

PLUMBING MATERIAL LIST PLUMBING MATERIAL LIST PLUMBING MATERIAL LIST DESCRIPTION

MANY FLOW PREVENTION - DURING FORCE SHOULD OF SHOULD HAVE A MANUFACTURER AND MODEL TAG NAME DESCRIPTION
P-707 EMERGENCY SHOWER & EYE/FACE WASH - COMBINATION UNIT, FREESTANDING, FLOOR MOUNTED WITH BACK INLET, STAINLESS STEEL MANUFACTURER AND MODEL OWER HEAD, BRASSBRONZE STAY OPEN BALL VALVE, STAINLESS STEELALLIMINUM PULL ROD, STAINLESS STEEL BOWL, PLASTIC SPRAY ADS WITH CAPS AND RETAINING CHANISISTRAPS, BRASS SUPPLY ARMS, BRASSBRONZE STAY OPEN BALL VALVE, METAL FLAD, NTEGRAN W CONTROL FITTINGS, STAINLESS STEEL SUPPLY PIPING AND FITTINGS, UNIVERSAL IDENTIFICATION SIGN, ANSI 25SE 1-2004 COMPLIANT * INLET/OUTLET CONNECTIONS WITH A FLOW OF 23 GPM AT 10 PSI PRESSURE LOSS MAXIMUN OPERATIONAL FEATURES: +/- 2 DEGREE F WATER TEMPERATURE CONTROL AT SOUTH OF USE 5 FEET DOWNSTREAM DURING DEMAND, AND AT THE VALVE DURING ZERO SYSTEM DEMAND. AUTOMATIC SHAUTOFF OF HOT WATER UPON COLD WATER SUPPLY FAILURE AND ALSO AT THE EVENT OF POWER FAILURE. UNT WITHIN 60° OF FINISHED FLOOR. PROVIDE AND INSTALL BRONZE OR EPOXY COATED STRAINER UPSTREAM OF EACH UNIT AND WITHOUGH VALVE UPSTREAM OF EACH STRAINER. FLOW PRESSURE DROP CURVES SHALL BE SUBMITTED. CTRICAL REQUIREMENTS - 120 VOLT, 0.11 AMP AUDITORIA VICE, MENTENDO E SALO TRIGUERE I VICENCE PROSSESSE CONTURNES SALO. ES BERRI I 112 C. ES DOCUMENTO DE LA CONTURNA DE NINECTIMITY: BACNET MOTE MODELIN MINIMUM FLOW RATE OF SHOWER SHALL BE 20 GPM AT 30 PSI. MINIMUM FLOW RATE OF EYEIFACE WASH SHALL BE 3.0 GPM AT 30 PSI. ACTIVATION TIME SHALL BE 1 SECOND OR LESS. BRASS/BRONZE PIPINO, FITTINGS, AND VALVES SHALL BE CHROME-PLATED OR CHEMICAL-RESIDATH POWDER COATED. PROGRAMMABLE FEATURES: SET POINT RANGE, THERMAL DISINFECTION MODE, FIRST LEVEL HILLOW TEMPERATURE ALARM DISPLAY, AND TEMPERATURE ERROR LEVEL FOR SAFETY SHUTDOWN. MOUNT SHOWER HEAD BETWEEN 82°-96" AND PULL ROD AT MAXIMUM 69" ABOVE FINISH FLOOR. EYEIFACE WASH OUTLET HEADS SHALL BE 33-45" ABOVE FINISH FLOOR. NT WITHIN 60° OF FINISHED FLOOR. ROUTE DRAIN PIPE FROM AIR GAP FITTING TO FLOOR DRAIN. PROVIDE AND INSTALL BRONZE OR YY COATED STRAINER UPSTREAM OF EACH UNIT AND ADDITIONAL VALVE UPSTREAM OF EACH STRAINER. FLOW PRESSURE DROP CURI FECTRICAL CONNECTIONS - 120-230 VAC CORD AND PLUG TILL LISTED PROVIDE FIELD ADJUSTMENT BY FACTORY AUTHORIZED REPRESENTATIVE. UNIT SHALL BE ASSE 1017 LISTED AND COMPLY WITH FEDERAL ACT 8,3874. SHALL BE SUBMITTED. BACK FLOW PREVENTER - REDUCED PRESSURE ZONE, ENTIRELY LEAD FREE STAINLESS STEEL CONSTRUCTION, SIZE SAME AS PIPE, STAINLESS STEEL INTERNAL PARTS, STAINLESS STEEL SPRINGS, DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN SPRING-LOADED CHECK ATER CLOSET - WALL HUNG, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, HIGH EFFICIENCY RATED FOR 1.28 GPF, ELONGATEI JWL, 1-1/2° TOP SPUD. NDE ELECTRIC ALARM UNIT INCLUDING VISUAL AND AUDIBLE ALARM. FOR COMMUNICATION TO DDC SYSTEM, PROVIDE WATERPROOF VISWITCH: SHALL BE ACTIVATED BY EITHER FLOW TO EYEWASH OR SHOWER. ELECTRICAL REQUIREMENTS - 120 VOLT, 0.11 AMP MUMIT WITHIN 6YOF PRISENDER DOOR. FLOW PRESSURED DROP CURFES SHALL BE SUBMITTED.

CHERCH FEET SYSTEM. PRINTED CHERCH STEEL SEND BOOKETED SCOULD BUSINEST FEET SOUTH FAILTY RECURDANT METERNIC PLU
PRESSURE CLAUGE FER PAIN FRESSISIES METER VALVE FER PAIN FRESSISSIES VALVE. CLAURATION COLUMN, SUCTION STRANER,
SEVEN ISOLATION JALVES PRIPART OF ION INLET FREADER PROVIDENSISTALES OF PLUMBING CONTRACTOR. JINIMUM FLOW RATE OF 3.0 GPM AT 30 PSI. ACTIVATION TIME SHALL BE 1 SECOND OR LESS. BRASS/BRONZE PIPING, FITTINGS, AND VALVES HALL BE CHROME-PLATED OR CHEMICAL-RESISTANT POWDER COATED. SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTAINING HINGE, STAINLESS S PLATED STEEL POSTS AND NUTS. YOUNT WITH OUTLET HEADS AT 42" ABOVE FINISH FLOOR. COUPLED WITH 60 GALLON FEED TANK WITH LEVEL INDICATION AND INTEGRAL DUAL CONTAINMENT, HDPE BASE TANK MOUNTED OFF SKID. CONTRACTOR OPTION: COMBINATION WATER CLOSET/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, SLOAN, OR ZU HOSE BIBB - FREEZELESS WALL HYDRANT, BRASS VALVE BODY AND SEAT, STANDARD FINISH, NON-FERROUS METAL STEM, AU DRANNIN, VACUUM BREAKER, 34° MALE HOSE THREAD, WALL CLAMP, CONCEALED IN FLUSH MOUNTED LOCKABLE WALL BOX, ASSE 1191 OR 10S LISTED AND APPROVED. DESSORIES - WATER CLOSET SUPPORT CARRIER RATED FOR 500 LBS. MOUNT WATER CLOSET WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF SEAT SHALL BE AT 16"-17" ABOVE FINISHED FLOO SACH MOUNTAIN SERON THIS MANUFACTURER, YOURS HANGE SHALL BE LOCATED ON THE WIDE SEG THE TOP TO THE TOTAL THAT PYANTYTAT (LYMYH) EOO LBS CHEMICAL FEED SYSTEM. PAINTED CARBON STEEL SKID MOUNTED ANTI-SCALANT FEED SYSTEM, FLALLY REDUNDANT METERING PUMPS.
PRESSURE GLUGG FREP FUMP, PRESSURE RELIEF VIALVE PER PUMP, BACKPRESSURE VALVE, CALIBRATION COLLIMI, SUCTION STRAINER
SEVEN ISOLATION VALVES. PIPNO TO RO INLET HEADER PROVIDEDINISTALLED BY PUMBING CONTRACTOR. FATER CLOSET - ACCESSIBLE, WALL HUNG, FLUSH VALVE TYPE, WHITE VITREOUS CHINA, SIPHON JET, HIGH EFFICIENCY RATED FOR 1.28 GF LONGATED BOWL 1-1/2" TOP SPUID HICAGO FALICET (293), ACORN (812 8S BRASS (B-0736), MIFAB (MHY-90 OUPLED WITH 80 GALLON FEED TANK WITH LEVEL INDICATION AND INTEGRAL DUAL CONTAINMENT, HDPE BASE TANK MOUNTED OFF SKID. SEF-80-P OR EQUAL. FLUSH VALIVE - EXPOSED, MANUAL OPERATION, 1.28 GALLONS PER FLUSH, 11-1/2" ROUGH-IN, CHROME PLATED, 1" I.P.S. SCREWDRIVER STOP-CHECK VALIVE WITH VANDAL RESISTANT CAP, HIGH BRACK PRESSURE VACULUM BREAKER, SPULD COUPLING AND FLANGE, WALL FLANGE WITH SET SCREWN, MON-HOLD OPEN HANGLE, AD MA 4X FRP CONTROL BOX. 120V/1PH. SEAT - WHITE, EXTRA HEAVY, OPEN FRONT, INJECTION MOLDED SOLID ANTI-MICROBIAL PLASTIC, SELF-SUSTA PLATED STEEL POSTS AND NUTS. PROVIDE WITH ASSE 1052 OR 1057 APPROVED, FIELD TESTABLE, DOUBLE CHECK VALVE BACK FLOY CONNECTION AT HYDRANT OUTLET. IDARD (6047.121), KOHLER 517-CP), TOTO (TMT1LN32#CP NTRACTOR OPTION: COMBINATION WATER CLOSET/FLUSH VALVE PACKAGED SYSTEM BY AMERICAN STANDARD, KOHLER, S CESSORIES WATER OLOGET SLIBBORT CARRIED DATED FOR EW LDS 3000), JOSAM (21500), WATTS (RD-30 WIFAB (R1200), SUN (RD4000), FROFT MOUNT WATER CLOSET WITH CARRIER BOLTED SECURELY TO FLOOR. TOP OF SEAT SHALL BE AT 17"-19" ABOVE FINISHED FLOOR (VERIFY EXACT MOUNTING HEIGHT WITH MANUFACTURER). FLUSH HANDLE SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET STALL AND BE AT ECTRICAL REQUIREMENTS - 120V. 1 PHASE (HARD-WIR) IRCULATING PUMP - VERTICAL MULTISTAGE CENTRIFUGAL, 316 STAINLESS STEEL, BRONZE BEARINGS, MECHANICAL SEAL, OIL LUBRICAT LEXIBLE COUPLING, NON-WETTED STEEL SHAFT, OPEN DRIP-PROOF NON OVERLOADING MOTOR WITH INTERNAL THERMAL OVERLOAD ECTION, FLANGED CONNECTIONS, RATED FOR 125 PSIG AT 225°F, UL LIS .AVATURY -GERBER (12-658), KOHLER (K-2030), ZURN (Z5848) GPM @ 150 FEET OF HEAD. MOTOR SHALL BE 7.5 HP OPERATING AT 3,600 RPM KURITA (USHR-100-2) TRIDGE FILTER HOUSING - SHI AXIMUM FLOW TO BE 0.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND AS OMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AS REQUIRED. EMBRANE HOUSINGS - PENTAIR DELINE OR EQUAL С MARD (1700-LF), LAWLER IM-1070T), ACORN CONTROLS 70), APOLLO (340LF), POWERS E480), SLOAN (MX-135-A), SYM-10CK), WILKINS (ZW3870XLT) MBRANE ELEMENTS - TORAY TRICAL DECLIDEMENTS 460V 2 DUAGE (MADD WIDE MEMBRANE HOUSINGS: FRP, 8" DIAMETER, 4-ELEMENT LONG, SMOOTHED EXTERIOR, FA 300 PSI RATED PRESSURE, 4:2 ARRAY FOR 6 TOTAL HOUSINGS. PUMP - B&G (ECOCIRC XL SERIES), GRUNDFOS (MAGNA SERIES), WILO H PRESSURE PUMP: VERTICAL MULTISTAGE CENTRIFUGAL, CONSTRUCTED OF TYPE 304L STAINLESS STEEL INTERNALS AND CAST IRON ME, 25 HP, VFD WITH FUSED DISCONNECT. JLATION KIT - TRUEBRO GPM @ 27 FEET OF HEAD. MOTOR SHALL BE 1/4 HP. ELECTRICAL REQUIREMENTS - 120V. I PHASE (PARD.WIRE)
ELECTRICAL REQUIRE IT SHALL BE ASSE 1070 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT 8.3874. NSMITTERS AT FEED, RECYCLE, AND REJECT. CONDUCTIVITY SENSORS AT INLET AND PERMEATE. PH SEN SOR AT INLET. ORP SENSOR AT INLET. CONTROL VALVES AT INLET. REJECT FLISH, AND REJECT CONTROL BEACONMEDAES, OHIO MEDICAL, PATTON'S MEDICAL, TRI-TECH, AMIX ISLILATION KIT., PREJMANUFACTURED FOR PJTRAP, STOP VALVES AND SUPPLY LINES CESSORIES - QUARTER-TURN 3/8" CHROME PLATED HEAVY BRASS ANGLE SUPPLY STOPS, CHROME PLATED SOFT COPPER SUPPLY LINES. EMA 4, UL 508A LISTED CONTROL ENCLOSURE. DUNT LAVATORY WITH SUPPORT CARRIER BOLTED SECURELY TO FLOOR. TOP OF RIM SHALL BE AT 31" ABOVE FLOOR. ARMAFLEX WITH TO PLIRE WATER STORAGE TANK - VERTICAL CONE ROTTOM NATURAL COLOR HOLPS CONSTRUCTION MANWAY (*) INLETICUTE ET URITA (ICT) OR FOLIA () 2 BALL ORD FOR VALVE 3) 0-100 PSI PRESSURE GAUGE BETWEEN THE INLET AND SHUTOFF VALVE. 3) DECONIDE DELICE VALVE GET AT 40% ANDMAI GVOTEM OREDATING DECONIDE 5 GALLON CAPACITY, 30 DEGREE CONE, 48" DIAMETER x 54" HIGH MOP BASIN - PRECAST TERRAZZO, 24'x24'x12', STAINLESS STEEL INTEGRAL DRAIN WITH REMOVABLE STRAINER, 3' OUTLET, CONTINUOUS STAINLESS STEEL CAP ON ALL EDGES. MOP BASIN - FIAT (TSB), ACORN (TSH), CREATIVE INDUSTRIES (MC), WILLIAMS CHECK VALVE FOR INSTALLATION IN MAIN LINE.
CHECK VALVE FOR INSTALLATION IN MEMBRISHING CONNECTION LINE. ECTRONIC | EVEL TRANSMITTER 1991/1994 BOWER CONNECTION RERGENCY LINE CHECK VALVE SHALL BE INSTALLED BETWEEN THE EMERGENCY LINE SHUTOFF VALVE AND THE EMERGENCY LINE TRIM - EXPOSED TWO HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLES, 1/4 TURN CERAN DISC CARTRIDGE, 3/4" HOSE THREAD SPOUT WITH ASSE 1053 RATED INTEGRAL VACUUM BREAKER, WALL BRACE, PAIL HOOK, CHECK STOP DIAMETER MANWAY ON TANKS 250 GALLONS AND LARGER SKIDDED STEEL BASE 150 PSIG WO IVANIONN 1 T. PURE WATER STORAGE TANK - VERTICAL CONE BOTTOM, NATURAL COLOR HDLPE CONSTRUCTION, MANWAY, [*] FAUCETS (897-CP), MOEN (8124), SPEAKMAN (SC-5812), SYMMONS S-2490), ZURN (Z841M1-XL) ENT RELIEF VALVE TO THE OUTDOORS. CESSORIES - MOP HANGER, HOSE AND HOSE BRACKET, TRAP TWO 24" WIDE STAINLESS STEEL WALL GUARDS NOT TREET YOUNG OF THE COLUMNISM THE STATE OF THE STATE OF THE STATE OF THE SERVICE OF THE STATE 236 GALLON CARACITY 30 DEGREE COME 48° DIAMETER V 64° HIGH UM BREAKER - WATTS (8A), O ECTRONIC LEVEL TRANSMITTER 120V/1PH POWER CONNECTION IOP BASIN - PRECAST TERRAZZO, 36"x24"x12", STAINLESS STEEL INTEGRAL DRAIN WITH REMOVABLE STRAINER, 3" OU TAINLESS STEEL CAP ON ALL EDGES. OP BASIN - FIAT (TSB), ACORN (T REATIVE INDUSTRIES (MC), WILLI WINIMUM TANK VOLUME TO BE 23 GALLONS WINIMUM ACCEPTING VOLUME TO BE 11.2 GALLONS TIRM - EXPOSED TWO HANDLE MIXING FALCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, SINGLE WING HANDLE DISC CARTRIDGE, 3/4 HOSE TREEAD SPOUT WITH ASSE 1003 BATED INTEGRAL VACUUM BREAKER, WALL BRACE, PALH IAM PEC (PACE), VALVES TO PREVENT THEFMAL (ROSSOVER: PALICET SHALL COMPLY VINITH FEDERAL ACT, 3,3974. STEEL REACTION CHAMBER. TWO 9,000 HOUR SINGLE END AMALGAM LPHO LAMPS IN QUARTZ SLEEVES, UV INTE NEMA 4X STAINLESS STEEL CONTROLS ENCLOSURE, REMOTE START/STOP AND HOA. RIM - DELTA (28C2383), AMERICA TANK SHALL HAVE A WORKING TEMPERATURE OF 200'F AND A WORKING PRESSURE OF 150 PSIG. FACTORY PRE-CHARGED FOR SHI FIELD CHARGE TANK TO 78 PSIG. UCETS (897-CP), MOEN (8124), EAKMAN (SC-5812), SYMMONS '490), ZURN (Z841M1-XL) ACCESSORIES - MOP HANGER, HOSE AND HOSE BRACKET, TRAP (ONE 24" WIDE STAINLESS STEEL WALL GUARD AND ONE 36" V STEEL WALL GUARD. WALL CLEANOUT - TEE, CAST IRON ACCESS BODY, GAS AND WATERTIGHT THREADED PLUG, ROUND STAINLESS STEEL ACCESS CLEATERING MACHINE SCREW. RN (Z-1446), SMITH (4530), WADE 60), JOSAM (58910), WATTS (CO-46 RTRIDGE FILTER HOUSING - HIGH PURITY, 12" ROUND X 30" LONG SWING BOLT CLOSURE, TYPE 316L STAINLESS STEEL ELECT \$1.05URE WITH EPR GASKET, 150 PSI RATED PRESSURE, 90 GPM CAPACITY. ACUUM BREAKER - WATTS (8A), OR PPROVED EQUAL INK - ELKAY (LRILK99), JUST (SLUB-9 WATER HEALEN - SEM-MISLIAMIANEQUIS, SLEWIN LO WAILLN SOUGHARDE WATER TEMPERATURE A 15Y OF SETTIONT, WATERSOOL IMPEGRAL DEAD ANTICIPATOR SHALL BE PROVIDED TO AMARTIAN DISCHARDE WATER TEMPERATURE A 15Y OF SETTIONT, WATERSOOL IN THE CONTROL WATER OF THE PROVIDED BY THE PRO MBRANE CARTRIDGES - ONE SET OF POLYETHERSULFONE MEMBRANE CARTRIDGES WITH POLYPROPYLENE SUPPORTS. 0.2 MICRO SINK - SELF-RIMMING SINGLE COMPARTMENT WITH FAUCET DECK, 18 GAUGE TYPE 304 STAINLESS STEEL, 24° (SIDE-TO-SIDE) x 19° (FRONT-TO-BACK) OVERALL SIZE. 20° x 16° x 7-112° DEEP BOWL, COMPLETELY UNDERCOATED, 3-12° DIAMETER DRAIN OUTLET LOCATION CENTERED IN BOWL, REMOVALEL TYPE 304 STAINESS STEEL BASKET STRAINER WITH REOPERSE STOPPER. FLOOR DRAIN - 14 GAUGE TYPE 304 STAINLESS STEEL RECEPTOR, 6" ROUND, 6" DEEP, 3" BOTTOM OUTLET, FLASHING COLLAR, SU OOR DRAIN - ZURN (Z-415). SMITH IK TRIM - DELTA (9178-DS INK TRIM - SINGLE HANDLE MIXING FAUCET, BRASS CONSTRUCTION, CHROME-PLATED FINISH, NOMINAL 10" HIGH-RISE SWING SPOUT CERAMIC CARTRIDGE, NOMINAL 8" REACH, PULL DOWN SPRAY HOSE WITH AERATOR STREAM / SPRAY SELECTOR, LEVER HANDLE. TRAP SEAL - 3", PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS. RECLOSES AND SEAL SWHEN OPM OF WATER FROM 50'F TO 140'F WITH 3 400 I BSHOLIR STEAM AT 15 PSIC MAXIMUM FLOW TO BE 2.2 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASMEJANSI STANDARD A112.18.1M. FAUCET SHAL COMPLY WITH FEDERAL ACT S.3874. PROVIDE RESTRICTIVE DEVICE AND ESCUTCHEON PLATE AS REQUIRED. ECTRICAL REQUIREMENTS - 120V. 5 AMPS ULATION KIT - MCGUIRE ROWRAP), JUST (J-ADA), F FLOOR DRAIN - 14 GAUGE TYPE 304 STAINLESS STEEL RECEPTOR, 6" ROUND, 6" DEEP, 4" BOTTOM OUTLET, FLASHING COLLAR, SUR IMPAIRBRANE CLAMP. SSORIES - 1-1/2" 17 GAUGE CHROME-PLATED BRASS TAILPIECE AND P-TRAP, QUARTER-TURN BALL VALVE TYPE 3/8" CHROME-PLATED IS ANGLE SUPPLIES WITH STOPS. CHROME-PLATED SOFT COPPER SUPPLY LINES. FLOOR DRAIN - ZURN (Z-550), SMITH (2110), WADE (1310), JOSAM (32100). WATTS (FD-300), MIFAB (F1320), SUN INTEGRAL DEMAND ANTICIPATOR SHALL BE PROVIDED TO MAINTAIN DISCHARGE WATER TEMPERATURE AT 5°F OF SETPOINT, NON-FERROU MATERIALS ON DOMESTIC WATER SIDE, ASME 150 PSI SHELL AND 150 PSI COPPER COLLS, RESILIENT INSULATION, INLINE CIRCULATOR AS REQUIRED, ELECTRONIC CONTROL VALVE, ASMICICA TAP RELIEF WALVE, UNION, ORIFICE, DOUBLE SOLEMICH TEMPERATURE LIMIT SAFETY TERSON-KELLEY (PK), ARM S-DW SERIES), THERMAFLO -750V), PVI (COBREX JLATION KIT - PRE-MANUFACTURED FOR P-TRAP, STOP VALVES, AND SUPPLY LINES TRAP SEAL - 4", PLASTIC HOUSING WITH FLEXIBLE DIAPHRAGM, SEALING GASKETS, RECLOSES AND SEALS WHE TRIC WATER COOLER - ELKAY ELECTRIC WATER COOLER - WALL HUNG. 18 GALIGE STAINLESS STEEL CABINET AND NON-SPLASH BASIN WITH STAINLESS STEEL FINISH S8), OASIS (PBAC), HALSEY-T C-8FS-Q), MURDOCK (A111) TOM OF WATER EROM SO'S TO 140'S WITH 260 I ROLLOUR STEAM AT 16 BOX ECTRICAL REQUIREMENTS - 120V 5 AMPS (9100), WATTS (FS-780), BLUCHER-JOSAM (76640), MIFAB ASS FILLER - LINIT DECK MOUNTED GOOSENECK FILLER STAINLESS STEEL CONSTRUCTION AND FINISH PLASTIC PUS UNIT SHALL PROVIDE 8.0 GPH OF WATER FROM 80°F TO 50°F AT 90°F AMBIENT. WATER SYSTEM SHALL BE OF LEAD FREE CONSTRUCTION. TJ. SHALL BE TESTED TO 125 PSIG. T WATER TEMPERATURE AT 140°F. LOOR SINK - CAST IRON BODY, NICKEL BRONZE RIM AND GRATE, 8° SQUARE, 4° BOTTOM OUTLET, 6° DEEP TRAINER, ACID RESISTANT COATED INTERIOR, SEEPAGE FLANGE WITH CLAMP. WATER HAMMER ARRESTOR - BELLOWS TYPE, PRE-CHARGED, ALL LEAD FREE STAINLESS STEEL CONSTRUCTION, ASSE CERTIFIED. RATED FOR 1-11 FIXTURE UNITS. ORFICE SHALL BE AT 38" (MAXIMUM) ABOVE FINISHED FLOOR. BOTTOM OF APRON SHALL BE AT 27" ABOVE FINISHED FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. ELECTRICAL REQUIREMENTS - 1/5 HP MOTOR, 120V-1 PHASE, CORD AND PLUG, PLAIN RECEPTACLE MOUNTED WITHIN EWC LOWER ENCLOSI. 9605-2236 GBM25), SYMMONS 9605-PLR), AMERICAN STANDARD 1662-223), DELTA 10700-UNWAR-FRACTOR SHALL PROVIDE A LOCKING CABINET CONCEALING SHUTOFF VALVES TO PREVENT UNAUTHORIZED CLOSURE. CABINET S ESSED 18 GAUGE STAINLESS STEEL WITH 16 GAUGE LOCKING DOOR TO ENCLOSE VALVE, INLET CHECK STOPS, OUTLET THERMOME OUT IF TY AU ! CESSORES. CHOCKE PLATED BRASS SHOWERHED WITH SWINE, BALL JOHT, CHOCKEPLATED BRASS ARM MOR FLAVEL, WHICH HOWER WITH MORE CONTROL AND HORSTITE SHEET OF SET? CHOCKEPLATED BRASS ARM MOR FLAVEL. WHICH HOW AND HORST CHOCKEPLATED BRASS SHIVEL CONNECTION, SET CHOCKEPLATED BRASS SHIVEL CONNECTION, SET CHOCKEPLATED BRASS SHIP VIELDOW FLAVEL CHOCKEPLATED BRASS SHIP VIELDOW FLAV URITA (USST) OR PREAPPROVED MAXIMUM FLOW RATE OF 240 GPM AT 25 PSI PRESSURE DROP (TWO VESSELS ONLINE, ONE VESSEL IN STANDBY) MINIMUM FLOW RATE OF 25 GPM TO AVOID CHANNELING (ONE VESSEL ONLINE: TWO VESSELS IN STANDBY) MIXING VALVE - THERMOSTATIC MIXING VALVE FOR EMERGENCY SHOWER OR COMBINATION SHOWER CONSTRUCTION, FAIL TO COLD WATER ONLY, INLET AND OUTLET THERMOMETERS, COMBINATION CHI VALVES AND SHIT OFF VALVES, OUTLET ISOLATION VALVE, MOUNTING BRACKET. INSTALL ALL CONTROLS BETWEEN 38" AND 48" ABOVE FINISHED FLOOR IN COMPLIANCE WITH LATEST ADA STANDARDS. INSTALL BOTTOM O SHOWERREAD AT 78" ABOVE FINISHED FLOOR. MAXIMUM FLOW TO BE 2.5 GPM IN COMPLIANCE WITH ENERGY POLICY ACT OF 2005 AND ASMEJANIS TRANDARD AT 121. SHIN. SET SAFETY JUINT STOPT OF 110 DEGREE F DISCHARDARD AT 121. SHIN. SET SAFETY JUINT STOP TO 110 DEGREE F DISCHARD. MINIMUM CAPACITY OF 1,200,000 GRAINS PER TANK SALT DOSAGE OF 15 LBS PER CUBIC FOOT OF RESIN ONTROL VALVE SIZE: 3° OFTENER TANK SIZE: 48° DIAMETER BY 72° OVERALL HEIGHT RINE TANK SIZE: 50° DIAMETER BY 50° HEIGHT UAL THERMOSTATIC MIXING AND PRESSURE REGULATING VALVE TO DELIVER 25 GPM OF TEMPERED WATER (60-100 DEGREE F) WITH 10 PS RESSURE DIFFERENTIAL. LECTRICAL REQUIREMENTS - 120V-1 PHASE RECEPTACLE T SHALL BE ASSE 1071 LISTED AND APPROVED. VALVE SHALL COMPLY WITH FEDERAL ACT S.3874 YARD CLEANOUT - ROUND, DURA-COATED CAST IRON, SIZE AS LISTED ON DRAWINGS, DOUBLE FLANGED HOUSING, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVER. LIFTING DEVICE: BRONZE CLEANOUT PLUG WITH GASWATER-TIGHT SEAL. ARCHITECT/ENGINEER OF RECORD STAMP CONSULTANT Office of 438-460 PLUMBING MATERIAL LISTS BID DOCUMENTS CONSTRUCT NEW SPS Construction Building Numbe and Facilities ANDERSON Management Sioux Falls, SD **FULLY SPRINKLERED** 19605 1et Ave. II. 8180 Plymouth, MN 95441 F 783.412.4088 | F 788.412.6090 | Jelenis.com Auderson Engliseering of Minecenta, U.C. | Pinj 8 16584 U.S. Department of Veterans PL600 02/14/2025 NATJAC DELLLE Affaire

ELECTRICAL SYMBOL LIST SPEC DESCRIPTION: SYMBOL: TAG: GB GROUND BUS GB IBT IBT 26 05 26 ITERSYSTEM BONDING TERMINATION 20.05.22 ELECTRICAL CONNECTION 0 FB-# or PT-# 26 27 26 FLOOR BOX or POKE THROUGH RUTECH TECHNOLOGY OLITLET BOLIGHAN RI-TECH-C 26.05.33 TECHNOLOGY BOLIGHAN CELLING RI-TECH-W 26.05.33 TECHNOLOGY ROLIGH-IN WALL PHONE TV 26 05 33 TV ANTENNA OUTLET ROUGH-IN WM-# 26 05 35 MULTI OUTLET SYSTEM WW-# 26 05 35 ELECTRICAL WIREWAY W DEVICES SHOWN 26 24 16 PANEL WIRE PANEL WINE 26 24 16 MX-#/MS-# /CB-#/CS-# MANUAL SWITCH / STARTER / COMBINATION STARTER CIRCUIT BREAKER. REFER TO DISCISTA SCHEDULE 26 24 19 \boxtimes TR-#DTR-# 26 22 00 TRANSFORMER REFER TO TRANSFORMER SCHEDULE CB-# 26 28 16 CIRCUIT BREAKER - SURFACE MOUNTED. REFER TO DISCISTA SCHEDULE \Box CB-# 26 28 16 S-#FDS-#DSS-# DB ARCH DOOR BELL DB AND DRYER HD PP ARCH

	ELEC	TRICAL	SYMBOL LIST					
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:					
0=€	REC-DUP-O	26 27 26	DUPLEX RECEPTACLE CONTROLLED BY OCCUPANCY					
o=Φ	REC-QUAD-0	26 27 26	QUAD RECEPTACLE CONTROLLED BY OCCUPANCY					
=0	REC-DUP	26 27 26	DUPLEX RECEPTACLE, 125V					
MO	REC-DUP-GFI	26 27 26	DUPLEX GFI RECEPTACLE, 125V					
G	REC-DUF-GFI-R	26 27 26	GROUND FAULT DEVICE					
w • Θ	REC-DUP-WP	26 27 26	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V					
χ =Θ	REC-DUP-XP	26 27 26	DUPLEX RECEPTACLE, EXPLOSION PROOF, 125V					
=9	REC-ISO	26 27 26	ISOLATED GROUND RECEPTACLE, 125V					
s***	REC-ISO-SUR	26 27 26	ISOLATED GROUND RECEPTACLE WITH SURGE SUPPRESSION, 125V					
s =•	REC-ISO- SUR-QUAD	26 27 26	ISOLATED GROUND QUAD RECEPTACLE WITH SURGE SUPPRESSION, 125V					
ս ⇒	DUPLEX RECEPTACLE, USB CHARGING							
⇒	REC-ARC	26 27 26	ARC FAULT CIRCUIT INTERRUPTER RECEPT 125V					
x- 0	REC-SIM-XP	26 27 26	RECEPTACLE, EXPLOSION PROOF, 125V					
(n)	REC-TAMP	26 27 26	DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V					
NO)	REC-TAMP-GFI	26 27 26	GFI DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V					
=Φ >	REC-TAMP-QUAD	26 27 26	QUAD RECEPTACLE, TAMPER RESISTANT, 125V					
	REC-QUAD	26 27 26	QUAD RECEPTACLE, 125V					
40	REC-QUAD-GFI	26 27 26	QUAD GFI RECEPTACLE, 125V					
U-40	REC-QUAD-USB	26 27 26	QUAD RECEPTACLE, USB 125V					
₩ Ф	REC-QUAD-WP	26 27 26	QUAD GFI WEATHERPROOF RECEPTACLE, 125V					
8	REC-DUP-PED	26 05 33	RECEPTACLE - PEDESTAL STYLE					
8	REC-PED-QUAD	26 05 33	RECEPTACLE - PEDESTAL STYLE					
"O	REC-Z#	26 27 26	IEC PIN AND SLEEVE RECEPTACLE, 600V					
100	PP#	26 27 23	POWER POLE					

	ELEC	TRICAL	SYMBOL LIST
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
s	SW-1P	26 09 33	SWITCH - SINGLE POLE
S ₆₀	SW-1P-060	26 09 33	SWITCH - LOCAL TIMER - SPRING WOUND
ST	SW-1P-ADJ	26 09 33	SWITCH - LOCAL TIMER - USER ADJUSTABLE
S.J	SW-1P-DJ	26 09 33	SWITCH - DOOR JAMB
SE	SW-1P-EM	26 09 33	SWITCH - EMERGENCY
s_{χ}	SW-1P-EX	26 09 33	SWITCH - EXPLOSION PROOF
s _K	8W-1P-K	26 09 33	SWITCH - SINGLE POLE - KEY LOCK
S _L	SW-1P-LH	26 09 33	SWITCH - LIGHTED HANDLE
S _M	SW-1P-M	26 09 33	SWITCH - MOMENTARY CONTACT
S _P	SW-1P-PL	26 09 33	SWITCH - PILOT LIGHT
s _w	SW-1P-WP	26 09 33	SWITCH - WEATHERPROOF
S ₂	SW-2P	26 09 33	SWITCH - TWO POLE
S ₃	SW-3W	26 09 33	SWITCH - THREE WAY
S _{3E}	SW-3W-EM	26 09 33	SWITCH - THREE WAY - EMERGENCY
S _{K3}	SW-3W-K	26 09 33	SWITCH - THREE WAY - KEY LOCK
S_4	SW-4W	26 09 33	SWITCH - FOUR WAY
$D_{\rm D}$	SW-D-LED	26 09 33	DIMMER - LED
D _{D3}	SW-D3-LED	26 09 33	DIMMER - LED - 3-WAY
D_{\odot}	SW-OD	26 09 33	DIMMER - WALL DIMMER OCCUPANCY SENSOR
© □	SW-LS-D	26 09 33	DAYLIGHT LEVEL SENSOR - 1 ZONE DIMMING
@	SW-LS-PC	26 09 33	PHOTOCELL
⊚₀	SW-OC-D	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY
oc _d	SW-OC-D-W	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY - WALL MOUNTED
s _o	SW-OC-P-O	26 09 33	SWITCH - OCCUPANCY SENSOR WALL SWITCH
s ₀₂	SW-0C-P-02	26 09 33	SWITCH - OCCUPANCY SENSOR AND DUAL SWITCH
⊚ _₽	SW-OC-P-P	26 09 33	OCCUPANCY SENSOR - PASSIVE INFRARED 360 DEGREE COVERAGE
OC p	SW-OC-P-W	26 09 33	OCCUPANCY SENSOR - PASSIVE INFRARED - WALL MOUNTED
@ u	SW-OC-U	26 09 33	OCCUPANCY SENSOR - ULTRASONIC 360 DEGREE COVERAGE
∞,	SW-OC-U-A	26 09 33	OCCUPANCY SENSOR - ULTRASONIC TWO SIDED CORRIDOR COVERAGE
oc u	SW-OC-U-W	26 09 33	OCCUPANCY SENSOR - ULTRASONIC - WALL MOUNTED
SW	SW.	26 09 33	WALL CONTROL STATION
TC	TC-#	26 09 33	TIME SWITCH
#B	SW-DCS	26 09 33	DIMMER CONTROL STATION
#B#F	SW-LCS	26 09 33	DIMMER CONTROL STATION WITH FADERS
SLV	SW-LV	26 09 33	CENTRAL CONTROL - STATION
ALCR	ALCR20	26 09 33	AUTOMATIC LOAD CONTROL RELAY
BCELTS	BCELTS	26 09 33	BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH 20A
		TDICAL	CVMDOL LICT

	ELEC	TRICAL	SYMBOL LIST
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
			LINEAR LUMINAIRES
			TROFFER
			WALL SCONCE LUMINAIRE
0			DOWNLIGHT LUMINAIRE
(0			AIMABLE OR WALL WASH LUMINAIRE
	REFER TO LL		INDUSTRIAL LUMINAIRE
99	SCHED	ULE	WALL BRACKET LUMINAIRE
□⊸			POLE MOUNTED LUMINAIRE
⊗			SINGLE FACE EXIT SIGN
■			DOUBLE FACE EXIT SIGN
* * * * * * * * * *			WALL/CEILING EMERGENCY EXIT SIGN
4			EMERGENCY UNIT

	ELECTRICA	L EQUIPMENT TAGS	
TAG:	DESCRIPTION:		RELATED SPECIFICATION
ATS-#	AUTOMATIC TRANSFER SWIT TRANSFER SWITCH SCHEDU		26 36 00
BAT-#	BATTERY RACK		26 32 13
C-#	GENERAL PURPOSE CONTAC	TOR	26 28 21
CR-#	CORD REEL		26 27 26
DP-#	DISTRIBUTION PANEL		26 24 16
INV-#	LIGHTING INVERTER		26 52 00
MX-#	MANUAL SWITCH, REFER TO	DISCONNECT AND STARTER SCHEDULE	26 24 19
SPD-#	SURGE PROTECTION DEVICE		26 43 00
UPS-# US-#	UNINTERRUPTIBLE POWER S UNIT SUBSTATION	UPPLY	26 33 53 26 11 00
VFD-#	VARIABLE FREQUENCY DRIVE	- REFER TO VFD SCHEDULE	26 29 23
	CONTAC	CT PERSONS:	
DESC	RIPTION:	PERSON:	

MECHANICAL	DELLAN J. LLEWELLYN, PE
ELECTRICAL	KRISTEN SPINA, PE
TECHNOLOGY	DAMON M. DEEN
APF	LICABLE CODES
CONTRACTOR SHALL COMPL	Y WITH APPLICABLE CODES AND LOCAL AMENDMENTS
BUILDING CODE:	IBC 2021 EDITION
FIRE CODE:	IFC 2021 EDITION
PLUMBING CODE:	IPC 2021 EDITION
MECHANICAL CODE:	IMC 2021 EDITION
ELECTRICAL CODE:	NFPA 70 (NEC) 2020 EDITION
LIFE SAFETY CODE:	NFPA 101 2021 EDITION
ENERGY CONSERVATION CODE:	IECC 2021
HEALTH DEPARTMENT CODE:	CURRENT EDITION
LOCAL BUILDING CODE:	CURRENT EDITION

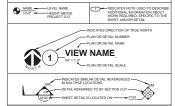
	LOMMO MILL OF MIDOLITIES
SYMBOL:	DESCRIPTION:
□ ∘	NORMAL BRANCH LUMINAIRE
////// 0	[CRITICAL] BRANCH LUMINAIRE
3	EMERGENCY [LIFE SAFETY] BRANCH LUMINAIRE [UNSWITCHED FOR NIGHT LIGHT, UNLESS NOTED 'SE']

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
С	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

UON	UNLESS OTHERWISE NOTED
	CONTRACTOR ABBREVIATION KEY
ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.O.R.	CONTRACTING OFFICER'S REPRESENTATIVE
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
TCC	TEMPERATURE CONTROLS CONTRACTOR

FLECTRICAL RENOVATION NOTES:

- VIEW KEY



LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)

EXISTING
 EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)
 EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

HALFTONING DOES NOT MODIEY SCOPE TAG E TAGO WITH DASH IS INDICATED THE DESERRICED OR ISST IS EVIDTING

TAG-1 UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST. ♦ INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

ELECTRICAL SHEET INDEX ECTRICAL COVERSHEET ECTRICAL FIRE ALARM COVERSHEET GROUND LEVEL FLOOR DEMOLITION PLAN - ELECTRICAL ROOF DEMOLITION PLAN - ELECTRICAL 3ROUND LEVEL FLOOR PLAN - LIGHTMO NITERSTITUS INTERSTITIAL FIRST LEVEL FLOOR PLAN - LIGHTING PARTIAL GROUND LEVEL FLOOR PLAN - POWER INTERSTITIALIFIRST LEVEL FLOOR PLAN - POWE

ELECTRICAL GENERAL NOTES:

- (LESS) INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E001.

 "N." INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.

- IN: NOLICIAIS LIMINAIRE SUNSWITCHED FOR NIGHT LIGHT.

 "SE" NIGACHES LIMINAIRE SI WITCHEDOCRITICALED LIGHT GOOGNAL OPERATION AND
 OPERATES FROM BERGBEROY GROUP LIPION LOSS OF POWER
 SHAEDE LIMINAIRE GR OF EVICE BLOCKES LIMINAIRE OF EDICE IS CONNECTED TO AN
 REFER TO SHEET EME FOR LIMINAIRE SCHEDULE
 ACKNOWLED LIMINAIRE SCHEDULE

 TO SHEET BERF FOR LIMINAIRE SCHEDULE

 TO SHEET BERF FOR SHEET LIMINAIRE SCHEDULE

 TO SHEET SHEET SHEET SHEET SHEET LIMINAIRE SCHEDULE

 TO SHEET SHEET
- VACANCY/OCCUPANCY SENSOR LAYOUT: EMSORS ARE SHOWN ON THE PLANS FOR DESIGN INTERT AND MAY NOT REPRESENT EVERY DEVELOP. EPROVIDE MANUFACTURER RESIGNATION AND COVERAGE AREA MAIL THE SENSOR DEVICES FOR APPROPRIATE COVERAGE, SUBMIT SENSOR DEVICES FOR APPROPRIATE COVERAGE. SUBMIT SENSOR DEVICES FOR APPROPRIATE COVERAGE. SUBMIT SENSOR DEVICES FOR APPROPRIATE COVERAGE. SUBMIT SENSOR DEVICES FOR APPROPRIATE COVERAGE.

LUMINAIRE KEY:

E1 = FIXTURE TAG
1 = CIRCUIT NUMBER

DEVICE KEY:

DEVICE A = MOUNTING (IF APPLICABLE) "IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION FX: A / 1

GAL MOUNTING SUBSCRIPT KEY: MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH

ELECTRICAL INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ABA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON
- ACLESSIBLE SESSIM PARES IN DIR PLAN UNDERSON SERVICE AND ACCESSIBLE SESSIM PARES IN DIR PLAN UNDERSON SERVICE AND ACCESSIBLE SESSIM PARES PROVINCES COMMAND RELITIVACIONES DE UNDER UNDER
- SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CASINE-WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH: FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42° FROM FLOOR (CENTERLINE BIANNAINNI, EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SUFFACE MOUNTED
- DMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SUFFACE MOUNTED WHEN COMDUIT IS SPECIFIED EXPOSED. AND TECHNOLOGY OUTLETS AT 15" FROM FLOOR (CICETERINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AN OUTLETS MAY BE SUFFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED. MOUNT EXTERNOL FOR RECEPTACLES WITH WHILE IN USE COVERS AT 20"F FROM FINISHED EXTERNOL FOR RECEPTACLES WITH WHILE IN USE COVERS AT 20"F FROM FINISHED.
- EXTERIOR LOCATED RECEPTIACLES WITH WHILE-M-USE COVERS AT *20" FROM FINISHED GRADE (CENTRE DIMENSIONS) TO MAINTAIN INSTALLATION ADA COMPLIANCE. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BET ESTED AND EXTERIOR SYSTEM PER ASTIT SHE'S 45 TAMADES FOR FIRE TESTS OF THROUGH-PENETRATION RESIDENS. FEET TO 38 96 98 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO SENSOR PER WAS ASSISTED.

- LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWNOS. PRIOR TO MAKING THE ACTUAL ELECTRICAL, INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE PURNITURE ANDIOR EQUIPMENT.

 2. ELECTRICAL AND TECHNOLOGY SOUPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, ANDIOR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL

- BESTEROIL AND TECHNICATE PROPRIENT THAN ASSESSMENT TO CONTINUE TO A CONTINUE TO THE ADMINISTRATION OF CONTINUE TO A CONTINUE TO A CONTINUE AND THE ADMINISTRATION OF CONTINUE TO A CONTI
- IS RESPUNDING FOUR PAIGHTS. WE REPLECTED CELLING PLAN ELECTRICAL, TECHNOLOGY AUDIONISMA, AND OTHER ELECTRICAL FLANS FOR EXACT LOCATIONS OF ALL CIBLING MOUNTED ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CIBLING MOUNTED ELECTRICAL DENTIFICATION, REFER TO SPECIFICALITY SECTION 26 55 STOR COLORAIDER REQUIREMENTS OF CONDUIT, BOX, CARLEWINE, AND EQUIPMENT.

CONSULTANT ARCHITECT/ENGINEER OF RECORD STAMP Office of 438-460 ELECTRICAL COVERSHEET BID DOCUMENTS CONSTRUCT NEW SPS Construction Building Number ♦IMEG SEGUE and Facilities ANDERSON KRISTEN L SPRIA 21081 Management Sioux Falls, SD. 18605 for Ave. N. 8180 Flymouth, MN 89441 F 783.412.4008 | F 788.412.4000 | as-ma.com Asdemon Engineering of Minnesima, LLC | Pmj 8 16584 FULLY SPRINKLERED Secus Data Chacked E000 U.S. Department of Veterans Affairs 02/14/2025 JMK JDR

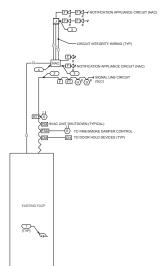
ELECTRICAL SYMBOL LIST TAG: SPEC DESCRIPTION: SYMBOL: SUBSCRIPTS: TYPE / PROGRAMMI WG = WIRE GUARD IS REQUIRED WP = WEATHERPROOF WF = WEATHERPROOF
A = ATRIMM
CA = CLEAN AGENT SYSTEM
CR = COMPUTER ROOM
E = HARAC CONTROL
D = HARAC CONTROL
D = DOWN HARAC CONTROL
D = FOOT NOT RELEASE
DPS = DUAL INTERLOCK PREACTION SYS
FD = FIRE COOR RELEASE
MF = MEDICAL PROCEDURE
MF = MEDICAL PROCEDURE
MF = STANFORM TENTON
MF = SW = STAIRWELL
= 15, 30, 75, 110, 177 CANDELA RATING
CD = CANDELA RATING SELECTED BY NICET NOTIFICATION APPLIANCE CIRCUIT PANEL AMPLIFIER RACK, FIRE ALARM ⑤ ਰੂ FIRE ALARM SMOKE DETECTOR, CEILING OR WALL MOUNT FA-120 28 31 00 BLANK - PHOTOELECTRIC ä #= EQUIP OR SYSTEM FIRE ALARM AIR SAMPLING SMOKE DETECTION (S)^{AS} ASSD-# ⊕° Ţ 28 31 00 FIRE ALARM HEAT DETECTOR FIRE ALARM HEAT DETECTOR

BLANK = COMBINATION RATE OF RISE
/ FIXED TEMP
AT = ATTIC (LOCATED IN)
F = FIXED TEMP
RC = RATE COMPENSATED
X - EXPLOSION PROOF O J 28 31 00 FIRE ALARM FLAME DETECTOR, CEILING OR WALL MOUNT FA-151 FIRE ALARM MANUAL PULL STATION 28 31 00 FIRE ALARM MANUAL PULL STATION W/ COVER FT FA-131 FIRE ALARM VISUAL ALARM DEVICE, CEILING OR WALL MOUNT pФ FA-200 28 31 00 #= CANDELA RATING. CD = CANDELA RATING SELECTED BY NICET DESIGNER FO ED ELECTRIC BELL FOR SPRINKLER SYSTEM FA-263 AUDIO HORN/CHIME ALARM DEVICE, CEILING OR WALL MOUNTED **₽**4 **₽**4 FA-210 28 31 00 COMBINATION AUDIO HORNICHIME AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED FA-211 #= CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER AUDIO (SPEAKER) ALARM DEVICE, CEILING OR WALL MOUNTED COMBINATION AUDIO (VOICE) AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED 3₫ 5₫ FA-220 28 31 00 EA-221 28 31 00 RI FA-241 28 31 00 FIRE ALARM REMOTE INDICATOR FIRE ALARM REMOTE INDICATOR W/ TEST SWITCH FIRE ALARM FLOW SWITCH TO MONITOR SPRINKLER SYSTEM 28 31 00 RT FA-242 FS EA-260 28 31 00 BLANK = REFER TO PLANS KB = KNOX BOX FIRE ALARM TAMPER SWITCH TO MONITOR SPRINKLER SYSTEM TS FA-261 BLANK = REFER TO PLANS PIV = POST INDICATOR VALVE MM 28 31 00

	SEQUENCE OF		N Q				CM	CM	CM	CMI Z m
SYSTEM INPUTS	OPERATION	PANEL/ANNUNCATOR ALARM INDICATION	PANEL/ANNUNCIATOR SUPERVISORY INDICATION	PANEL/ANNUNCATOR TROUBLE INDICATION	AUDIBLE ALARMS SEQUENCE	VISUAL ALARMS SEQUENCE	ELECTRIC SPRINKLER BBLL SEQUENCE	SPRINGER PREACTION ACTIVATION SEQUENCE	SMOKE DAMPER CONTROL SEQUENCE	AHU & MECHANICAL FAN SHUT DOWN SECUENCE
FIRE ALARM PANEL, TRANSF LOW BATTERY	ONDER, NAC PANEL	✝	х							
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL BATTERY OR CHARGER FAILURE				х						
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL ABNORMAL SWITCH OR CONTROL POSITION.			х							
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT				х						
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL AC POWER LOSS OR IRREGULARITY				х						
NOTIFICATION APPLIANCE CIRCUIT OR SLC LOOP GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT				х						
INITIATING DEVICE FAILURE OR COMMUNICATION	N ERROR			х						
FIRE ALARM PANEL MANUAL FIRE DRILL			х		х	х				
MANUAL PULL STATION	FT F	х			х	х				
SMOKE DETECTOR	(S) ₂₀ ⊢(S) ₂₀	х			х	х				
HEAT DETECTOR	(H _a +(H _a ,	х			х	х				
SPRINKLER SYSTEM FLOW SWITCH	MM ES	х			х	х	х	х		
SPRINKLER SYSTEM CABINET MONITOR	MM TS		х							
SMOKE DETECTOR FOR HVAC CONTROL	(S ₂₁ +(S ₂₁		х						х	х

ALL SEQUENCE OF OPERATION SHALL MATCH EXISTING FIRE ALARM SEQUENCE IN FACILITY.
COORDINATE REQUIREMENTS PRIOR TO PROGRAMMING.





NOTES:

- NOTES.

 1. THE RIBERT DAGRAM IS INTENDED TO CONVEY THE TYPES OF FIRE ALARM COMMERCIONS AND SECREPALLY SIGES NOT SHOCKED COUNTRIES. INJURIES OF COMMERCIONS AND SECREPALLY SIGES NOT SHOCKED COUNTRIES. INJURIES OF THE ALARM SYPTEM SHALL HERE ALL AND SECREPALLY HERE AND SECREPALLY HERE

KEYNOTES:

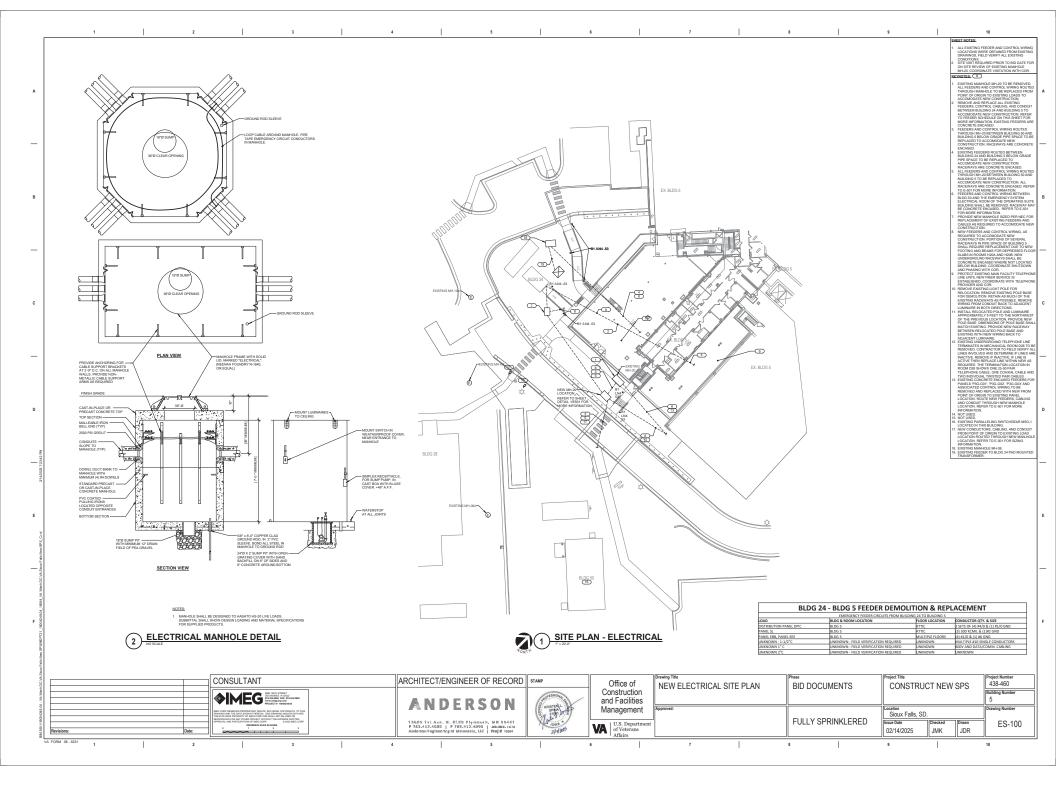
- THE PRESENTATION OF PROGRAMMENT OF POWER IN PERMIT OF A CORPEX.

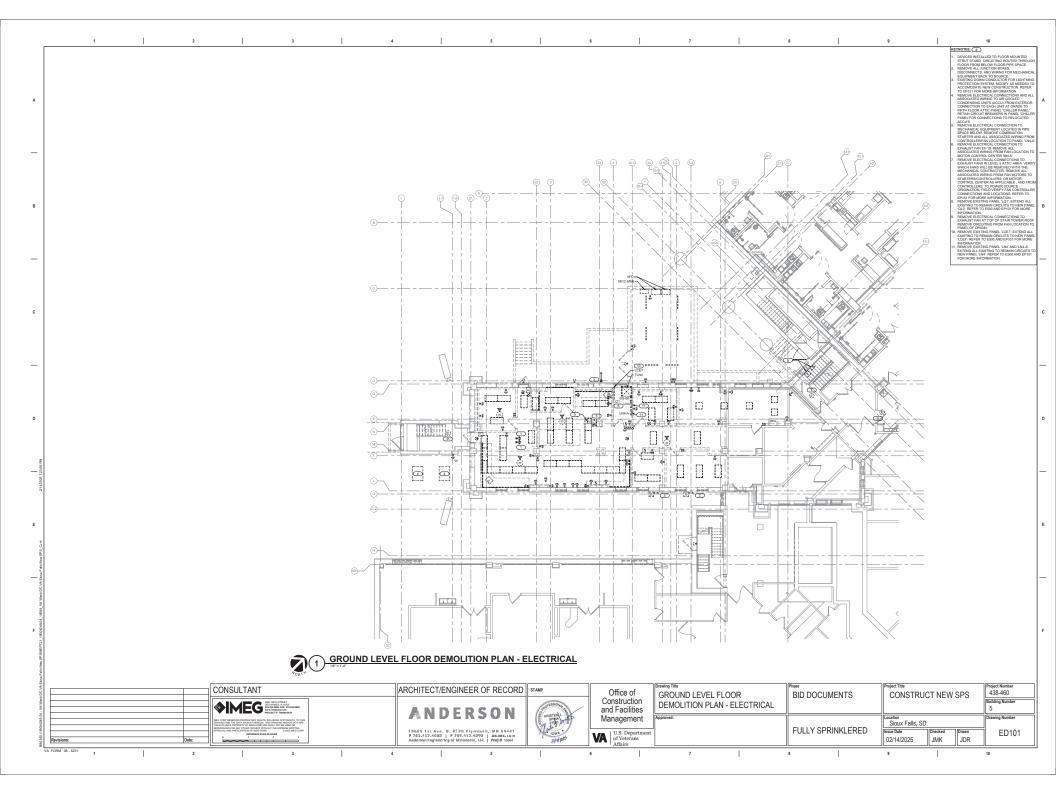
 TO SPECIAL DISCUSSION OF THE POWER OF A CORPEX.

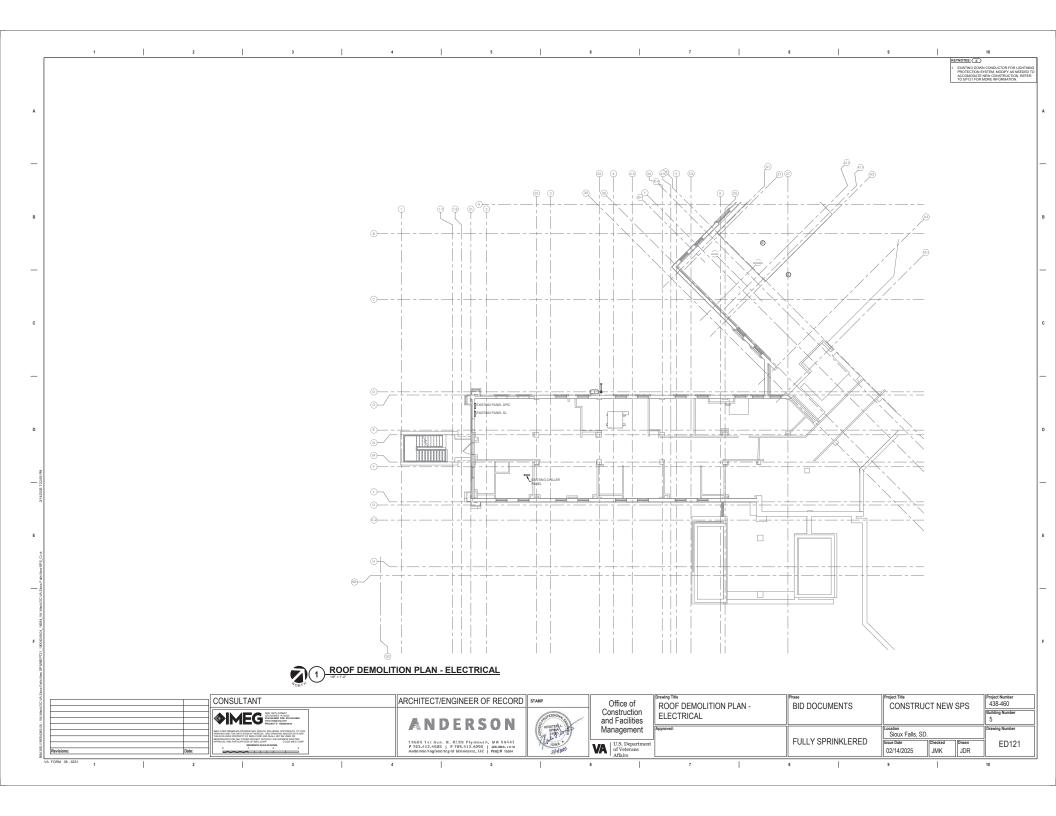
 TO SPECIAL DISCUSSION OF THE POWER OF THE POWER

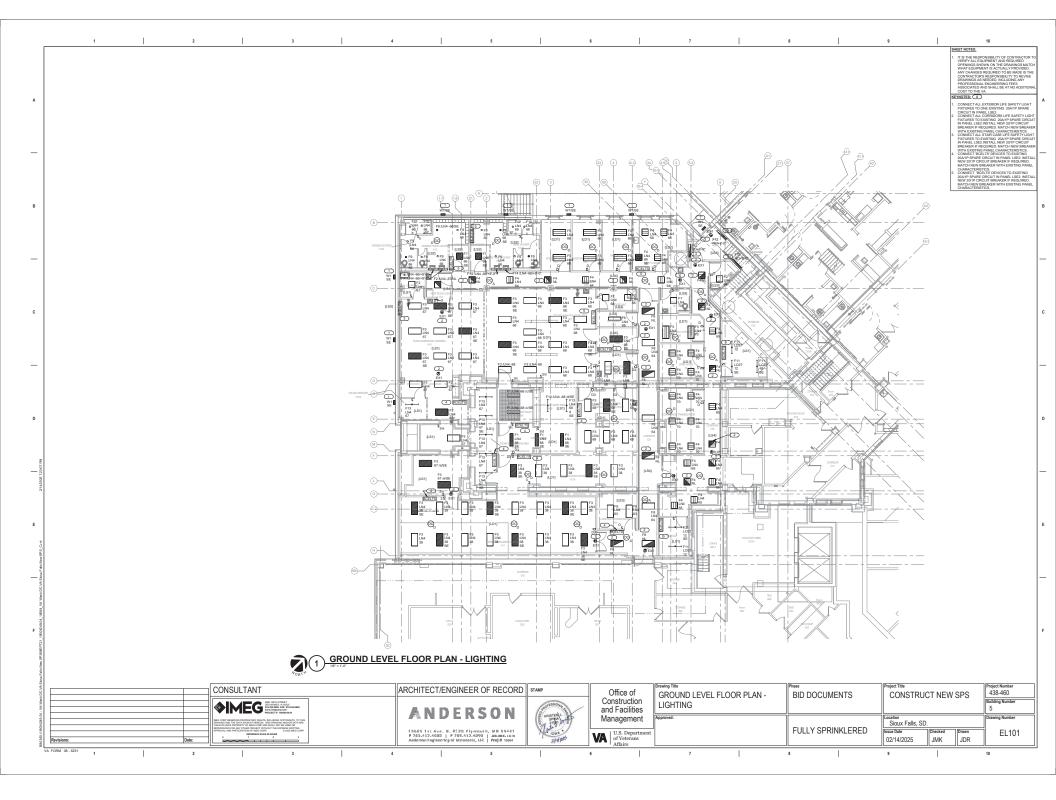
2 FIRE ALARM RISER

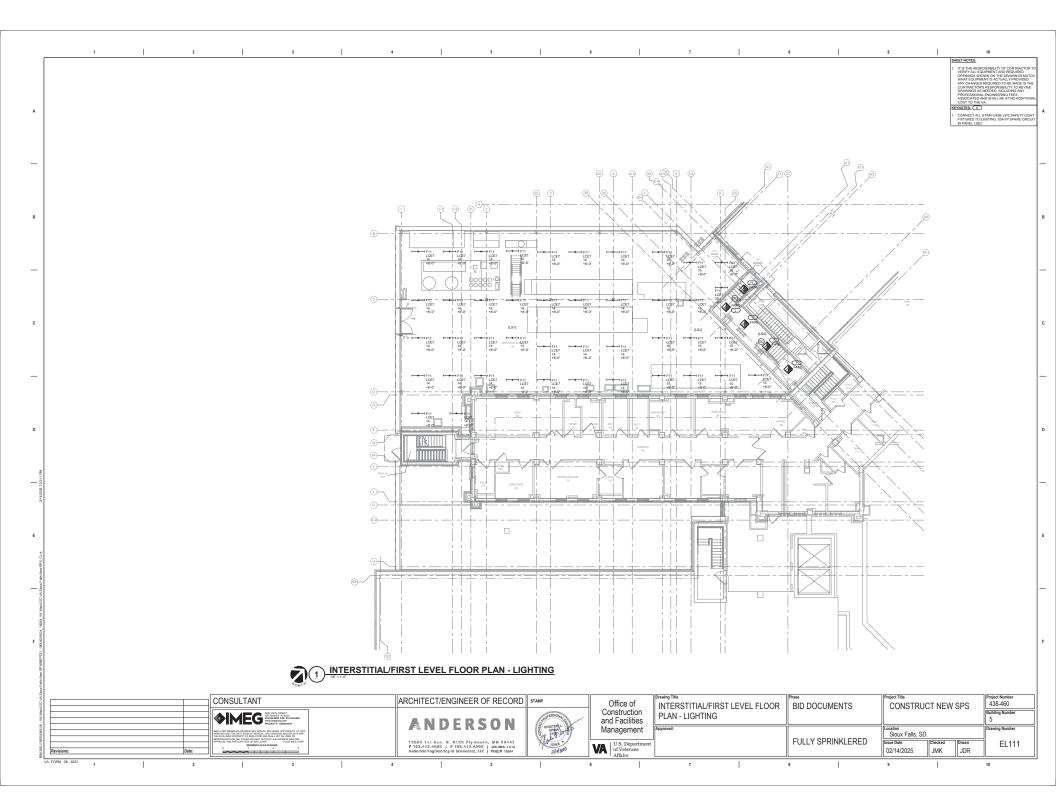
Sloux Fal								
DC-VA	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of	ELECTRICAL FIRE ALARM	BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460
1 - VA-Wash	♦IMEG MILLAND FORCE THE MILLAND FOR THE MIL	ANDERSON	S. COLUMN TOWN	Construction and Facilities	COVERSHEET	BID BOOOMENTO	CONCINCOT NEW OF C	Building Number 5
9004249.0	MAG CODE RESIDENCE PROFESSION RECEIVED WITH ANALYSIS CONFIDENCE, TO THE THE CLUSTER PROFESSION RECEIVED WITH ANALYSIS CONFIDENCE PROFESSION RECEIVED AND RESPONDING TO ANALYSIS PROFESSION RECEIVED WITH THE PROFESSION RECEIVED.	18695 far Ave. B. 8180 Flymouth, MN 59441	SPINA NEW YORK	Ivianagomoni	Approved:	FULLY SPRINKLERED	Cocation Sioux Falls, SD.	Drawing Number
BIM 360://:	Revisions: Date:	F 763.412.4008 F 769.412.4090 an-mm.com Anderson Engineering of Minneauxa, LLC Proj # 16584	2/19/ 885	U.S. Department of Veterans Affairs		TOLLT STRINKLERED	02/14/2025 JMK JDR	FA001

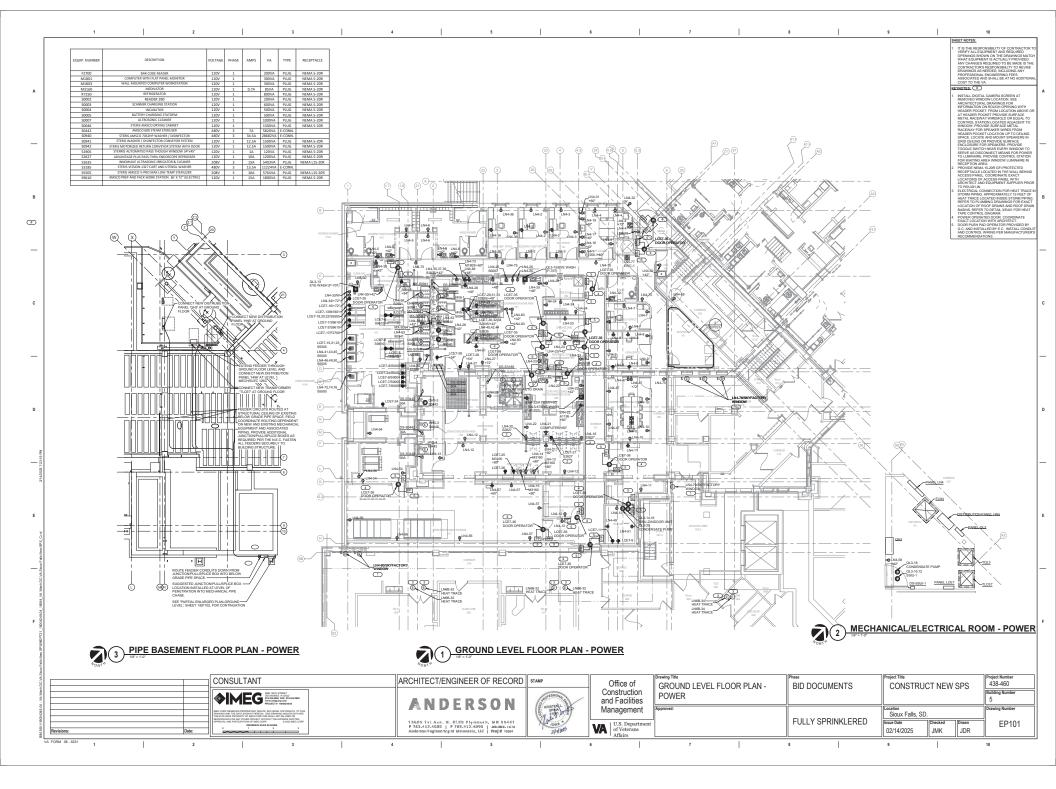


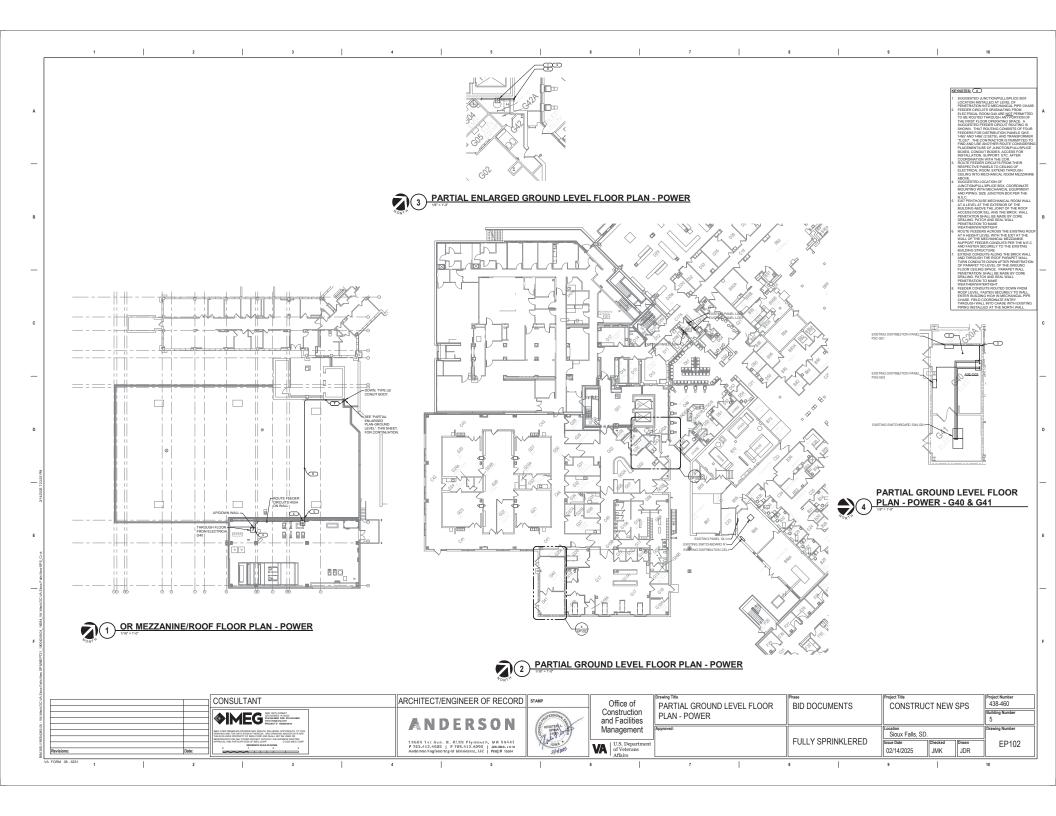


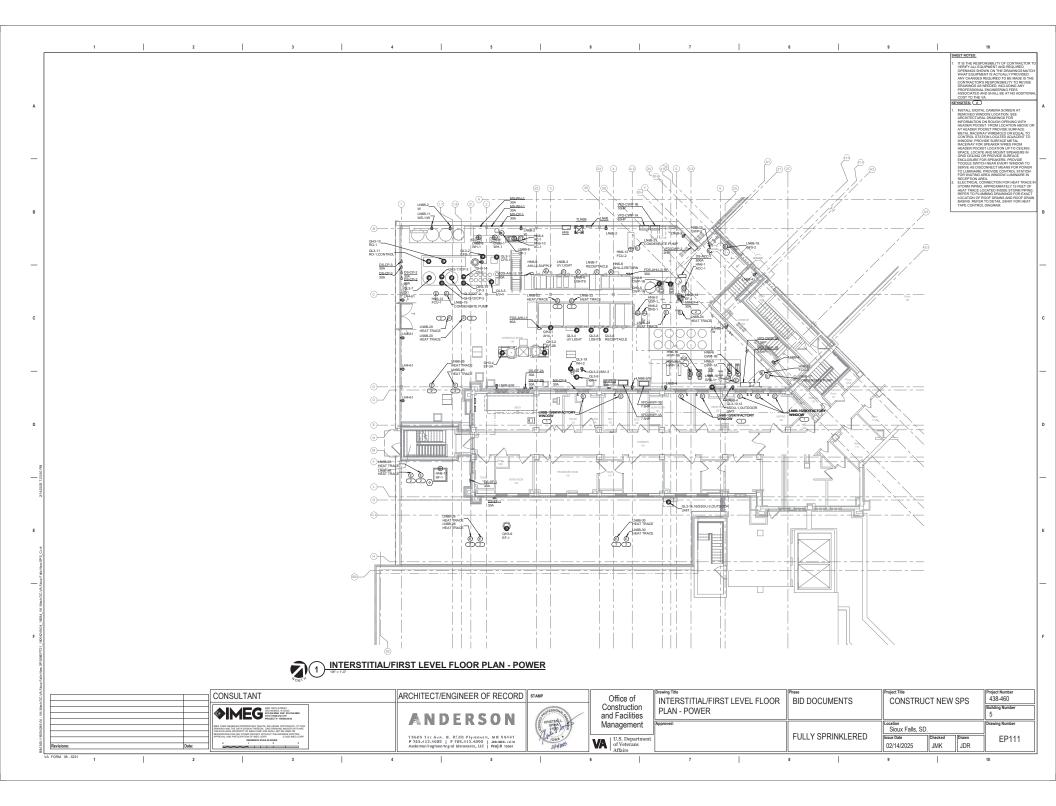


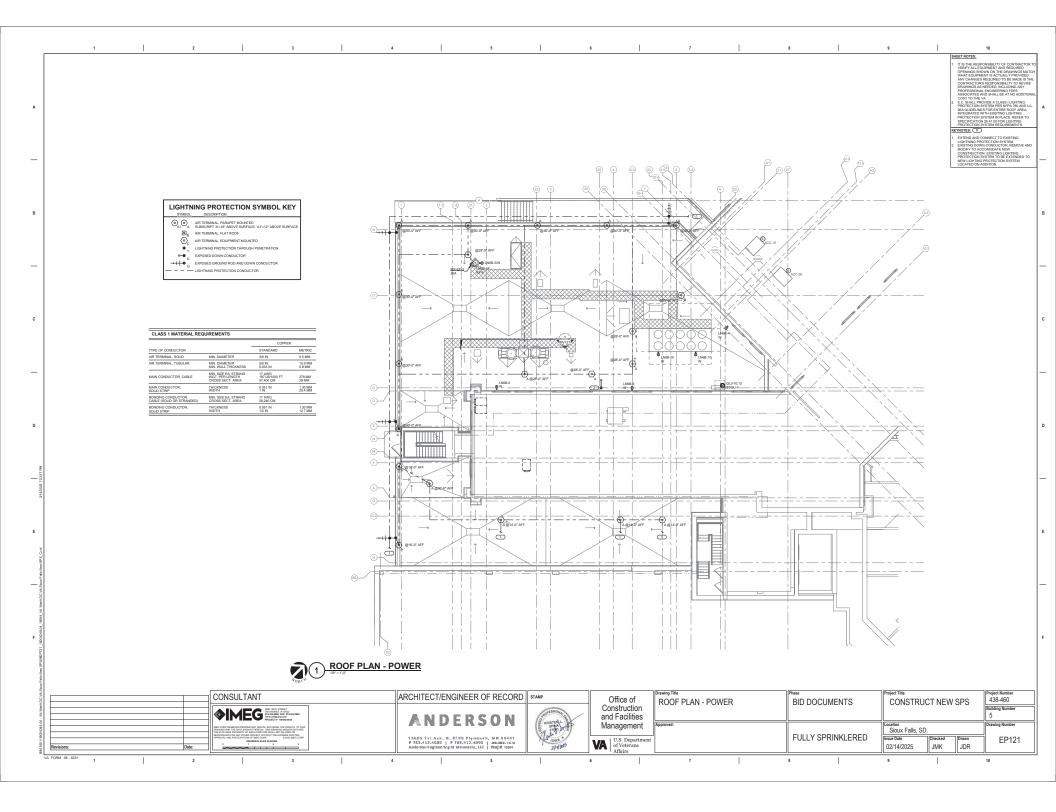


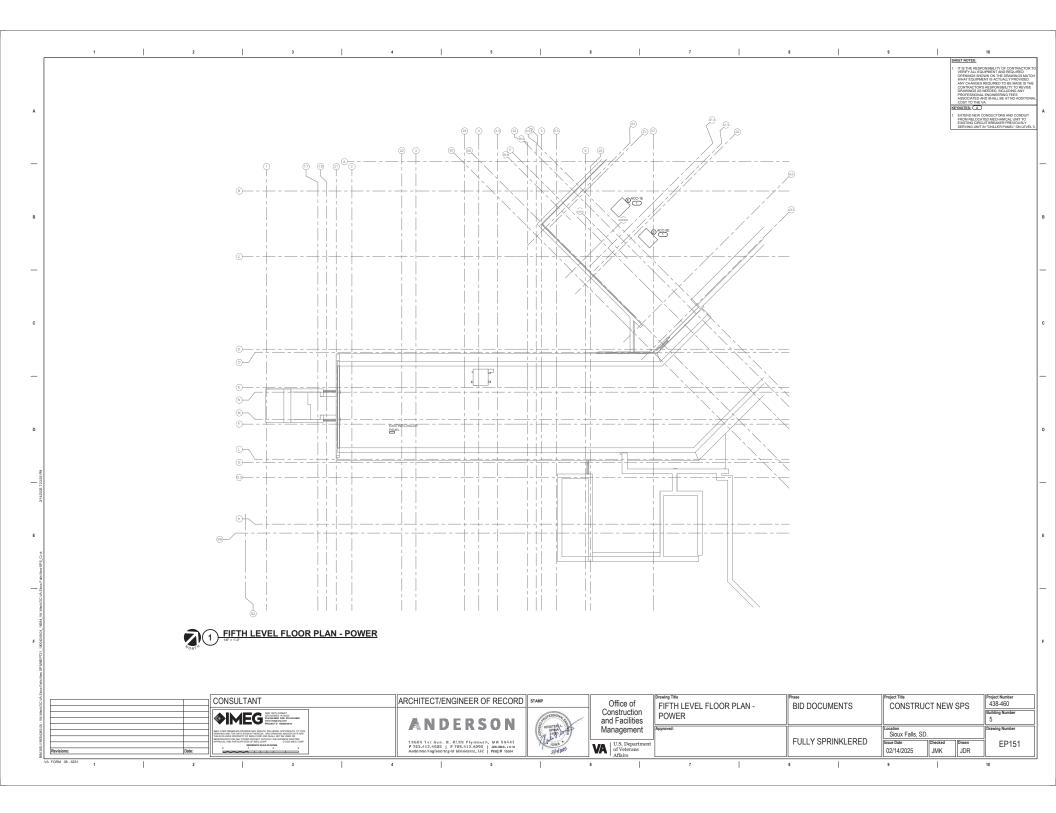


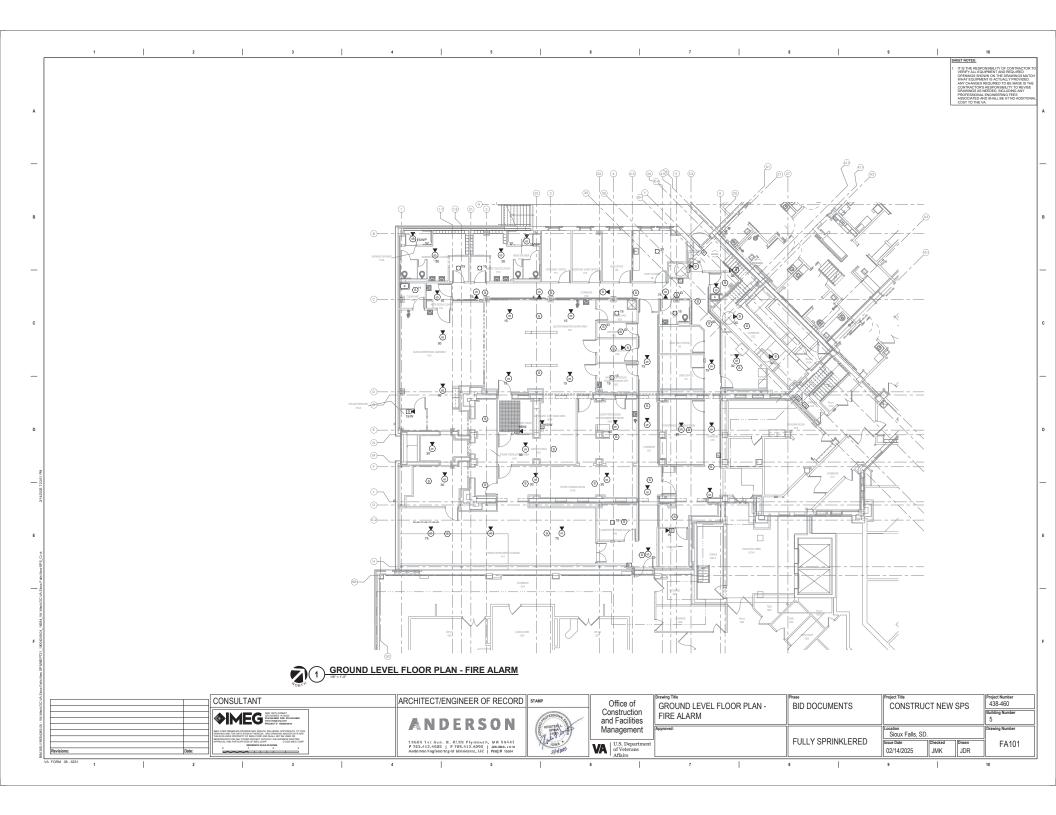


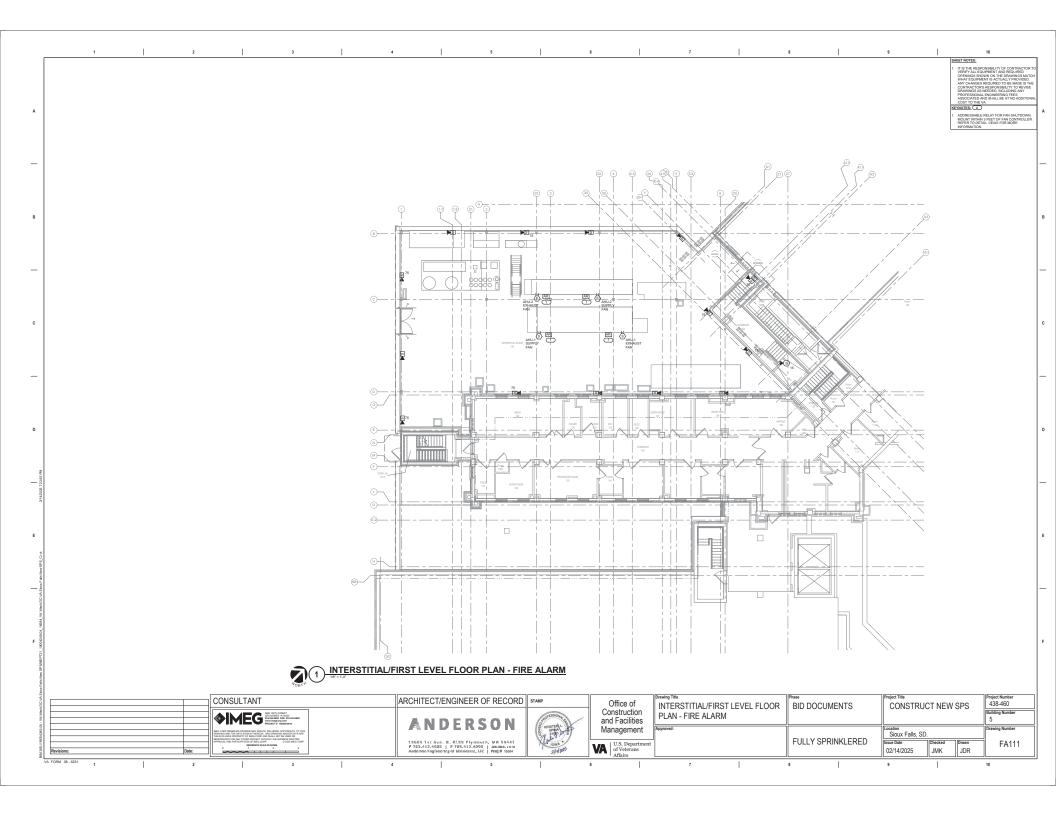


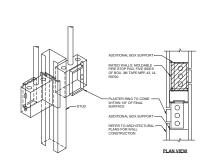






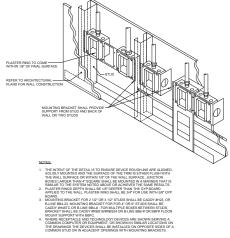




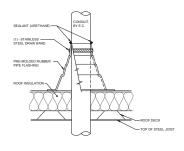


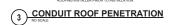
HORIZONTAL CONDUIT CONNECTION BETWEEN BOXES LESS THAN 2-0" NOT PERMITTED SEE SPECIFICATIONS AND DRAWING NOTES FOR ADDITIONAL SPACE REQUIREMENTS BETWEEN DROWSE.

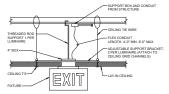
SIDE BY SIDE DEVICE OPENINGS NO SCALE



(2) BACKBOX MOUNTING DETAIL NO SCALE

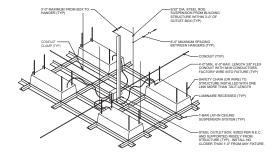






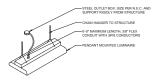
EXIT SIGN MOUNTING DETAIL

NO SCALE



DO NOT SUPPORT CONDUIT OR BOXES FROM CEILING GRID HANGERS.
 PROVIDE A MINIMUM OF TWO INDEPENDENT #12 GAUGE SUSPENDED CEILING SUPPORT WIRES LOCATED ON DIAGONAL CORNERS OF THE LUMINANEES. UNIMAYEES WIRINAYEES WEIGHING 56 LBS OR GREATER REQUIRE FOUR SUPPORT WIRES. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

5 RECESSED LUMINAIRE DETAIL (SAFETY CHAIN)

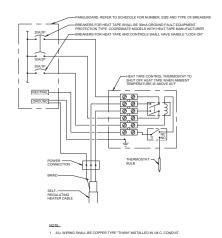


6 CHAIN SUSPENDED MOUNTING DETAIL

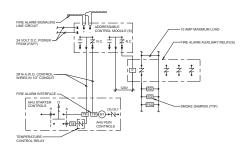
ı.	SELECT CHAIN LENGTH TO PROVIDE MOUNTING HEIGHT AS REQUIRED ON DRAWINGS.
2.	PROVIDE TWO CHAIN HANGERS FOR EACH LUMINAIRE. ADJUST TO HANG LUMINAIRE LEVEL.

	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of	Drawing Title ELECTRICAL DETAILS	BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460
	♦IMEG MALEGOR FAZ FAZ SAANG	ANDERSON	ORDESSIONAL STATE	Construction and Facilities	EEEO THIOTE BETTHEO	BID BOOOMEIVIO	CONCINCOT NEW OF C	Building Number 5
	MACE CORP RESERVES PROPRETARY RESERVE, MACLIENTS COPYRIGHTS, TO THE DESCRIPTION OF THE DE		KRISTEN SPINA	Management	Approved:	FULLY CODINIZIEDED	Sioux Falls, SD.	Drawing Number
Revisions: Date:	APPRICAM. AND PHITCHPHICHCH MICK COPP. C 2006 RISKS CORP. REFERENCE SOLE IN INCIDES 2 2 3	18695 1st Ave. B. \$3.80 Flymouth, MN 88441 F 783.412.4088 F 783.412.4090 as-ans.com Asterson Engineering of Minestens, LLC Prof.8 1684	2/1980) PT 37	U.S. Department of Veterans Affairs		FULLY SPRINKLERED		E400

CONDUIT INSTALLATION SCHEDULE THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION (
RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 28 05 33 FOR ADDITIONAL INFORMATION. PVC COATED RMC FEEDERS: SWITCHBOARDS, DISTRIBUTION PANELS,
PANELBOARDS, MOTOR CONTROL CENTERS, ETC.
BRANCH CIRCUITS: LIGHTING, RECEPTACLES,
CONTROLS, ETC. MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC. х x FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC NISHED SPACES / CONCEALED х LEVATED CONCRETE SLABS (ABOVE GRADE) ERIOR LOCATIONS: EXPOSED x INTERIOR LOCATIONS: EXISTING WALLS AND EXPOSED INSTALLATION (FINISHED SPACES) WITHIN 5' FROM THE PERIMETER OF THE BUILDING WHEN PAS THROUGH THE PERIMETER OF THE BUILDING FOUNDATION: WITHIN 5' FROM THE PERIMETER OF A BUILDING FOUNDATION х х x FIRE RATED ASSEMBLIES: FIRE RATED ASSEMBLIES LISTED WITH PHENOLIC RTRC RACEWAY



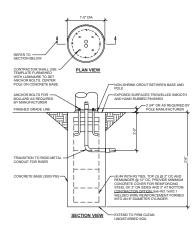
3 HEAT TAPE CONTROL DIAGRAM



NOTES:

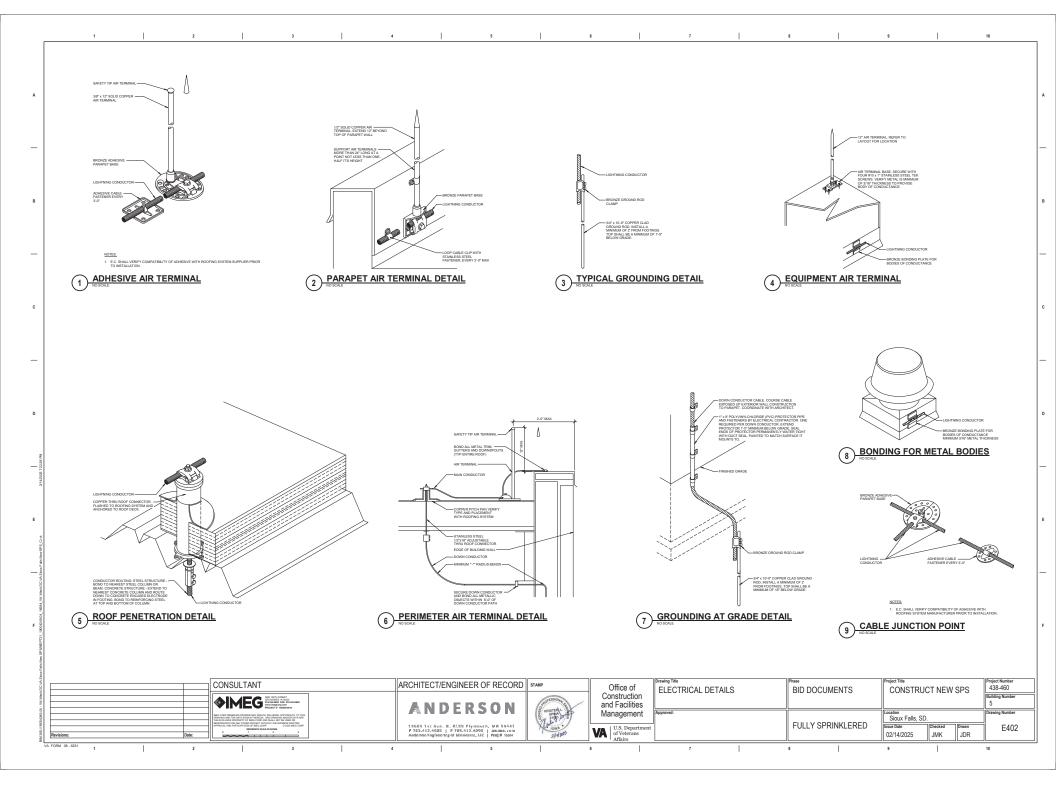
 SEQUENCE OF OPERATION: ADDRESSABLE CONTROL MODULE PROGRAMMED NORMALLY CLOSED FOR NORMAL OPERATION IPON ACTIVATION OF A SMOKE DETECTOR IN THE AREA SERVED BY THE AHU, THE CONTROL MODULE WILL OPEN SHUTTING DOWN THE AHU AND CLOSING THE SMOKE DAMBERS.

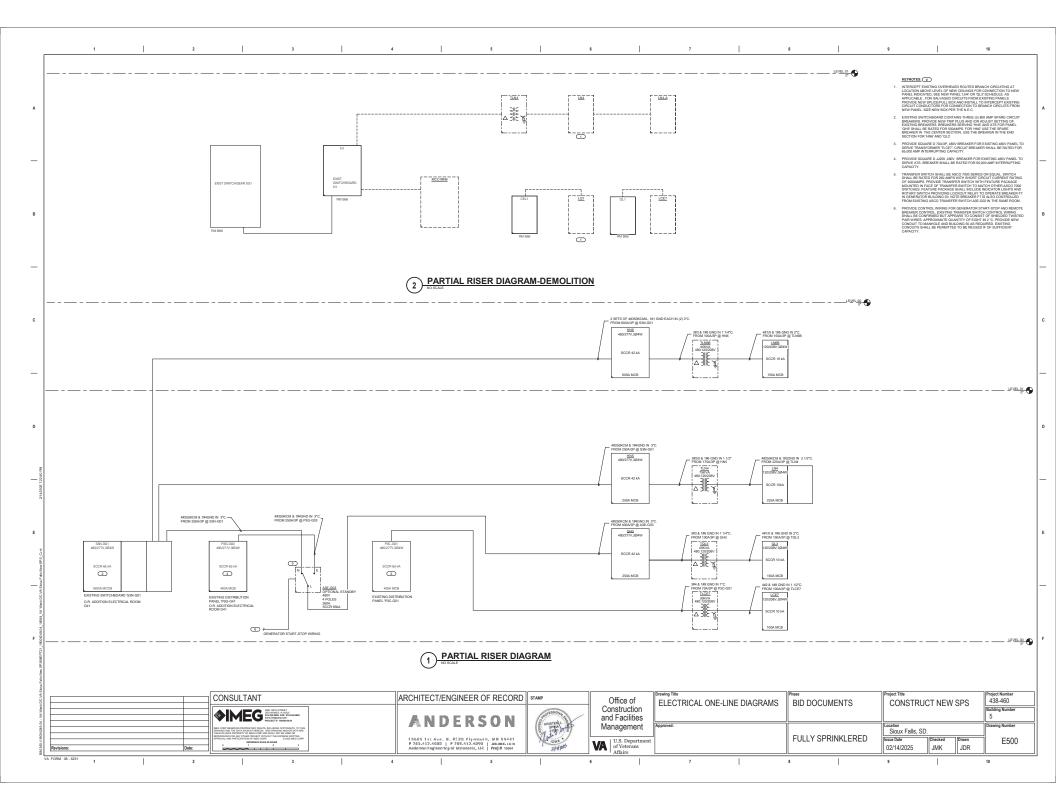
1 AHU SHUT DOWN - ADDRESSABLE



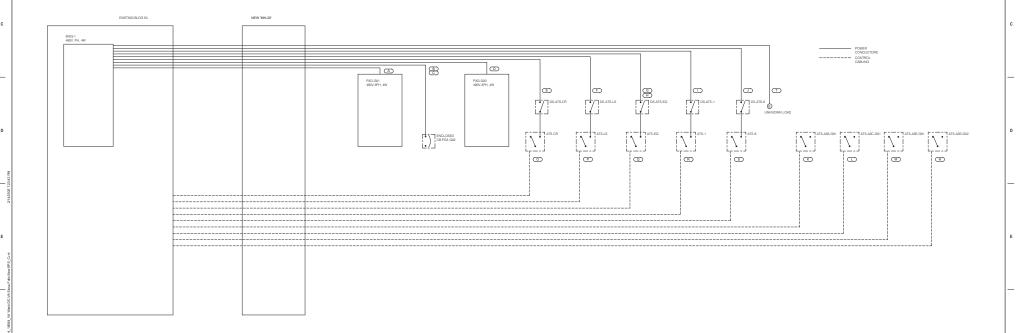
BOLLARD BASE DETAIL
NO SCALE

DC-VA		CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of	Drawing Title ELECTRICAL DETAILS	Phase BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460
- VA-Wash		♦IMEG ************************************	ANDERSON	MAN DESSIONAL BALL	Construction and Facilities	LEEO TRIONE DE TAILO	BID DOOGWENTO	CONOTROOT NEW OF C	Building Number 5
719004249.00		Made Confed RESIDENCE INFORMATION FOR RESIDENCE INCLUDING CONFERENCE, TO THIS BECOMED AND THE RESIDENCE INFORMATION FOR THE RESIDENCE INCLUDING PROPERTY TO THE RESIDENCE IN THE SECRETARY OF THE RESIDENCE INCLUDING PROPERTY OF THE RESIDENCE INCLUDING PROPERTY OF THE RESIDENCE INCLUDING PROPERTY OF THE RESIDENCE INCLUDING THE RESIDENCE INCLUDING PROPERTY OF THE RESIDENCE INCLUDING THE RE	15505 fer Ave. M. \$150 Flymourh, MN 55441	OWA 200	Management	Approved:	FULLY SPRINKLERED	Location Sioux Falls, SD. Issue Date Checked Drawn	Drawing Number E401
BIM 360:	Revisions: Date:	2 1 2 2 1	F 763.412.4000 F 769.412.4000 an-instruction Auditmon Engineering of Introducto, LLC Pinij # 16584	2/14/2005	U.S. Department of Veterans Affairs			02/14/2025 JMK JDR	L401
٧	A FORM 08-6231 1 2	3 4	5	1	i	7	8	9	10



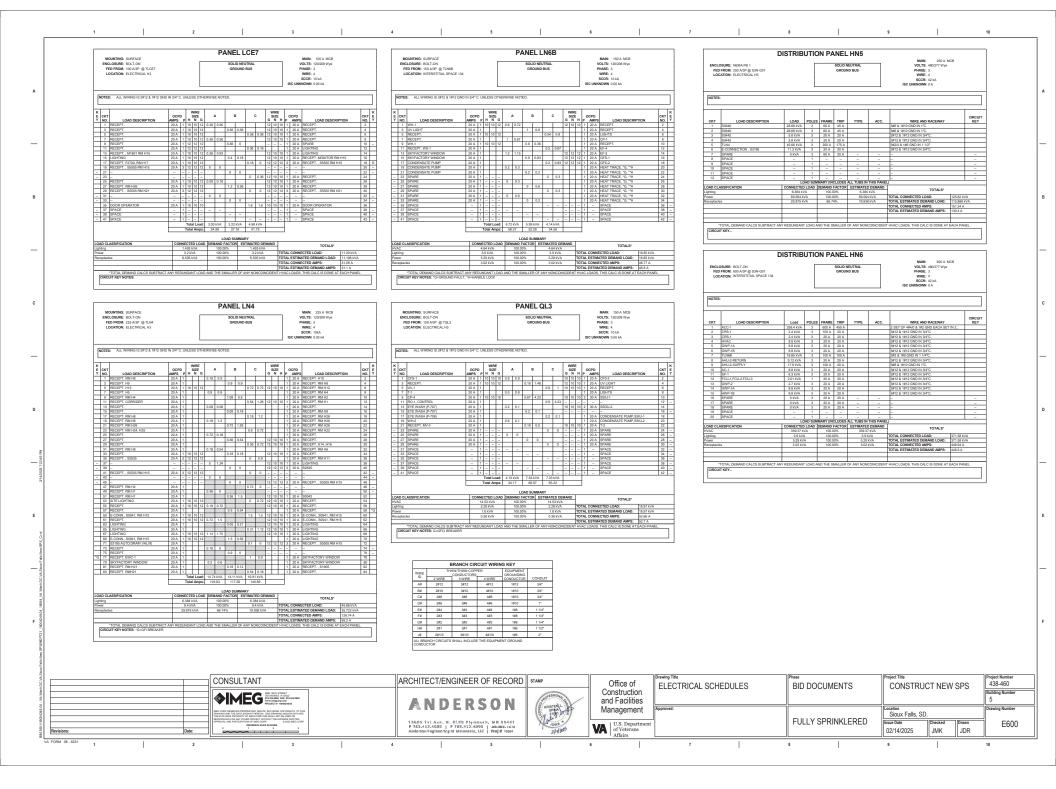






1) MANHOLE MH-20 POWER AND CONTROL DIAGRAM

	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of	ELECTRICAL ONE-LINE DIAGRAMS	BID DOCUMENTS	Project Title CONSTRUCT NEW SPS	Project Number 438-460
- VV-WBB	♦ IMEG NAME (STATE OF STATE O	ANDERSON	OF SSIONA IN	Construction and Facilities	ELECTRICAL CIVE-LIVE BIACITATIO	BID BOOOMENTO	OONOTROOT NEW OF O	Building Number 5
0.00	MEGI COSP RESERVES PROPRIETARY RIGHTS, NECLIEMS COPPRIENTS, TO THIS DRAWNER AND THE CHIEF AND CHIEF RIGHTS, NECLIEMS COPPRIENTS, TO THIS DRAWNER AND THE CHIEF AND CHIEF THE RECEIVE AND DRAWNER AND THE CHIEF AND CHIEF AND CHIEF AND THE CHIEF CHIEF AND THE CHIEF CHIEF AND THE CHIEF C	ANDERSON	KRISTEN SPINA	Management	Approved:		Sioux Falls, SD.	Drawing Number
Revisions: Date:	APPROVAL AND PRICTICATION OF BIOLOGISE 8 SERVENCE SPACE OF INTO SE 1 2 3	13525 1st Ave. M. 8130 Flymouth, MM 59441 F 763-412-5085 F 769-512-5090 as-ann.com Anderson Engineering of Minneauta, LLC Fing # 16594	July 10WA	U.S. Department of Veterans Affairs		FULLY SPRINKLERED		E501
VA FORM 08 - 6231 1 2	3			Anans	7	8	•	10



LED LUMINAIRE SCHEDULE TRANSFER SWITCH SCHEDULE LIGHTING CONTROL SEQUENCE DESCRIPTION: K19 - KSH19 .156* ACRYLIC SWITCH TYPE: CCESSORIES & OPTIONS NSP - VERY NARRO' SP - SPOT MD - MEDIUM WD - WIDE VWD - VERY WIDE WW - WALL WASH M - MATTE DIFFUSE CLEAR N - NONE P - POLYCARBONATE AUTO- AUTOMATIC
BIL BYPASS ISOLATION
MAN - MANUAL OPERATION
PGLB - PORTABLE GENERATOR & LOAD BANK CABINET P - POLYCARBONATE R - HIGH IMPACT DR ACRYLIC SS - SEMI-SPECULAR CLEAR O - OTHER (SEE DESCRIPTION [DESIGN SPECIFIC BLANKS] RS - REGRESSED STEEL 1. {L##} DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE. (WATT) PER: FOX - FIXTURE, FT - FOOT, LAMI TYPE) LED LED - LIGHT EMITTING DIODE FLED - TUBULAR LED LAMP DLED - ORGANIC LED DLED - OYNAMIC TUNABLE LED CT - LOSED TRANSITION

OT - DELAYER TRANSITION - CENTER OF (TRANSITION DELAY 30 SECONDS)

39-30 CYCLE WITHSTAMD RATING

SE - SERVICE ENTIFACE LISTED

SN. - SHITCHES INCLIFIAL

ON - OVERLAPPING SWITCHES NEUTRAL

ON - OVERLAPPING SWITCHES

ON - ONE SALD NEUTRAL ROB - COLOR CHANGING LED L - CEILING SURFACE V - COVE R - FLANGED RECESSED Sequence: Dimmed lights are vacancy controlled in this space.

ON: The lights tuned on using a wall control.

ADUST: The dimming luminaries are raised flowered using a controll.

OFF: The lights turn off using a wall controller. After this space has been PERIMETER - POLE TI - TRANSFER INHIBIT .S - LOAD SHED (PROVIDE DELAYED TRANSISTION - CENTER OFF CONFIGURATION) ES - ELECTRONIC 14. - HOHLOW (10%-10%) STEP DM MY - HALTIVO 11. - MV - MULTI-VOLTAGE ELECTRONIC | SWITCH | SECURITION | SECURITION | SWITCH | SWIT off.

Sequence: Dimmed lights are vacancy controlled in this space.

2N: The lights turned on using a wall control.

CAUTH to lights turned on using a wall control.

CAUTH is lights turned on using a wall controller.

CFF: The lights turn off using a wall controller. After the space has been off. O - OTHER (SEE DESCRIPTION) Sequence: Switched lights are controlled in this space. ON: The lights turn on using switches. OFF: The lights turn off using switches. ERBY AND COORDINATE ALL CELING TYPES WITH LUMINARE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINARE ORDER. ONFIRM ALL COLORS AND FINSHES OF ALL LUMINARE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINARE ORDER. ALESS INDICATED ON LICHTING PLASS OR DELIOW, REPER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS ACTUALS FOR ALL SUSPENDED AND TRANSFORMER SCHEDULE uence: Switched lights are controlled in this space CH:: After the space has been vacant for 15 minutes, the lights will automatically turn oft. Sequence: Switched lights are vacancy controlled in this space. ON: The lights turned on using switches. OFF: After the space has been vacant for 15 minutes, the lights will automatically turn off. AUT - AUTOTRANSFORMER BB - BUCK BOOST LIQ - LIQUID FILLED K13 - K13 RATED DRY 1 HM - HARMONIC MITIG PE - NEMA PREMIUM E LIL MTG L W H DIA MAX PER TYPE QTY DELIVERED D Sequence: Switched lights are controlled in the space.

Oit. The normal lights turn only excepting yeardors in contrider. Night lights will remain on at all times.)

Sequence: Switched lights are controlled in this space,

Sequence: Switched lights are controlled in this space.

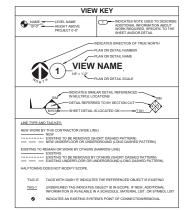
Oit. The lights turn on via a photo sentor multi.

Oit. The lights turn on via a photo sentor multi. APPROVED MANUFACTURER / SERIES VOLTS TYPE COOPER FAIL-SAPE CLP ACULTY HEAL THCANE LIGHT, HSTL KURTZON CLEANROOM KL KENALL M4SED SERIES | MAX | PRIMARY | SECONDARY | REQUIRED DOCESSORIES | SATING | TOPE | BECLOSURE | SECONDARY | PRIMARY | SECONDARY | REQUIRED DOCESSORIES | SATING | PER FAIL-SAFE CLP TY HEALTHCARE LIGHT, HSTL FZON CLEANROOM KL FOOTNOTES DOOPER FAIL-SAFE CLP ACUITY HEALTHCARE LIGHT. HSTL KURTZON CLEANROOM KL WELDED CONSTRUCTION, STEEL DOOR, SEALED AND GASKETED, 10.125 THICK PATTERN 12 ACRYLIC INVERTI SEAL WANTE STREET, 102-11 TEN DISCONNECT AND STARTER SCHEDULE VARIABLE FREQUENCY DRIVE SCHEDULE NOTE: ALL DISCONNECTS (EXCEPT MANUAL STARTERS) SHALL BE HEAVY DUTY TYPE. STARTER TYPE: ACCESSORIES & OPTIONS SA. STANDARD ACCESSORIES (INCLUDES "TEMS "CT. CONTROL TRANSFORMER, FUSED 120V "EO - ELECTRONIC OVERLOAD (3 PHASE MOTORS) "HA - HAND-OFF-AUTO IN DOOR "FP - RED RINN) PLOT USEIT IN DOOR "TA. "TWO CONVERTIBLE AUXILIARY CONTACTS SIN - INSULATED NEUTRAL ASSEMBLY." FROM BELOW.

LED STATIC GRID LENSED TROFFER, 22 GAUGE STEEL
HOUSING WITH FLUSH STEEL DOOR IN WHITE*, 0.110*
THICK #12 PATTERN ACKYLIC LENS**. IOPER METALUX 14GR INFY DAYBRITE 1TG*** RUMBIA LIGHTING LJT14 SERIES LED STATIC GRID LENSED TROFFER, 22 GAUGE STEEL HOUSING WITH FLUSH STEEL DOOR IN WHITE*, 0.110* STATIC GRID LENSED TROFFER, 22 GAUGE STEEL SING WITH FLUSH STEEL DOOR IN WHITE*, 0.110* IX #12 PATTERN ACRYLIC LENS**. | DISCORNECT TYPE & | STATTER | | RATING | TRIP | CIRCUIT | TYPE | RATING | RATING | VOLTAGE | POLES | SIZE | TYPE | ENCLOSURE | SIZE | TYPE | TYP REQUIRED
ACCESSORIES &
OPTIONS
RP, 115 VOLT PILO
LIGHT CIRCUIT
RP, 115 VOLT PILO ROUND OPEN DOWNLIGHT, 16 GAUGE GALVANGED ST HOUSING, SELF-FLANGED, COLOR AND FINISH SELECT BY ARCHITECT, 45 DEGREE CUTOFF, LIGHT ENGINE REPUREASE E SEOM BELOW THE CELLING. MINT LOCA. COOPER PORTFOLIO LDIB HUBBELL PRESCOLITE LITEISTRY NEMA 1 DISTRIBUTION PANEL QH3 MX-EF-4 NEMA 4 ENSED STRIP LIGHT, DIE-FORMED COLD L HOUSING, ROUND FULL FROST LENS. ENCLOSURE: NEMA PB 1
FED FROM: 400 A/3P @ A/3E-G03
LOCATION: ELECTRICAL H3 NEMA 4 MX-EF-3 NEMA 1 WALL BRACKET, COLD-ROLLED STEEL HOUSING WITH FACETED LENS, PAF. INTEGRAL OCCUPANCY SENSOR CURRENT ALBEO ALV2 COPER METALUX SWLED ILUMBIA LIGHTING ESL4 SERIE 120 V NEMA 1 120 V NEMA 4 NOTES: PLACE GASKET, INTERNAL PREMATIC, FROSTED LENS, FBERGLASS HOUSING, STAINLESS STEEL LATCHES, WIDE DISTRIBUTION. 120 V NEMA / MX-80941 30 A 120 V NEMA 4 120 V NFMA 4 CKT LOAD DESCRIPTION POLES FRAME TRIP 3 60 A 60 A TYPE NEMA 4 NEMA 3R 3#12 & 1#12 GND IN 3/4 3#10 & 1#10 GND IN 3/4 3#12 & 1#12 GND IN 3/4 SINGLE FACED EXIT SIGN, 35-GAUGE STEEL HOUSING, WHITE FINSH, WHITE TRANSLICENT GLASS LENS, CITY OF CHICAGO APPROVED. SUITABLE FOR OPERATION IN TEMPERATURES OF -20 DEGREES CELSIUS TO 40 DEGREES CELSIUS. JUBBELL DUAL LITE CLS BARRON CHEX SERIES OPER SURE-LITES CH BBELL DUAL LITE CLS RRON CHEX SERIES 3#3 & 1#6 GND IN 1 1/4*0 3#12 & 1#12 GND IN 3/4* 3#12 & 1#12 GND IN 3/4*C 3#12 & 1#12 GND IN 3/4*C 3#12 & 1#12 GND IN 3/4*C OREE XSPW SERIES SIGNIFY GARDOO 101L RAYON TISSUED NEMA 3R NEMA 3R NEMA 3R NEMA 3R ROUND ALDINING BOLDARY, INCLINE SILLONE
GASKETS, FLATTOP, OPTICAL SYSTEM IS IPNS RATED,
TYPE II DISTRIBUTION, DUAL RECEIFFACLE AND LOCKE
COVER, DRIVER IS SUTHABLE FOR OPERATION IN
TEMPERATURES BETWEEN 40 DEGREE CELSIUS AND
DEGREE CELSIUS, CPSA. CASE SAMMARY (MACLADE ALL TIESS IN THE PARE).

CONCRETO LOGA DEMONA PACTOR ESTATION DEBANDO.

1023 19 VA. 100.05% 723.31 VA. 10 480 V 3 480 V 3 LOAD CLASSIFICATION *TOTAL DEMAND CALC CONSULTANT ARCHITECT/ENGINEER OF RECORD STAMP Office of 438-460 **ELECTRICAL SCHEDULES** BID DOCUMENTS CONSTRUCT NEW SPS Construction Building Number ♦IMEG SEGUE and Facilities ANDERSON KRISTEN SPINA POWER TOWN Management Sioux Falls, SD. FULLY SPRINKLERED 18695 1et Ave. II. 83.50 Flymouth, MN 88441 F765.412.4005 | F785.412.4090 | as-ma.com Addrson Engineering of Minoentra, LLC | Pmj \$ 16584 VA U.S. Department of Veterans Affairs Seema Data Chacked E601 02/14/2025 JMK JDR



CONTRACTOR ABBREVIATION KEY					
ABBR: DESCRIPTION:					
A.C.	ASBESTOS ABATEMENT CONTRACTOR	_			
C.C.	CIVIL CONTRACTOR				
C.O.R.	CONTRACTING OFFICER'S REPRESENTATIVE				
E.C.	ELECTRICAL CONTRACTOR				
F.P.C.	FIRE PROTECTION CONTRACTOR				
G.C.	GENERAL CONTRACTOR				
M.C.	MECHANICAL CONTRACTOR				
P.C.	PLUMBING CONTRACTOR				
T.C.	TECHNOLOGY CONTRACTOR				
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR				

SYMBOL:	EQUIPMENT LIST ABBREV.:	DESCRIPTION:	NOTE
CSS	N/A	CONTROLLED SECURITY SCHEME SCHEDULE IDENTIFIER	
□ , <u></u>		CAPD ACCESS READER; LETTER INDICATES AS FOLLOWS: M = MOLINT C - CELING D - DESK F-FLUSH H-HIDDEN M - MULLION P - PEDESTAL R - RACK S - SURFACE W - WALL	-
		T = TECHNOLOGY/TYPE RI - ROUGH-IN B - BARCODE F - ELEVATOR FLOOR CALL H - ELEVATOR HALL CALL M - MAG STRIP P = PROXIMITY S - SMART CARD T - TOKEN	
(3)	PA-S-C	FACILITY PAGING SPEAKER (CEILING)	
Ø	PA-VC-W	FACILITY PAGING VOLUME CONTROL (WALL)	
® WAP	SC-10-C	CEILING INFORMATION OUTLET, DATA COMMUNICATION ONLY, WIRELESS ACCESS POINT	1.
₩	SC-IO-W	WALL INFORMATION OUTLET, TELEVISION	1.
#D	SC-IO-W	WALL INFORMATION OUTLET, DATA COMMUNICATION ONLY	1.
.#D	SC-IO-F	FLOOR INFORMATION OUTLET, DATA COMMUNICATION ONLY	1.
CCTV 4	N/A	VIDEO SURVEILLANCE CAMERA WITH LENS, WALL MOUNT OR CEILING MOUNT	-
	SC-ER-1	FOUR POST EQUIPMENT RACK	
N/A		EXISTING TWO POST EQUIPMENT RACK	
		VERTICAL WIRE MANAGER	
	SC-GND-1	WALL MOUNT GROUND BAR	
***	SC-VPP-1	WALL MOUNT 110 BLOCK	
WIDTH	HEIGHT	CABLE TRAY, CHANNEL TRAY, BASKET TRAY	
WIDTH >	HEIGHT	LADDER RACK	
——DIAMETER® C——		CONDUIT	
		CONDUIT DOWN	
		CONDUIT UP OR UPIDOWN	
G3		CONDUIT SLEEVE	
<u></u>		CONTINUATION	

- ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
- AND ITEMS.
 ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED OF
 THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL.
- INFORMATION. ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYP KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL. INFORMATION. REFER TO RISERS ON SHEET(S): T300.

TECHNOLOGY SYMBOL NOTES:

"#" INDICATES INFORMATION OUTLET FACEFARE COMPUSIVATION, REFER TO INFORMATION OUTLET SCHEDULE ON 1800 FOR ADDITIONAL INFORMATION NOTLET SINGLED BY C.F. PROVIDED FLOOR BOX. "O" INDICATES INFORMATION OUTLET SINGLED BY C.F. PROVIDED FLOOR BOX. "O" INDICATES INFORMATION OUTLET SINGLED INFORMATI

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3. 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2.4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C. [T.C]	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
NURSE CALL ROUGH-IN	T-SERIES	N.C.C. [E.C.]	E.C.	
NURSE CALL EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	N.C.C. [OWNER]		
CABLE TRAY (INCLUDING WIRE BASKET TRAY) REFER TO SPECIFICATION SECTION 27 05 28 FOR DEFINITION	T-SERIES	E.C.	E.C.	
LADDER RACK	T-SERIES	T.C.	T.C.	5.
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	6.
BONDING SYSTEM FOR TECHNOLOGY SYSTEM, REFER TO SPECIFICATION SECTION 27 05 26 FOR DEFINITION	T-SERIES	E.C.	E.C.	7. 8.
CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM	T-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2.4.
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.
TECHNOLOGY SERVICE ENTRANCE CONDUITS, HANDHOLES, AND MANHOLES	[E]T-SERIES	E.C.	E.C.	
FLOOR BOX (ROUGH-IN)	T & E SERIES	E.C.	E.C.	

LOCATIONS OF TELECOMMUNICATIONS ROUGH-INS SHALL BE INDICATED BY THE INFORMATION OUTLET SYMBOLS ON THE DRAWINGS. REFER TO THE TECHNOLOGY SYMBOL LIST FOR

- BASED ON THE INHERENT DIFFERENCES IN PRODUCTS FROM VARIOUS MANUFACTURERS, ALL REQUIRED EQUIPMENT MAY NOT BE SHOWN ON THE DRAWINGS FOR ALL ACCEPTABLE
- MANUFACTURERS.
 INCLUDES BACKBOXES AND CONDUIT REQUIRED FOR THE TECHNOLOGY SYSTEMS INSTALLATION. THE E.C. SHALL BASE THE BID ON THE BASIS OF DESIGN SHOWN ON THE CONTRACT DOCUMENTS.
- CONTRACT DOCUMENTS.

 ALL CHANGES TO THE EXPERTS ADDRESSES CONCULTE AND POWER REQUIRED SECULATE OF CONCULTED AND POWER FOUNDED SECULATE OF CONCULTED AND POWER FOUNDED SECULATE OF CONCULTED AND POWER FOUNDED SEAL OF RECOVERY OF THE CONTRACTOR SHALL OF REQUIRED THE POWER FOUNDED SHALL OF REQUIRED SECURITY OF THE CONCULTED SHALL OF REQUIRED SECURITY OF THE CONCULTED SHALL OF REQUIRED THE CONCULTED SHALL OF REQUIRED SHALL OF THE CONCULTED SHALL OF THE POWER SHALL PROVIDE SHALL OF THE POWER SHALL PROVIDE SHALL PROVIDE

TELECOM ROOM REFERENCES TELECOM ROOM TR-1

	TECHNOLOGY SHEET INDEX	
000	TECHNOLOGY COVERSHEET	
001	GROUND LEVEL OVERALL PLAN - TECHNOLOGY	
002	LEVEL 01 OVERALL PLAN - TECHNOLOGY	
D101	GROUND LEVEL FLOOR DEMOLITION PLAN - TECHNOLOGY	
101	GROUND LEVEL FLOOR PLAN - TECHNOLOGY	
111	INTERSTITIAL/FIRST LEVEL FLOOR PLAN - TECHNOLOGY	
300	TECHNOLOGY ROOM ENLARGEMENTS	
400	TECHNOLOGY DETAILS	
500	TECHNOLOGY RISER DIAGRAMS	
500	TECHNOLOGY SCHEDULES	

TECHNOLOGY GENERAL NOTES:

- 1. ###### INDICATES TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT Business (MOAITES TECHNOLOGY EUDIPMENT SCHEDULE TEM DIBELED AS EUDIP-LIST ABBREVIATION*
 REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.
- TECHNOLOGY MOURTHIG SUBSCRET KEY:

 A MOUNT AT 4° TO CENTER INE ADOVE COUNTER OR BACKSPLASH
 MINE AND THE CONTROL OF THE COUNTER OR BACKSPLASH
 MINE AND THE CONTROL OF THE COUNTER OR BACKSPLASH
 MINE AND THE COUNTER OF THE CO

- A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., AIH.

TECHNOLOGY INSTALLATION NOTES:

- TECHNOLOGY INSTALLATION NOTES:

 1 THE COMPLETE REVIALATION MIS IN ACCORDING WITH THE GAS TRANSMERS FOR ACCESSED, THE STALATION MIS IN EN ACCORDING WITH THE GAS TRANSMERS FOR ACCESSED, THE STALATION MIS IN ENTITIONS, AGRIC CESINO, IN FLOOR SIM, ETC.

 ALESS OF REVIOUS PROVIDED TO THE ACCESSED OF THE ACC

TECHNOLOGY PHASING NOTES

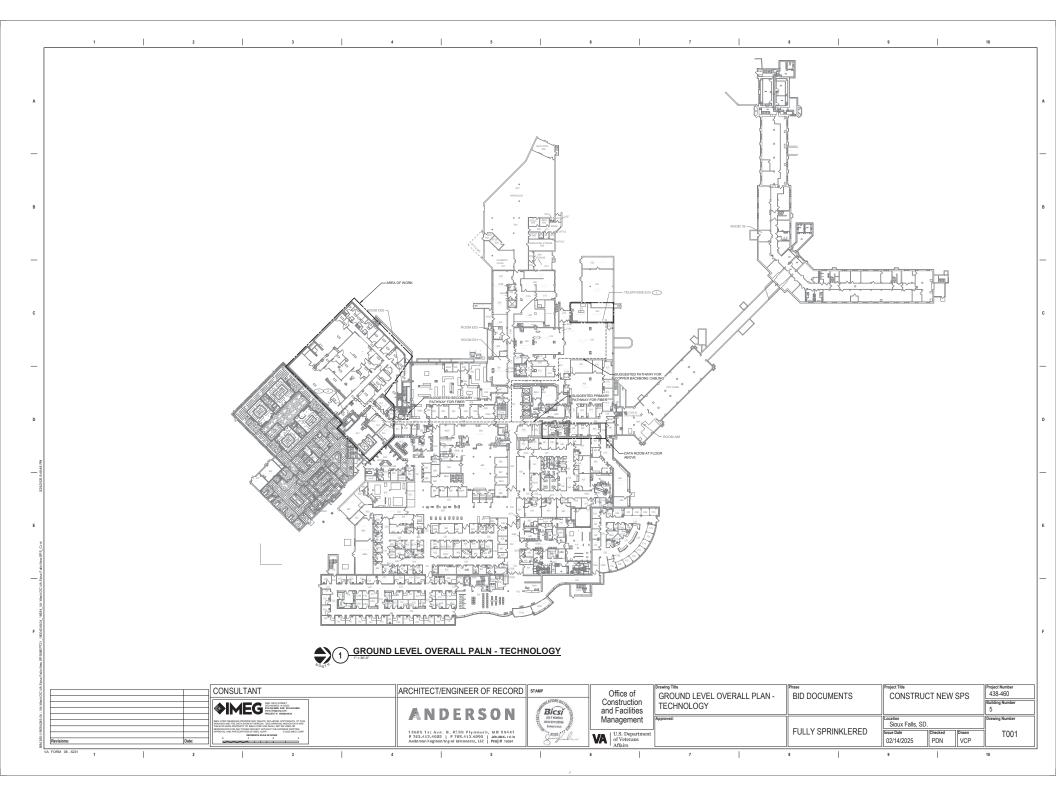
THESE NOTES APPLY TO ALL TECHNOLOGY SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, STRUCTURED CABLING, PAGING, ACCESS CONTROL, CCTV AND NURSE CALL.

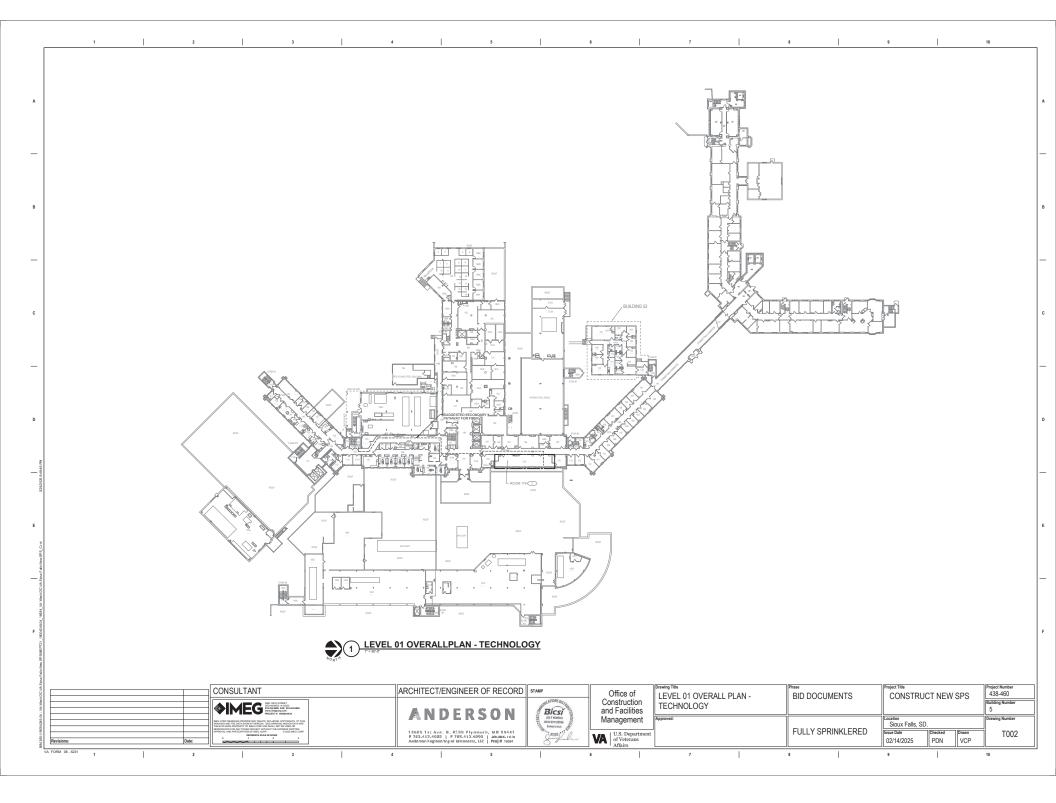
- REPER TO ARCHITECTURAL DRAWNINGS FOR GENERAL DESCRIPTION OF PHASES. REPER TO ARCHITECTS INSTRUCTIONS FOR MORE DETAILS AND PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNICLODY CHANNINGS DEPICT THE WITEM OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL AND TECHNICLODY DRAWNINGS OF ON TEPHCT THE MEANS AND METHODS OF IMEET THE REQUIREMENTS OF DRAWNINGS ON OT DEPICT THE MEANS AND METHODS OF IMEET THE REQUIREMENTS OF
- DRAWINGS DO NOT IDENCT THE MEANS AND METHOUS TO MEET THE EQUINEMENTS OF THE PHASING CRITERIAND PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS. 3. PROVIDE TEMPORARY SYSTEMS AS MEEDED TO MANTAIN SERVICE TO ALL AREAS DURING

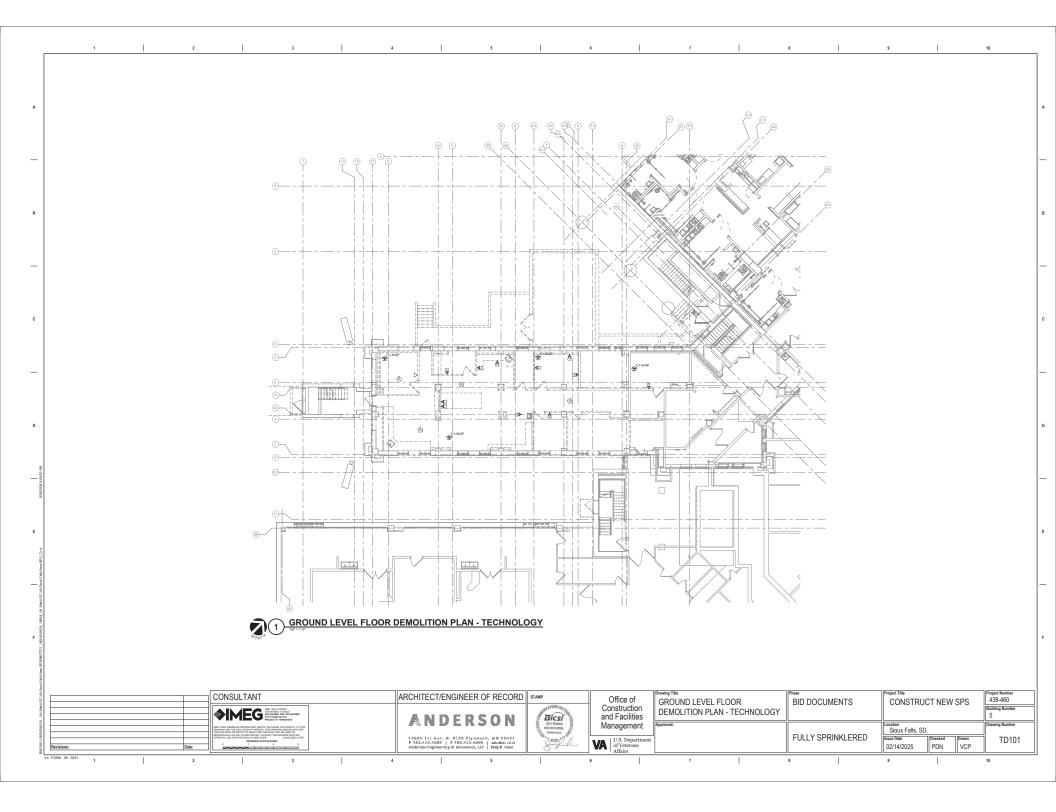
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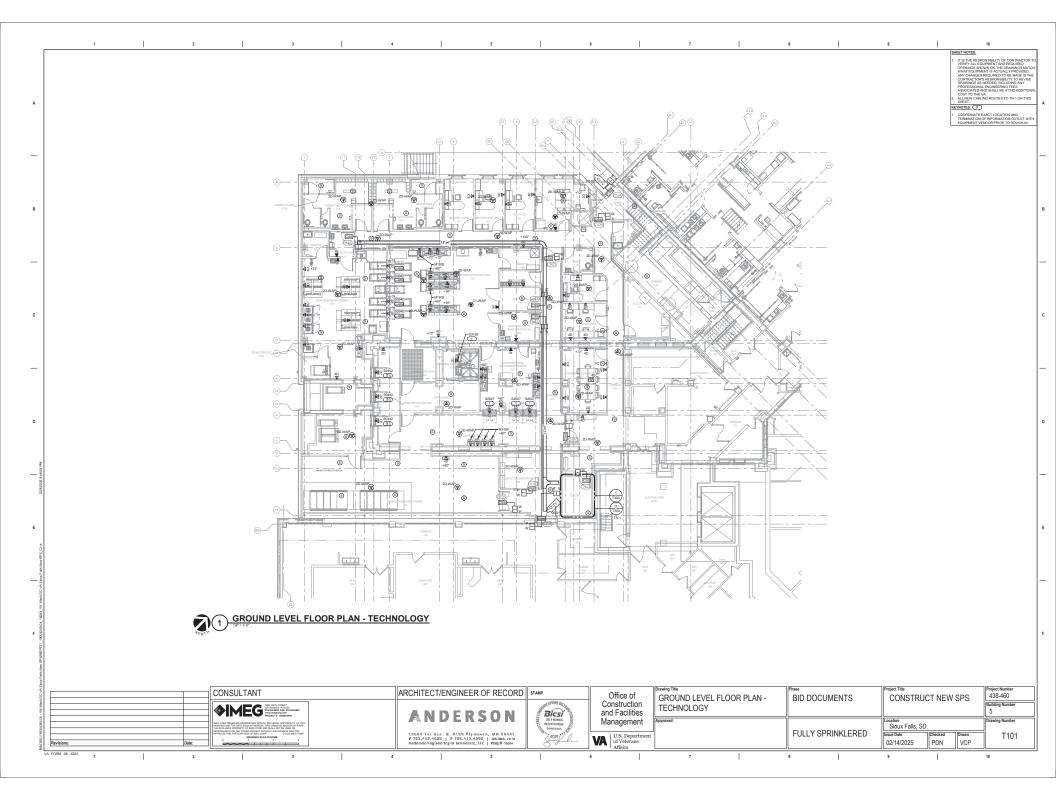
TECHNOLOGY ABBREVIATION KEY			
ABBR:	DESCRIPTION:		
AFF	ABOVE FINISHED FLOOR		
AFG	ABOVE FINISHED GRADE		
BFC	BELOW FINISHED CEILING		
C	CONDUIT		
DE	DELAYED EGRESS		
DPDT	DOUBLE POLE DOUBLE THROW		
FOV	FIELD OF VIEW		
J-BOX	JUNCTION BOX		
POE	POWER OVER ETHERNET		
PTZ	PAN TILT ZOOM		
SIM	SIMILAR		
TYP	TYPICAL		
UON	UNLESS OTHERWISE NOTED		
+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR		
EF-#	ENTRANCE FACILITY		
MC-#	MAIN CROSS-CONNECT		
TR-#	TELECOMMUNICATIONS ROOM		

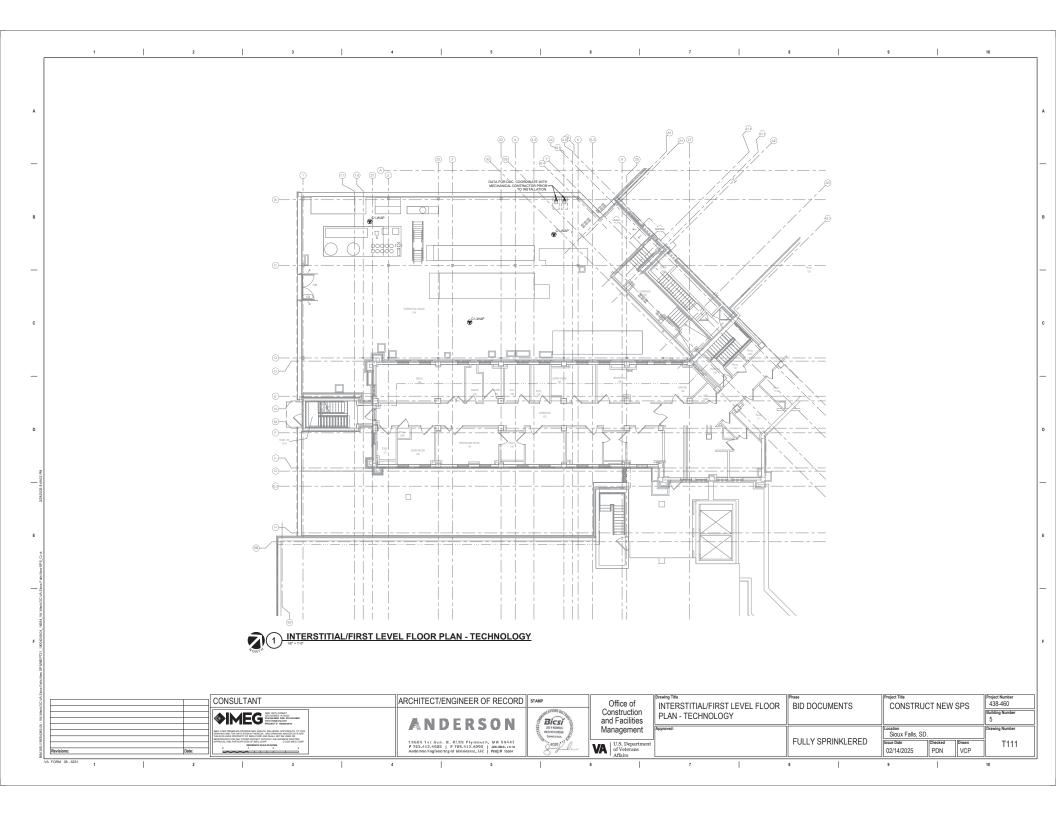
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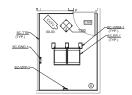














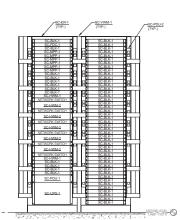
KEYNOTES:

REFER TO 1/T400 FOR GROUNDING DETAILS.
 INFORMATION OUTLET PROVIDED FOR SECURITY CONTROL PANEL. COORDINATE FINAL CONNECTION WITH S.C. PRIOR TO ROUGH-IN.

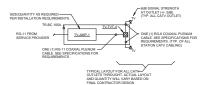




- THIS FLOW DIAGRAM IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUARITIES OF MATERIALS. THIS FLOW DIAGRAM IS SHOWN FOR CLARIFICATION OF CONNECTION LOCATIONS AND CABLE TYPE. REFER TO FLOOR PLANS FOR MORE SPECIFIC ROUTING INFORMATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. REFER TO TECHNOLOGY SCUPINENT SCHEDULE ON SHEET 1500 FOR ADDITIONAL INFORMATION.

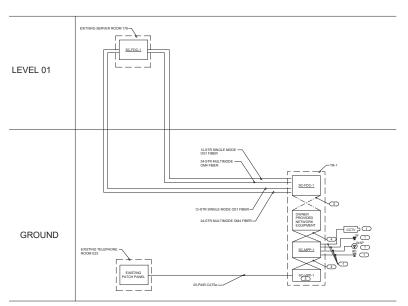


EQUIPMENT RACK ELEVATION - TR-1



6 PARTIAL CATV RISER DIAGRAM

- CONTRACTOR PROVIDE CATV SYSTEM TO ALLOW 6.68 -1-.388 OF ACTUAL OUTPUT AT ALL CATV COLETS ACTUAL MISPELLITER SETTINGS, LAYOUT, AND AMPLESS EXCHOLOGIANTY TO BE RULDLED BY CONTRACTORS FINAL ESSENS SEE SPECIFICATIONS FOR ACCUSTOM, REQUIREMENTS.
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CONNECTIVITY RISER DIAGRAM -TR -1

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KEYNOTES: (#)

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 AND RECTRICAL ROUPEMENT SOURCE FOR ACCIDIONAL RECOMMITION.

 2 M GAUGE, CATA CHI POR CONTROLLE FOR ACCIDIONAL RECOMMITION.

 2 M GAUGE, CATA CHI POR CHI PORTE O PROPER CATA

 8 LE 10 RAIG CATAGORY AND PROPER CHI SING PORTE O PROPERTIONS FOR PATCH

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		THE EXCLUSIVE PROPERTY OF MEG COSP AND SHALL NOT BE LISED OR REPRODUCED FOR ANY OTHER PROLIECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF MEG COSP. OF 2025 MEG COSP. REFERENCE SCALE IN INDIES
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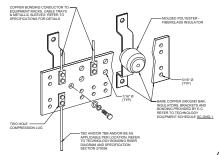


Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

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d:	FULLY SPRINKLERED	Location Sioux Falls, SD. Issue Date 02/14/2025	Checked	Drawn VCP	T300

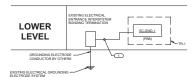


BONDING BUS BAR DETAIL

NOTES:

1. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE SC.GND-1 FOR MINIMUM DIMENSION REQUIREMENTS.

2. REFER TO — IRTERIES—FOR TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM.



2 TECHNOLOGY BONDING RISER DIAGRAM NO SCALE

NOTES:

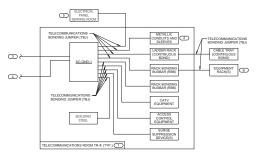
- NOTE:

 1 THE REER IS DIAGRAMMATIC AND MAY NOT SHOW ACTUAL ROUTING OR QUANTITIES OF MATERIALS. THIS REER IS SHOWN FOR LARRICLATION OF COMMETTION LOCATIONS AND CONJUCTION FYRE ACTUAL PROJECT COMMETTING. REFER TO THOSP AND AND ADMIRAGED PLOOP PLANS FOR ACTUAL QUANTITIES AND LOCATIONS OF DEVELOPE AND LOCATION FOR PLOOP PLANS AND BURNESS OF HOUSE AND LOCATION FOR PLOOP PLANS AND LOCATION FOR PLANS

KEYNOTES: (#)

TELECOMMUNICATIONS BONDING CONDUCTOR (TBC). TBC SHALL BE THE SAME SIZE AS THE TBB OR LARGER. REFER TO BONDING CONDUCTOR SIZING SCHEDULE FOR SIZING REQUIREMENTS.

BONDING CONDUCTOR SIZING SCHEDULE					
CONDUCTOR LENGTH IN FEET	MINIMUM ACCEPTABLE SIZE - AWG				
ESS THAN 13'	6				
4" - 20"	4				
1' - 26'	3				
7' - 33'	2				
4' - 41'	1				
2 - 52	1/0				
3" - 66"	2/0				
7' - 84'	3/0				
5' 105'	4/0				
06' - 125'	250 komil				
26' - 150'	300 komil				
51' - 175'	350 kcmil				
76' - 250'	500 komil				
51' - 300'	600 komil				
REATER THAN 301"	750 komil				



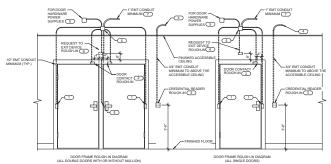
3 TYPICAL TELECOM ROOM BONDING FLOW DIAGRAM

- NOTES: OF DISCRIMENT DESCRIPTION OF MAY THE OWN THE OW

KEYNOTES:

- REFER TO TELECOM ROOM REFERENCES SCHEDILE FOR TELECOMMUNICATIONS ROOM NUMBER AND LOCATION NFORMATION.
 INCLUDES HORIZONTAL AND VERTICAL CONDUIT SELECES FOR TECHNOLOGY CAELING.
 TELECOMMUNICATIONS BOXOMIC SENDONE (TIBS). REFER TO TELECOMMUNICATIONS BOXOMIC SENDONE (TIBS). REFER TO TELECOMMUNICATIONS BOXOMIC CONDUCTOR (TIBC). TO EXSTRUCT RECOMMUNICATIONS BOXOMIC CONDUCTOR (TIBC). TO EXSTRUCT RECOMMUNICATIONS BOXOMIC CONDUCTOR (TIBC).
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W S	Revisions: Date:		Auderson Engineering of Minnesetts, LLC Pmj # 16584	00	Affairs			02/14/2025 PDN VCP	



CONTROLLED SECURITY SCHEME DOOR ROUGH-IN DETAIL NOTES:

- CONTROLAR THE SHOWN IN THE SETTLE MODE ARE INDUMBNETS. INTO EACH TO IDENTIFY THE CONTROL OF SECURITY CHARLES COLUMN RECOGNISHED THE CONTROL OF SECURITY CHARLES COLUMN RECOGNISHED THE CONTROL OF SECURITY CHARLES COLUMN RECOGNISHED THE COLUMN RECOGNISHED AND COME HAVE CONTROL OF SECURITY CHARLES COLUMN RECOGNISHED AND COME HAVE COLUMN RECOGNISHED AND COLUMN RECOGNISHED AND COLUMN ADDITIONAL COLUMN RECOGNISHED AND COLUMN RECOGNISHED AN

- DISTORAGE.

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KEYNOTES:

- NEMBERS (2)

 1. PROVIDE JANCTON BOXES IN THE DOOR FRAME WHERE SHOWN ON THIS DETAIL. ROUGH IN SHALL BE PROVIDED WHETHER THE CURRENT SECRIFFY SCHOOL TILL SECRIFFY SCHOOL THE SECRIFFY SCHOO

- END.
 8. CONDUIT INSTALLED IN PERMANENT MULLIONS ONLY. REFER TO THE ARCHITECTURAL DOOR SCHEDULE AND DOOR HARDWARE GROUPS FOR LOCATIONS THAT REQUIRE THIS ROUGH-IN. PROVIDE A NYLON BUSHING ON THE CONDUIT END.



(4)

- 1. DOOR DESCRIATES THE ACCESS COURTIO, SCHEME AT EACH TOORS LOCATION, RETERT TO 1881.TITUS OF REQUIREMENTS.
 2. THIS RESERS DEADMANIANT CAN HOST METHEOR TO BOW WATURE NOTIONS AND COUNTY THE RESERVE SHOWN FOR CLAREFACTION OF COUNTY CONTIONS AND CAUSE THYE. THIS RESERVE IN FOR PERSONNEL ALL DOOR CONFIDENTIATION, REPERT TO THE ACCESS THE ACCESS OF THE ACCESS OF THE RESERVE AND CONTIONS. REPERT TO ACCESS THE ACCESS OF THE A

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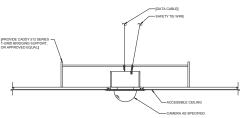
- KEYNOTES: #
- INCIDENT OF MONTH DESIGNATION OF MODELER ACCORDING TO MINEFACTURES PROPERATIONS. REFER TO SECURATION SECTION 28 13

 1. MONTH DESIGNATION OF MODELER CONTRACTOR SHALL PROVIDE 1 MANY 2 COMMUNITY REPORT MATERIAL PROVIDED SHALL PROVIDE 1 MANY 2 COMMUNITY REPORT MATERIAL PROVIDED SHALL PROVIDE 1 MANY 2 COMMUNITY REPORT MATERIAL PROVIDED SHALL PROVIDE 1 MANY 2 COMMUNITY REPORT MATERIAL PROVIDED SHALL PROVIDE 1 MANY 2 FARM AND 2 SHALL PROVIDED SHALL PROVIDE 1 MANY 2 FARM AND 2 SHALL PROVIDED WHITE MAY 2 COMMUNITY REPORT MATERIAL PROVIDED SHALL PROVIDE 1 MAY 2 FARM AND 2 SHALL PROVIDED WHITE MAY 2 FARM AND 2 SHALL PROVIDED SHALL PROVIDE 1 MAY 2 FARM AND 2 SHALL PROVIDED WHITE MAY 2 FARM AND 2 SHALL PROVIDED SHALL PROVIDED SHALL PROVIDED SHALL PROVIDED SHALL PROVIDE 1 MAY 2 FARM AND 2 SHALL PROVIDED SHALL PROVIDED

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- REMOTE DOOR RELEASE SWITCH AND CABLE. REPERT TO FLANS FOR EACH TO CATONIC CONTRICTOR SHALL PROVIDE WIRING FROM COOL CONTRACTOR SHALL PROVIDE MINIMAL WAY AND ACCONDACTOR SHALL PROVIDE WIRING FROM COOL VLX TAKE PROVIDE PICHANIA USE AND AND ACCONDACTOR SHALL DO SHALL DO SHALL SO THE SHALL SHALL FOR THE SHALL SHALL TO THE SELECTIVE CONTRICLES PROVIDE SHELD DISK AND VLX TAKE PROVIDE PICHANIA CHARLES FROM LIAL SOO IS CAUGHT SHAPE AND THE SELECTIVE CONTRICLES PROVIDE SHELD DISK SHALL SHAL



3 ACCESSIBLE CEILING CAMERA MOUNT AND ROUGH-IN DETAIL

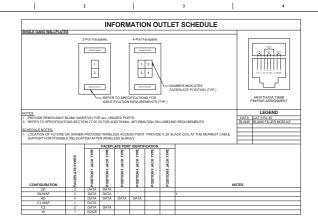
NOTES:

- CONSTRUME EARLY LOCATION ON DITE WITH HOME OF OTHER TRACES TO DELIVER DESIRED VIEW ARRANGE ACCESS AFTER CONCENTRON OF PROJECT AND TO MANAGE ANY POSSIBLE DAMAGE TO NISTRALED CAMERA OR ASSOCIATED CAREINO. HIS LOCATION OF THE CONTROL OF THE CONTROL

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ELECTRONIC	DOOF	R HARDWARE S	UCH	AS EL	ECTR	IIC ST	RIKES	, ELE	CTRIC	LATO	H RE	TRAC	TION,	ETC.	SHALI	L BE F	PROVI	DED .	AND II	STAL MATI	LED B	YOTH	IERS. I	REFE	RTOT	HE G	ENER	AL TE	CHN	OLOG	BY EQUIPMENT SCHEDULE ON X/XXX FOR CREDENTIAL READER TYPE
										REQUEST TO											OTH	HER (REFE	R TO							
		CREDENT		EADE	R					NTEG	RATIO	N_					EXI		_		DC	OR H	ARDW	ARE	_	_	_	NO	TES)	_	
DOOR#	ROUGH-IN OMLY	CREDENTIAL READER TYPE	MULTIPLE CREDENTIAL READERS OP ERATES SINGLE DOOR	O PERATES MULTIPLE DOORS	WRELESS	AUTOMATIC DO OR OP ERATOR	ELEVATOR	LOCKED BY EMERGENCY DURESS SEQUENCE	INFANT PROTECTION	REMOTE UNLOCK VIA INTERCOM MASTER	REMOTE UNLOCK VIA PUSHBUTTON	INTRUSION DETECTION	REMOTE UNLOCK VIA FIRE COMMAND CENTER	VIDEO SURVEILLANCE	WANDER PREVENTION SYSTEM	INTERNAL ELECTRIFED HARDMARE CONNECTION	LO CAL PUSHBUTTON DOOR HARDWARE OVERRIDE	MOTION DETECTOR	ELECTRON	MAGLOCK	LATCH STATUS DETECTION	LO CAL ALARM HORN	MONITORLATCH BOLT	MONITOR DOOR POSITION SWITCH SPDT	MONITOR DOOR POSITION SWITCH DPDT	MONITOR DOOR POSITION SWITCH FOR OVERHEAD DOOR	DELAYED EGRESS	LOCAL 120VAC POWER SUPPLY	SCHEDULE BASED LOCKING	VISUAL STROBE	MOTES
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C51B	П	CR1, CR1						Т	Т								Т	Т		Т	Т		Т								
C51C	П	CR1					Т	Т	Т								Т	Т		Т	Т										
C52A	П	CR1						Т	Т		Т						Т	Т		Т	-								Т		
C52B		CR1																													
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	INDIVIDUAL CAMERA REQUIREMENTS SCHEDULE														
:AMERA#	CAMERA TYPE	TELECOM ROOM#	FIELD OF VIEW DESCRIPTION	DETAIL REFERENCE	FRAME RATE	PERCENT MOTION	ADDITIONAL INFORMATION	NOTES							
00-01	CM-1	TR-1	GENERAL VIEW OF ENTRANCE	3/T500	15	80									
00-02	CM-1	TR-1	GENERAL VIEW OF ENTRANCE	3/T500	15	80									
00-03	CM-1	TR-1	GENERAL VIEW OF ENTRANCE	3/T500	15	80									

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7 TECHNOLOGY EQUIPMENT SCHEDULE THE COUPMENT LIST ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED. WHETHER SPECIFIED OR NOT, TO PRODUCE A SATISFACTORY CATALOG NUMBERS ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIAL. NO MATERIAL SHALL BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE MATERIAL ON THESE... EQUIPMENT LIST DESCRIPTION CONTROL SYSTEM DOOR SCHEDULE FOR COMPLETE INFORMATION SECURITY MANAGEMENT SYSTEM REFER TO ACCESS CONTROL SYSTEM DOOR SCHEDULE FOR COMPLETE INFORMATION, CARD READERS SHOWN ON PLANS TO IDENTIFY INTENDED MOUNTING LOCATION, REFER TO SPECIFICATION SECTION 26 13 00 FOR COMPLETE INFORMATION. HID PIVCLASS REFER TO 1/14/00 FOR CONTROLLED SECURITY SCHEME DOOR ROUGH-IN DETAIL FOR ADDITIONAL INFORMATION. CARD READER PROVIDED AS INTEGRAL PART OF SECURITY MANAGEMENT SYSTEM. REFER TO CONTROLLED SECURITY SCHEME (CSS) TYPE SCHEME ON THEM FOR ADDITIONAL INFORMATION. ADER READERS HOPINO IN PLANS TO IDENTIFY INTENDED MOUNTING LOCATION. REFER TO SPECIFICATION SECTION 28 13 00 FOR COMPLETE INFORMATION. IO SUBSTITUTIONS NFORMATION. CEILING SPEAKER. DUAL CONCENTRIC 8" LOW FREQUENCY DRIVER WITH 1" HIGH FREQUENCY DRIVER. THE SPEAKER SHALL HAVE A CONICAL COVERAGE PATTERN OF 100 DEGREES (1KHZ TO 6KHZ), FREQUENCY RESPONSE MEASURED ON AXIS SHALL BE 40 HZ - 35 KHZ WITH NO EQUALIZATION. SENSITIVITY SHALL BE 92 DB (1W PRIOR VISE MEMOUREU VIR AXIS SHALL BE 40 NZ - 35 KHZ WITH NO EQUALIZATION. SENSITIVITY SHALL BE 50 DB (TW GIM). LION TERM POWER HANDLING CAPACITY AS DEFINED IN EA4-28B TEST SHALL BE 500. VIYAMICH HIGH FREQUENCY PROTECTION IS PROVIDED FOR OCCASIONAL OVERPOWERING. THE NOMINAL SYSTEM IMPEDANCE SHALL BE 5 OWNS (IN LOW MIRPOANCE SETTING). ENCLOSURE: EZ96-8 VA HAS RATED PA SYSTEMS AS PUBLIC SAFETY AND LIFE SAFETY IF CARRYING CODE BLUE SIGNALS AND SHALL BE PROTECTED IN CONDUIT ANDIOR TELECOMMUNICATIONS RATED PARTITIONED CABLE TRAYS (ALSO WIRE BASKETS) AND CONDUIT FROM CABLE TRAY TO LOCAL BACK BOX FLEX CONDUIT MAY BE USED IF THE BACK BOX IS WITHIN THREE (3) FEET OF THE CABLE TRAY. PROVIDE CEILING SPEAKER SAFETY WIRES OR FLEX CONDUIT BETWEEN THE BACK BOX AND THE SPEAKER CEILING HOUSING TO SAFETY THIS REQUIREMENT. DA WOW SC-BLK-1 BLANK PANEL, 1RU, FLAT R PRE-APPROVED SABLE STRAY, WINES LIBERT PYTE, ST. LOCKING DESTITY, IST WIGHT, CORPLETE WITH ALL STITURGS AND BOUNTING. HARDWARE FROWNER TRAVERSE LIBERTORY WITH PLANTING RETIMERS CHILD WITHOUT OF THE MESSAND CHILD TO STRAIL BE DONE WITH OFFSET BOLD CUTTERS ONLY. IS MAXIMAIN SUPPORT SPAN, ETHER SPLICE WASHERS OR TREMINAL GROUNDS SUPPORTED AND LABORATIVE SHALL BE LIBERT OR ATTAIN ADMINISTRATION CHILD CHILD THROUGHOUT. OR PRE-APPROVED EQU. Z-BRACKETS SHALL BE USED FOR WALL MOUNTED APPLICATIONS, REFER TO MANUFACTURERS INSTALLATION INTROCED AND SPECIFICATION SECTION 27 05 28 FOR ADDITIONAL INFORMATION, PROVIDE CABLE PATHWAY SEPARATOR AT 5' INTERVALS TO PROVIDE SEPARATE PATHWAYS FOR VOICEIDATA AND NURSE CALL VS. SECURITY NO PAGINO. STANDARD 19' COUPMENT RACK 84'H X 19'W X 3'D. FEATURING PASS-THRU HOLES ON PRONT AND SIDES FOR CABLE ORTRONICS MANAGEMENT, DURABLE BLACK POWDER COAT FINISH, MEETS EIA-310-E REQUIREMENT AND PROVIDES (46) 19'X 1.75' MM2073038-W DOINTING SPACE. OVIDE WITH TOP CENTER WATERFALL, TOP CHANNEL PATHWAY FOR LADDER RACK, AND ANY ADDITIONAL ROWARE FOR COMPLETE INSTALLATION. REFER TO SPECIFICATIONS SECTION 27 11 00 FOR ADDITIONAL ORMATION. IU ANGLED FIBER DISTRIBUTION ENCLOSURE. 144 MAXIMUM FIBERS WITH SLIDING TRAY. LEVITON HDX1A-144 PROVIDE COMPLETE WITH FIBER ADAPTER PANELS WITH LC CONNECTORS FOR ALL TERMINATED FIBERS. PROVIDE SLANK PANELS FOR ALL UNUSED OPENINGS. FIBER ADAPTER P. SPLCH-12A (OM4) SPLCH-12L (SM) ROVIDE CABLE CLAMP KITS AS REQUIRED, SRCMP-KIT. CABLE MANAGER: E2XHD-CMB

WALL-MOINT GROUND BAY, "I'N I'Y C X H'P D OPPRIE BECTRICALLY BICATED BY RIBLATORS BYTEGRA. TO TO ACCUMBACKET BY SPACED TWO-LAKE COMPRESSION, LUGS AND THREE (I) BETS OF 7HE HALE SPACED TWO CONTRETO TO ACCUMBACT "OF SPACED TWO-LESS COMPRESSION, LUGS AND THREE (I) BETS OF 7HE HALE SPACED TWO CONTRETO THE COMPANION OF SPACED TWO ACCUMPANION, LUGS AND SHEEPINGARD AND GROUND CONTRETO THE PROPERTY OF THE SPACED TWO ACCUMPANION OF THE SPACED THREE SPACED THREE

2RU HORIZONTAL CABLE MANAGER FOR 19' RACK MOUNTING, SINGLE SIDED, BLACK. FRONT COVER WITH HINGE CLIPS. 8.86" DEEP.

"9" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE DRAWINGS, REFER TO INFORMATION OUTLET SCHEDULE ON 1600 FOR ADDITIONAL INFORMATION.

INSTALL INFORMATION DUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING, MOUNT TO CLOSEST STRUCTURE ELEMENTS (EX. COLUMN). INSTALL A DELUXE CORD GRIP FOR STRAIN RELIEF ON UTP CABLE. PROVIDE 20'

COIL OF UTP CABLE AT OUTLET LOCATION. INSTALL A 1" ENT CONDUIT o" BEYOND BOX AND TERMINATE WITH NYLON BUSHING. PROVIDE REMOVABLE BLANK INSERTS FOR UNUSED PORTS. REFER TO SPECIFICATION SECTION 27 15 00 FOR ADDITIONAL INFORMATION. FORMATION OUTLET, FLOOR MOUNT, 4-PORT COVERPLATE AS INDICATED ON DRAWINGS

"INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE PLANS. REFER TO NFORMATION OUTLET SCHEDULE FOR PIN CONFIGURATION. INSTALL INFORMATION CUTLET IN E.C. PROVIDED FLOOR BOX. COORDINATE ADDITIONAL MOLATING REQUIREMENTS I.EUTON WITH E.C. PROVIDED FLOOR BOX. COORDINATE ADDITIONAL MOLATING REQUIREMENTS I.EUTON WITH E.C. PROVIDE (1) *FEAT CONDUIT TO THE NEAREST ACCESSIBLE CELING. PROVIDE REMOVABLE BLANK INSERTS IN 1110-RW/8

"#" INDICATES INFORMATION OUTLET FACEPLATE CONFIGURATION AS INDICATED ON THE DRAWINGS. REFER TO INFORMATION OUTLET SCHEDULE ON TS00 FOR ADDITIONAL INFORMATION.

INSTALL INFORMATION OUTLET IN A 4" SOLVARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO NEAREST ACCESSIBLE CELLING UNLESS OTHERWISE NOTED. PROVIDE REMOVABLE BLANK INSERTS I UNUSED PORTS. REFER TO S NOTED MODITI AD DATOU DANCE. DADY MODINE AS MODITI AD DITACTEDMINIATIONIS MODINES DIDECTES TO CIATRA

MODULAR POWER DISTRIBUTION SYSTEM, RACK MOUNT, 2RU, THREE PHASE, A-B POWER REDUNDANCY, 30 AMP 3 PHASE, 120/208V, 5-WIRE WITH (4) L21-30R, (6) 5-20R, AND TWO 10' POWER CORDS.

ETITIES AND THE IDEA, THE EXECUTE INCIDENCE LIBERCATE AND ALONG SCIENCE AND AND ALONG SCIENCE AND AND ALONG SCIENCE AND

OVIDE WITH ANGLED PANEL COVER

SC-IO-C

SC-PDIL2

OR PRE-APPROVED EQUAL
INFORMATION OUTLET, CEILING MOUNT, 2 PORT COVERPLATE AS INDICATED ON DRAWNINGS AND INFORMATION OUTLET COVERPLATE
SCHEDULE, REFER TO INFORMATION OUTLET SCHEDILE ON TROS FOR PIN CONFIGURATION INFORMATION.
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BLANKS 5F100-PLT R PRE-APPROVE

CPI 40153-012

SURFACE MOUNT BOX LEVITON 41089 SERIES

JACK: LEVITON CAT6 610G-R06 SERIES

FACEPLATE: LEVITON 42080-4WL

LEVITON 402080-4WS (4-PORT)

SURFACE MOUNT BOX LEVITON 41089 SERIES

BLANKS *1084-0BE CABLE MANAGER E2XHD-CMB R PRE-APPROVE

EATON BLADEUPS

OR PRE-APPROVED EQUAL

	TECHNOLOGY EQUIPMENT SCHEDULE											
	T ABBREVIATIONS AND THE GENERAL TECHNOLOGY EQUIPMENT SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTR BILE FOR VERIFICATION OF QUANTITIES AND SHALL FURNISH ALL MATERIAL REQUIRED, WHETHER SPECIFIED OR NOT, TO											
	ARE NOT TO BE CONSIDERED COMPLETE BUT ARE GIVEN ONLY TO AID THE CONTRACTOR IN THE SEARCH FOR MATERIA FACTURER AND CATALOG NUMBER ONLY. EACH CONTRACTOR SHALL FIRST READ THE COMPLETE DESCRIPTION OF THE											
EQUIPMENT LIST ABBREVIATION	EQUIPMENT LIST DESCRIPTION	MANUFACTURER AND MODEL										
SC-VPP-1	VOICE PATCH PANEL, 110 BLOCK, S0-PAIR, PROVIDE WITH MOUNTING LEGS AND ALL ACCESSORIES, SEE SPECIFICATIONS. PROVIDE WIRE MANAGEMENT PANEL WITH EACH PATCH PANEL.	COMMSCOPE SYSTIMAX 110-AW2 SERIES										
		OR PRE-APPROVED EQUAL										
SC-VWM-1	VERTICAL WIRE MANAGER, DOUBLE SIDED, 6'(W) X 23.5'(D) X 84'(H) MODULAR D-RINGS ON FRONT OF VERTICAL ORGANIZERS, METAL HINGED DOORS PROVIDE TWO PER RACK, TOP CENTER WATERFALL, TOP CHANNEL PATHWAY FOR LADDER RACK	COMMSCOPE SYSTIMAX VCM-DS-84-6										
	on basic room.	OR PRE-APPROVED EQUAL										
SC-WP-W	NFORMATION OUTLET, WALL PHONE. PROVIDE (1) RJ-45 JACK FOR VOICE AT +48" AFF FOR WALL HUNG PHONE.PROVIDE WITH STAINLESS STEEL FACEPLATE, MATING LUGS.	FACEPLATE: LEVITON 4108W-1SP										
	INSTALL INFORMATION OUTLET IN A 4" SQUARE BACKBOX WITH A SINGLE GANG PLASTER RING. INSTALL A 1" EMT CONDUIT TO NEAREST ACCESSIBLE (ACQUISTIC OR TILED) CEILING.	JACK:										

Sious			1			Drawing Title	[0	Project Title	Project Number
S-S		CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of	1 3 11	BID DOCUMENTS	CONSTRUCT NEW SPS	438-460
Wash		◆IMEG PRESENT RESISTANT		MUNICATIONS DISTRIB	Construction	TECHNOLOGY SCHEDULES	DID DOCOMENTS	CONSTRUCT NEW SPS	Building Number
*			ANDERSON	BICSI	and Facilities Management				5
4249.0		MIGG COSP RESERVES PROPRIETARY PROVIDE INCLUDING COPYRIGHTS, TO THIS DRIVENIA AND THE DATA SHICKEN THE RESERVE AND THE DATA SHICKEN THE RESERVE AND DRIVE THAT SHICKEN THE RESERVE AND DRIVE THAT SHICKEN THE RESERVE AND DRIVE THAT SHICKEN THE RESERVE AND T	ANDERSON			Approved:		Sioux Falls, SD.	Drawing Number
008,,,,18		REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE DOPRESS WRITTEN APPROVAL AND PROTESTATION OF BEEL COIPP. 2 AND SEED CORP. 2 AND SEED CORP.	18695 1st Ave. H. #186 Plymouth, MN 88441 F763.412.4088 F768.412.4090 as-ms.com		U.S. Department of Veterans		FULLY SPRINKLERED	Issue Date Checked Drawn	T600
3FM 3-00	Revisions: Date:	1 2 1	Auditmen Engineering of Minnesista, LLC Proj # 16584	Juli	of Veterans Affairs			02/14/2025 PDN VCP]