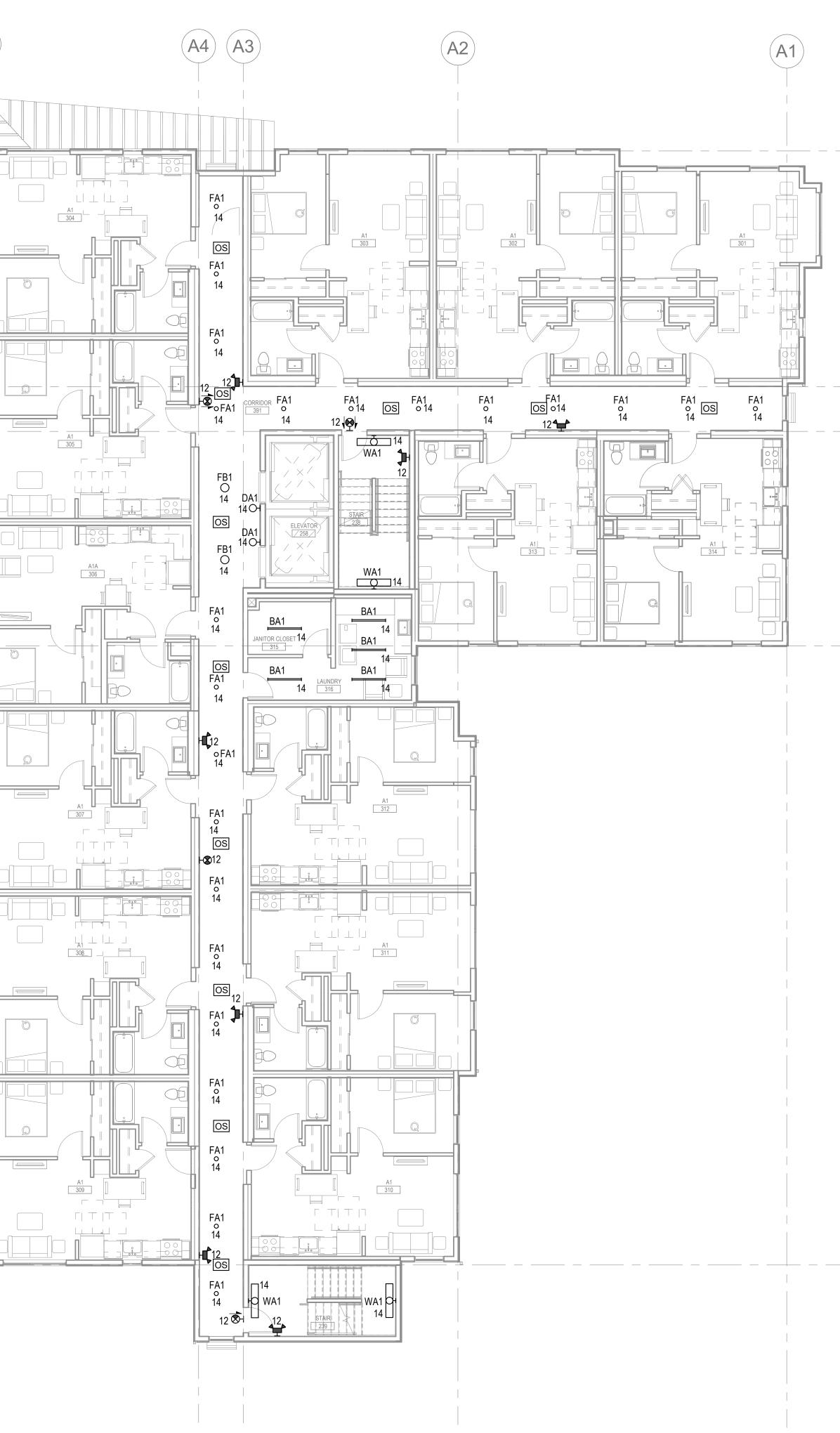
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# UILDING A - LEVEL 3 FLOOR PLAN - LIGHTING

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1. ALL FIXTURES ON THIS SHEET ARE CIRCUITED TO PANEL L1A1, UON.

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PROJECT ADDRESS:

BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET **BUILDING C: 2815 15TH STREET** BUILDING D: 2810 14TH STREET EVERETT, WA 98201

OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVE **EVERETT, WA 98201** 

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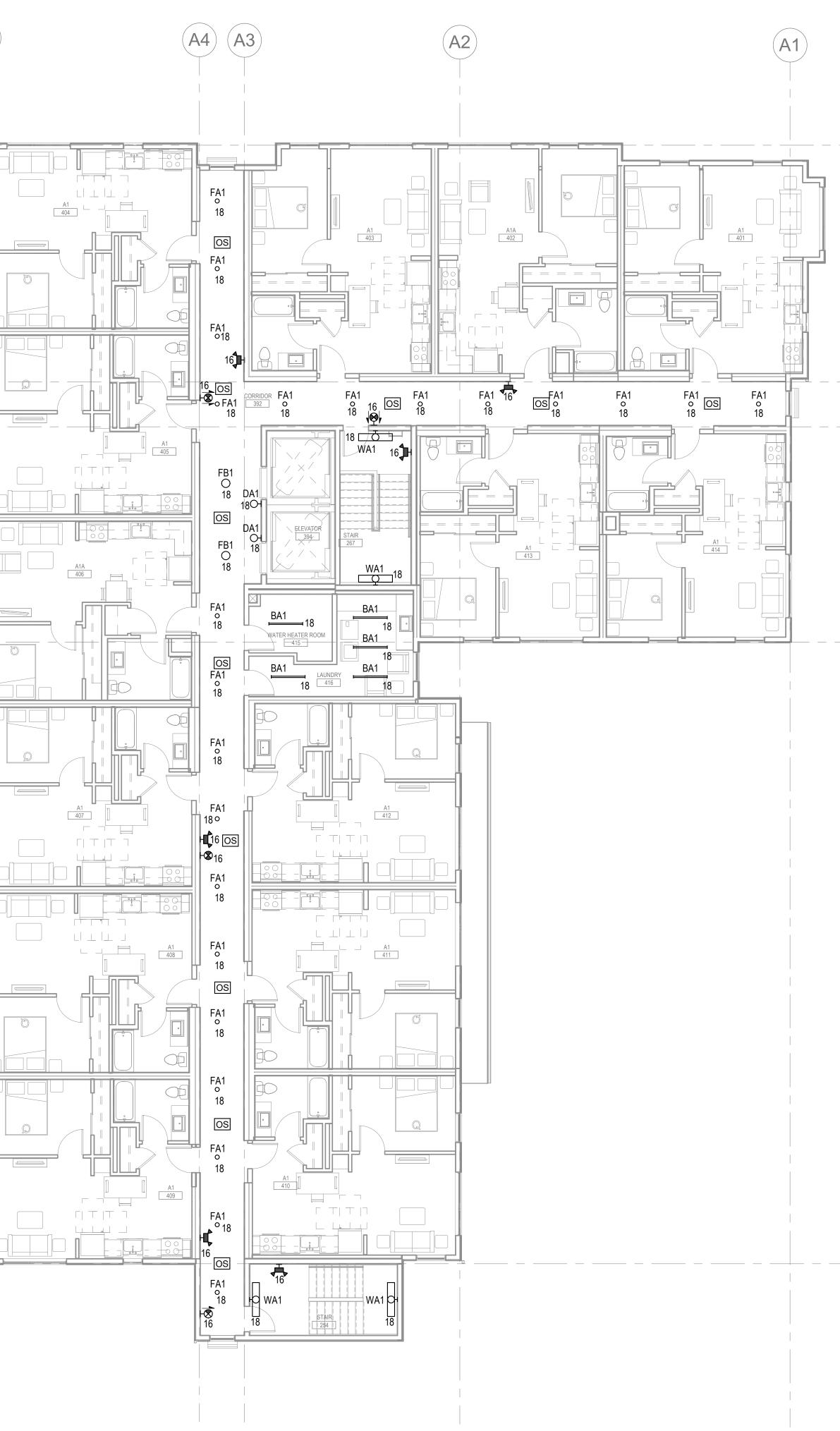
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# 1 BUILDING A - LEVEL 4 FLOOR PLAN - LIGHTING SCALE: 1/8" = 1'-0"

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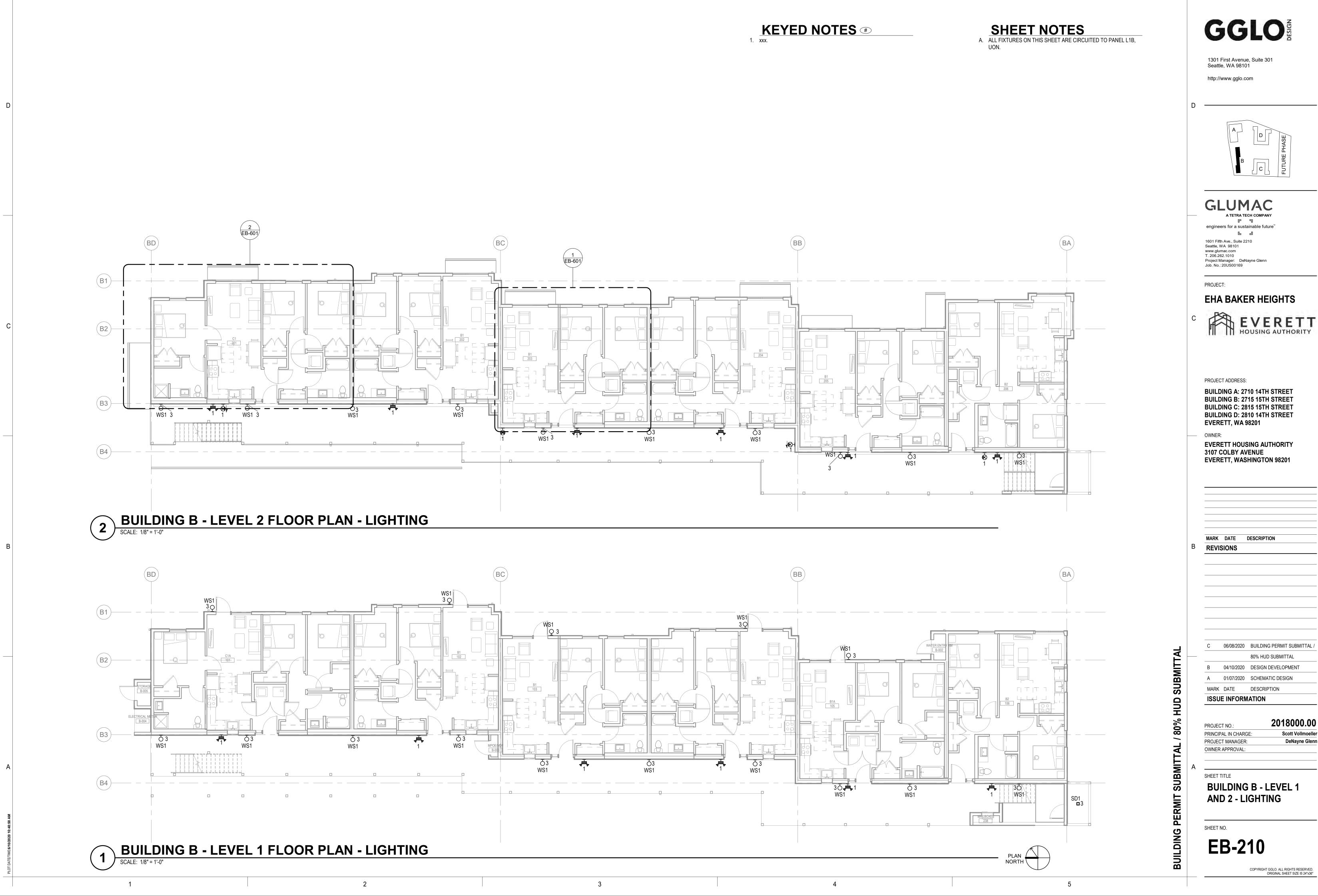


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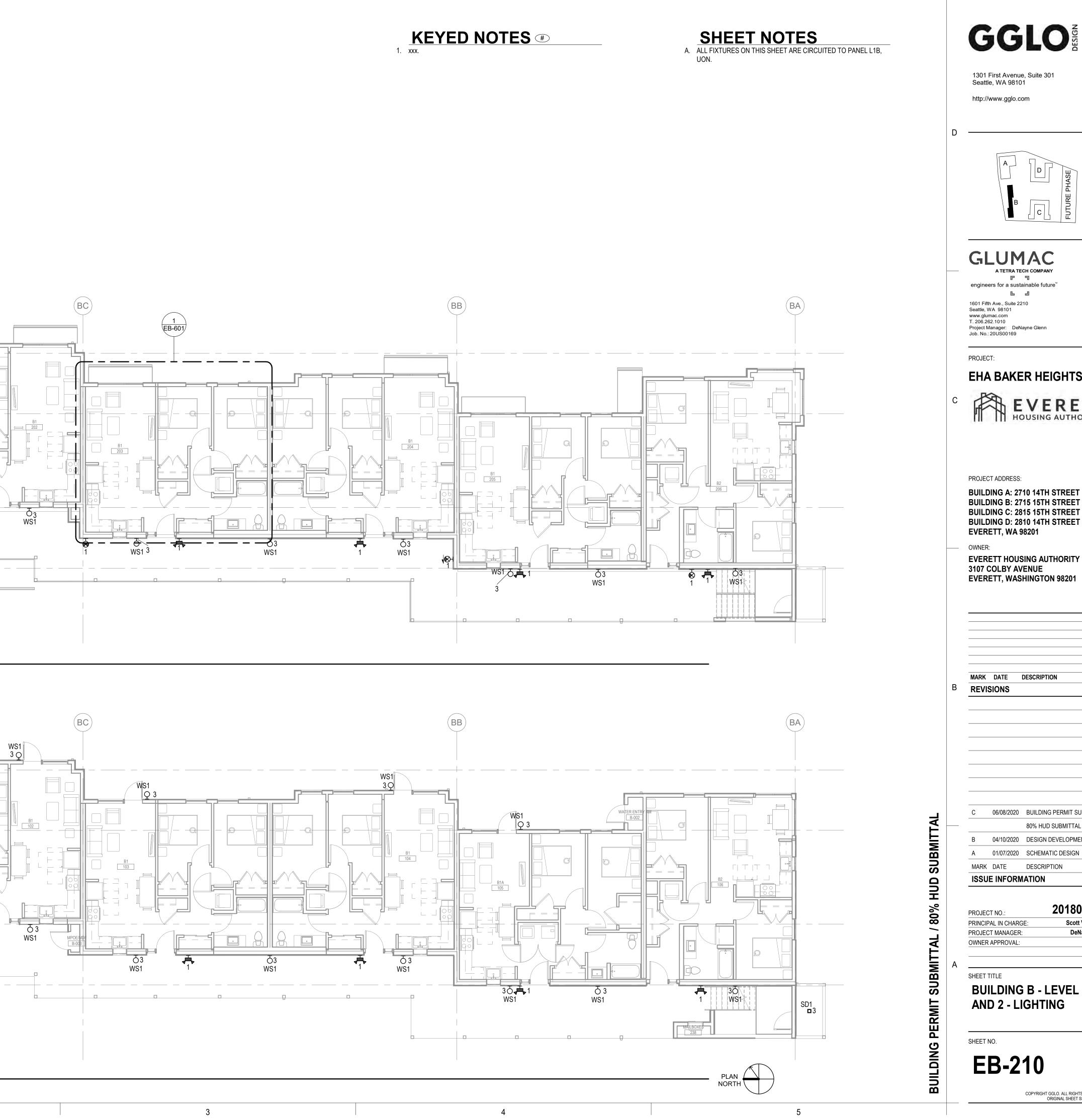
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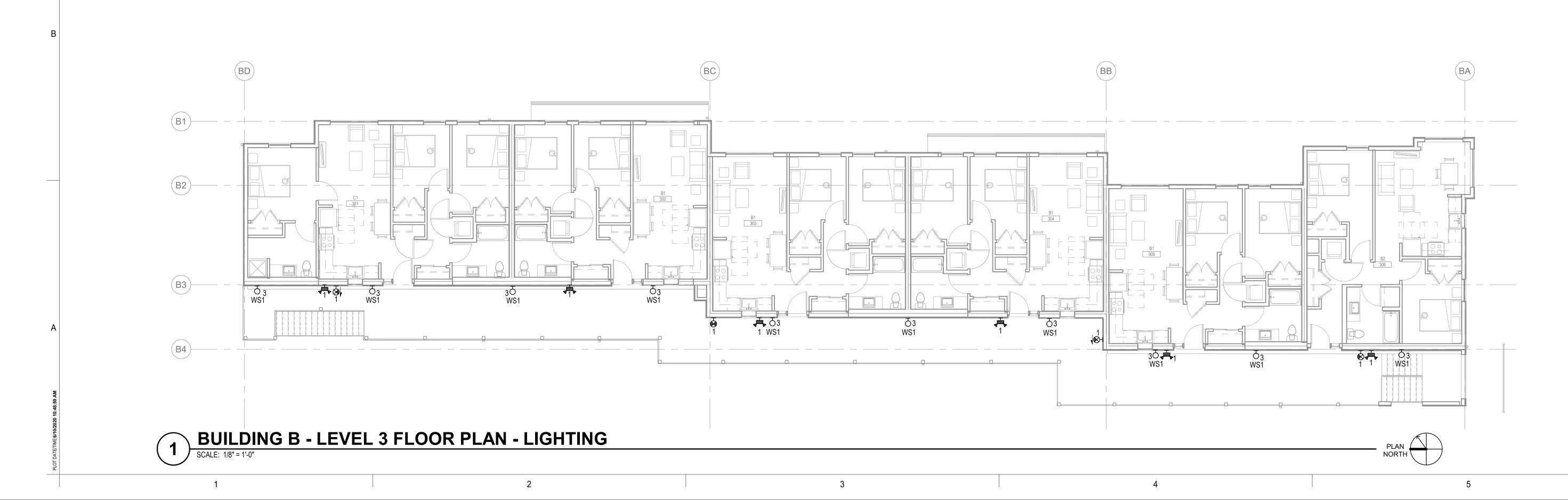
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BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET EVERETT, WA 98201 EVERETT HOUSING AUTHORITY 3107 COLBY AVENUE EVERETT, WASHINGTON 98201 REVISIONS В 06/08/2020 BUILDING PERMIT SUBMITTAL / 80% HUD SUBMITTAL 04/10/2020 DESIGN DEVELOPMENT A 01/07/2020 SCHEMATIC DESIGN MARK DATE DESCRIPTION **ISSUE INFORMATION** 2018000.00 PROJECT NO .: PRINCIPAL IN CHARGE Scott Vollmoeller PROJECT MANAGER: DeNayne Glenn OWNER APPROVAL: SHEET TITLE BUILDING B - LEVEL 3 -LIGHTING

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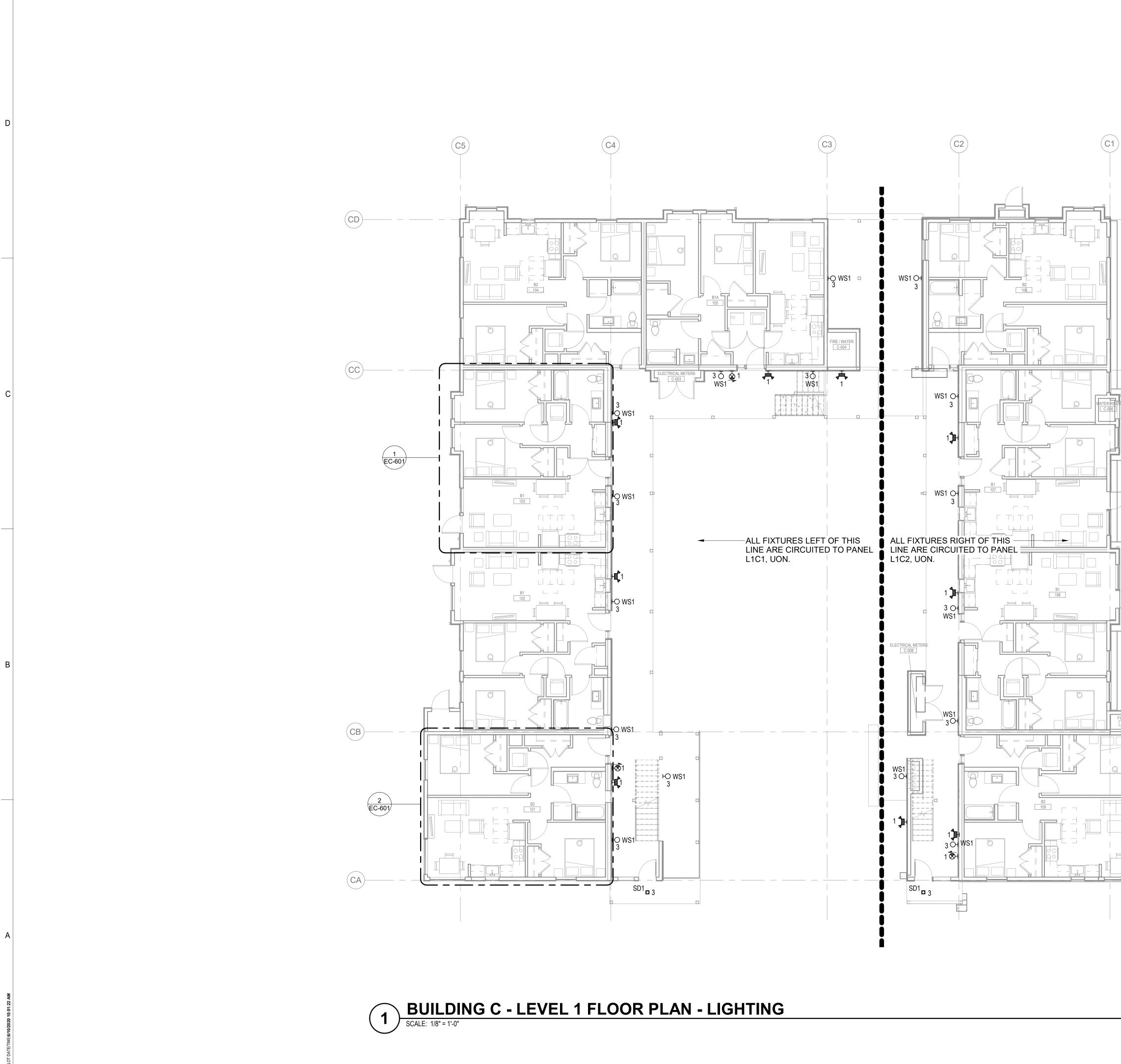
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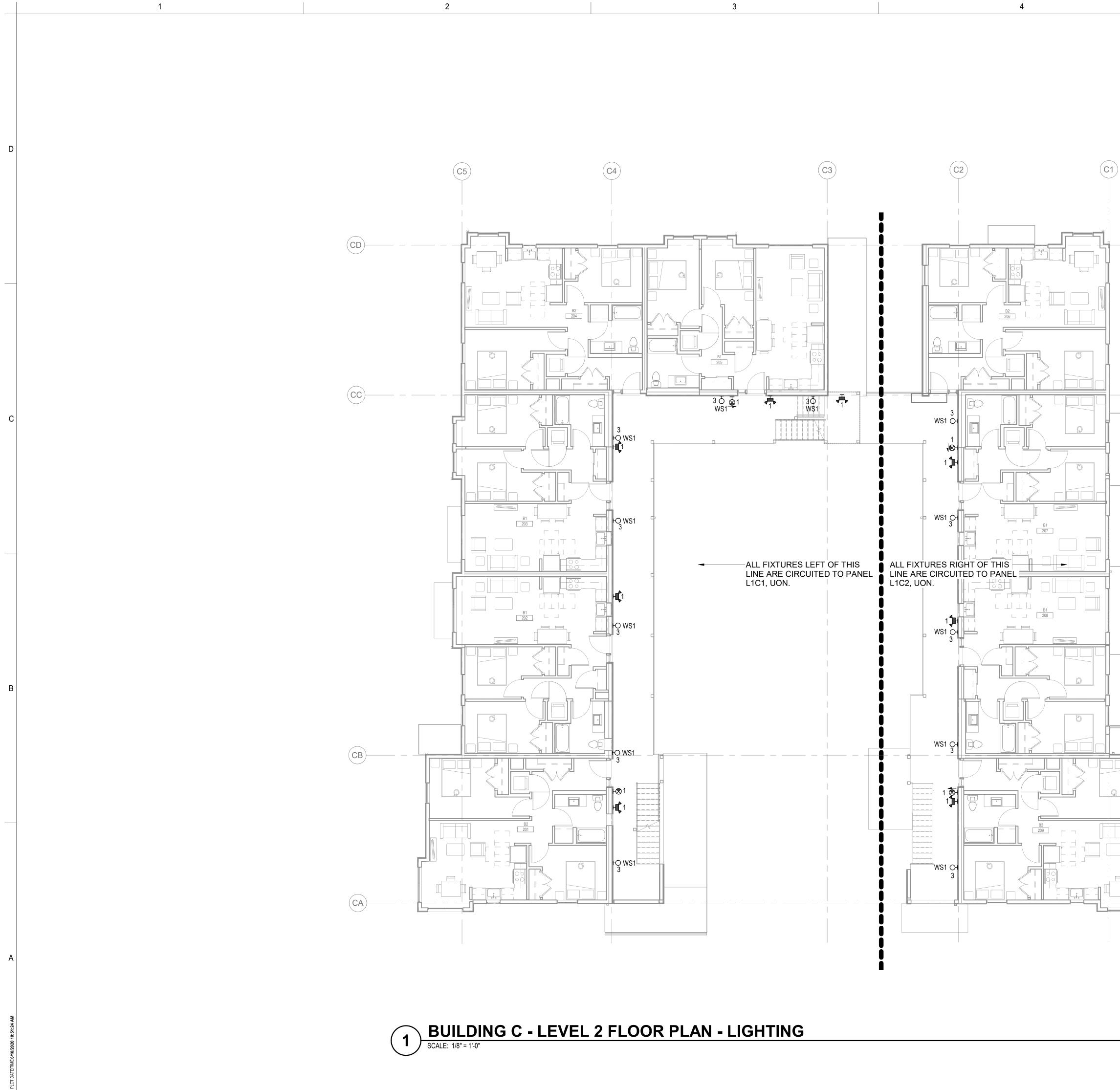
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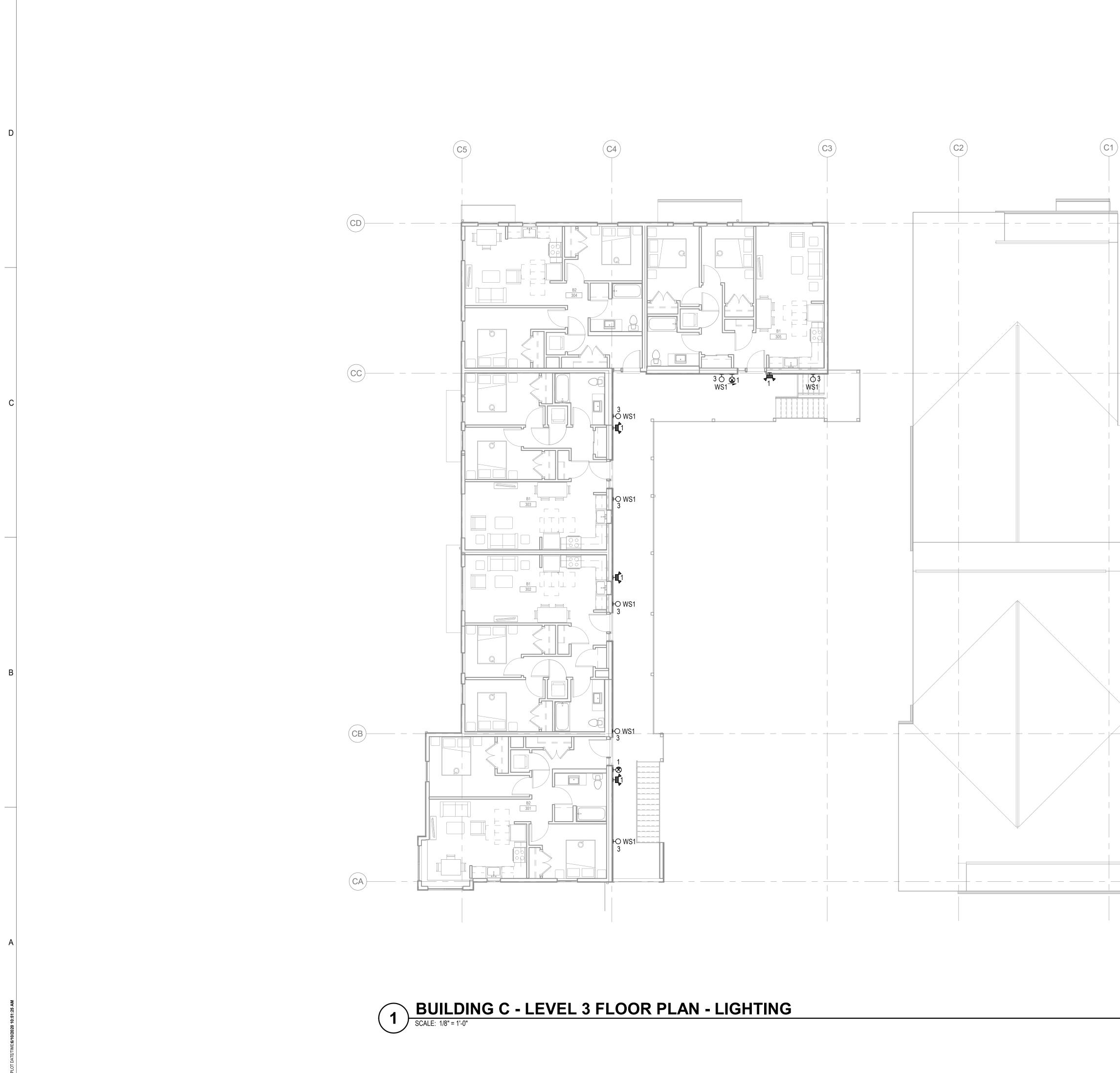




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		1601 Fifth Ave., Suite 2210 Seattle, WA 98101 www.glumac.com T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169 PROJECT:
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		PROJECT ADDRESS: BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET EVERETT, WA 98201 OWNER:
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BUILDING PERMIT SUBMITTAL / 80%		PROJECT NO.: <b>2017033</b> PRINCIPAL IN CHARGE:Scott VollmoellerPROJECT MANAGER:DeNayne GlennOWNER APPROVAL:
	A	SHEET TITLE BUILDING C - LEVEL 2 - LIGHTING
		SHEET NO. <b>EC-211</b>
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# SHEET NOTES

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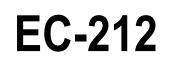
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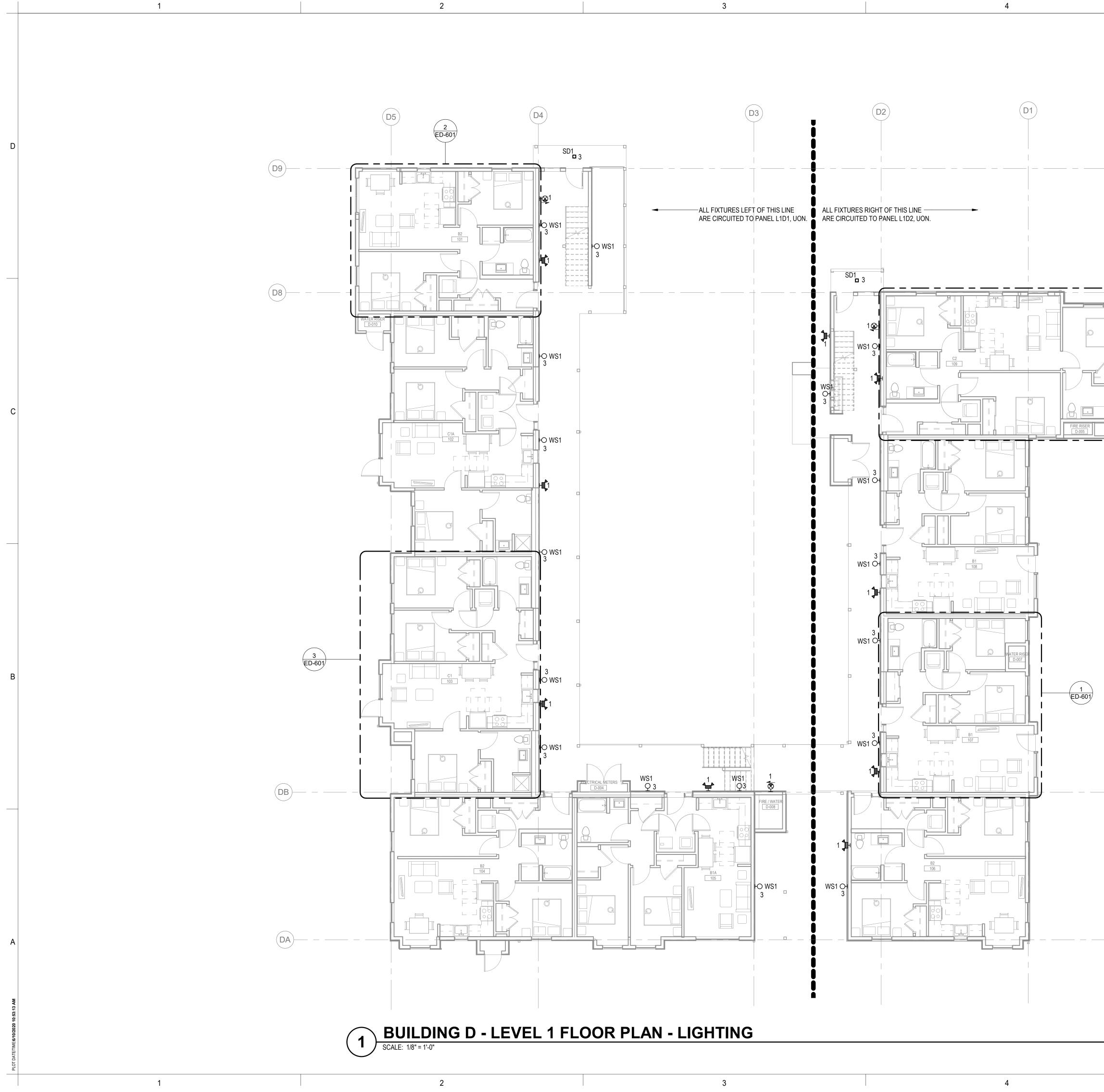
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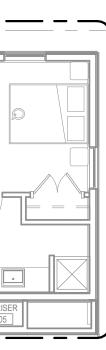
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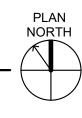
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	1601 Fifth Ave., Suite 2210 Seattle, WA 98101 www.glumac.com T. 206.262.1010 Project Manager: DeNayne Glenn Job. No.: 20US00169
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PROJECT ADDRESS:

BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET **EVERETT, WA 98201** 

OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVENUE EVERETT, WASHINGTON 98201

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BUILDING D - LEVEL 1 -LIGHTING

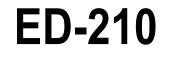
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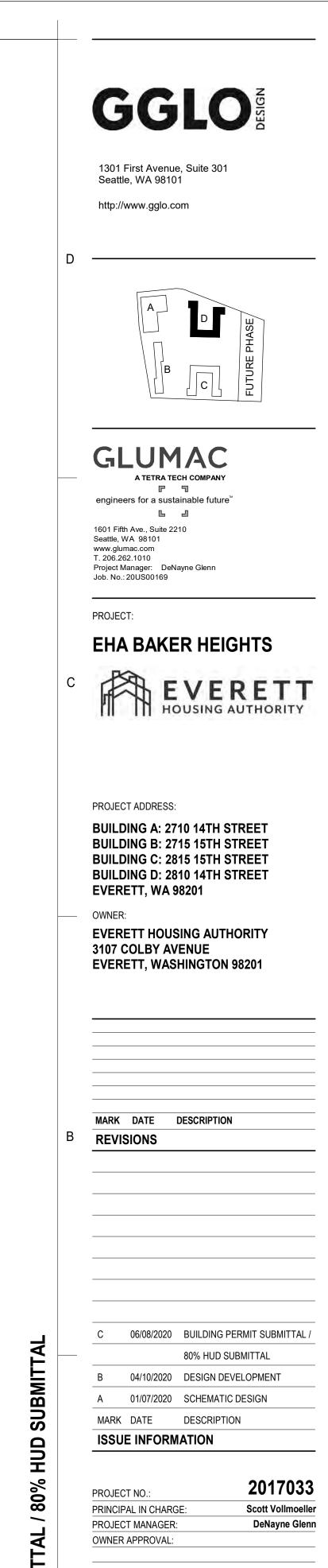
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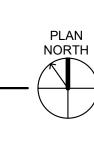
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BUILDING D - LEVEL 2 -LIGHTING

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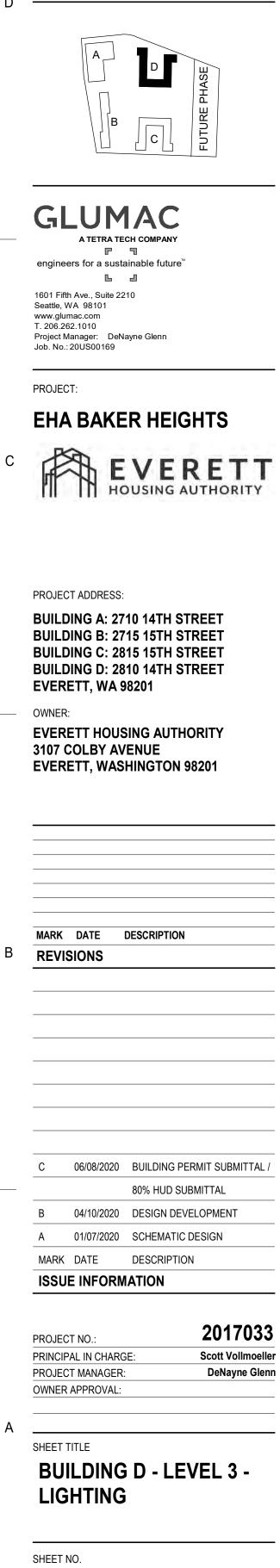


# SHEET NOTES

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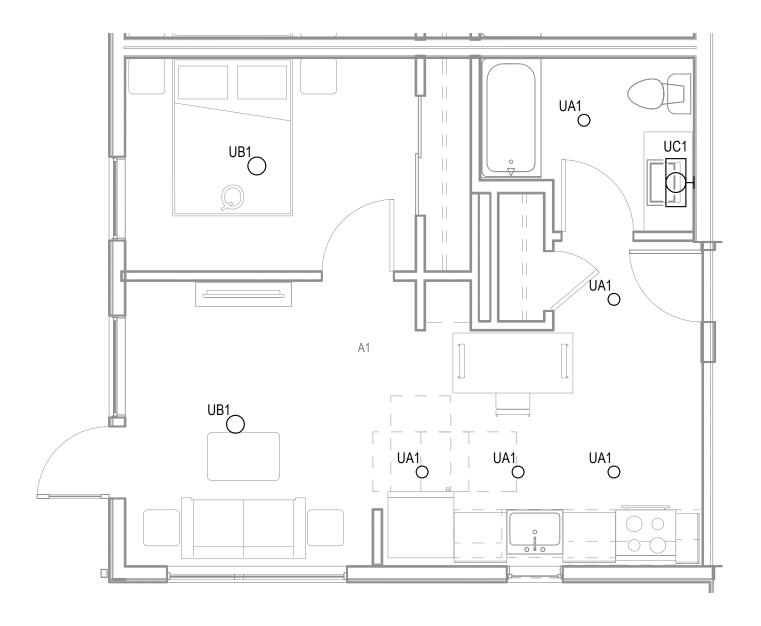
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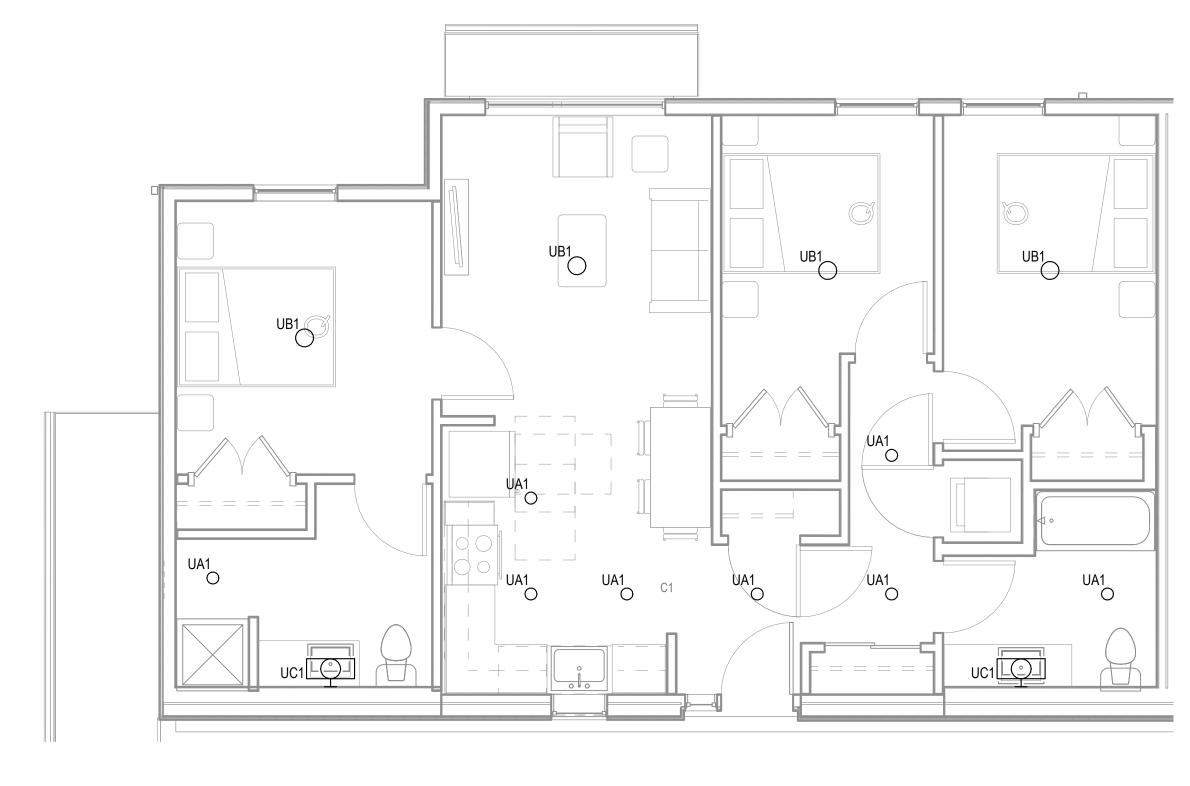
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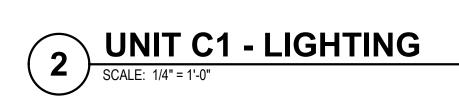
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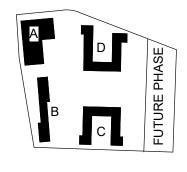
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PROJECT:

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# EHA BAKER HEIGHTS



PROJECT ADDRESS:

BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET BUILDING C: 2815 15TH STREET BUILDING D: 2810 14TH STREET EVERETT, WA 98201

OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVENUE EVERETT, WASHINGTON 98201

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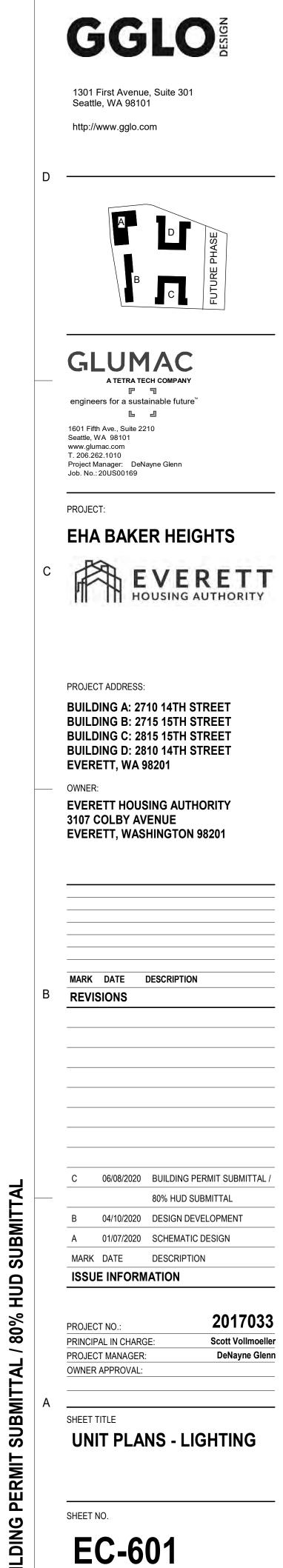
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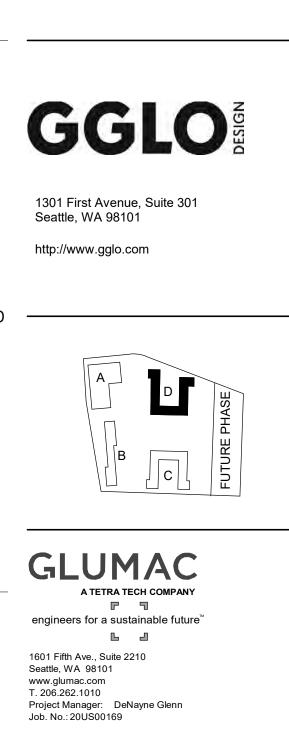
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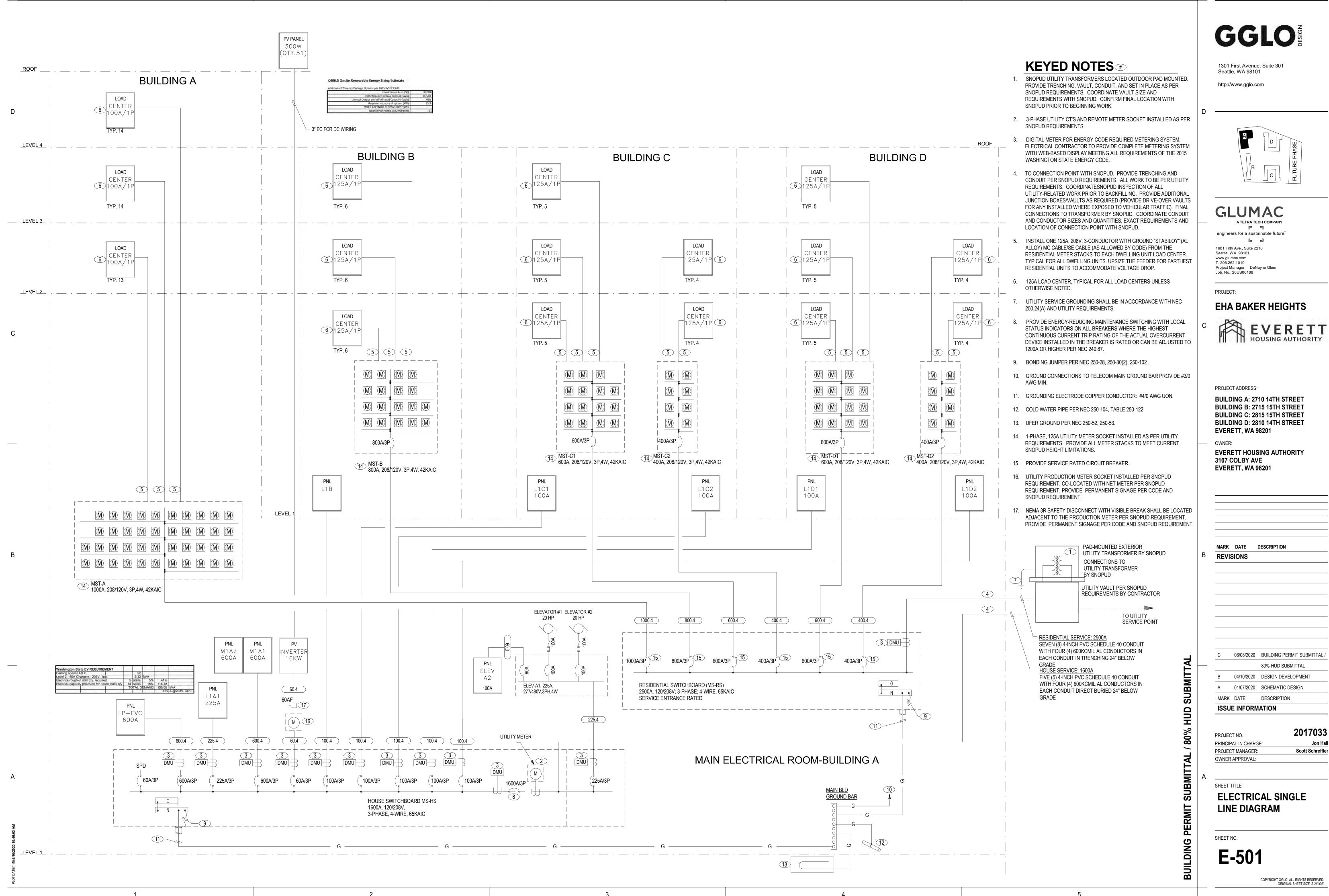


PROJECT:

EHA BAKER HEIGHTS 网 HOUSING AUTHORITY PROJECT ADDRESS: BUILDING A: 2710 14TH STREET BUILDING B: 2715 15TH STREET **BUILDING C: 2815 15TH STREET** BUILDING D: 2810 14TH STREET **EVERETT, WA 98201** OWNER: EVERETT HOUSING AUTHORITY 3107 COLBY AVENUE **EVERETT, WASHINGTON 98201** MARK DATE DESCRIPTION B REVISIONS C 06/08/2020 BUILDING PERMIT SUBMITTAL / 80% HUD SUBMITTAL B 04/10/2020 DESIGN DEVELOPMENT A 01/07/2020 SCHEMATIC DESIGN MARK DATE DESCRIPTION **ISSUE INFORMATION** 2017033 PROJECT NO .: PRINCIPAL IN CHARGE: Scott Vollmoeller DeNayne Glenn PROJECT MANAGER: OWNER APPROVAL: SHEET TITLE **UNIT PLANS - LIGHTING** SHEET NO.

BUILDING PERMIT SUBMITTAL / 80% HUD SUBMITTAI

ED-601



# EVERETT HO LEGAL DESCRIPTION: BAKER H PER CHICAGO TITLE INSURANCE COMPANY CERTIFICATE NO. 500089740 DATE: AUGUST 19, 2019 AT 8:00 AM

FOR APN/PARCEL ID(S): 003862-001-000-00 IOP

### BLOCKS 1, 5, 7 AND 8, BAKER HEIGHTS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 14 OF PLATS, PAGE 111, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.

TOGETHER WITH ANY PORTION OF VACATED PINE STREET THAT WOULD ATTACH BY LAW PER ORDINANCE 1080-84 RECORDED UNDER AUDITOR'S FILE NO. 8506210070 AND ORDINANCE 1034-84 RECORDED UNDER AUDITOR'S FILE NO. 861013077 RECORDS OF SNOHOMISH COUNTY, WASHINGTON.

SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.

FOR APN/PARCEL ID(S): 003862-006-000-03

LOT 3 OF CITY OF EVERETT BINDING SITE PLAN NO. P.F.N. BSP 14-001 RECORDED UNDER AUDITOR'S FILE NO. 20140415501 BEING A PORTION OF BLOCK 6. BAKER HEIGHTS. ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 14 OF PLATS, PAGE 111, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.

SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.

HORIZONTAL DATUM: NAD 83/91. CONSTRAINED TO CITY OF EVERETT CONTROL DESIGNATION: 663 22 01 4" IRON PIPE SET UNDER A IRON MONUMENT CASE WITH A 2" LEAD PLUG AND BRASS PIN. N=368207.00 E=1307197.17

VERTICAL DATUM:

INDICATED.

\_\_\_\_

NAVD 88 BASED, CITY OF EVERETT DESIGNATION: BM 663 22 01 ELEV.=115.30 FEET

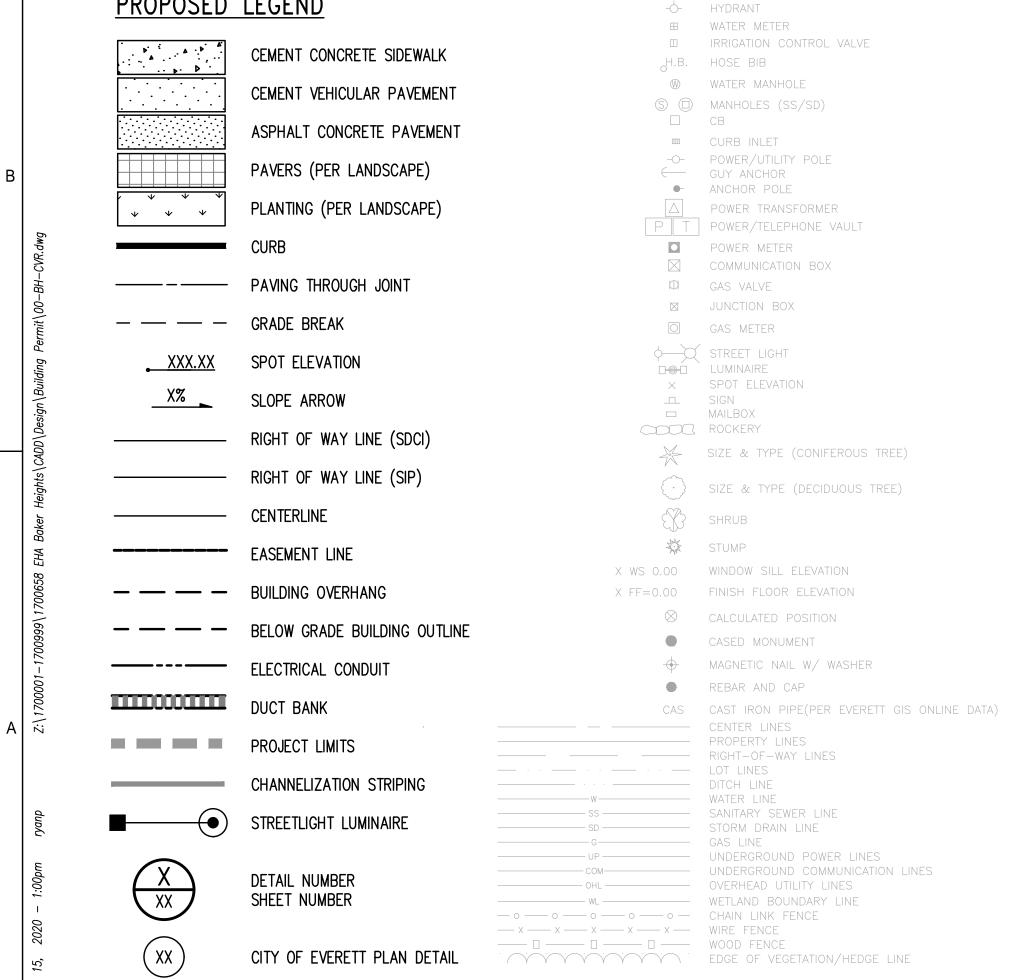
ALL DISTANCES SHOWN ARE GROUND DISTANCES UNLESS OTHERWISE NOTED. THE LOCATION AND DESCRIPTION OF ALL SURVEY MARKERS SHOWN HEREON ARE BASED ON FIELD OBSERVATIONS TAKEN IN AUGUST 2019, UNLESS OTHERWISE

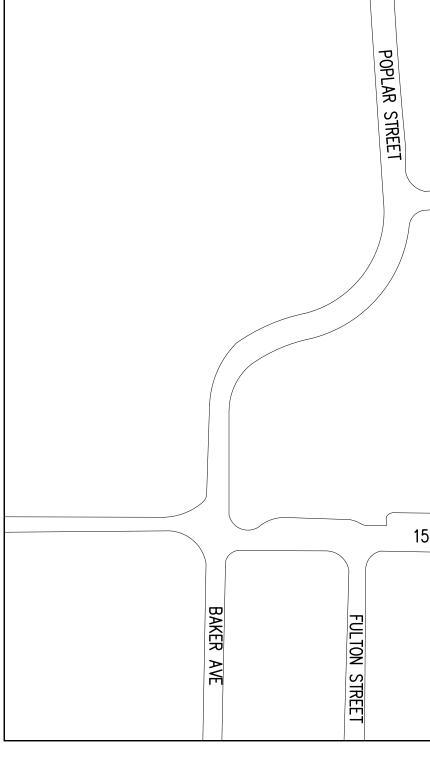
WORK PERFORMED IN CONJUNCTION WITH THIS SURVEY UTILIZED THE FOLLOWING EQUIPMENT AND PROCEDURES: (A) 1" TRIMBLE S7 SERIES ELECTRONIC TOTAL STATION, MAINTAINED TO THE MANUFACTURER'S SPECIFICATIONS PER W.A.C. 332-130-100. (B) FIELD TRAVERSE, EXCEEDING REQUIREMENTS SET FORTH IN W.A.C. 332-130-090.

THIS TOPOGRAPHIC SURVEY DRAWING ACCURATELY PRESENTS SURFACE FEATURES LOCATED DURING THE COURSE OF THIS SURVEY. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED SOLELY UPON INFORMATION PROVIDED BY OTHERS AND PACE ENGINEERS, INC. DOES NOT ACCEPT RESPONSIBILITY OR ASSUME LIABILITY FOR THEIR ACCURACY OR COMPLETENESS. CONTRACTOR/ENGINEERS SHALL VERIFY EXACT SIZE AND LOCATION PRIOR TO CONSTRUCTION. CALL FOR LOCATE: UTILITY LOCATION SERVICE: 811

1

# PROPOSED LEGEND





SURVEY LEGEND & ABBEVIATIONS

⋈ WATER VALVE

2		3		4	
	JUJSIN	IG AUT			
BAKER	HEIGHTS REDE	EVELOPMENT			RL
PUBLIC WOR	RKS/BUILDING P	<b>ERMIT SUBMITTA</b>	AGG ARCH ASPH	AGGREGATE ARCHITECTURAL ASPHALT	ROW ROWIM
	JUNE 15, 20		AVE B/BC	AVENUE BOTTOM OF CURB	ROWORR
			BM CB	BENCHMARK CATCH BASIN	
POPLAR	FIR STREE		CD CL	CONDUIT DUCT BANK CENTER LINE,	RT
LAR ST			СОСОММ	CLASS CLEANOUT	S SCL
STREET			CONC	COMMUNICATIONS CONCRETE	SD
	14TH STREET		COS	CITY OF SEATTLE DUCT BANK	SDCI
			DSUB	DENNY SUBSTATION	SDOT
	·····································		DWG DWY	PROJECT DRAWING DRIVEWAY	SIP
		PROJECT SITE	E ECB	EAST ELECTRICAL CONDUIT,	SL
		PIN	ECD	BURIED ELECTRICAL	SNS SPU
		ESTRE	ELEC EL/ELEV		SPU
			ESMT EX/EXIST FF	EASEMENT EXISTING FINISHED FLOOR	SSS
	15TH STREET		FG FL	FINISH GRADE FLOW LINE	ST STA
FULTC	CEDAR		FND FO FU	FOUNDATION FIBER OPTIC FRANCHISE	STD TBD
AKER AVE	AR STREE	MAPLE ST	G HH	UTILITY GAS HANDHOLE	TBM TC
TREET		STREET	HMA	HOT MIX ASPHALT	TR TS
	VICINITY MAP		LA LT	LANDSCAPE ARCH LEFT	typ Ump
LEGEND & ABBEVIATIONS	SCALE: $1'' = 200' \pm$		MAX ME MEP	MAXIMUM MATCH EXISTING PLUMBING	UNO W
VALVE NT			МН	(DESIGN BUILD) MANHOLE	WAC
METER TION CONTROL VALVE BIB	PROJECT TEAM		MIN MNRL NO	MINIMUM MINERAL NUMBER	WSDOT
MANHOLE DLES (SS/SD)	OWNER:	STRUCTURAL ENGINEER: MICHAEL NOUWENS STRUCTURAL	N P PED	NORTH PRIMARY POWER PEDESTRIAN	
INLET R/UTILITY POLE	EVERETT HOUSING AUTHORITY 3107 COLBY AVENUE	CONSULTANTS P.O. BOX 921	PL POC	PROPERTY LINE POINT OF	# &
NCHOR IR POLE ? TRANSFORMER	EVERETT, WA 98201 PH: (425) 258–9222 STEVE YAGO	EDMONDS, WA 98020 PH: (206) 546-8446 MICHAEL NOUWENS	PSD	CONNECTION PIPED STORM DRAIN	
R/TELEPHONE VAULT R METER JNICATION BOX	STEVE7@EVHA.ORG	MICHAEL@NOUWENS-STRUCTURAL.COM	PSE	(MAINLINE) PUGET SOUND ENERGY	
ALVE ION BOX	ARCHITECT: GGLO DESIGN 1301 EIRST AVENUE SUITE 301	LANDSCAPE ARCHITECT: GGLO DESIGN 1301 FIRST AVENUE, SUITE 301	PSS	PIPED SANITARY SEWER	
ETER F LIGHT AIRE	1301 FIRST AVENUE, SUITE 301 SEATTLE, WA 98101 PH: (206) 467–5828	SEATTLE, WA 98101 PH: (206) 467–5828	PRC	(MAINLINE) POINT OF REVERSE	
	JOHN` HAĹL JHALL@GGLO.COM	MARIEKE LACASSE MLACASSE@GGLO.COM	PC	CURVATURE POINT OF CURVATURE	
RY : TYPE (CONIFEROUS TREE)	CIVIL ENGINEER KPFF CONSULTING ENGINEERS	MECHANICAL/PLUMBING ENGINEER	PT	POINT OF TANGENCY	
α TYPE (DECIDUOUS TREE)	1601 5TH AVENUE, SUITE 1600 SEATTLE, WA 98101	GLUMAC 1601 5TH AVENUE, SUITE 2210			
N SILL ELEVATION	PH: (206) 926-0519 ALBERTO CISNEROS ALBERTO.CISNEROS@KPFF.COM	SEATTLE, WA 98101 PH: (206) 262–1010 SCOTT VOLLMOELLER			
FLOOR ELEVATION	GEOTECHNICAL ENGINEER	SCOTT VOLLMOELLER SVOLLMOELLER@GLUMAC.COM			
MONUMENT TIC NAIL W/ WASHER	GEOENGINEERS 17425 NE UNION HILL ROAD, SUITE 250 REDMOND WA 98052	SURVEYOR PACE ENGINEERS			
AND CAP Ron Pipe(per everett gis online data)	REDMOND, WA 98052 PH: (425) 861–6000 ROBERT C. METCALFE	11255 KIRKLAND WAY, SUITE 300 KIRKLAND, WA 98033 PH: (425) 827–2014			
R LINES RTY LINES -OF-WAY LINES NES		···· (120) 027 2017			

3

RIGHT OF WAY LINE RIGHT OF WAY RIGHT OF WAY IMPROVEMENT MANUAL SEATTLE RIGHT OF WAY OPENING AND RESTORATION RULES (SDOT DR1-2017) RIGHT SOUTH SEATTLE CITY LIGHT SERVICE DRAIN (STORM) SEATTLE DEPARTENT OF CONSTRUCTION & INSPECTIONS SEATTLE DEPARTMENT OF TRANSPORTATION STREET IMPROVEMENT PERMIT STREET LIGHT STREET LIGHT STREET LIGHT STREET NAME SIGN SEATTLE PUBLIC UTILITIES SIDE SEWER COMBINED SIDE SEWER SANITARY STREET STATION STANDARD TO BE DETERMINED TEMPORARY BENCH MARK TOP OF CURB TRAFFIC SIGNAL TYPICAL UTILITY MAJOR PERMIT UNLESS NOTED OTHERWISE
TEMPORARY BENCH MARK TOP OF CURB TRAFFIC TRAFFIC SIGNAL TYPICAL
Permit Unless Noted
ADMINISTRATIVE CODE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION NUMBER
AND

4

SHEET NO	SHEET TITLE
C-00	COVER SHEET
1–8	TOPOGRAPHIC SURVEY FOR EVERETT HOUSING AUTHORITY
DEMO-1	BUILDING DEMOLITION (FOR REFERENCE, PERMITTED SEPARATELY)
C-010	OVERALL SITE PLAN
C-011	NOTES
C-012	NOTES
C-100	TESC PLAN
C-101	TESC DETAILS
C-200	SITE DEMOLITION
C-300	GRADING PLAN
C-301	GRADING PLAN
C-302	GRADING SECTIONS
C-305	STORM DRAINAGE PLAN
C-306	STORM DRAINAGE PLAN
C-307	STORM DRAINAGE DETAILS
C-308	STORM DRAINAGE DETAILS
C-400	ON-SITE HORIZONTAL CONTROL AND PAVING PLAN
C-401	ON-SITE PAVING SECTIONS AND DETAILS
C-405	14TH STREET – HORIZONTAL CONTROL AND PAVING PLAN AND SECTIONS
C-406	15TH STREET – HORIZONTAL CONTROL AND PAVING PLAN AND SECTIONS
C-500	SANITARY SEWER PLAN
C-501	SANITARY SEWER PLAN
C-502	SANITARY SEWER PROFILE
C-600	FIRE HYDRANT COVERAGE PLAN
C-601	WATER PLAN AND PROFILE
C-602	WATER PLAN AND PROFILE

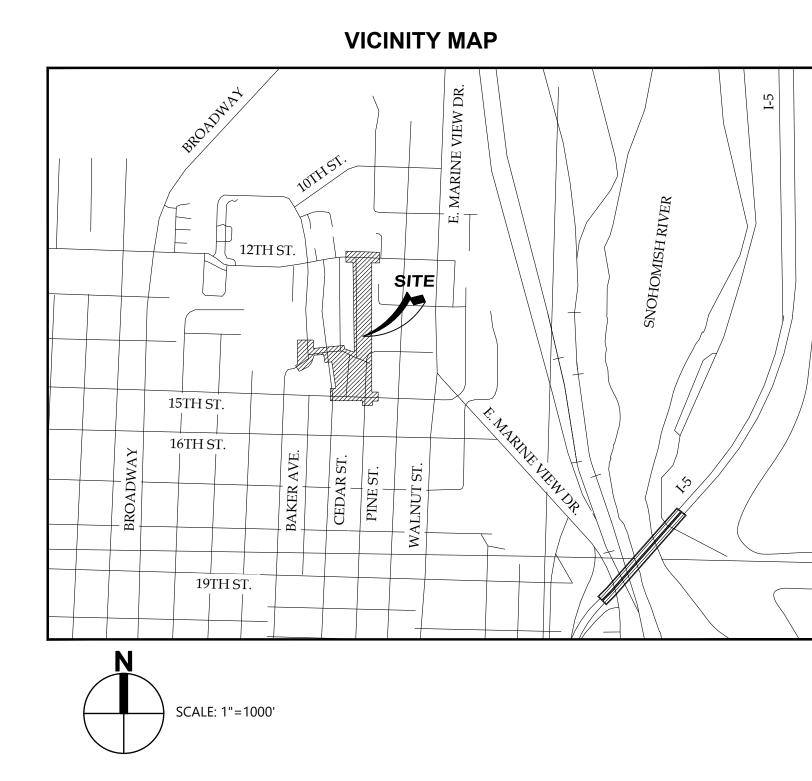
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SUBMI PERM DING WORKS/BUIL BLIC D

4

COPYRIGHT GGLO. ALL RIGHTS RESERVED ORIGINAL SHEET SIZE IS 24"x36"



### LEGAL DESCRIPTION:

PER CHICAGO TITLE INSURANCE COMPANY CERTIFICATE NO. 500089740 DATE: AUGUST 19, 2019 AT 8:00 AM

FOR APN/PARCEL ID(S): 003862-001-000-00 IOP

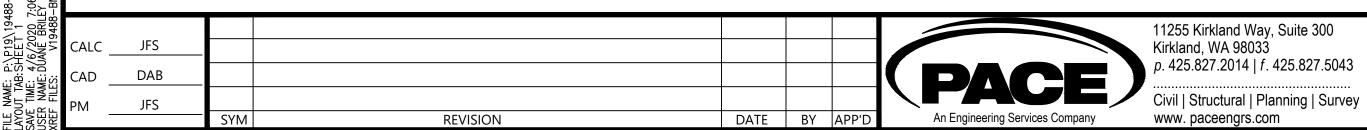
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SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.

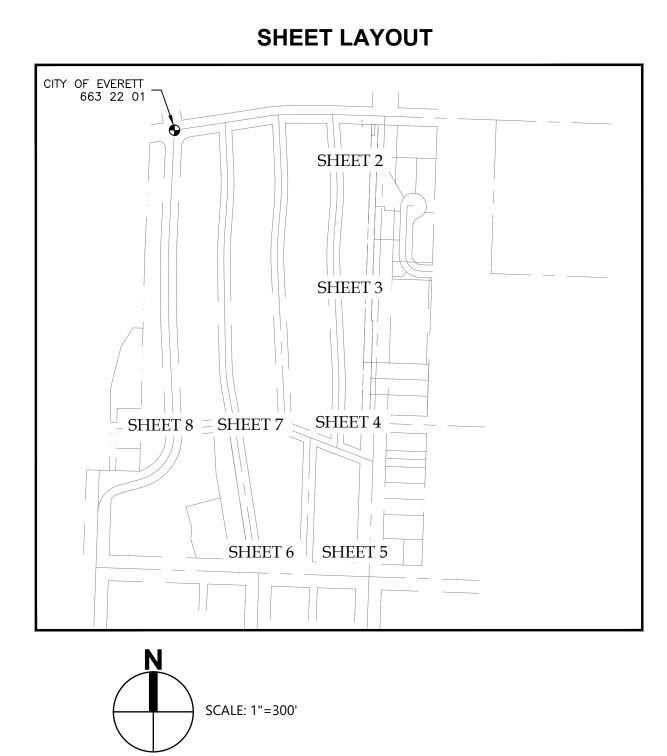
FOR APN/PARCEL ID(S): 003862-006-000-03

LOT 3 OF CITY OF EVERETT BINDING SITE PLAN NO. P.F.N. BSP 14-001 RECORDED UNDER AUDITOR'S FILE NO. 20140415501 BEING A PORTION OF BLOCK 6, BAKER HEIGHTS, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 14 OF PLATS, PAGE 111, RECORDS OF SNOHOMISH COUNTY, WASHINGTON. SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.



VAME: P:\P19\19488-EVERETT HOUSING AUTHORITY\CAD\SURVEY\C3D\REFS\V19488-SRV.DWG TT TAB:SHEET 1 TIME: 4/6/2020 7:06 AM PLOT TIME: 4/6/2020 7:06 AM NAME: DUANE BRILEY

# EVERETT HOUSING AUTHORITY BAKER HEIGHTS



### EVHA-BAKER HEIGHTS TAX PARCEL #00386200100000

DATE (	DCTOBER 1, 2019
SCALE	NTS
SURVEY TEAM	BL/NM/PC/SJF
FIELD BOOK	754 A,B,C & ELEC.
DWG:	V19488-SRV.DWG

HC HC VE AL TH BA IN VC ST 33 W.

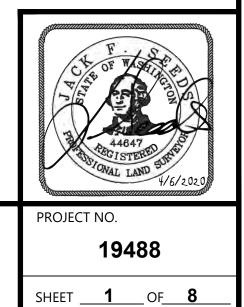
### NOTES:

HORIZONTAL DATUM:	NAD 83/91. CONSTRAINED TO CITY OF EVERETT CONTROL
	DESIGNATION: 663 22 01 4" IRON PIPE SET UNDER A IRON MONUMENT CASE WITH A 2" LEAD PLUG AND BRASS PIN. N=368207.00 E=1307197.17
VERTICAL DATUM:	NAVD 88 BASED, CITY OF EVERETT
	DESIGNATION: BM 663 22 01 ELEV.=115.30 FEET

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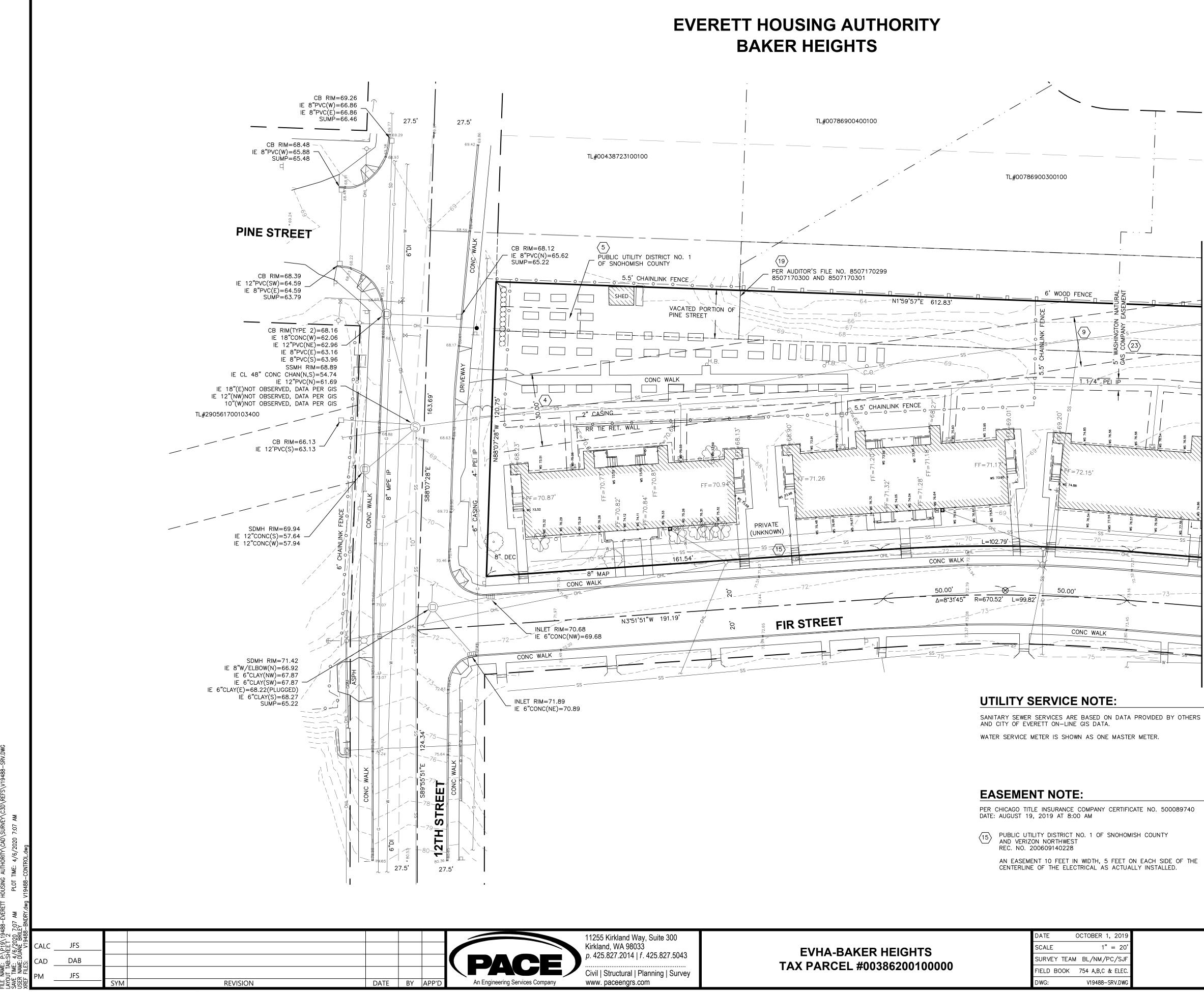
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PORTION OF: NE1/4, SECTION 17, T. 29N., R. 5E., W.M. PORTION OF: SE1/4, SECTION 17, T. 29N., R. 5E., W.M.

TOPOGRAPHIC SURVEY FOR EVERETT HOUSING AUTHORITY



- - CENTERLINE OF THE ELECTRICAL AS ACTUALLY INSTALLED.

DATE	OCTOBER 1, 2019	
SCALE	1" = 20'	
SURVEY TEAM	/ BL/NM/PC/SJF	
FIELD BOOK	754 A,B,C & ELEC.	
DWG:	V19488-SRV.DWG	

