DEMOLITION NOTES

- A. THE EXISTING CONDITIONS SHOWN WERE TAKEN FROM AVAILABLE RECORD INFORMATION. FIELD VERIFY ALL CONDITIONS THAT MAY AFFECT CONSTRUCTION. IF ANY DISCREPANCIES ARE DISCOVERED, NOTIFY THE ENGINEER IN WRITING AND REQUEST DIRECTION PRIOR TO COMMENCING WORK.
- B. ANY AND ALL EQUIPMENT HAVING ELECTRICAL CONNECTIONS THAT REQUIRE DISCONNECTING AND/OR RE-CONNECTING AS A RESULT OF CONSTRUCTION SHALL BE INCLUDED AS A PART OF THIS CONTRACT.
- C. THE EXISTING ELECTRICAL DEVICES, CONDUIT, AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION SHALL BE RELOCATED UNLESS OTHERWISE NOTED. LOCATION IS TO BE AS CLOSE AS POSSIBLE TO THE ORIGINAL LOCATION.
- D. ALL CIRCUITS, CONDUIT AND WIRE THAT ARE NOT TO REMAIN IN SERVICE SHALL BE REMOVED BACK TO THE FIRST ACCESSIBLE JUNCTION BOX WHERE IT SHALL BE TIED OFF AND LABELED AS SPARE WITH CIRCUIT NUMBER INDICATED.

GENERAL NOTES

SHEETS.

E. REMOVE ALL ABANDONED WIRE AND CABLING.

1. SYMBOLS LEGENDS ARE PROVIDED FOR REFERENCE PURPOSES ONLY. THE SYMBOLS REPRESENT THE TYPE OF DEVICES THAT MAY BE REQUIRED IN THE WORK; QUANTITIES AND LOCATIONS ARE AS SHOWN ON THE PLAN

- 2. PROVIDE 3/4" CONDUIT & #12 CONDUCTORS UNLESS NOTED OTHERWISE. PROVIDE ONE NEUTRAL CONDUCTOR FOR EACH UNGROUNDED CONDUCTOR OF SINGLE PHASE LINE-NEUTRAL BRANCH CIRCUITS. DO NOT SHARE NEUTRAL CONDUCTORS.
- 3. EACH FEEDER AND BRANCH CIRCUIT CONDUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NFPA 70, ARTICLE 250.
- 4. ALL ELECTRICAL EQUIPMENT IN PORTIONS OF THE BUILDING NOT BEING REMODELED SHALL BE LEFT IN WORKING CONDITION. RESTORE ANY CIRCUITS INTERRUPTED.
- 5. THE FOLLOWING IS PART OF THIS PROJECT AND ALL COSTS PERTAINING THERETO SHALL BE INCLUDED IN THE BASE BID: A. NEW ELECTRICAL EQUIPMENT AND APPARATUS SHALL BE COORDINATED AND CONNECTED INTO THE
- EXISTING SYSTEM AS REQUIRED. B. WHERE EXISTING CONDUITS ARE INDICATED FOR REUSE, FIELD VERIFY INTEGRITY OF REUSED RACEWAYS
- PRIOR TO INSTALLATION OF CONDUCTORS. PROVIDE NEW RACEWAYS WHERE EXISTING ARE UNUSABLE. D. LOCATIONS OF ALL WALL MOUNTED DEVICES SUCH AS SWITCHES, RECEPTACLES, AND OUTLETS ARE SHOWN DIAGRAMMATICALLY. DETERMINE EXACT DEVICE LOCATIONS IN FIELD; COORDINATE INSTALLATIONS WITH FIXED CASEWORK, DOORS AND RELITES.
- E. PROVIDE PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS AS REQUIRED. PROVIDE SUITABLE FIRE RATED MATERIALS AND SEAL ALL CEILING, FLOOR, AND WALL PENETRATIONS TO MATCH FIRE RATING OF SURFACES PENETRATED.

<u>AB</u>

IES

IG

JB

KCMIL

KVAR

KWH

KW

LBS

LRA LS LT

LTG LV

LF

KVA

IMC IN

IEEE

ADDICE VIATIONS@ATA/CAIR CONDITIONING(ER)A(AMP) AMPEREACABOVE COUNTER, ALTERNATING CURRENTADJADJUSTABLEADJADJUSTABLEADJTADJACENTAFFABOVE FINISHED FLOORAHJAUTHORITY HAVING JURISDICTIONAICAMPERE INTERRUPTING CAPACITYALTALTERNATEANNANNUNCIATORARCHARCHITECT; ARCHITECTURALATSAUTOMATIC TRANSFER SWITCH	MAG MAN MAT MCA MCB MECH MEZZ MG MH MIN MISC MLO MOCP MS MTD MTG MTR
AUX AUXILIARY N AWG AMERICAN WIRE GAUGE	MTR
BKBD BACKBOARD BKR BREAKER BLDG BUILDING	N/A
C CONDUIT M CAP CAPACITY M CB CIRCUIT BREAKER M CKT CIRCUIT CLG CEILING M CLR CLEAR M COL COLUMN M COM COMMUNICATION CPS CYCLES PER SECOND I	NC NEC NEMA NESC NEUT NFPA NIC
CT CURRENT TRANSFORMER M CTL CONTROL M CU COPPER	NO NTS OC
DCDIRECT CURRENTODISC SWDISCONNECT SWITCHDISCDISCONNECTDNDOWNDWGDRAWING	OFCI OFOI OL OS
EEXIST, EASTFEDHELECTRIC DUCT HEATERFEFEXHAUST FANFEGCEQUIPMENT GROUNDING CONDUCTORFELELEVATIONFELCELECTRIC(AL)FELEVELEVATORFEMEMERGENCYFENTELECTRICAL METALLIC TUBINGFENCLENCLOSUREFENTRENTRANCEFEPEXPLOSION PROOFFEVCELECTRIC WATER COOLERFEWHELECTRIC WATER HEATERFEXHEXHAUSTFEXTEXTERIORFEVICTEXISTINCF	P PA PAR PB PF PH PIV PNL POC PWR QTY R (R) RAD RECPT REF
EAISTEAISTINGFFFAHRENHEIT/FUSEFAFIRE ALARMFAAFIRE ALARM ANNUNCIATORFACPFIRE ALARM CONTROL PANELFCFOOTCANDLEFCFOOTCANDLEFDFIRE DAMPERFDRFEEDERFIXTFIXTUREFLAFULL LOAD AMPSFSDFIRE/SMOKE DAMPER	RPM S SC SCCR SD SECT SF SHT SPD SPEC SPEC
GEN GENERATOR GEN GFI GROUND FAULT CIRCUIT INTERRUPTER GFR GROUND FAULT RELAY	SQ STOR SW SWBD SYM
HHEIGHTSHIDHIGH INTENSITY DISCHARGEHOAHAND OFF AUTOMATICHORHORIZONTALHPHORSEPOWERHRHOURHTHEIGHTHWHOT WATERHZHERTZ	SYS T TB TC TEL TV TYP

INTERNATIONAL BUILDING CODE	
INTERCOM	
ILLUMINATING	
INSTITUTE OF ELECTRICAL AND	

ELECTRONIC ENGINEERS ISOLATED GROUND INTERMEDIATE METAL CONDUIT INCH

JUNCTION BOX THOUSAND CIRCULAR MILLS KILOVOLT AMPERES KILOVOLT AMPERES REACTIVE

KILOWATT KILOWATT HOUR POUNDS

LINEAR FEET (FEET) LOCKED ROTOR AMPS LIFE SAFETY LIGHT LIGHTING

LOW VOLTAGE

MECH

MOCP

MAXIMUM MINIMUM CIRCUIT AMPACITY

MAIN CIRCUIT BREAKER MECHANICAL

MEZZANINE MOTOR GENERATOR METAL HALIDE / MANHOLE

MINIMUM MISCELLANEOUS MAIN LUG ONLY

MAXIMUM OVERCURRENT PROTECTION MAGNETIC STARTER

MOTOR NORTH; NEUTRAL

MOUNTED

MOUNTING

NOT APPLICABLE NORMALLY CLOSED

NATIONAL ELECTRICAL CODE NATIONAL ELECTRIC MANUFACTURERS

ASSOCIATION

NATIONAL ELECTRICAL SAFETY CODE NEUTRAL

NATIONAL FIRE PROTECTION ASSOCIATIONS

NOT IN CONTRACT NORMALLY OPEN

NOT TO SCALE

ON CENTER OWNER FURNISHED CONTRACTOR

INSTALLED

OWNER FURNISHED OWNER INSTALLED OVERLOAD

OPTIONAL STANDBY

PRIMARY PUBLIC ADDRESS

PARALLEL PULL BOX

PHOTO ELECTRIC

POWER FACTOR PHASE

POST INDICATOR VALVE

POINT OF CONNECTION POWER

QUANTITY

PANEL

RADIUS

RELOCATE (D)

RECEPTACLE

REFRIGERATOR RATED LOAD AMPS

REVOLUTIONS PER MINUTE

SOUTH

SECURITY SHORT CIRCUIT CURRENT RATING

SMOKE DETECTOR

SUPPLY FAN

SECTION

SHEET SURGE PROTECTIVE DEVICE

SPECIFICATION SPECIAL

SQUARE

STORAGE SWITCH SWITCHBOARD

SYMMETRICAL

SYSTEM

THERMOSTAT

TERMINAL BOX TIME CLOCK

TELEVISION

TELEPHONE

TYPICAL

UNIFORM FIRE CODE UNDERGROUND

UNIT HEATER

UNDERWRITERS LABORATORIES UNLESS OTHERWISE NOTED

UNIT VENTILATOR

VOLT VARIABLE AIR VOLUME

VELOCITY VOLTMETER

VOLUME

WATT, WEST WITH WITHOUT

WATER HEATER

WATT HOUR METER WEATHERPROOF

REACTANCE

IMPEDANCE

AND THAT IS

ELECTRICAL SHEET INDEX									
E0.00	GENERAL NOTES, ABBREVIATIONS AND SHEET INDEX								
E0.01	ELECTRICAL LEGEND								
E0.02	ELECTRICAL - GARAGE PLAN OVERALL								
E1.01	ELECTRICAL - ENLARGED PLAN								
E1.02	ELECTRICAL - ENLARGED PLAN								
E1.03	ELECTRICAL - ENLARGED PLAN								
E2.01	ELECTRICAL EQUIPMENT SCHEDULE								
E6.00	ELECTRICAL ONE-LINE DIAGRAM								
E7.00	ELECTRICAL DETAILS								





#	DESCRIPTION	DATE

ILANI CASINO PARKING STRUCTURE COWLITZ INDIAN TRIBE

1 COWLITZ WAY, RIDGEFIELD, WA 98642





.SY	(MBOLS LEGEND - GENERAI		SYMBOLS FGFND - POWFR		SYMBOLS FGEND - POWER] [SYMBOLS FGEND - PO
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
#	DRAWING CONSTRUCTION ("FLAG") NOTE				CIRCUIT BREAKER		
			TRANSFORMER			۵ ۱	2-POSITION SELECTOR SWITCH
X-XX	EQUIPMENT IDENTIFIER			CB xxxA/xP	xxxA/xP - AMPS/POLES		3-POSITION SELECTOR SWITCH HAND-OFF-AUTON
	MATCHLINE		POLE-MOUNTED TRANSFORMER		ENCLOSED CIRCUIT BREAKER (ONE-LINE DIAGRAM) xxxA/xP - AMPS/POLES	o−'−ok	
			POLE				ON-OFF SELECTOR SWITCH
	REVISION CLOUD (ENCIRCLES DRAWING CHANGES MADE SINCE THE PREVIOUS RELEASE)		DELTA		BREAKER WITH EXTERNAL GROUND FAULT RELAY AND CT		2-CIRCUIT PUSHBUTTON
		ī	WYE				PUSHBUTTON SWITCH MOMENTARY CONTACT
	REVISION REFERENCE		MEDIUM VOLTAGE CABLE TERMINATOR		CIRCUIT BREAKER WITH INTEGRAL GROUND FAULT PROTECTION	\otimes	EQUIPMENT CONNECTION
	EXISTING TO BE REMOVED (DASHED)	⊷ •–	LIGHTNING ARRESTORS		MOTOR-OPERATED CIRCUIT BREAKER	G	GENERATOR
	HEAVY LINEWEIGHT INDICATES NEW WORK	• (ı	SURGE ARRESTORS	b			
	LIGHT LINEWEIGHT INDICATES EXISTING INFORMATION	•	NEUTRAL GROUNDING RESISTOR		SWITCH WITH EXTERNAL GROUND FAULT RELAY AND CT	(M) FSD	FIRE SMOKE DAMPER
•	POINT OF CONNECTION	M	METER				
•	LIMIT OF DEMOLITION		MICROPROCESSOR CONTROLLED MONITOR REFER TO SPECIFICATIONS FOR METERING VALUES AND		MOV SURGE PROTECTION		STARTER 3-POLE, NEMA SIZE 1 MINIMUM UNLESS
			PROTECTIVE FUNCTIONS				COMBINATION STARTER
		3	CURRENT TRANSFORMER		MOTOR THERMAL OVERLOADS - (3) UNI ESS OTHERWISE NOTED		OTHERWISE - OVERCURRENT PROTECTION AS RE EQUIPMENT MANUFACTURER OR AS NOTED
	SHEET WHERE DETAIL IS DRAWN				NORMALLY OPEN CONTACT		DISCONNECT SWITCH
X			POTENTIAL TRANSFORMER		NORMALLY CLOSED CONTACT		3-POLE UNLESS NOTED OTHERWISE
XX.XX		AM	INDICATING INSTRUMENT AM-AMMETER; VM-VOLTMETER; FM-FREQUENCY METER;	(SV -040-	SOLENOID VALVE	╽╴│╓╺╰┉╍	FUSED DISCONNECT SWITCH 3-POLE UNLESS NOTED OTHERWISE
	NUMBER SHEET WHERE ELEVATION IS DRAWN		kVAR-KILOVAR METER; kWH-KILOWATT HOUR METER; kWH/D-KILOWATT HOUR DEMAND METER		MOTOR-OPERATED VALVE		CONTACTOR
	SECTION REFERENCE SECTION	AS	INSTRUMENT SWITCH				RELAY COIL
N			AS-AMMETER SWITCH; VS-VOLTMETER SWITCH; SS-SYNCHRONIZING SWITCH; SV-SUPERVISORY (LOCAL REMOTE) SWITCH			CR	CR-CONTROL RELAY; TD-TIME DELAY RELAY; UV-UNDERVOLTAGE RELAY; M-MOTOR
						, м	CONTACTOR;
	NORTH REFERENCE		SEPARABLE CONNECTOR		A-AMBER; B-BLUE; G-GREEN; R-RED; W-WHITE	\$	MOTOR-RATED SWITCH - SIZE OL PER MOTOR RE
			DRAWOUT AC TYPE POWER CIRCUIT BREAKER		BATTERY		
SY	/MBOLS LEGEND - GENERAL		SYMBOLS LEGEND - POWER	S	YMBOLS LEGEND - WIRING DEVICES	S)	YMBOLS LEGEND - COMMUN
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL \$		SYMBOL	
	JIT CONCEALED IN CEILING SPACE OR IN WALL. PROVIDE MINIMUM TH #12 AWG CONDUCTORS AND DEDICATED NEUTRAL EACH IT UNI ESS OTHERWISE NOTED ON PLAN. PROVIDE EQUIPMENT		480Y/277V, 3Ø, 4W PANELBOARD	\$ ^{xx}	WALL SWITCH - SUBSCRIPT		NOTED. NUMBER INDICATES QUANTITY OF PORTS.
GROUN	NDING CONDUCTORS SIZED PER NFPA 70.		208Y/120V, 3Ø, 4W PANELBOARD		2 = 2-POLE LV = LOW-VOLTAGE 3 = 3-WAY OS = OCCUPANCY SENSOR TYPE	(A#)	MUD RING TO ACCOMMODATE PASS THROUGH FO CABLING. MOUNT AT 18" AFF UNLESS OTHERWISE
FLEXIB			EQUIPMENT CABINET - TYPE AS NOTED		4 = 4-WAYOP = OCCUPANCY/PHOTOELECTRIC TYPEK = KEYEDWP = WEATHERPROOF	\	INDICATES NUMBER OF GANG SPACES. CEILING MOUNTED DATA DEVICE. COORDINATE WI
	JIT - CONCEALED IN OR UNDER FLOOR JIT - ROUTED UNDERGROUND	XX			LOWER CASE LETTER INDICATES SWITCHING GROUP MOUNT SWITCHES AT +48" AFF. TO TOP, UON. ANY COMBINATION OF SWITCH TYPES CAN BE USED (IE. 3K = 3.WAY KEYED SWITCH)		CEILING PLANS FOR MOUNTING HEIGHTS UNLESS (NUMBER INDICATES QUANTITY OF PORTS.
LV LOW-V0	OLTAGE WIRING (CLASS B)		PANELBOARD		SPECIAL PURPOSE RECEPTACLE TYPE AS SHOWN ON PLANS		WIRELESS ACCESS POINT LOCATION. PROVIDE CAI INDICATED WITH 10'-0" SERVICE LOOP IN ACCESSIE
					SINGLE SERVICE OR COMBINATION FLUSH MOUNTED FLOOR BOX. REFER TO FLOOR PLANS FOR DEVICES.		VIDEO PROJECTOR LOCATION. PROVIDE CABLING
	JIT OR CABLE VERTICAL UP JIT STUB - TERMINATE WITH BUSHING OR CAP IF UNDERGROUND		TRANSFER SWITCH (AUTO)		SINGLE SERVICE OR COMBINATION FLUSH FLOOR POKE THRU. REFER TO FLOOR PLANS FOR DEVICES.	VP .	INDICATED WITH 10"-0" SERVICE LOOP IN ACCESSIE
BREAK	(LINE				POWER/COMM POLE - FLOOR TO CEILING. SURFACE MOUNTED FLOOR BOX (PEDESTAL TYPE)		DATA DEVICE MOUNTED IN FLOOR BOX. NUMBER IN PORTS. FLOOR BOX PROVIDED BY ELECTRICAL CO
			AMPERES SHORT CIRCUIT AVAILABLE (SYMMETRICAL)		PUSH BUTTON		DATA DEVICE MOUNTED IN POKE-THRU. NUMBER II
L EXPAN	ISION FITTING		``´´´	φ	SIMPLEX RECEPTACLE NEMA 5-20R, +18" AFF UON		
	TRAY	#####	FEEDER TAG - REFER TO FEEDER SCHEDULE		NEMA 5-20R, +18" AFF UON		OF PORTS.
A-1.3.5					SWITCHED RECEPTACLE, NEMA 5-20R, +18" AFF UON		DATA DEVICE MOUNTED POWER/COMM POLE. NUM OF PORTS. POWER/COMM POLE PROVIDED BY FLE
BRANC	CH CIRCUIT NUMBERS				ISOLATED GROUND, NEMA 5-20R, +18" AFF UON		SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFO
HOME	RUN TO SOURCE OF SUPPLY		SYMBOLS LEGEND - GROUNDING		NEMA 5-20R W/ GROUND FAULT CIRCUIT INTERRUPTER, +18" AFF UON		
	JCTORS - CONNECTED	SYMBOL	DESCRIPTION		CONTROLLED, NEMA 5-20R, +18" AFF UON		1
	JCTORS - NOT CONNECTED	<u>+</u>	GROUND CONNECTION		NEMA 5-20R, ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.		
	ION BOX	 •- ı	GROUND ROD		NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER, ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND		
PB PULLBO	OX - SIZE AS INDICATED OR AS REQUIRED BY CODE		GROUND WELL		ARCHITECTURAL DRAWINGS. TAMPER RESISTANT, NEMA 5-20R WITH GROUND FAULT CIRCUIT		
HH HANDH	IOLE	+⊙	AIR TERMINAL		INTERRUPTER, ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.		
MH MANHC	DLE				NEMA 5-20R, CONNECTED TO EMERGENCY CIRCUIT, +18" AFF UON NEMA 5-20R ON EMERGENCY CIRCUIT MOUNTED ABOVE COUNTER. COORDINATE		
					WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS. CEILING-MOUNTED. NEMA 5-20R		
					NEMA 5-20R WITH USB CHARGER - (2) TYPE A USB PORTS		
					TAMPER RESISTANT, NEMA 5-20R WITH USB CHARGER - (2) TYPE A USB PORTS		
					l	J	

D - POWER SCRIPTION

-OFF-AUTOMATIC

M UNLESS NOTED OTHERWISE

MUM, UNLESS NOTED CTION AS REQUIRED BY NOTED

MOTOR REQUIREMENTS

SWITCH

MMUNICATIONS

T 18" AFF UNLESS OTHERWISE OF PORTS.

HROUGH FOR AUDIOVISUAL DTHERWISE NOTED. NUMBER

RDINATE WITH ARCHITECTURAL ITS UNLESS OTHERWISE NOTED.

PROVIDE CABLING IN THE QUANTITY IN ACCESSIBLE CEILING SPACE.

E CABLING IN THE QUANTITY N ACCESSIBLE CEILING SPACE.

X. NUMBER INDICATES QUANTITY OF ECTRICAL CONTRACTOR. SEE NAL INFORMATION.

U. NUMBER INDICATES QUANTITY ELECTRICAL CONTRACTOR. SEE NAL INFORMATION.

E. NUMBER INDICATES QUANTITY

M POLE. NUMBER INDICATES QUANTITY /IDED BY ELECTRICAL CONTRACTOR.)ITIONAL INFORMATION.





#	DESCRIPTION	DATE

ILANI CASINO PARKING STRUCTURE COWLITZ INDIAN TRIBE

1 COWLITZ WAY, RIDGEFIELD, WA 98642

100% CONSTRUCTION DOCUMENTS

Project: D52-24002 Contents:

ELECTRICAL LEGEND

Drawn:	BJ
Checked:	MN
Date:	12/06/2024







#	DESCRIPTION	DATE

ILANI CASINO PARKING STRUCTURE COWLITZ INDIAN TRIBE

1 COWLITZ WAY, RIDGEFIELD, WA 98642







SHEET NOTES

- A. NUMBER OF BENDS IN A SINGLE CONDUIT RUN SHALL NOT EXCEED THE EQUIVALENT OF 4 QUARTER BENDS BETWEEN PULL POINTS. INSTALL PULL BOXES AS REQUIRED BY NEC.
- B. ALL CONDUIT ROUTING AND STUB-UP LOCATIONS ARE SHOWN SCHEMATICALLY. CONTRACTOR SHALL FIELD VERIFY ALL WORK PRIOR TO ANY ROUGH-IN. COORDINATE ROUTING WITH NEW AND ANY EXISTING OBSTRUCTIONS. COORDINATE STUB-DOWN LOCATIONS WITH ACTUAL EQUIPMENT LOCATIONS IN FIELD.
- C. ALL ELECTRIC EQUIPMENT TO HAVE MANUFACTURER STANDARD FINISH AND COLORS

FLAG NOTES

- PROVIDE LEVEL 2 DUAL HEADED CHARGER/TYP. BASIS OF DESIGN IS BLINK SERIES 8 PLUS @16KW/EA WITH WIRELESS NETWORK OPTION. PROVIDE WALL MOUNT BRACKET ASSEMBLY. PROVIDE CABLE RACK MANAGEMENT SYSTEM. WALL MOUNT TO EXISTING CONCRETE WALLS PER MANUFACTURER INSTALLATION INSTRUCTIONS. ENSURE RFID CARD PAYMENT OPTION WITH OWNER.
- PROVIDE 1.5" EMT OVERHEAD IN EXPOSED PARKING AREA FROM PANEL '2P1' IN ELECTRICAL ROOM. SEE FEEDER SCHEDULE E6.00 FOR CONDUCTORS.
- PROVIDE 6" CONCRETE BOLLARD @ 42" HIGH. MOUNT IN FRONT OF EVC AND BEHIND CURB STOPS/TYP.
- 4. NOT USED.
- PROVIDE NEW FLOORMOUNT N1 PANELBOARD '2P1'. SEE E6.00 ELECTRICAL ONE LINE DIAGRAM FOR FEEDER SIZING, OCP, AND ADDITIONAL INFORMATION. SEE E2.01 PANEL SCHEDULE. PANELBOARD TO BE TOP FED. BRANCH CIRCUITS WILL FEED OUT OF THE TOP.
- PROVIDE STRIPING FOR DEDICATED EV PARKING STALLS: (TYP) OF 6. COORDINATE STRIPING DESIGN WITH OWNER.
- PROVIDE 4" CONCRETE EQUIPMENT PAD FOR '2P1' PER MANUFACTURER RECOMMEDATIONS.
- PROVIDE STEP DOWN TRANSFORMER AND 4" CONCRETE EQUIPMENT PAD PER MANUFACTURER RECOMMENDATION. SEE E6.00 ELECTRICAL ONE LINE DIAGRAM FOR SIZING.
- 9. PROVIDE CURB STOP. COORDINATE WITH OWNER FOR PRODUCT SELECTION. TYPICAL FOR DEDICATED EV PARKING SPOTS.



0 4' 8'





#	DESCRIPTION	DATE

ILANI CASINO PARKING STRUCTURE COWLITZ INDIAN TRIBE

1 COWLITZ WAY, RIDGEFIELD, WA 98642

100% CONSTRUCTION
DOCUMENTSProject:D52-24002Contents:D52-24002ELECTRICAL -
ENLARGED PLANDrawn:BJDrawn:BJChecked:MNDate:12/06/2024





ELECTRICAL - ENLARGED PLAN SOUTH

SHEET NOTES

- A. NUMBER OF BENDS IN A SINGLE CONDUIT RUN SHALL NOT EXCEED THE EQUIVALENT OF 4 QUARTER BENDS BETWEEN PULL POINTS. INSTALL PULL BOXES AS REQUIRED BY NEC.
- B. ALL CONDUIT ROUTING AND STUB-UP LOCATIONS ARE SHOWN SCHEMATICALLY. CONTRACTOR SHALL FIELD VERIFY ALL WORK PRIOR TO ANY ROUGH-IN. COORDINATE ROUTING WITH NEW AND ANY EXISTING OBSTRUCTIONS. COORDINATE STUB-DOWN LOCATIONS WITH ACTUAL EQUIPMENT LOCATIONS IN FIELD.
- C. ALL ELECTRIC EQUIPMENT TO HAVE MANUFACTURER STANDARD FINISH AND COLORS.

FLAG NOTES

- PROVIDE LEVEL 2 DUAL HEADED CHARGER/TYP. BASIS OF DESIGN IS BLINK SERIES 8 PLUS @16KW/EA WITH WIRELESS NETWORK OPTION. PROVIDE WALL MOUNT BRACKET ASSEMBLY. PROVIDE CABLE RACK MANAGEMENT SYSTEM. WALL MOUNT AS PER MANUFACTURER RECOMMENDATION. ENSURE RFID CARD PAYMENT OPTION WITH OWNER.
- PROVIDE 1.5" EMT OVERHEAD IN EXPOSED PARKING AREA FROM PANEL '2P1' IN ELECTRICAL ROOM. SEE FEEDER SCHEDULE E6.00 FOR CONDUCTORS.
- PROVIDE 6" CONCRETE BOLLARD @ 42" HIGH. MOUNT IN FRONT OF EVC STATION AND BEHIND CURB STOP/TYP.
- PROVIDE 1.5" EMT PIPE FROM PANEL '2P1' FOR FUTURE EVC LOCATION STUBBED AT EXPOSED CEILING ABOVE. PROVIDE 1/8" PULL TAPE IN EMPTY CONDUIT FROM PANEL '2P1'.
- PROVIDE STRIPING FOR DEDICATED EV STALLS/TYP OF (8). COORDINATE STRIPING DESIGN WITH OWNER.
- PROVIDE CURB STOP. COORDINATE WITH OWNER FOR PRODUCT SELECTION. TYPICAL FOR DEDICATED EV PARKING SPOTS.







#	DESCRIPTION	DATE

ILANI CASINO PARKING STRUCTURE COWLITZ INDIAN TRIBE

1 COWLITZ WAY, RIDGEFIELD, WA 98642











SHEET NOTES

0 2' 4'

- A. NUMBER OF BENDS IN A SINGLE CONDUIT RUN SHALL NOT EXCEED THE EQUIVALENT OF 4 QUARTER BENDS BETWEEN PULL POINTS. INSTALL PULL BOXES AS REQUIRED BY NEC.
- B. ALL CONDUIT ROUTING AND STUB-UP LOCATIONS ARE SHOWN SCHEMATICALLY. CONTRACTOR SHALL FIELD VERIFY ALL WORK PRIOR TO ANY ROUGH-IN. COORDINATE ROUTING WITH NEW AND ANY EXISTING OBSTRUCTIONS. COORDINATE STUB-DOWN LOCATIONS WITH ACTUAL EQUIPMENT LOCATIONS IN FIELD.

FLAG NOTES PROVIDE 1.5" EMT PIPE FROM PANEL '2P1' FOR FUTURE EVC LOCATION STUBBED AT EXPOSED CEILING ABOVE. PROVIDE 1/8" PULL TAPE IN EMPTY CONDUIT FROM PANEL '2P1'. SEE E0.02 ELECTRICAL - GARAGE PLAN OVERALL.





#	DESCRIPTION	DATE

ILANI CASINO PARKING STRUCTURE COWLITZ INDIAN TRIBE

1 COWLITZ WAY, RIDGEFIELD, WA 98642





ELECTRIC VEHICLE CHARGING STATION CONNECTION SCHEDULE															
SCHEDULE NOTES: 1) NEMA-3R FUSED DISCONNECT SWITCH. 2) PROVIDE MOTOR-RATED SWITCH, WITH WP COVER, AS DISCONNECT. 3) PROVIDE MOTOR-RATED SWITCH AS DISCONNECT. 4) EXHAUST FAN SHARES CIRCUIT WITH OTHER EXHAUST FANS. 5) WATER HEATER SHARES CIRCUIT WITH OTHER WATER HEATER.					ABBREVIATION: FLA: FULL LOAD AMPERES HP: HORSEPOWER KVA: KILOVOLT-AMPERES KW: KILOWATTS MCA: MINIMUM CIRCUIT AMPACITY MOCP: MAXIMUM OVERCURRENT PROTECTIVE DEVICE OFOI: OWNER-FURNISHED, OWNER-INSTALLED OFCI: OWNER-FURNISHED, CONTRACTOR-INSTALLED W: WATTS WP: WEATHERPROOF VA: VOLT-AMPERE						:VICE LLED	SCHEDULE GENERAL NOTES 1) DISCONNECTS ARE SHOWN AS FRAME RATING / FUSE SIZE. 2) PROVIDE DUCT SMOKE DETECTORS FOR ALL HVAC UNITS SUPPLYING 2,000 CFM OR MORE. COORDINATE WITH FIRE ALARM CONTRACTOR. 3) ALL 120V, 15A AND 20A RECEPTACLES AND/OR EQUIPMENT CIRCUITS SHALL BE GFCI PROTECTED PER NOTE 2, UNLESS NOTED OTERWISE/ E D			
NO.	EQUIPMENT DESCRIPTION	LOCATION	VA	HP	KW	KVA	MCA	MOCP	VOLTAGE	PHASE	CONDUIT SIZE	WIRE SIZE	DISC/FUSE/POLES	CIRCUIT NUMBER	NOTES
EVC-1	ELECTRIC VEHICLE CHARGING STATION	PARKING	16000	0	16.0	16.0	77.0	100 A	208	1	1.5"	3#1, 1#8 GND	INTEGRAL	2P1 - 1,3	WIRELESS NETWORK OPTION
EVC-2	ELECTRIC VEHICLE CHARGING STATION	PARKING	16000	0	16.0	16.0	77.0	100 A	208	1	1.5"	3#1, 1#8 GND	INTEGRAL	2P1 - 2,4	WIRELESS NETWORK OPTION
EVC-3	ELECTRIC VEHICLE CHARGING STATION	PARKING	16000	0	16.0	16.0	77.0	100 A	208	1	1.5"	3#1, 1#8 GND	INTEGRAL	2P1 - 5,7	WIRELESS NETWORK OPTION
EVC-4	ELECTRIC VEHICLE CHARGING STATION	PARKING	16000	0	16.0	16.0	77.0	100 A	208	1	1.5"	3#1, 1#8 GND	INTEGRAL	2P1 - 6,8	WIRELESS NETWORK OPTION
EVC-5	ELECTRIC VEHICLE CHARGING STATION	PARKING	16000	0	16.0	16.0	77.0	100 A	208	1	1.5"	3#1, 1#8 GND	INTEGRAL	2P1 - 9,11	WIRELESS NETWORK OPTION
EVC-6	ELECTRIC VEHICLE CHARGING STATION	PARKING	16000	0	16.0	16.0	77.0	100 A	208	1	1.5"	3#1, 1#8 GND	INTEGRAL	2P1 - 10,12	WIRELESS NETWORK OPTION
EVC-7	ELECTRIC VEHICLE CHARGING STATION	PARKING	16000	0	16.0	16.0	77.0	100 A	208	1	1.5"	3#1, 1#8 GND	INTEGRAL	2P1 - 13,15	WIRELESS NETWORK OPTION
EVC-8	ELECTRIC VEHICLE CHARGING STATION	PARKING	16000	0	16.0	16.0	77.0	100 A	208	1	1.5"	3#1, 1#8 GND	INTEGRAL	2P1 - 18,20	WIRELESS NETWORK OPTION
EVC-9	ELECTRIC VEHICLE CHARGING STATION	PARKING	16000	0	16.0	16.0	77.0	100 A	208	1	1.5"	3#1, 1#8 GND	INTEGRAL	2P1 - 17,19	WIRELESS NETWORK OPTION
EVC-10	ELECTRIC VEHICLE CHARGING STATION	PARKING	16000	0	16.0	16.0	77.0	100 A	208	1	1.5"	3#1, 1#8 GND	INTEGRAL	2P1 - 14,16	WIRELESS NETWORK OPTION

		Ν	E\	N P	ANE	EL 2	P1 \$	SCH		UL	E				
Location: <u>Elec Room</u> Grounding: <u>Equipment Ground Bus</u>	fed from: <u>MDP</u>							VO MOU S A.I.C. RA	LTAGE: <u>12</u> Type: <u>BC</u> Inting: <u>Su</u> Skirts: <u>NC</u> Ating: <u>65</u>	<u>D/208 N</u> D <u>LT-OI</u> RFAC DNE KAIC	<u>Wye 3-PH</u> <u>N</u> E	l <u>, 4-WI</u>	<u>RE</u>		
						80 M	0 A CB								
C K T	N O T	A M P	P O L		_		_			P O L	A M P	N O T			C K T
# ITEM	E	S	E	0000.1/4			B			E	S	E	5.00	ITEM	#
1 EVC-1		100 A	2	8000 VA	8000 VA	8000 \/A	8000 \/A			2	100 A		EVC-2		2
5 EV/C 2		100 A				0000 VA	0000 VA	8000 \/A	8000 \/A		 100 A				4
7		100 A	2	8000 \/A	8000 \/A			0000 VA	0000 VA	2	100 A		LV0-4		8
9 EVC-5		100 A	2	0000 VA	0000 VA	8000 VA	8000 VA			2	100 A		EVC-6		10
								8000 VA	8000 VA						12
13 EVC-7		100 A	2	8000 VA	8000 VA					2	100 A		EVC-10		14
15						8000 VA	8000 VA			-					16
17 EVC-9		100 A	2					8000 VA	8000 VA	2	100 A		EVC-8		18
19				8000 VA	8000 VA										20
21 SPACE			1			-				1			SPACE		22
23 SPACE			1							1			SPACE		24
25 SPACE			1							1			SPACE		26
27 SPACE			1							1			SPACE		28
29 SPACE			1							1			SPACE		30
	I	Total	Load:	6400	O VA	4800	0 VA	4800	0 VA				1		ł
		Total A	Amps:	53	3 A	40	0 A	40	0 A	_					
Load Classification		(Conne	cted Load		Demand Fac	tor	Estimate	ed Demand				Panel	Totals	
EV Charger			160	000 VA		125.00%		2000	AV 000						
													Total Conn. Load:	160000 VA	
													Total Est. Demand:	200000 VA	
													Total Conn. Current:	444 A	
												Total	Est. Demand Current:	555 A	
		_													
Notes:															

ELECTRICAL DESIGN SCHEDULE - CIRCUIT LOADING

PANEL NAME	CIRCUIT NUMBER	CURRENT (AMPS)	CB RATING	PERCENTAGE OF RATING
2P1	1,3	69 A	100 A	69.2%
2P1	2,4	69 A	100 A	69.2%
2P1	5,7	69 A	100 A	69.2%
2P1	6,8	69 A	100 A	69.2%
2P1	9,11	69 A	100 A	69.2%
2P1	10,12	69 A	100 A	69.2%
2P1	14,16	69 A	100 A	69.2%
2P1	17,19	69 A	100 A	69.2%
2P1	18,20	69 A	100 A	69.2%
2P1	13,15	69 A	100 A	69.2%







ILANI CASINO PARKING STRUCTURE COWLITZ INDIAN TRIBE

1 COWLITZ WAY, RIDGEFIELD, WA 98642





3-1	PHASE FEEL	DER SCHEDULI	E	
TORS #1 AV	COPPER CO	ONDUCTORS	ED ON 60 DEGREE	_
	TAE	BLES		
LLEL SETS	CONDUIT SIZE	CONDUCTOR SIZE	GROUND CONDUCTOR	CODI
1	3/4"	3#12	#12	15T
1	3/4"	3#12, #12N	#12	
1	3/4"	3#10	#10	30T
1	3/4"	3#10, #10N	#10	
1	1"	3#8	#10	45T
1	1"	3#8, #8N	#10	
1	1"	3#6	#10	75T
1	1"	3#6, #6N	#10	
1	1-1/4"	3#4	#10	112T
1	1-1/4"	3#4, #4N	#10	
1	1-1/4"	3#4	#8	150T
1	1-1/4"	3#4, #4N	#8	
1	1-1/4"	3#2	#8	225T
1	1-1/4"	3#2, #2N	#8	
1	1-1/4"	3#2	#8	300T
1	1-1/4"	3#2, #2N	#8	
1	1-1/2"	3#1	#8	500T
1	1-1/2"	3#1, #1N	#8	
1	1-1/2"	3#1	#6	
1	1-1/2"	3#1, #1N	#6	
1	2"	3#1/0	#6	
1	2"	3#1/0, #1/0N	#6	
1	2"	3#2/0	#6	
1	2"	3#2/0, #2/0N	#6	
1	2"	3#3/0	#6	

#6

CONDUCTORS

CODE PARALLE

30N

40

40N

50N

60

60N

70

70N

80N

90

125

150

150N

175

175N

200

200N

1 2" 3#3/0, #3/0N

COPPER CONDUCTORS						
	CONDUCTORS #1 A	WG OR SMALLE	R ARE SIZED B	ASED ON 60 DEGR	REE TABLES	
CODE	TRANSFORMER	PARALLEL SETS	CONDUIT SIZE	CONDUCTOR SIZE	GROUND CONDUCTOR	
15T	15KVA PRIMARY	1	3/4"	3#10	#10	
	15KVA SECONDARY	1	1"	3#6, #6N	#8	
30T	30KVA PRIMARY	1	1"	3#6	#10	
001	30KVA SECONDARY	1	1-1/2"	3#1, #1N	#6	
45T	45KVA PRIMARY	1	1-1/4"	3#4	#8	
-01	45KVA SECONDARY	1	2"	3#1/0, #1/0N	#6	
75T	75KVA PRIMARY	1	1-1/2"	3#1	#6	
701	75KVA SECONDARY	1	2-1/2"	3#250, #250N	#2	
112T	112.5KVA PRIMARY	1	2"	(3) #2/0	#6	
1121	112.5KVA SECONDARY	1	3"	3#500, #500N	#1/0	
150T	150KVA PRIMARY	1	2"	3#4/0	#4	
1001	150KVA SECONDARY	2	2-1/2"	3#250, #250N	#1/0	
225T	225KVA PRIMARY	1	3"	3#500	#2	
2201	225KVA SECONDARY	2	3"	3#500, #500N	#1/0	
300T	300KVA PRIMARY	2	2-1/2"	3#250	#2	
5001	300KVA SECONDARY	3	3"	3#400, #400N	#3/0	
500T	500KVA PRIMARY	3	3"	3#300	#1/0	
5001	500KVA SECONDARY	5	3"	3#400, #400N	#250	

	1-PHASE FEEDER SCHEDULE				
	COPPER CONDUCTORS				
CO	NDUCTORS #1 AW	VG OR SMALLE TAE	R ARE SIZED BAS BLES	ED ON 60 DEGREE	
CODE	PARALLEL SETS	CONDUIT SIZE	CONDUCTOR SIZE	GROUND CONDUCTOR	
20	1	3/4"	2#12	#12	
20N	1	3/4"	2#12, #12N	#12	
30	1	3/4"	2#10	#10	
30N	1	3/4"	2#10, #10N	#10	
40	1	1"	2#8	#10	
40N	1	1"	2#8, #8N	#10	
50	1	1"	2#6	#10	
50N	1	1"	2#6, #6N	#10	
60	1	1-1/4"	2#4	#10	
60N	1	1-1/4"	2#4, #4N	#10	
70	1	1-1/4"	2#4	#8	
70N	1	1-1/4"	2#4, #4N	#8	
80	1	1-1/4"	2#2	#8	
80N	1	1-1/4"	2#2, #2N	#8	
90	1	1-1/4"	2#2	#8	
90N	1	1-1/4"	2#2, #2N	#8	
100	1	1-1/2"	2#1	#8	
100N	1	1-1/2"	2#1, #1N	#8	
125	1	1-1/2"	2#1	#6	
125N	1	1-1/2"	2#1, #1N	#6	
150	1	2"	2#1/0	#6	
150N	1	2"	2#1/0, #1/0N	#6	
175	1	2"	2#2/0	#6	
175N	1	2"	2#2/0, #2/0N	#6	
200	1	2"	2#3/0	#6	
200N	1	2"	2#3/0, #3/0N	#6	

SERVICE LOAD SUMMARY (E) 'MDP'					
				LOAD	
Name: MDP		QUANTITY	AMPS	kVA	
PEAK POWER DEMAND		30 DAY READING	246	204	
DEMAND LOAD - NEC 220.87	x1.25		308	255	
ADDED LOADS		(10) LEVEL2 EVC	444	369	
DEMAND LOAD - NEC 625.41	x1.25		555	461	
TOTAL DEMAND AMPS @	277/480 3Ф	TOTAL SERVICE LOADS	863	716	
NEW AVAILABLE CAPACITY	277/480 3Ф	EXISTING 1200A MB	338	280	



SHEET NOTES

A. SEE E2.01 FOR NEW PANEL '2P1' SCHEDULE.B. SEE E1.01 & E1.02 ELECTRICAL ENLARGED PLANS.

FLAG NOTES

- 1. EXISTING EATON POW-R-LINE PRL4 PANELBOARD.
- EXISTING 1200A/3P MAIN BREAKER AND SERVICE DISCONNECT. SEE NEW SERVICE LOAD SUMMARY THIS SHEET.
- 3. PROVIDE NEW DISTRIBUTION BREAKER IN EXISTING SPACE.
- 4. ALL OTHER EXISTING TO REMAIN AS-IS.
- 5. PROVIDE LABELING PER DETAILS #1 & 2 ON E7.00.
- PROVIDE NEW PANELBOARD '2P1' WITH 100% RATED MAIN BREAKER. FLOOR MOUNT PANELBOARD ON THE SOUTH SIDE OF EXSITING ELECTRICAL ROOM ON 4" CONCRETE EQUIPMENT PAD.
- PROVIDE NEW 300KVA STEP DOWN TRANSFORMER 'T-2P1'. FLOOR MOUNT ON 4" CONCRETE EQUIPMENT PAD.





	-	-
#	DESCRIPTION	DATE

ILANI CASINO PARKING STRUCTURE COWLITZ INDIAN TRIBE

1 COWLITZ WAY, RIDGEFIELD, WA 98642

100% CONSTRUCTION
DOCUMENTSProject:D52-24002Contents:D52-24002Checked: D52-24002D52-24002D52-24002Contents:D52-24002D52-24002D52-24002Contents:DECTRICAL
DIAGRAMDrawn:Drawn:BJChecked:MNDate:12/06/2024





PANELS EXAMPLE: CONTENT AND CONFIGURATION REQUIRED

EXAMPLE: CONTENT AND CONFIGURATION REQUIRED

EQUIPMENT LABELING

1. MAIN DISTRIBUTION PANEL	
4MDP	PANEL DESIGNATION
480 VOLT SERVICE	VOLTAGE
FROM PAD MOUNTED TRANSFORMER	SERVICE FROM
LOCATED OUTSIDE BUILDING -	SERVICE LOCATION
2. SUB-DISTRIBUTION PANEL	
2SDP	PANEL DESIGNATION
277/480 VOLT-3 PHASE, 4 WIRE -	VOLTAGE
FROM 4MDP	SERVICE FROM
THIS ROOM	SERVICE LOCATION
3. PANELBOARD	
2K —	PANEL DESIGNATION
120/208V - 3 PHASE, 4 WIRE	VOLTAGE
FROM 2SDP	SERVICES FROM
IN MAIN ELECTRICAL ROOM	SERVICES LOCATION
4. TRANSFORMER	
Т2Н	TRANSFORMER DESIGNATION
300 KVA	TRANSFORMER RATING
PRI 480V - SEC 120/208V - 3 PHASE	
FROM PANEL 4H	SERVICE FROM
LOCATED IN MAIN ELECTRICAL ROOM	SERVICE LOCATION
SERVING PANEL 2H	SERVING PANEL
THIS ROOM	SERVING PANEL LOCATION

5. BUS DUCT	
BUS DUCT #3	
225 AMPS	
120/208 VOLT - 3 PHASE, 4 WIRE	
FROM PANEL 2H	
LOCATED IN MECH/STOR ROOM #137	
6. REMOTE RECEPTACLE BOX	
RRB1	
120/208V - 3 PHASE, 4 WIRE —	
FROM PANEL 2PD1	
LOCATED IN PARKING LOT	
7. PEDESTAL MOUNTED DISTRIBUTION PANEL	
2PD1	
120/208 VOLT-3 PHASE, 4 WIRE	
FROM PANEL 2P	
LOCATED IN MECH/STOR ROOM #137	
8. DISCONNECT SWITCH	
D.S. 8	
120/208V - 3 PHASE, 4 WIRE —	
200 AMPS	
FROM PANEL 2H	

2 ELECTRICAL EQUIPMENT IDENTIFICATION TAGS

 BUS DUCT DESIGNATION BUS DUCT RATING VOLTAGE SERVICE FROM SERVICE LOCATION
PANEL DESIGNATION VOLTAGE SERVICE FROM SERVICE LOCATION
 PANEL DESIGNATION VOLTAGE SERVICE FROM SERVICE LOCATION

DISCONNECT RATING SERVICES FROM

------- SERVICES LOCATION

#	DESCRIPTION	DATE

ILANI CASINO PARKING STRUCTURE COWLITZ INDIAN TRIBE

1 COWLITZ WAY, RIDGEFIELD, WA 98642

100% CONSTRUCTION DOCUMENTS

D52-24002 Project: Contents:

ELECTRICAL DETAILS

Drawn:	BJ
Checked:	MN
Date:	12/06/2024

