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			ELECTRI	СА	L ABBRE	/IA	TIONS LI	ST	
1P	1 POLE (2P, 3P, 4P, ETC.)	DCP	DOMESTIC WATER	HT	HEIGHT	NEMA.	NATIONAL ELECTRICAL	SINBD	SWITCHBOARD
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~	AND SHITCH	EWC	ELECTRIC WATER COULER	NWD	NEOWATTHOUR	PINL	PANEL DOUGLE	UIL	UTILITY
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SPECIFIC CODE NOTES

SUMMARY OF SCOPE OF WORK

Electrical Drawing Index

ELECTRICAL DEMOLITION PLAN ELECTRICAL POWER OVERALL FLOOR PLAN

VIEW ELECTRICAL SWITCHBOARD SCHEDULES

ELECTRICAL PANELBOARD SCHEDULES ELECTRICAL PANELBOARD SCHEDULES

ELECTRICAL SWITCHBOARD BULEVATIONS ELECTRICAL 1-LINE DIAGRAM ELECTRICAL 1-LINE DIAGRAM

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ELECTRICAL GENERAL DETAILS ELECTRICAL SERVICE ENTRANCE DETAILS SHEET 1 OF 2 ELECTRICAL SERVICE ENTRANCE DETAIL SHEET 2 OF 2 ELECTRICAL GROUNDING DETAILS SHEET 1 OF 2 ELECTRICAL GROUNDING BAR DETAILS SHEET 2 OF 2 ELECTRICAL GROUNDING BAR DETAILS

Sheet Name ABBREVIATIONS, SYMBOLS & NOTES

ELECTRICAL SITE DI AN

ELECTRICAL POWER AREA 1 ELECTRICAL POWER AREA 2 ELECTRICAL POWER AREA 3

ELECTRICAL POWER AREA ELECTRICAL POWER AREA 4 ELECTRICAL ISOMETRIC PROPOSED LAYOUT ELECTRICAL ISOMETRIC EXISTING TO REMAIN ELECTRICAL ISOMETRIC EXISTING TO REMOVE ELECTRICAL ISOMETRIC PROPOSED NEW CON

Sheet Number

E100

E500



ELECTRICAL DRAFT PLAN SET

NOT FOR CONSTRUCTION



18813 Algona WA Service Entrance_E-V19.1 FLE: DRAWN BY: DAE CHECKED BY: DAE PROJ. ND: 18813 DATE: DEC 27, 2019 E101 DRAWING NO:























Switchboard: RDC Location: Supply From: MSB-3 Mounting: Surface Enclosure: 1 with Gasket		Volts: 480 Phases: 3 Wires: 4	277 Wye		A.LC. Rating: Mains Type: Mains Rating: MCB Rating:	65000 : MLO : 600 A : 600 A	INDUSTRIAL
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are 2 (STEPDOWN XFMR PANEL F-1 C-1 Infeed Conveyor		1 3 3		60 A 60 A 60 A	0 VA 0 VA 20784 VA		RIO RANCHO, NM 87124 WWW.IEINM.COM
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bner Load Classification

Load Classification

AM

BM

Branch Panel: C1 Location: Supply From: MSB-3 Moves: Enclosure: 1	Vots: 480277 Wye Plasse: 3 Wifes: 4	ALC: Raing: 4000 Mains Type: MCB Mains Raing: 400 A MCB Heating: 400 A	Branch Panel: B1 Location: Supply Trans. MSB 3 Monoting: Suture Exclosure: 1	Volts: 480277 Viyo Plastest: 3 Wilves: 4	A.LC. Rating: 42000 Matins Type: MCB Mains Rating: 400 A MCB Rating: 400 A	E
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Guard post location requirements

GUARD POSTS

TYPICAL

10

Q. NOTE: Installation of guard posts must be completed before the primary cable is installed and energized.

TYPICAL 8 X 8 CONCRETE PMD

GROUNDING NOTES

- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING AS MAY BE NECESSARY OR REQUIRED TO MAKE A COMPLETE GROUNDING THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING AS MAY BE NECESSARY OR REQUIRED TO MAKE A COMPLETE GROUNDING SYSTEM AS REQUIRED BY THE LATEST NATIONAL ELECTRICAL CODE (NFF ATO) IN FORCE AND FM—STD-0196 (LIGHTNING AND SURGE PROTECTION, GROUNDING, BONDING, AND SHIELDING REQUIREMENTS FOR FACILITIES AND ELECTRONIC EQUIPMENT). THE RELIABILITY OF THE GROUNDING SYSTEM IS DEPENDENT ON CAREFUL, ROPORT INSTALLATION AND CHOICE OF MATERIALS. IMPORTE PRAFARATION OF SURFACES TO BE JOINED TO MAKE AN ELECTRICAL PATH, LOOSE JOINTS OR CORROSION CAN INTRODUCE IMPEDANCE THAT WILL SERIOUSLY IMPAIR THE ABLILTY OF THE GROUNDIN PATH TO PROTECT PERSONNEL. AND CALIMENT AND TO ABSORE TRANSIENTS THAT CAN CAUSE NOISE IN COMMUNICATIONS CIRCUITS. THE FOLLOWING FUNCTIONS ARE PARTICULARLY IMPORTANT TO ENSURE A RELIABLE GROUND SYSTEM
- C. FURNISH AND INSTALL GROUND RODS AS DETAILED HEREIN. GROUND RODS FOR AIRFIELD LIGHTING (RUNWAY LIGHTING, TAXIWAY FURNISH AND INSTALL GROUND RODS AS DETAILED HEREIN. GROUND RODS FOR ARFIELD LIGHTING (RUNWAY LIGHTING, TAXIWAY LIGHTING, TAXIGUIDANCE SIGNES A NAVAIDS THALLEB ENINNUM 34--- IN DAMETER BY 20-FIL LONG, UL-LISTED, COPPER CLAD GROUND RODS COUPLED TOGETHER) MIL MINIMUM COPPER COATING (TWO 34--M). DIAMETER BY 30-FIL LONG, UL-LISTED, COPPER CLAD GROUND RODS COUPLED TOGETHER) GROUND RODS FOR OTHER APPLICATIONS SHALL BE MINIMUM 34--- IN DIAMETER BY 30-FIL LONG, UL-LISTED, COPPER CLAD GROUND RODS SALL MINIMUM COPPER COATING, GROUND RODS SHALL BE SPACED OR AS DETAILED ON THE RESPECTIVE ANS, AND IN NO CASE SPACED LESS THAN ONE ROD LENGTH APART. ALL COMBLECTIONS TO BOUND RODS AND THE GROUND RODS SHALL BE MANDALED FOR OUND RODS MALL BE MINIMUM COPPER COATING THERM. WELD TYPE CONNECTORS, CADWELD BY PENTAR ERICO PRODUCTS, INC., THERMOWELD BY CONTINENTAL INDUSTRIES, INC., ULTRAWELD BY HARGER, OR APPROVED EDUAL EXOTHERM WELD CONDUCTIONS, SHALL BE INSTALLED IN CONFORMANCE WITH THE RESPECTIVE
- BY HARGER, OR APFROVED EQUAL EXOTHERMIC WELD CONNECTIONS SHALL BE INSTALLED IN CONFORMANCE WITH THE RESPECTIVE MANUFACTURES DIRECTIONS USING MOLDS AS REQUIRED FOOE EACH RESPECTIVE APPLICATION. BOLTED CONNECTIONS WILL PERMITIED AT GROUND RODS OR AT BURIED GROUNDING ELECTRODE CONDUCTORS. CONTRACTOR SHALL TEST EACH AND ELECTRODE CONDUCTORS INCOLED/GROUND RING WITH AN INSTRUMENT SPECIFICALLY DESIGNED FOR TESTING GROUND FIELD SYSTEMS. IF GROUND REDSTANCE EXCEEDS 25 OHMS, CONTACT THE PROJECT ENGINEER FOR PURTHER DIRECTION. COPIES OF GROUND ROT TEST RESULTS SHALL BE INSTRUMENT ENSIDED TO THE RESIDENT ENSIDERRESIDENT TECHNICAL AND THE PROJECT ENGINEER
- AND THE PROJECT ENGINEER. A ALL PRODUCTS ASSOCIATED WITH THE GROUNDING SYSTEM SHALL BE UL—LISTED AND LABELED. 5. ALL BOLTED OR MECHANICAL CONNECTIONS SHALL BE COATED WITH A CORROSION PREVENTATIVE COMPOUND BEFORE JOINING, SANCHEM INC. "NO-O--LID"-A-SPECIAL": COMPOUND, BURNDY PENTENCKE, OR APPRAVED EQUAL 6. METALLIC SURFACES TO BE JOINED SHALL BE PREPARED BY THE REMOVAL OF ALL NON—CONDUCTIVE MATERIAL PER 2017 NATIONAL ELECTRICAL CODE ARTICLE 20-12 ALL COPPER BUS BARS MUST BE CLEANED PRIOR TO MAKING CONNECTIONS TO REMOVE SURFACE
- OXIDATION
- OXIDATION. METALLIC RACEWAY FITTINGS SHALL BE MADE UP TIGHT TO PROVIDE A PERMANENT LOW IMPEDANCE PATH FOR ALL CIRCUITS. METAL CONDUIT TERNINATIONS IN ENCLOSURES SHALL BE BONDED TO THE ENCLOSURE WITH UL—LISTED FITTINGS SUITABLE FOR GROUNDING. PROVIDE GROUNDING BUSHINGS WITH BONDING JUMPERS FOR ALL METAL CONDUITS ENTERING SERVICE EQUIPMENT (METER BASE, CT CABINET, MAIN SERVICE BREAKER ENCLOSURE, ETC.). PROVIDE GROUNDING BUSHINGS WITH BONDING JUMPERS FOR ALL METAL CONDUITS LAR EBIL MANNE DEVICES THAT HE HOUSE HELD DE COMPETINGUIDES HILD ARE HUNDERGOUTES HELD ARE DE COMPETINGUIDES HELD ARE HUNDERGOUTES HELD ARE DE COMPETINGUIDES HELD ARE DE LESTER DE COMPETINGUIDES HELD ARE DE COMPETINGUIDES HELD ARE DE LESTER DE COMPETINGUIDES HELD ARE DE LESTER DE COMPETINGUIDES HELD ARE DE COMPETINGUIDES HELD ARE DE LESTER DE COMPETINGUIDES DE LESTER DE COMPETINGUIDES HELD ARE DE LESTER DE LESTER DE COMPETINGUIDES DE LESTER DE LESTER DE COMPETINGUIDES HELD ARE DE LESTER DE COMPETINGUIDES HELD ARE DE LESTER D
- HOLES FOR MOUNTING A BOLTED GROUND CONNECTOR. ALL BOLTED GROUND CONNECTORS SHALL BE BURNDY, THOMAS AND BEI IS, OR EQUAL TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUES IN UL STANDARD 4864 TO ASSURE PERMANENT AND EFFECTIVE EQUAL TIGHTEN CONVENTION TO COME DI TRANSPORTANTE DE LA COMPANIA DE LA
- RESPECTIVE GROUNDING SYSTEM. 10. PROVIDE ALL BOXES FOR PROPOSED OUTLETS, SWITCHES, CIRCUIT BREAKERS, ETC, WITH GROUNDING SCREWS, PROVIDE ALL PANELBOARD,
- SWETCHGEAR, ETC., ENGLOSURES WITH GROUNDING BARS WITH INDIVIDUAL SCREWS, LUGS, CLAMPS, ETC., FOR EACH OF THE GROUNDING CONDUCTORS THAT ENERS. THEIR RESPECTIVE ENCLOSURES. IN DIVIDUAL SCREWS, LUGS, CLAMPS, ETC., FOR EACH OF THE GROUNDING 11. EACH NEW FEEDER CIRCUIT AND/OR BRANCH CIRCUIT SHALL INCLUDE AN EQUIPMENT GROUND WIRE. METAL RACEWAY OR CONDUIT SHALL NOT MEET THIS
- 12. REQUIREMENT. THE EQUIPMENT GROUND WIRE FROM EQUIPMENT SHALL NOT BE SMALLER THAN ALLOWED BY 2017 NEC TABLE 250-122
- REQUIREMENT. THE EQUIPMENT SHOUND WIRE FROM EQUIPMENT SHALL BUT BE SMALLEN THAN ALLOWED BY 2011 NEC TABLE 200-122 MINIMUM SIZE CONDUCTORS OR GROUNDING CONDUCTORS SHALL BE ADUSTED TROPORTIONATELY ACCORDING TO CIRCULAR MIL AREA. ALL EQUIPMENT GROUNDING ESTALL BE COPPER, ETHER BARE OR INSULATED GREEN IN COLOR WHERE THE EQUIPMENT GROUNDING CONDUCTORS ARE INSULATED, THEY SHALL BE IDENTIFIED BY THE COLOR GREEN, AND SHALL BE THE SAME INSULATION TYPE AS THE PHASE CONDUCTORS.
- AS THE PHASE CONDUCTORS. 1. ALL EXTERIOR METAL CONDUIT, WHERE NOT ELECTRICALLY CONTINUOUS BECAUSE OF MANHOLES, HANDHOLES, NON-METALLIC JUNCTION BOXES, ETC. SHALL BE BONDED TO ALL OTHER METAL CONDUIT IN THE RESPECTIVE DUCT RUN AND AT EACH FND, WITH A COPPER-BONDING BOXES, ETC., SHALL BE BONDED TO ALL OTHEM METAL CONDUCTION THE RESPECTIVE DUCT KON, AND AT LEACH END, WITH A COPPEX-BONDING JUMPER SIZED IN CONFORMACE WITH 2017 NEO 250-102. WHERE METAL CONDUITS TERMINATE IN AN ENCLOSURE (SUCH AS A MOTOR CONTROL CENTER, SWITCHBOARD, ETC) WHERE THERE IS NOT ELECTRICAL CONTINUITY WITH THE CONDUCT AND THE RESPECTIVE ENCLOSURE PROVIDE A BONDING JUMPER FROM THE RESPECTIVE ENCLOSURE GROUND BUS TO THE CONDUIT SIZED PER 2017 NEC 250-102 14. IT IS THE INTENT OF THIS SPECIFICATION THAT ALL MOTOR FRAMES, PUMP BASES ELECTRICAL EQUIPMENT ENCLOSURES, PANEL HOUSINGS,
- IT IS THE INTENT OF THIS SPECIFICATION THAT ALL MOTOR FRAMES, PUMP BASES ELECTRICAL EQUIPMENT PECLOSURES, PANEL HOUSINGS, CONDUITS, BOXES, ETC. HAVE A CONTINUOUS COPPER WIRE GROUND CONNECTION AND SHALL BE POSITIVELY BONDED TO THE RESPECTIVE GROUNDING SYSTEM. CONDUIT CONNECTORS <u>WILL NOT</u> BE CONSIDERED AS ADEQUATE GROUNDING. REVOIDE A POSITIVE GROUND BOND FOR ALL OITLET BOXES, ELECTRICAL EQUIPMENT ENCLOSURES, GROUNDING RECEPTACLES, TOGGLE SWITCHES, ETC. INSTALL A GROUNDING CONDUCTOR IN ALL WIRE AND CABLE RACEWAYS. GROUND CONDUCTOR TO HAVE 800–VOLT INSULATION AND BE IDENTIFIED BY A CONTINUOUS GREEN COLOR COATING. THEY SHALL BE USED SOLELY FOR GROUNDING PURPOSES AND BE ENTIRELY SEPARATE FROM WHITE GROUNDED KEUTRAL CONDUCTOR TO SERVICE GROUND.
- GROUNDING AND NEUTRAL SYSTEMS ARE TO BE CONNECTED TO SERVICE GROUND. 16. EACH AND ALL GROUNDED CASED AND METAL PARTA SASCIATED WITH ELECTRICAL EQUIPMENT SHALL BE TESTED FOR CONTINUITY OF CONNECTION WITH GROUND BUS SYSTEM BY CONTRACTOR IN PRESENCE OF OWNER'S REPRESENTATIVE. 17. ALL CONNECTIONS BETWEEN THE DIFFERENT TYPES OF GROUNDING CONDUCTORS AND CERRADE SHALL BE MADE USING BOLTED GROUND CONNECTORS. GROUND LUGS SHALL BE PROVIDED IN ALL ENCLOSURES AND WIRING TERMINATION JUNCTION BOXES. EQUIPMENT GROUNDIS AND GROUNDING CONDUCTOR SHALL BE CONNECTED TO THESE GROUND LUGS. FOR GROUND CONNECTORNS TO ENCLOSURES, CASES AND FRAMES OF ELECTRICAL EQUIPMENT NOT SUPPLIED WITH GROUND LUGS. FOR GROUND CONNECTIONS TO ENCLOSURES, CASES AND BOLTED GROUND CONNECTOR ALL DOLT GROUND CONNECTORS SHALL BE USING THACTOR SHALL DATE. 18. BOND ALL NONCURRENT CARRYING PARTS OF METAL EQUIPMENT TO GROUND SYSTEM. 19. NOTALL GROUND GROUND CONSTORS, LIGHTING ROTORS TION DOWN CONDUCTORS AND SEPARATE GROUND CONDUCTORS IN SCHEDULE 40 OR SCHEDULE 00 FVC CONDULT OR S LIGHTING ROTORS ON DOWN CONDUCTORS AND SEPARATE GROUND CONDUCTORS IN SCHEDULE 40 OR SCHEDULE 00 FVC CONDULT OR SUPPORED WHERE ACCEPTABLE TO LOCAL CODES WHERE GROUNDERS AND SEPARATE GROUND CONDUCTORS IN SCHEDULE 40 OR SCHEDULE 00 FVC CONDULT OR SERVICES ON HERE ACCEPTABLE TO LOCAL CODES AND SEPARATE GROUND CONDUCTORS IN SCHEDULE 40 OR SCHEDULE 00 FVC CONDULT OR SERVICES ON HERE ACCEPTABLE TO LOCAL CODES AND SEPARATE GROUND CONDUCTORS IN SCHEDULE 40 OR SCHEDULE 00 FVC CONDULT OR SERVICES ON DEPARATE GROUND CONDUCTORS ON DEPARATE GROUND CONDUCTORS IN SCHEDULE 40 OR SCHEDULE 00 FVC CONDULT OR SERVICES ON DEPARATE GROUND CONDUCTORS ON DEPARATE GROUNDING DELECTRODE CONDUCTORS ALL BROTECTION DOWN CONDUCTORS AND SEPARATE GROUNDING DELECTRODE CONDUCTORS SCHEDULE 00 FVC CONDULT OR SERVICES ON DEPARATE GROUNDING SELECTRODE CONDUCTORS SCHEDULE 00 FVC CONDUCTORS SE INDIVIDUAL GROUND CONDUCTORS ARD SEPARATE ON DO NOT CONDUCTORS SCHED SCHEDULE DO TO DO TO

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DATE REVISION

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