DISTR	IBUTION & EQUIPMENT
SYMBOL	DESCRIPTION
	BRANCH CIRCUIT PANELBOARDS, SURFACE AND RECESS MOUNTED
	MOTOR CONTROL CENTER WITH CODE CLEARANCES SHOWN, DASHED EQUIP. = FUTURE
	TRANSFORMER WITH CODE CLEARANCES SHOWN
	EQUIPMENT OR TERMINAL ENCLOSURE AS NOTED, SURFACE AND RECESS MOUNTED
	TWO STACKED 120/208-VOLT PANELBOARDS
	SERVICE AND/OR DISTRIBUTION EQUIPMENT WITH CODE CONCRETE EQUIPMENT PAD SHOWN.
\diamond	CONNECTION TO MOTOR PROVIDED BY OTHERS
VFD	CONNECTION TO VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT
□	DISCONNECT SWITCH, SIZE AS NOTED OR IF NOT SHOWN SIZE PER CONNECTED MOTOR SIZE AND MOTOR DISCONNECT SCHEDULE
F _{30A}	FUSED DISCONNECT SWITCH, SIZE AS NOTED. SIZE FUSE PER MANUFACTURER'S RECOMMENDATIONS
C 60AT	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH, TRIP SIZE AS NOTED.
	DISCONNECT W/ MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
\square	MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
DM	DAMPER MOTOR CONNECTION
	BUSWAY RISER
	CONNECTION TO EQUIPMENT PROVIDED BY OTHERS. SHADED = ON ALT. POWER SOURCE NOTED
	CONNECTION TO EQUIPMENT WITH INTEGRAL DISCONNECT PROVIDED BY OTHERS. SHADED = ON ALTERNATE POWER SOURCE NOTED

SIGNAL DEVICES

SYMBOL	DESCRIPTION
	FIRE RATED PLYWOOD BACKBOARD, SIZE AS INDICATED ON PLANS
	SIGNAL SYSTEM EQUIPMENT ENCLOSURES AS NOTED- SURFACE, RECESSED MOUNTED
	COMBO TELE/DATA OUTLET. PROVIDE 4" SQUARE J-BOX WITH 1-GANG MUD RUNG AND 1"C.O. TO ABOVE NEAREST ACCESSIBLE CEILING
₹ ₹ _W	TELEPHONE OUTLET - W = USE HIGHER MOUNTING HEIGHT PER MOUNTING HEIGHT DETAIL. ROUGH-IN BE SAME AS COMBO TELE/DATA OUTLET ABOVE.
\triangleleft	DATA OUTLET - WALL. ROUGH-IN TO BE SAME AS COMBO TELE/DATA OUTLET ABOVE.
-BO	BELL
/	BUZZER
	CHIME
3 D-	SYSTEM CLOCK - WALL , CEILING
	INTERCOM STATION - WALL, DESK. M = MASTER STATION
\rightarrow	PUSHBUTTON OR PUSHBUTTONS
-0	PUSHBUTTON OR PUSHBUTTONS PROVIDED WITH EQUIPMENT
<h< th=""><th>RF COAX CABLE OUTLET (TV, VCR, ETC.)</th></h<>	RF COAX CABLE OUTLET (TV, VCR, ETC.)
Ŧ	COMBINATION RF COAX CABLE AND DATA OUTLET
-D_3	FURNITURE DATA FEED - WALL. PROVIDE 4" SQUARE J-BOX WITH 2-GANG MUD RING AND 1.75"C.O. TO ABOVE NEAREST ACCESSIBLE CEILING.
	FURNITURE FLOOR DATA FEED. PROVIDE 2"C.O. STUBBED THROUGH FLOOR.
	FLUSH FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE
	PEDESTAL FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE

FI	RE ALARM SYSTEM		POWER DEVICES		WIRING
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL AND ASSOCIATED COMPONENTS. PROVIDE 120V POWER AS REQUIRED OR AS	Hog-øg	SIMPLEX RECEPTACLE - WALL, CEILING, ON ALT.		NEW WORK
	INDICATED.	₽₫╼₫	DUPLEX RECEPTACLE - WALL, CEILING, ON ALT.		WIRING CONCEALED IN FLOOR OR UNDER GRADE OR ROUTED IN CEILING SPACE OF FLOOR BELOW.
FSA	FIRE ALARM SYSTEM ANNUNCIATOR	₩ ● ₩ ● ₩	DOUBLE DUPLEX RECEPTACLE - WALL, CLG, ON ALT.	(E)	EXISTING WORK TO REMAIN
۲Ē	FIRE ALARM SYSTEM MANUAL PULL STATION, WALL MOUNTED		SPECIAL PURPOSE RECEPTACLE -WALL, CEILING ON ALT. POWER; NEMA CONFIGURATION AS NOTED	(ER)	
元	ALARM BELL OR GONG	"ON ALT."	SHADED RECEPTACLES NOTED "ON ALT." ABOVE ARE		EXISTING WORK TO BE REMOVED
k X	STROBE LIGHT - WALL, CEILING MOUNTED (# = CANDELA RATING)		CONNECTED TO ALTERNATE POWER SOURCE (EMERG., STANDBY, UPS, ETC.) PER CIRCUITING INDICATED	(F)	FUTURE WORK
+ଡ⊄ ⊵ଏ	SPEAKER - WALL, CEILING MOUNTED		LETTER DESIGNATIONS ADJACENT TO RECEPTACLE:	т	TELEPHONE SYSTEM CONDUIT
৻৻ড়৾৾৾ৠ৾৾৾৾	COMBINATION SPEAKER/STROBE, WALL MOUNTED	AB AB	AB = ABOVE COUNTER BACKSPLASH. S.A.D. C = HALF OF ONE DUPLEX CONTROLLED BY ROOM	MV	MEDIUM VOLTAGE CONDUIT
	(# = CANDELA RATING)		OCCUPANCY SENSOR R = HALF OF ONE DUPLEX CONTROLLED BY		WHEN SHOWN, STROKES INDICATE QUANTITY OF
	HORN - CEILING, WALL MOUNTED		TIMEBLOCK RELAY DC = ONE WHOLE DUPLEX CONTROLLED BY ROOM		CONDUCTORS. NOTE: WIRING STROKES FOR 20A BRANCH CIRCUITS ARE NOT SHOWN ON DRAWINGS. CONTRACTOR
@□₽⋛≈₽⋛	COMBINATION HORN/STROBE - WALL, CEILING MOUNTED (# = CANDELA RATING)		OCCUPANCY SENSOR DR = ONE WHOLE DUPLEX CONTROLLED BY TIMECLOCK RELAY		SHALL USE INFORMATION IN PANEL AND BRANCH CIRCUIT SCHEDULES TO PROVIDE REQUIRED CIRCUITING.
⋴⋼⋉⋍⋼⋉	COMBINATION MINI HORN/STROBE - WALL, CEILING MOUNTED (# = CANDELA RATING)		GFI = DUPLEX RECEPTACLE W/ INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER		GROUND
	SPRINKLER VALVE TAMPER SWITCH CONNECTION		WP = WEATHERPROOF DUPLEX RECEPTACLE W/ IN-USE COVER AND INTEGRAL GFI		нот
	SPRINKLER FLOW SWITCH CONNECTION		DUPLEX RECEPTACLE - WALL - HALF SWITCHED		NEUTRAL
н())	LIGHT BEAM TYPE SMOKE DETECTOR (BR=BEAM RECEIVER,	es s	COMBINATION SWITCH/DUPLEX RECEPTACLE	L1A-1,3	HOME RUN WIRING TO INDICATED DESTINATION, 3/4"C. MIN. OR AS OTHERWISE NOTED. CONTRACTOR SHALL USE CIRCUIT
BR,BT	BT=BEAM TRANSMITTER)	⊖ +42"	RECEPTACLE TYPE SHOWN AT SPECIAL HEIGHT		SIZES NOTED IN RESPECTIVE SCHEDULES AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES.
——()	SMOKE DETECTOR, DUCT MOUNTED, WITH FULL WIDTH SAMPLING TUBES. PHOTOELECTRIC TYPE U.O.N.		WALL, FLOOR MOUNTED ELECTRICAL CONNECTION TO		CONDUIT OR WIRE BREAK SYMBOL
D D	SMOKE DETECTOR, LOW AIR VELOCITY IN DUCT MOUNTED PHOTOELECTRIC TYPE U.O.N.		ELECTRIFIED FURNITURE. PROVIDE 8 WIRES (4 HOTS, 1 DEDICATED NEUTRAL, 1 COMMON NEUTRAL, 1 IG) NEUTRALS TO BE #10 AWG. USE LIQUID-TIGHT FLEX.	· · · · · · · · · · · · · · · · · · ·	CONDUIT RUN TURNED UP THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
⊢⊕ ⊕ P,B,R,C	SMOKE DETECTOR - WALL, CEILING MOUNTED (P=PLENUM MOUNTED, B=W/ RELAY BASE, R=ELEVATOR RECALL, C=INTEGRAL TO DOOR CLOSURE)		FLUSH FLOOR POKE THRU DEVICE - SIMPLEX, DUPLEX, DOUBLE DUBLEX		CONDUIT RUN TURNED DOWN THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
\square	SMOKE DETECTOR MOUNTED BELOW RAISED FLOOR	● ● ●	FLUSH FLOOR BOX DEVICE - SIMPLEX, DUPLEX, DOUBLE DUPLEX		CONDUIT STUBBED OUT AT LOCATION SHOWN. PROVIDE INSULATED BUSHING & PULLROPE.
000-	ELECTROMAGNETIC DOOR HOLDER - WALL, FLOOR, DOOR CLOSURE MOUNTED. VERIFY REQUIREMENTS WITH DOOR SUPPLIER.		PEDESTAL FLOOR DEVICE - SIMPLEX, DUPLEX, DOUBLE DUPLEX		TELEPHONE/DATA SLEEVE THROUGH WALL, ABOVE CEILING. EXTEND TO ACCESSIBLE TILE CLG. BOTH SIDES. TERMINATE WITH BUSHINGS. (1) 1.25" CO UON. COORDINATE LOCATIONS
LM	DATA LOOP ISOLATION MODULE		FLOOR POKE THRU PEDESTAL MOUNTED DEVICE - SIMPLEX, DUPLEX, DOUBLE DUPLEX RECEPTACLE		WITH CABLE INSTALLER(S) PRIOR TO ROUGH-IN. JUNCTION BOXES, WALL, CEILING AND FLUSH FLOOR
СМ	ADDRESSABLE CONTROL MODULE		POKE THRU UNIT WITH DOUBLE DUPLEX RECEPTACLE - FLUSH, PEDESTAL MOUNTED.		MOUNTED. 4" SQ. BOX MIN., LARGER IF REQUIRED
MM	ADDRESSABLE MONITOR MODULE		COMBO POKE THRU UNIT WITH DUPLEX RECEPTACLE AND		WIRING EXTENSION POINT - CONDUIT TO MC CABLE OR MANUFACTURED WIRING SYSTEM J-BOX ABOVE ACCESSIBLE
EOL W	END OF LINE RESISTOR (NOT SHOWN ON PLANS)		TELE\DATA OUTLET - FLUSH, PEDESTAL MOUNTED.		CEILINGS AREAS, OR EXTEND CONDUIT & WIRE IN EXPOSED OR "HARD" CEILING AREAS. SHADED= ON ALT. POWER
J	FIREMAN'S PHONE JACK, WALL MOUNTED		MULTI-SERVICE FLOOR BOX CAST IN CONC. OR IN RAISED FLOOR - SEE ARCH DWGS; WITH RECEPTACLES & SIGNAL		SOURCE (EMERG,UPS,ETC.)
P	FIREMAN'S PHONE HANDSET, WALL MOUNTED			PB	PULL BOX, MIN. SIZE PER NEC., UON.
	FIRE/SMOKE DAMPER, WIDTH OF SYMBOL WILL VARY WITH DUCT WIDTH. PROVIDE POWER AND MONITORING AS INDICATED. REFER TO FSD CONNECTION DETAIL.		POKE THRU UNIT WITH JUNCTION BOX ABOVE FLOOR. TELE/POWER POLE, POWER POLE		FLEXIBLE CONDUIT CONNECTION UNDERFLOOR RACEWAY WITH ACTIVATION BOXES
\bigcirc	FLAME DETECTOR (FLICKER DETECTOR)				LADDER STYLE CABLE TRAY, WIDTH AND RUNG SPACING AS
	HEAT DETECTOR, CEILING MOUNTED. RATE OF RISE AND FIXED TEMPERATURE TYPE, UON.	J=====	TWO-PIECE SURFACE METAL RACEWAY WITH RECEPTACLES AS NOTED, BACK LENGTH AS INDICATED ON THE DRAWINGS AND WITH ALL FITTINGS AS REQUIRED.		SPECIFIED. BASKET STYLE CABLE TRAY. WIDTH AS SPECIFIED.
[€] R/C,F,R			TWO OR THREE COMPARTMENT SURFACE METAL RACEWAY WITH RECEPTACLES AND OUTLETS AS INDICATED, LENGTH AS		
EWSD	EARLY WARNING SMOKE DETECTION SYSTEM - INCLUDES ALL PIPING BY ELECTRICAL		INDICATED ON THE DRAWINGS. PROVIDE ALL FITTINGS AS REQUIRED.		
))	LIGHT (LAMP, SIGNAL LIGHT, INDICATOR LAMP, STROBE)			ELEC	TRICAL DRAWING LIST
⊢(Å)	FIRE ALARM OUTPUT OR RELEASE ABORT PUSHBUTTON, REFER TO SPECIFICATIONS AND DETAILS.				xx-xx-2024
3	AGENT RELEASE INITIATING VALVE				
н•	BELL SILENCE SWITCH				SUE01
	AGENT DISCHARGE SWITCH				SHEET NAME
	ELECTRICAL - B	ASIS OF		NUMBER	

ELECIRICAL - BASIS OF DESIGN

- SERVES A WATER SOURCE HEAT PUMP SYSTEM IN THE BUILDING AND IS A END OF LIFE.
- DOCUMENTS AND COORDINATING WITH ALL DISCIPLINES. 1. BRANCH CIRCUIT DISTRIBUTION INCLUDING ALL REQUIRED PANELBOARDS, CONDUIT, WIRING, AND DEVICES.
- C. CODES AND STANDARDS
 - REGULATIONS INCLUDING NECESSARY PERMITS AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES. a. WASHINGTON BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ):
 - b. 2018 INTERNATIONAL BUILDING CODE (IBC) WITH STATE AND LOCAL AMENDMENTS.
 - c. 2018 INTERNATIONAL FIRE CODE (IFC) WITH STATE AND LOCAL AMENDMENTS. d. 2020 NATIONAL ELECTRICAL CODE (NEC)
 - e. 2018 WASHINGTON STATE ENERGY CODE (WAC 51-11, WSEC)
- D. POWER SYSTEM DESIGN
- 1. POWER SYSTEM DESCRIPTION -CALCULATION, AND PANEL SCHEDULE FOR EXACT REUSE OR NEW ELECTRICAL INFORMATIONS. 2. EMERGENCY POWER -
- a. EMERGENCY OR STANDBY POWER IS NOT REQUIRED FOR THIS COOLING TOWER.

EXHIBIT C - ELECTRICAL DRAWINGS

ELECTRICAL LEGEND

ELECTRICAL 1-LINE DIAGRAM AND PANELBOARD SCHEDULES

ELECTRICAL LEGEND AND ABBREVIATIONS

LEVEL 1 - POWER AND SIGNAL PLAN

E0.0

E3.1

E5.1

A. THIS PROJECT CONSISTS OF A COOLING TOWER REPLACEMENT FOR AN EXISTING FACILITY LOCATED AT 2121 W CASINO RD, IN EVERETT WASHINGTON. THE TOWER

B. THE DESIGN INCLUDES THE FOLLOWING NOTABLE FEATURES, BUT IS NOT LIMITED TO THIS SCOPE. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONTRACT

1. THE COMPLETE INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES, UTILITY COMPANY REQUIREMENTS AND

a. FEED NEW COOLING TOWER FROM EXISTING COOLING TOWER SOURCE PANEL, EXISTING CIRCUIT BREAKER ON PANEL IS IN WORKING CONDITION, EXISTING RACEWAY SHALL BE REUSED AND NEW WIRING SHALL BE PULLED FOR NEW COOLING TOWER, REFER TO ELECTRICAL 1-LINE DIAGRAM, COOLING TOWER LOAD

0-/-0

FUSE, HOLDER & PULLER

SOLENOID

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT. REFER TO DETAILS AND NOTES FOR MOUNTING HEIGHTS. GLUMAC DIAGRAMS A TETRA TECH COMPAN engineers for a sustainable future™ SYMBOL DESCRIPTION 1601 Fifth Ave., Suite 2210 Seattle, WA 98101 TRANSFER SWITCH. ATS = AUTOMATIC. MTS = MANUAL www.glumac.com TRANSFER T. 206.262.1010 6 Project Manager: DeNayne Glenn Job. No.: 24US00135 AUTOMATIC TRANSFER SWITCH WITH MAINTENANCE BYPASS(BIATS) 000 SWITCH BUSWAY STAB-IN TYPE CIRCUIT BREAKER OR FUSE DISCONNECT. SIZE AS NOTED. 60AT 30A FIELD INSTALLED CONTROL CIRCUIT WIRING TO DESTINATION -----} SHOWN, U.O.N. $-\infty$ OVERLOADS Client \rightarrow NORMALLY CLOSED CONTACTOR OR RELAY CONTACTS ____ NORMALLY OPEN CONTACTOR OR RELAY CONTACTS BUS DUCT **BUS BAR** WSIPC BATTERY GENERAL Inspired by education. Empowered by technology.™ --RESISTOR \longrightarrow CONNECTOR, FEMALE AND MALE RESPECTIVELY $\overline{()}$ PIPE GROUND **(C)** CONTACTOR COIL (\mathbf{R}) RELAY COIL LIGHTNING SURGE ARRESTOR D = DISTRIBUTION CLASS Project I = INTERMEDIATE CLASS SPD SURGE PROTECTION DEVICE WSIPC Cooling CURRENT TRANSFORMER \cup **Tower Replacement** $\rightarrow \vdash$ POTENTIAL TRANSFORMER 2121 W. Casino Road, Everette, WA NORMALLY OPEN PUSH BUTTON NORMALLY CLOSED PUSH BUTTON 00 -⊡-∘ FUSED VOLTAGE SENSE LEADS PF METER: POWER FACTOR KWH METER: KILOWATT HOUR M MUTILITY CO. APPROVED SOCKET WITH METER INSTALLED. SQUARE = REMOTE MOUNTED DMU DIGITAL METER UNIT. REFER TO SPECIFICATIONS. STB CURRENT TRANSFORMER SHORTING TERMINAL BLOCK. TERMINAL FOR FIELD CONNECT, SIZE & TYPE SUITABLE FOR \oslash CONDUCTOR INSTALLED. LED INDICATOR LIGHT, PUSH TO TEST, R=RED, G= GREEN, B= X BLUE, Y= YELLOW, W= WHITE \bigtriangleup DELTA CONNECTION 2/16/2024 $\bigvee_{\underline{}}$ GROUNDED WYE CONNECTION CONNECTION TO GROUND ©2014 - GLUMAC ALL RIGHTS RESERVED THESE DRAWINGS ARE THE PROPERTY OF GLUMAC ARE NOT TO BE CIRCUIT BREAKER, WITH TRIP & FRAME AMPERE RATING 100AT ⁶\ USED OR REPRODUCED IN ANY MANNER, 225AF ₉/ WITHOUT PRIOR WRITTEN PERMISSION 225AF FUSED SWITCH, WITH FUSE AND SWITCH AMPERE RATING 400AS Revisions INDIVIDUALLY MOUNTED CIRCUIT BREAKER Description Date CIRCUIT BREAKER, MEDIUM VOLTAGE, DRAWOUT $\prec \leftarrow \rightarrow \rightarrow$ DRAWOUT CIRCUIT BREAKER SHEET TITLE: -GF GROUND FAULT TRIP UNIT ELECTRICAL GFA LEGEND AND GROUND FAULT ALARM ONLY **ABBREVIATIONS** BA BELL ALARM TRIP MODULE CONTACTS ST SHUNT TRIP UNIT, 120VAC OR VOLTAGE AS NOTED MCM MONITORING COMMUNICATION MODULE AM DRAWN BY: Author INTEGRAL AMMETER DISPLAY - -(K)- -KEY INTERLOCK CHECKED BY: Checker 10 CAPACITOR, POWER FACTOR CORRECTION, SIZE IN KVAR

SHEET

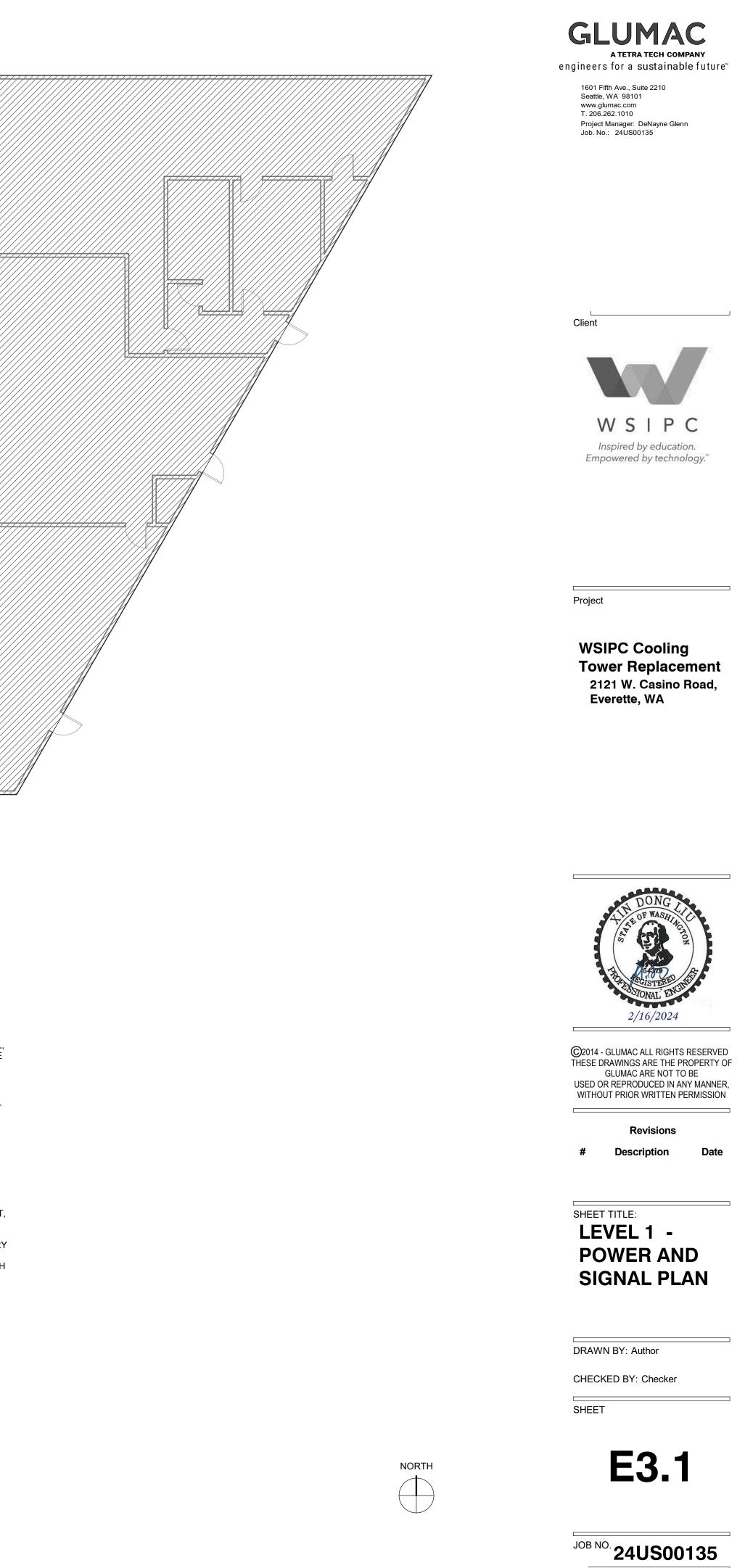
E0.0

^{JOB NO.} 24US00135

Construction Documents 2/19/2024

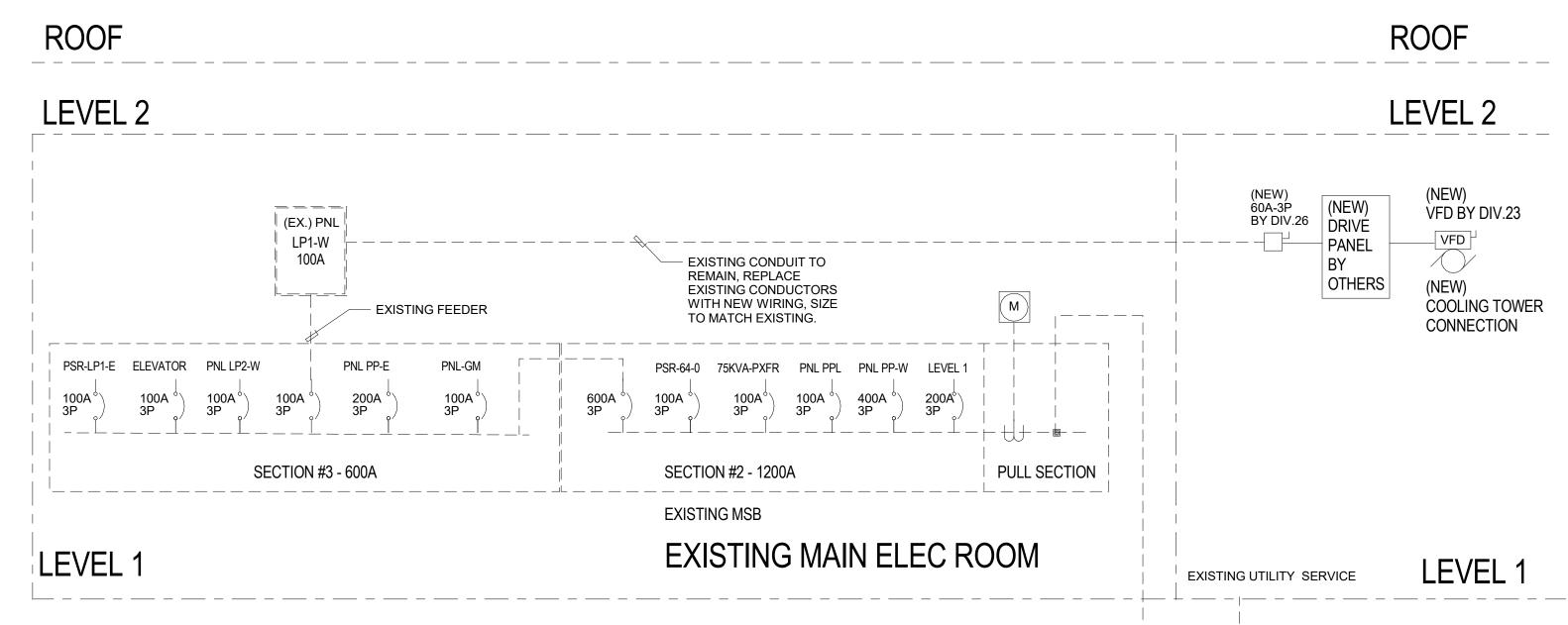


- PROVIDE ONE POINT CONNECTION TO COOLING TOWER DRIVE PANEL REUSE AND CLEAN EXISTING CONDUITS FROM PANELBOARD SOURCE TO DRIVE PANEL LOCATION, EXTEND CONDUIT AS REQUIRED IF THE NEW DRIVE PANEL LOCATION IS MOVED, PROVIDE NEW WIRING TO REPLACE AND SIZE MATCH EXISTING CONDUCTORS THROUGH EXISTING CONDUIT TO NEW DRIVE PANEL. NEW COOLING TOWER IS SAME MODEL AS EXISTING ONE, REUSE THE EXISTING 50A-3P CIRCUIT
- 2. ALL MISC. 120V POWER CONNECTIONS TO PUMPS, VALVES, HEATERS AND CONVENIENCE RECEPTACLES WITHIN THE FENCE, WHICH SERVING EXISTING COOLING TOWER WERE FED FROM THIS PANELBOARD, REUSE THE EXISTING CIRCUIT BREAKERS AND CONDUITS TO FEED NEW MISC. EQUIPMENT, REPLACE EXISTING CONDUCTORS WITH NEW CONDUCTORS. PROVIDE (1) NEW 20A-1P CIRCUIT FROM THIS PANELBOARD TO FEED (2) (NEW) 120V BYPASS ISOLATION VALVES WHICH ARE INSTALLED AS PART OF THIS PROJECT,
- 3. AFTER EXISTING COOLING TOWER IS REMOVED, PROVIDE TEMPORARY POWER FED FROM EXISTING COOLING TOWER MAIN POWER CIRCUIT BREAKER FOR TEMPORARY COOLING TOWER USE, COORDINATE WITH MECHANICAL CONTRACTOR ON LOCATION OF TEMPROARY TOWER



Construction Documents 2/19/2024

As indicated



					(•			-		. Tune	1							
				V, 3PH, 4W =		NEMA RATING: Type 1 INTEGRAL SPD: No												
MOUNTING: SURFACE BUS RATING: 100 A								GROUN	-	-								
			100 A 100 A ML	0				D-THRL		-				LOCATION	٩.			
		ATING		0				OUBLE							N: EXISTING M	SB		
		POLE				TYPE		(VA)			C (kVA)		TYPE			POLE	TRIP	СК
1		1	SPACE											SPACE		1		2
3									9.7	0				LIGHTS-TRAINING LAB, LU	NCH ROOM ^	1	20 A	4
5	50 A	3	EXISTING	COOLING TOWER V	FD	М					9.7	0		LIGHTS-CONSTELLATION	A&B ^	1	20 A	6
7							9.7	0						LIGHTS-COPIER ROOM ^		1	20 A	8
9	20 A	1	LIGHTS-S	TORE ROOM ^					0	0				LIGHTS-ELECTRICAL/MEC	H.ROOM ^	1	20 A	1
11											0	0		SPARE		1	20 A	12
13	30 A 🛛	3	SPARE				0							SPACE		1		14
15									0					SPACE		1		1
17		1	SPACE			1								SPACE		1		18
19		1	SPACE			-								SPACE		1		20
21		1	SPACE											SPACE		1		22
23		1	SPACE											SPACE		1		24
25		1	SPACE											SPACE		1		20
27		1	SPACE											SPACE		1		28
29		1	SPACE											SPACE		1		30
SPECI	AL PA	NEL F	EATURES				9.7	kVA	9.7	kVA	9.7	kVA		JIT NOTES				
														ISTING CIRCUIT TO REMAIN				
													(X) - E	EXISTING CIRCUIT TO BE RE	EMOVED.			
OAD	TYPF	CON	NECTED	DEMAND FACTOR	DEMAN					D TYPE	KFY			ΡΔΝΕΙ	TOTALS			
Mo			0.1 kVA	125%		57 kVA		C = CONTINUOUS							KVA		AMPS	,
Wotor										ELEVA			Т	TOTAL CONNECTED LOAD:	29.1 kVA		35 A	
										KITCH			· ·	TOTAL DEMAND LOAD:	36.37 kVA		43.8 A	
										LIGHTI		SPARE CAPACITY:			25%		25%	
														DESIGNED CAPACITY:	45.47 kVA	_	55 A	
								M = MOTOF MOTOR = LARGES				TOR			43.47 KVA		JJ A	
								N = NON-CONTINU							_			
								N			11/11/11/11/1							
								N				3						
								N		ECEPT		3						
								N				3						

L _ _ _ _ _ _

SHEET NOTES

- A. ALL CIRCUITS ARE 3 PHASE, UNLESS OTHERWISE NOTED.
- B. ITEMS SHOWN ARE ALL EXISTING UNLESS NOTED OTHERWISE. NEW EQUIPMENT WILL IDENTIFIED AS '(NEW)".
- C. ALL COMPONENTS SHALL BE FULLY RATED. SERIES RATED IS NOT
- ALLOWED. D. PROVIDE CABLE SUPPORTS PER NEC 300.19(A).

PÆ	١NE	EL:	EXIS	STING LP1	-W (AF	ΓEF	R)										
	MOU BUS R MAIN	NTING: ATING:	: SURFACE : 100 A : 100 A ML				IN ISOL (FEED	itegr/ Groun D-thrl	RATING AL SPD ND BAR J LUGS E-LUGS	No No No	1			LOCATION SUPPLY FROM				
СКТ	TRIP	POLE	DESCRIPTION			TYPE	A (k	(VA)	B (kVA)		C (k	C (kVA)		DESCRIPTIO	N	POLE	TRIP	СК
1		1	SPACE											SPACE		1		2
3 5	50 A	3	NEW COC	LING TOWER VFD		М			9.7	0	9.7	0		LIGHTS-TRAINING LAB, LU		1 1	20 A 20 A	4
7							9.7	0	-					LIGHTS-COPIER ROOM ^		1	20 A	8
	20 A	1	LIGHTS-S	TORE ROOM ^					0	0			<u> </u>	LIGHTS-ELECTRICAL/MEC	H.ROOM ^		20 A	10
	30 A	3	SPARE				0				0	0		SPARE SPACE		1	20 A 	12 14
15									0					SPACE		1		16
17		1	SPACE											SPACE		1		18
19		1	SPACE											SPACE		1		20
21 23		1	SPACE SPACE											SPACE SPACE		1		22
23 25		1	SPACE											SPACE		1		24
27		1	SPACE											SPACE		1		20
29		1	SPACE											SPACE		1		30
SPEC	IAL PA	NEL FI	EATURES				9.7	<u>kVA</u>	9.7	kVA	9.7	kVA	^ - EX	JIT NOTES ISTING CIRCUIT TO REMAIN XISTING CIRCUIT TO BE RE				
	OAD TYPE CONNECTED DEMAND FACTOR DE		DEMA	ND LO	AD	LOAD TYPE KEY					PANEL TOTALS							
Мо	otor	29	0.1 kVA	125%	36.	36.37 kVA			C = C	ONTIN	JOUS				KVA		AMPS	
									E =	ELEVA	TOR		T	OTAL CONNECTED LOAD:	29.1 kVA		35 A	
									K =	KITCH	EN			TOTAL DEMAND LOAD:	36.37 kVA		43.8 A	
									L =	LIGHTI	NG			SPARE CAPACITY:	25%		25%	
									М	= MOT(OR			DESIGNED CAPACITY:	45.47 kVA		55 A	
									TOR = I									
								Ν	I = NON			S						
									R = R	ECEPT	ACLE					_		
																_		
		I		1 1														



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Revisions

Date

Description

ELECTRICAL

DIAGRAM AND

PANELBOARD

E5.1

SCHEDULES

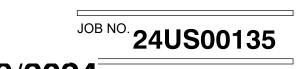
SHEET TITLE:

1-LINE

DRAWN BY: Author

SHEET

CHECKED BY: Checker



Construction Documents 2/19/2024[–]