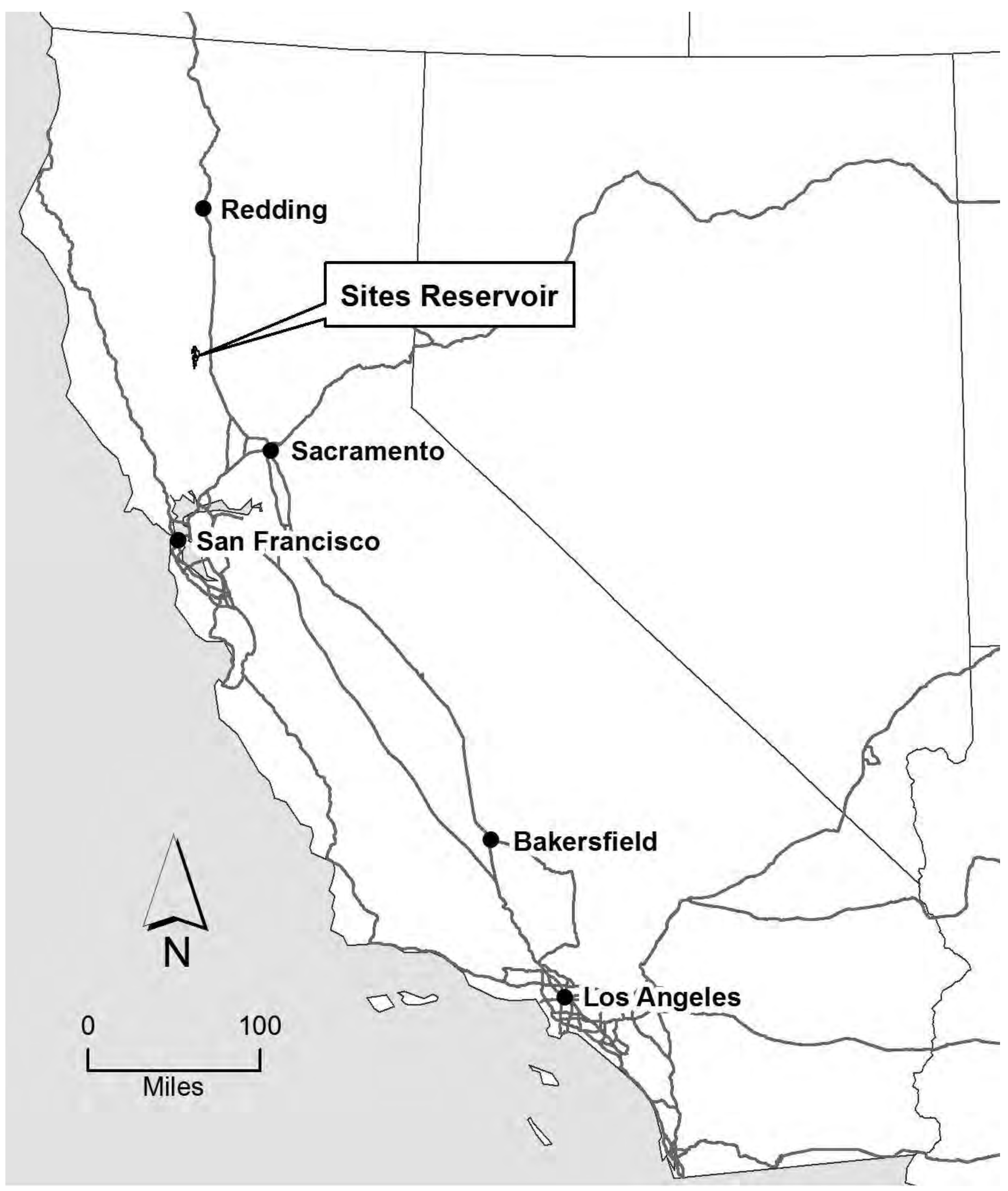
# SITES RESERVOIR

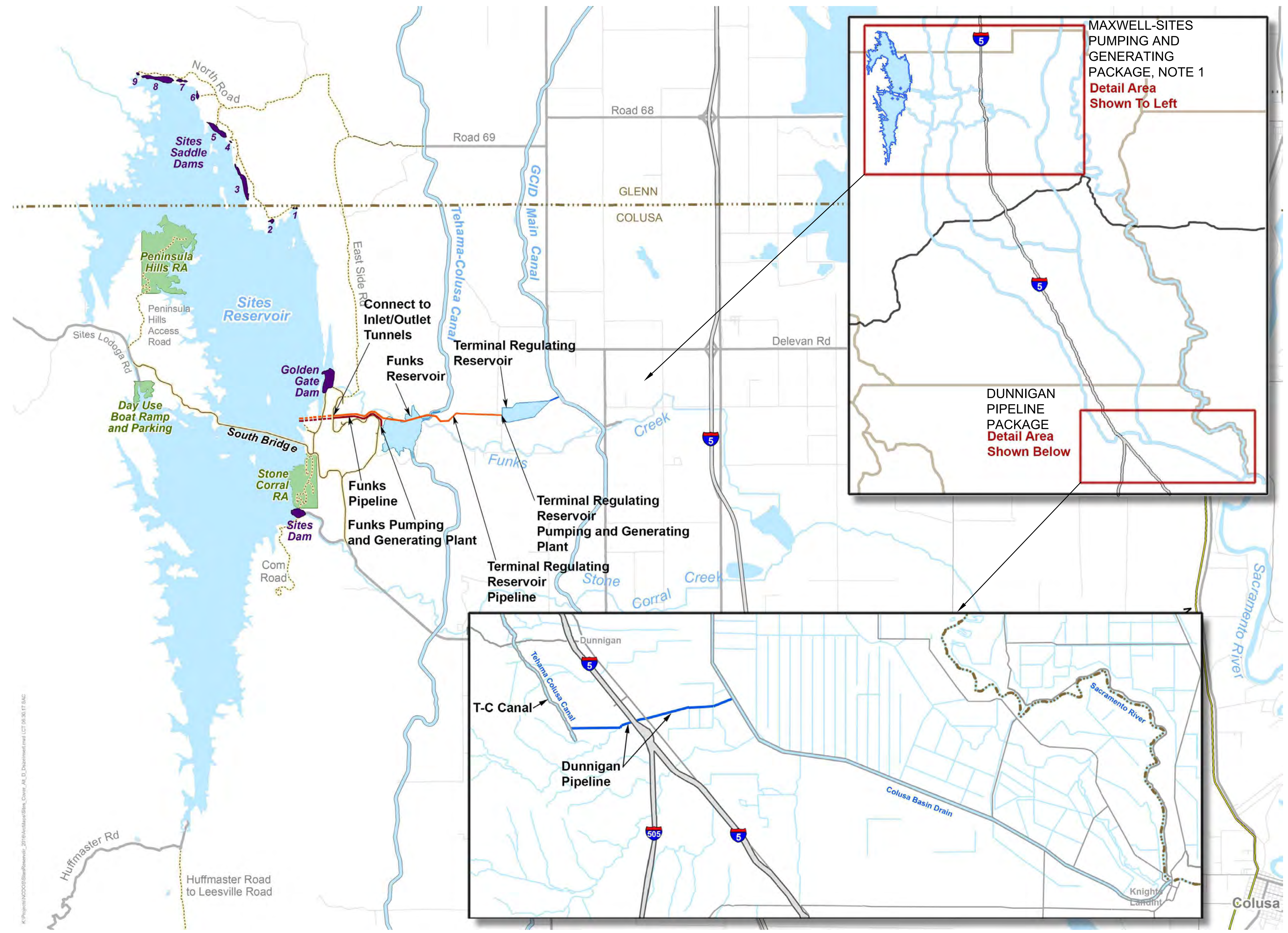
# MAXWELL / SITES PUMPING AND GENERATING PROJECT ELECTRICAL DISTRIBUTION TO I/O TUNNEL, SITES DAM AND TRR CHECK STRUCTURES

## 30% DESIGN - CLIENT REVIEW

## FEBRUARY 14, 2024




PROJECT LOCATION MAP




OVERALL PROJECT SITE MAP - DUNNIGAN PIPELINE NOT INCLUDED IN THIS PACKAGE

NOTE 1: DUNNIGAN PIPELINE PACKAGE NOT INCLUDED IN THIS PACKAGE

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

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Sites

SITES RESERVOIR
MAXWELL / SITES PUMPING AND GENERATING
GENERAL
COVER SHEET,
LOCATION MAP AND SITE MAP

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0001-G-0001
SHT 1 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

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Plot Date: 2/13/2024 1:55 PM
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| | |
|---|---|
| @ | AT |
| L | ANGLE |
| A/C | AIR CONDITIONING |
| A/C UNIT | AIR CONDITIONING UNIT |
| AB | ANCHOR BOLT, AGGREGATE BASE |
| ABUT | ABUTMENT |
| ABV | ABOVE |
| AC | ALTERNATING CURRENT, |
| | ASPHALT CONCRETE BASE |
| ACC | ACCESSIBLE |
| ACI | AMERICAN CONCRETE INSTITUTE |
| ACR | ACRYLIC PLASTIC |
| ACS DR | ACCESS DOOR |
| ACS PNL | ACCESS PANEL |
| ACSR | ALUMINUM CABLE STEEL REINFORCED |
| ACST | ACOUSTIC |
| ACT | ACOUSTICAL CEILING TILE |
| ADDM | ADDENDUM |
| ADH | ADHESIVE |
| ADJ | ADJACENT, ADJOINING, ADJUSTABLE, ADJUST |
| ADO | AUTOMATIC DOOR OPERATOR |
| AFF | ABOVE FINISHED FLOOR |
| AGGR | AGGREGATE |
| AHR | ANCHOR |
| AHU | AIR HANDLING UNIT |
| AI | AREA INLET |
| AIC | AMPERE INTERRUPTING CAPACITY |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION |
| A.L. | ACTIVE LEAF |
| ALT | ALTERNATE |
| ALUM | ALUMINUM |
| AMB | AMBIENT |
| AMP | AMPERE |
| ANOD | ANODIZE |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE |
| APPD | APPROVED |
| APPROX | APPROXIMATE |
| ARCH | ARCHITECT |
| ARFCD | AMERICAN RIVER FLOOD CONTROL DISTRICT |
| ARI | AMERICAN REFRIGERATION INSTITUTE |
| ARN | ARCADE CREEK NORTH |
| ARS | ARCADE CREEK SOUTH |
| ARV | AIR RELEASE VALVE |
| ASB | ASBESTOS |
| ASC | ABOVE SUSPENDED CEILING |
| ASPH | ASPHALT |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS |
| ATC | ACOUSTICAL TILE CEILING |
| AUTO | AUTOMATIC |
| AVE | AVENUE |
| AVG | AVERAGE |
| AWG | AMERICAN WIRE GAUGE |
| AWT | ACOUSTICAL WALL TREATMENT |
| BB | BEGINNING OF BRIDGE, BULLETIN BOARD |
| B-B | BACK-TO-BACK |
| BC | BEGIN HORIZONTAL CURVE, BOOKCASE |
| BD | BOARD |
| BDRY | BOUNDARY |
| BEG | BEGIN |
| BEJ | BRICK EXPANSION JOINT |
| BEV | BEVEL |
| BFV | BUTTERFLY VALVE |
| BITUM | BITUMINOUS |
| BJT | BED JOINT |
| BK | BACK |
| BKF | BACKFILL |
| BL | BUILDING LINE |
| BLDG | BUILDING |
| BLKT | BLANKET |
| BLVD | BOULEVARD |
| BLW | BELOW |
| BM | BENCHMARK |
| BMP | BEST MANAGEMENT PRACTICE |
| BO | BOTTOM OF |
| BOT | BOTTOM |
| BP | BEGINNING POINT, BACK PLASTER(ED) |
| BR | BRIDGE |
| BRCG | BRACING |
| BRDG | BRIDGING |
| BRG | BEARING |
| BRG PL | BEARING PLATE |
| BRK | BRICK |
| BRKT | BRACKET |
| BRZ | BRONZE |
| BS | BOTH SIDES |
| BSMT | BASEMENT |
| Btu | BRITISH THERMAL UNIT |
| BtuH | BTU PER HOUR |
| BTWN | BETWEEN |
| BV | BALL VALVE |
| BUR | BUILT-UP ROOFING |
| BVC | BEGIN VERTICAL CURVE |
| BW | BOTH WAYS, BARBED WIRE |
| CAB | CABINET |
| CAP | CAPACITY |
| CARV | COMBINATION AIR RELEASE VALVE |
| CB | CATCH BASIN, CEMENT BENTONITE |
| CBD | COLUSA BASIN DRAIN |
| C-C | CENTER-TO-CENTER |
| CCS | CALIFORNIA COORDINATE SYSTEM |
| CCT | CUBICLE CURTAIN TRACK |
| CCTV | CLOSED CIRCUIT TELEVISION |
| CE | COVER ELEVATION |
| CEM | CEMENT |
| CEM PLAS | CEMENT PLASTER |
| CER | CERAMIC |
| CFDM | COFFER DAM |
| CFI | CONDUCTIVE FLOORING |
| CFLG | COUNTERFLASHING |
| CFM | CUBIC FEET PER MINUTE |
| CFS | CUBIC FEET PER SECOND |
| CG | CORNER GUARD |
| CH BD | CHALKBOARD |
| CHFR | CHAMFER |
| CHIM | CHIMNEY |
| CHK | CHECK |
| CHNL | CHANNEL |
| CHR PL | CHROME PLATED |
| CI | CAST IRON, CURB INLET |
| CIP | CAST-IN-PLACE |
| CIRC | CIRCULAR |
| CJ | CONTROL JOINT |
| CJ | CONSTRUCTION JOINT |
| CKT | CIRCUIT |
| CKT BRKR | CIRCUIT BREAKER |
| CL | CONTROL LINE |
| | CENTER LINE |
| CL-6 | CHAIN LINK FENCE (6 FT) |
| CLG | CEILING |
| CLG HT | CEILING HEIGHT |
| CLGL | CLEAR GLASS |
| CLL | CONTRACT LIMIT LINE |
| CLO | CLOSET |
| CLOS | CLOSURE |
| CLR | CLEAR, CLEARANCE |
| CLS | CLASS |
| CLSM | CONTROLLED LOW STRENGTH MATERIAL |
| CLWG | CLEAR WIRED GLASS |
| cm | CENTIMETER(S) |
| CM | CORRUGATED METAL |
| CMP | CORRUGATED METAL PIPE |
| CMPST | COMPOSITE |
| CMU | CONCRETE MASONRY UNIT |
| CND | CONDUIT |
| CNL | CONDUCTIVE NEOPRENE LATEX |
| CNR | CORNER |
| CNTR | COUNTER |
| CO | COUNTY, CLEANOUT |
| CO2 | CARBON DIOXIDE |
| COL | COLUMN |
| COM | COMMON |
| COMB | COMBINED, COMBUSTION |
| COMPT | COMPARTMENT |
| CONC | CONCRETE |
| COND | CONDUIT |
| CONN | CONNECT |
| CONSTR | CONSTRUCTION |
| CONT | CONTINUE |
| CONTR | CONTRACTOR |
| CONV | CONVENTIONAL |
| COORD | COORDINATE |
| CORR | CORRIDOR |
| COV | COVER |
| CPRS | COMPRESSIBLE |
| CP | CATCH POINT |
| CPT | CONE PENETRATION TEXT, CARPET |
| CR | CREEK |
| CRCMF | CIRCUMFERENCE |
| CRES | CORROSIVE RESISTANT STEEL |
| CRG | CROSS GRAIN |
| CRS | COURSE(S) |
| CS | CAST STONE |
| CSK | COUNTERSUNK |
| CSMT | CASEMENT |
| CT | COURT, CERAMIC TILE, |
| | CURRENT TRANSFORMER |
| C TO C | CENTER TO CENTER |
| CTR | CENTER |
| CU | CONDENSING UNIT |
| Cu | COPPER |
| CU FT | CUBIC FEET |
| CUH | CABINET UNIT HEATER |
| CU YD | CUBIC YARDS |
| CUFPB | CENTRAL VALLEY FLOOD PROTECTION BOARD |
| CULV | CULVERT |
| CV | CEILING VENT |
| CVH | CONDUCTIVE VINYL HOMOGENEOUS |
| | (SHEET TYPE) |
| CVHS | CENTRAL VALLEY HYDROLOGY STUDY |
| CW | COLD WATER |
| CYL | CYLINDER |
| D | DEPTH |
| d | PENNY (AS IN NAIL - 10D) |
| D.O.T. | DEPARTMENT OF TRANSPORTATION |
| DAT | DATUM |
| DB | DRY BULB |
| DBL | DOUBLE |
| DBL ACT DR | DOUBLE ACTING DOOR |
| DCJ | DOWELED CONTROL JOINT |
| DCJT | DUMMY CONTROL JOINT |
| DEG | DEGREE |
| DEMO | DEMOLITION |
| DEPR | DEPRESSION |
| DEPT | DEPARTMENT |
| DET | DETAIL |
| DF | DRINKING FOUNTAIN |
| DH | DOUBLE HUNG |
| DH | DUCT HEATER |
| DI | DRAINAGE INLET, DROP INLET |
| DIA, Ø | DIAMETER |
| DIAG | DIAGONAL |
| DIM | DIMENSION |
| DIP | DUCTILE IRON PIPE |
| DISC | DISCONNECT |
| DISP | DISPENSER |
| DIST | DISTANCE |
| DISTR PNL | DISTRIBUTION PANEL |
| DIV | DIVISION |
| DL | DEAD LOAD |
| DMPF | DAMPPROOFING |
| DMPR | DAMPER |
| DMT | DEMOUNTABLE |
| DN | DOWN |
| DNP | DUNNIGAN PIPELINE |
| DR | DOOR, DRAIN, DRIVE |
| DRB | DRAINBOARD |
| DR CL | DOOR CLOSER |
| DS | DOWNSTREAM, DOWNSPOUT, |
| | DOUBLE STRENGTH (GLASS) |
| DSM | DEEP SOIL MIX |
| DTL | DETAIL |
| DT | DRAIN TILE |
| DVTL | DOVETAIL |
| DWG | DRAWING |
| DWLS | DOWELS |
| DWR | DEPARTMENT OF WATER RESOURCES, DRAWER |
| DX | DIRECT EXPANSION |
| DWY | DRIVEWAY |
| E | EAST, EASTING |
| EA | EACH |
| EAT | ENTERING AIR TEMPERATURE |
| EB | END OF BRIDGE |
| EC | END HORIZONTAL CURVE |
| ECR | END CURB RETURN |
| EF, E.F. | EACH FACE |
| EG | EXISTING GRADE |
| EJ | EXPANSION JOINT |
| EL | ELEVATION - GRADE OR BUILDING |
| ELECT | ELECTRIC |
| ELEV, EL | ELEVATION |
| ELV | ELECTRIC VAULT |
| EM | EXPANDED METAL |
| EMB | EMBANKMENT |
| EMD | ESTIMATED MAXIMUM DEMAND |
| EMER | EMERGENCY |
| ENCL | ENCLOSE(URE) |
| ENGR | ENGINEER |
| ENTR | ENTRANCE, ENTERING |
| EOD | EDGE OF DECK |
| EP | END POINT, ELECTRICAL PANELBOARD |
| EPRF | EXPLOSION PROOF |
| EPX | EPOXY COATING |
| ESA | ENVIRONMENTALLY SENSITIVE AREA |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| ESCAL | ESCALATOR |
| EST | ESTIMATE(D) |
| EVC | END VERTICAL CURVE |
| E.W. | EACH WAY |
| EWC | ELECTRIC WATER COOLER |
| EWT | ENTERING WATER TEMPERATURE |
| EXC | EXCAVATE, EXCAVATION |
| EXH | EXHAUST |
| EXH A | EXHAUST AIR |
| EXST, (E) | EXISTING |
| EXP | EXPANSION |
| EXP | EXPOSED |
| EXP BT | EXPANSION BOLT |
| EXT | EXTERIOR |
| F | FAHRENHEIT |
| FA | FIRE ALARM |
| FA | FRESH AIR |
| FAC | FIRE APPARATUS CLOSET |
| FAI | FRESH AIR INTAKE |
| F BRK | FIRE BRICK |
| FC | FOOT CANDLE |
| FC BRK | FACE BRICK |
| FCG | FACING |
| FCJ | FLOOR CONSTRUCTION JOINT |
| FCO | FLOOR CLEANOUT |
| FCU | FAN COIL UNIT |
| FD | FLOOR DRAIN |
| FDMPR | FIRE DAMPER |
| FDTN | FOUNDATION |
| FE | FIRE EXTINGUISHER |
| FEB | FIRE EXTINGUISHER BRACKET |
| FEC | FIRE EXTINGUISHER CABINET |
| FF | FACTORY FINISH |
| FF EL | FINISH FLOOR ELEAVATION |
| FG | FINISHED GRADE |
| FGL | FIBERGLASS |
| FH | FIRE HYDRANT |
| FH | FLAT HEAD |
| FHC | FIRE HOSE CABINET |
| FHMS | FLAT HEAD MACHINE SCREW |
| FHR | FIRE HOSE RACK |
| FHS | FIRE HOSE STATION |
| FHWS | FLAT HEAD WOOD SCREW |
| FIG | FIGURE |
| FIN | FINISH |
| FIN FLR | FINISH FLOOR |
| FIXT | FIXTURE |
| FJT | FLUSH JOINT |
| FL | FLOW LINE |
| FLASH | FLASHING |
| FLR | FLOOR |
| FLEX | FLEXIBLE |
| FLG | FLOORING |
| FLR PL | FLOOR PLATE |
| FLUOR | FLUORESCENT |
| FN | FENCE |
| FNK | FUNKS |
| FO | FIBER OPTIC |
| FOC | FACE OF CONCRETE |
| FOF | FACE OF FINISH |
| FOM | FACE OF MASONRY |
| FOS | FACE OF STUD |
| FP | FIRE PROTECTION / |
| | FIREPROOF / FIRE PARTITION |
| FPM | FEET PER MINUTE |
| FR | FIRE RESISTANT / FRAME |
| FRG | FORGED |
| FRMG | FRAMING |
| FRT | FIRE-RETARDANT |
| FS | FULL SIZE |
| FSTNR | FASTEN(ER) |
| FT | FEET, FOOT |
| FTG | FOOTING |
| FURG | FURRING |
| FUT | FUTURE |
| FW | FIRE WATER |
| FWC | FABRIC WALL COVERING |
| G | NATURAL GAS |
| GA | GAGE |
| GAL | GALLON(S) |
| GALV | GALVANIZED |
| GALV STL | GALVANIZED STEEL |
| GB | GRADE BREAK, GRAB BAR |
| GC | GENERAL CONTRACTOR |
| GCID | GLENN-COLUSA IRRIGATION DISTRICT |
| GEN | GENERAL |
| GF | GROUND FACE |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GFE | GOVERNMENT-FURNISHED EQUIPMENT |
| GFE/CI | GOVERNMENT-FURNISHED EQUIPMENT |
| | CONTRACTOR INSTALLED |
| GG | GOLDEN GATE DAM |
| GI | GALVANIZED IRON |
| GIP | GALVANIZED IRON PIPE |
| GKT | GASKET(ED) |
| GL | GLASS |
| GL BLK | GLASS BLOCK |
| GLF | GLASS FIBER |
| GLZ | GLAZING |
| GLZ CMU | GLAZED CONCRETE MASONRY UNITS |
| GND | GROUND |
| GOVT | GOVERNMENT |
| GPM | GALLONS PER MINUTE |
| GPT | GYPSUM TILE |
| GRAN | GRANITE |
| GR LN | GRADE LINE |
| GRTG | GRATING |
| GST | GLAZED STRUCTURAL TILE |
| GSU | GLAZED STRUCTURAL UNITS |
| GT | GROUT |
| GWT | GLAZED WALL TILE |
| GYP | GYPSUM |
| GYP BD | GYPSUM BOARD |
| GYP PLAS | GYPSUM PLASTER |
| H | HEIGHT |
| HB | HOSE BIBB |
| HC | HOLLOW CORE |
| HCD | HALON CONTAINMENT DAMPER |
| HCP | HANDICAPPED |
| HD | HEAD |
| HD | HEAVY DUTY |
| HDBD | HARDBOARD |
| HD JT | HEAD JOINT |
| HDR | HEADER |
| HDW | HARDWARE |
| HDWD | HARDWOOD |
| HES | HIGH EARLY-STRENGTH CEMENT |
| HEX | HEXAGON |
| HH | HANDHOLE |
| HK | HOOK(S) |
| HM | HOLLOW METAL |
| HNDRL | HANDRAIL |
| HORIZ, HOR | HORIZONTAL |
| HP | HINGE POINT, HIGH PRESSURE, HORSEPOWER |
| HPT | HIGH POINT |
| HPU | HYDRAULIC POWER UNIT |
| HR | HOUR |
| HS | HIGH STRENGTH |
| HSGYP | HIGH-STRENGTH GYPSUM PLASTER |
| HSKPG | HOUSEKEEPING |
| HT | HEIGHT |
| HTG | HEATING |
| HTR | HEATER |
| HVAC | HEATING, VENTILATING AND AIR CONDITIONING |
| HW | HEADWALL, HIGH WATER |
| HWM | HIGH WATER MARK |
| HWY | HIGHWAY |
| HYDR | HYDRAULIC |
| Hz | HERTZ |
| I-80 | INTERSTATE 80 |
| IB | IMPORTED BORROW |
| IC | INTERCOM |
| ID | INSIDE DIAMETER |
| IE | INVERT ELEVATION |
| IESNA | ILLUMINATING ENGINEERING SOCIETY OF |
| | NORTH AMERICA |
| ILK | INTERLOCK |
| IN | INCH, INCHES |
| INCIN | INCINERATOR |
| INCL | INCLUDED |
| INSF | INSULATING FILL |
| INSUL | INSULATION |
| INT | INTERIOR |
| INTM | INTERMEDIATE |
| INV | INVERT |
| I/O | INLET/OUTLET |
| IP | IRON PIPE |
| IPS | IRON PIPE SIZE |
| I.P.S. | INSIDE PIPE SIZE |
| IR | IRRIGATION |
| JAN CLO | JANITOR'S CLOSET |
| J-BOX | JUNCTION BOX |
| JCT | JUNCTION |
| JST | JOIST |
| JT | JOINT |
| KIP | KILOPOUND (1000 POUNDS) |
| KIT | KITCHEN |
| KOP | KNOCKOUT PANEL |
| KPL | KICKPLATE |
| kV | KILOVOLTS |
| kVA | KILOVOLT AMPERES |
| kVAR | KILOVOLT AMPERES REACTIVE |
| kW | KILOWATT |
| KWY | KEYWAY |
| L | LENGTH |
| LAB | LABORATORY |
| LAD | LADDER |
| LAM | LAMINATE |
| LAT | LEAVING AIR TEMPERATURE |
| LAU | LAUNDRY |
| LAV | LAVATORY |
| LB | LAG BOLT |
| LB | POUND |
| LBL | LABEL |
| LBR | LUMBER |
| LC | LIGHT CONTROL |
| LD | LOAD |
| LDCC | LOW DENSITY CELLULAR CONCRETE |
| LDG | LOADING |
| LF | LINEAR FOOT (FEET) |
| LG | LENGTH |
| LH | LEFT HAND(ED) |
| LIN | LINEAR |
| LKR | LOCKER |
| LL | LIVE LOAD |
| LLD | LEAD-LINED DOOR |
| LM | LUMEN |
| LMST | LIMESTONE |
| LNTL | LINTEL |
| LOC | LOCATION |
| LOL | LAYOUT LINE |
| LONG | LONGITUDINAL |
| LP | LIGHTPROOF |
| LPD | LIGHTPROOF DOOR |
| LPL | LIGHTPROOF LOUVER |
| LPT | LOW POINT |
| LR | LONG RADIUS, LIVING ROOM |
| LS | LANDSIDE, LAWN SPRINKLER |
| LT | LEFT, LIGHT |
| LT WT | LIGHTWEIGHT |
| LTG | LIGHTING |
| LTNG | LIGHTNING |
| LVR | LOUVER |
| LWC | LIGHTWEIGHT CONCRETE |
| LWT | LEAVING WATER TEMPERATURE |
| m | METER(S) |
| M&B | MATCHED AND BEADED |
| MAINT | MAINTENANCE |
| MACH | MACHINE |
| MAS | MASONRY |
| MATL | MATERIAL(S) |
| MAX | MAXIMUM |
| MB | MACHINE BOLTS |
| MBR | MEMBER |
| MC | MEDICINE CABINET |
| MCJ | MASONRY CONTROL JOINT |
| MCO | METAL-CASED OPENING |
| MDS | METAL DIVIDER STRIP |
| MECH | MECHANICAL |
| MECH RM | MECHANICAL ROOM |
| MED | MEDIUM |
| MEMB | MEMBRANE |
| MES | METAL EDGE STRIP |
| MFD | METAL FLOOR DECKING |
| MFG | MANUFACTURING |
| MFR | MANUFACTURER |
| MG | MOTOR GENERATOR |
| MGT | MATTE-GLAZED TILE |
| MH | MANHOLE |
| MI | MALLEABLE IRON |
| MIN | MINIMUM |
| MIRR | MIRROR |
| MISC | MISCELLANEOUS |
| ML | METAL LATH |
| ML | MONOLITHIC |
| MLDG | MOULDING |
| MLWK | MILLWORK |
| mm | MILLIMETER(S) |
| MNIC | MATERIAL NOT IN CONTRACT |
| | (INSTALLATION BY CONTRACTOR) |
| MO | MASONRY OPENING |
| MOD | MODULAR |
| MOD. | MODIFIED, MODIFY |
| MON | MONUMENT |
| MOT | MOTOR |
| MP | MOVABLE PARTITION |
| MPG | MAXWELL / SITES PUMPING AND GENERATING |
| MR | MOP RECEPTOR |
| MRB | MARBLE BASE |
| MRD | METAL ROOF DECKING |
| MS | MACHINE SCREWS |
| MT | METAL THRESHOLD |
| MT | MOUNT |
| MTD | MOUNTED |
| MTFR | METAL FURRING |
| MTL | METAL |
| MVBL | MOVABLE |
| MULL | MULLION |
| MUTD | MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES |
| MW | MONITORING WELL |
| N | NORTH |
| N/A | NOT APPLICABLE |
| NAD83 | NORTH AMERICAN DATUM OF 1983 |
| NAS | NORTH AREA STREAMS |
| NAT | NATURAL |
| NAVD88 | NORTH AMERICAN VERTICAL DATUM OF 1988 |
| NC | NORMALLY CLOSED |
| NEC | NATIONAL ELECTRICAL CODE |
| NEMA | NATIONAL ELECTRICAL MANUFACTURERS |
| | ASSOCIATION |
| NEMDC | NATOMAS EAST MAIN DRAINAGE CANAL |
| NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| NGS | NATIONAL GEODETIC SURVEY |
| NGVD | NATIONAL GEODETIC VERTICAL DATUM |
| Ni | NICKEL |
| NIC | NOT IN CONTRACT |
| NL | NAILABLE |
| N.L. | NEOPRENE LATEX |
| N.M.W.S. | NEW MAX WATER SURFACE |
| NM | NONMETALLIC |
| NO | NUMBER, NORMALLY OPEN |
| NOM | NOMINAL |
| NR | NOISE REDUCTION |
| NRC | NOISE REDUCTION COEFFICIENT |
| N'REQD | NOT REQUIRED |
| NTS | NOT TO SCALE |
| O-O | OUT-TO-OUT |
| OA | OUTSIDE AIR |
| OBSC | OBSCURE |
| OBW | OBSERVATION WINDOW |
| OC | ON CENTER |
| OCEW | ON CENTER EACH WAY |
| OD | OUTSIDE DIAMETER |
| OFC | OFFICE |
| OFST | OFFSET |
| OG | ORIGINAL GROUND |
| OGL | OBSCURE GLASS |
| OH | OVERHEAD |
| OHW | OVERHEAD WIRE |
| OHWM | ORDINARY HIGH WATER MARK |
| OHMS | OVALHEAD MACHINE SCREW |
| OHWS | OVALHEAD WOOD SCREW |
| OPH | OPPOSITE HAND |
| OPNG | OPENING |
| OPP | OPPOSITE |
| OPQ | OPAQUE |
| OPS | OPERATIONS |
| OPT | ONE PASS TRENCH METHOD |
| OPTN | OPTION |
| OS & Y | OUTSIDE SCREW AND YOKE |
| OSHA | OCCUPATIONAL SAFETY AND HEALTH |
| | ADMINISTRATION |
| OWGL | OBSCURE WIRED GLASS |
| P | POLE |
| PA | PUBLIC ADDRESS |
| PAR | PARALLEL |
| PB | PANIC BAR |
| PBD | PARTICLE BOARD |
| PBS | PUSH BUTTON STATION |
| PC | POINT OF CURVATURE, PIECE |
| PCC | POINT OF COMPOUND CURVE, PRECAST CONCRETE |
| PCF | POUNDS PER CUBIC FOOT |
| PCP | CEMENT PLASTER (PORTLAND) |
| PCVC | POINT OF COMPOUND VERTICAL CURVE |
| PD | PAVEMENT DRAIN |
| PED | PEDESTAL |
| PERF | PERFORATE(D) |
| PERIM | PERIMETER |
| PG | PROFILE GRADE |
| PG&E | PACIFIC GAS & ELECTRIC |
| PGP | PUMPING AND GENERATING PLANT |
| PH | PILOT HOLE, PHASE |
| PHAR | PHARMACY |
| PI | POINT OF INTERSECTION |
| PIPU | PREFAB ISOLATION POWER UNIT |
| PIV | POST INDICATING VALVE |
| PL | PROPERTY LINE, PLATE |
| P/L | PROPERTY LINE |
| PLAM | PLASTIC LAMINATE |
| PLAS | PLASTER |
| PLAT | PLATFORM |
| PLBG | PLUMBING |
| PLF | POUNDS PER LINEAR FOOT |
| PLG | PILING |
| PL GL | PLATE GLASS |
| PLYWD | PLYWOOD |
| PNL | PANEL |
| PT | PAINT(ED) |
| POB | POINT OF BEGINNING |
| POC | POINT OF HORIZONTAL CURVE |
| POE | POINT OF ENDING |
| POI | POINT OF INTERCONNECTION |
| POL | POLISHED |
| PORC | PORCELAIN |
| PORT | PORTABLE |
| POT | POINT OF TANGENT |
| POVC | POINT OF VERTICAL CURVE |
| PP | POWER POLE |
| PPGL | POLISHED PLATE GLASS |
| PPM | PARTS PER MILLION |
| PR | PAIR |
| PRC | POINT OF REVERSE CURVE |
| PREFAB | PREFABRICATE(D) |
| PREFIN | PREFINISHED |
| PREFMD | PREFORMED |
| PRKG | PARKING |
| PROJ | PROJECT |
| PRV | PRESSURE-REGULATING VALVE |
| PRVC | POINT OF REVERSE VERTICAL CURVE |
| PS | PUMP STATION, PIPE SPACE |
| P.S. | PRESSED STEEL |
| PS&E | PLANS, SPECIFICATIONS AND ESTIMATES |
| PS CONC | PRESTRESSED CONCRETE |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PT | POINT OF TANGENCY, PNEUMATIC TUBE |
| PT. | POINT |
| PT CONC | POST-TENSIONED CONCRETE |
| PTD | PAPER TOWEL DISPENSER |
| PTN | PARTITION |
| PTR | PAPER TOWEL RECEPTACLE |
| PV | PAVED |
| PVC | POLYVINYL CHLORIDE |
| PVG | PAVING |
| PVMT | PAVEMENT |
| PW | PASS WINDOW |
| PWS | PIPELINE WARNING SIGN |
| QT | QUARRY TILE |
| QT. | QUART |
| QTR | QUARTER |
| 1/4 RND | QUARTER ROUND |
| QTY | QUANTITY |
| R | RADIUS, RANGE, RISER |
| RA | RETURN AIR |
| RAB | RABBETED |
| RA GR | RETURN AIR GRILLE |
| RAR | RETURN AIR REGISTER |
| RB | RUBBER BASE, RESILIENT BASE |
| RBL | RUBBLE STONE |
| RBR | RUBBER |
| RC | REMOTE CONTROL |
| RCP | REINFORCED CONCRETE PIPE |
| RCVR | RECEIVER |
| RD | ROAD, ROOF DRAIN |
| RDG INS | RIGID INSULATION |
| RDY | ROADWAY |
| RECPT | RECEPTACLE |
| REC ROOM | RECREATION ROOM |
| RECT | RECTIFIER |
| REF | REFERENCE |
| REFL | REFLECT |
| REFR | REFRIGERATION |
| REG | REGISTER |
| REG | REGLET |
| REINF | REINFORCE |
| REL | RELOCATE |
| REM | REMOVE(ABLE) |
| REPL | REPLACEMENT |
| REQD | REQUIRED |
| RESIL | RESILIENT |
| RET | RETAINING, RETURN |
| REV | REVISED, REVISION |
| RFG | ROOFING |
| RH | RELATIVE HUMIDITY |
| RH | RIGHT HAND |
| RH | ROOF HATCH |
| RK | RACK |
| RLG | RAILING |
| RM | RIVER MILE, ROOM |
| RND | ROUND |
| RO | ROUGH OPENING |
| ROW | RIGHT OF WAY |
| RP | RADIUS POINT, RETRACTABLE PARTITION |
| RPM | REVOLUTIONS PER MINUTE |
| RPRT | RAISED PATTERN RUBBER TILE |
| RR | RAILROAD |
| RSP | ROCK SLOPE PROTECTION |
| RT | RIGHT |
| RTE | ROUTE |
| RTF | RUBBER TILE FLOOR |
| RVS | REVERSE |
| RVT | RIVET |
| R/W, ROW | RIGHT-OF-WAY |
| RW | RELIEF WELL, RAW WATER |
| RWC | RAINWATER CONDUCTOR |
| S | SOUTH |
| SA | SUPPLY AIR |
| SAFCA | SACRAMENTO AREA FLOOD CONTROL AGENCY |
| S.B. | SECURITY BARS |
| SB | SOIL BENTONITE, SPLASH BLOCK |
| SBF | SOUTH BAY FOUNDRY |
| SC | SOLID CORE |
| SCB | SOIL-CEMENT-BENTONITE |
| SCCB | SLAG CEMENT-CEMENT-BENTONITE |
| SCH, SCHED | SCHEDULE |
| SCRN | SCREEN |
| SCT | STRUCTURAL CLAY TILE |
| SD | SADDLE DAM, STORM DRAIN |
| SDI | STEEL DOOR INSTITUTE |
| SECT | SECTION |
| SEQ | SEQUENCE |
| SFGL | SAFETY GLASS |
| SFTU | STRUCTURAL FACING TILE UNIT |
| SFU | STRUCTURAL FACING UNIT |
| SG | SHEET GLASS |
| SHLDR | SHOULDER |
| SHT | SHEET |
| SHTHG | SHEATHING |
| SHV | SHELVING |
| SIM | SIMILAR |
| SJI | STEEL JOIST INSTITUTE |
| SKLT | SKYLIGHT |
| SLO | SLOPE |
| SLNT | SEALANT |
| SLV | SLEEVE |
| SM | SHEET METAL |
| SMS | SHEET METAL SCREWS |
| SOV | SHUT OFF VALVE |
| SPC | SPACER |
| SPCL | SPECIAL |
| SPD | SOUNDPROOF DOOR |
| SPEC | SPECIFICATION, SPECIAL |
| SPF | SOUNDPROOF |
| SP FIN | SPECIAL FINISH |
| SPH | SPACE HEATER |
| SPKR | SPEAKER |
| SQ | SQUARE |
| SQHD | SQUARE HEAD |
| S&R | SHELF AND ROD |
| SS | SANITARY SEWER, SERVICE SINK, |
| | STANDING SEAM (ROOF) |
| SST | STAINLESS STEEL |
| ST | STREET |
| STA | STATION |
| STD | STANDARD |
| STG | SEATING |
| STL | STEEL |
| STOR | STORAGE |
| ST PR | STATIC PRESSURE |
| STR | STRINGER |
| STRUCT | STRUCTURAL |
| STWY | STAIRWAY |
| SUB FL | SUBFLOOR |
| SUSP | SUSPENDED |
| SV | SHEET VINYL |
| SW | SWITCH |
| SWBD | SWITCHBOARD |
| SWPPP | STORM WATER POLLUTION PREVENTION PLAN |
| SWR | SEWER |
| SYM | SYMBOL |
| SYMM | SYMMETRICAL |
| SYNTH | SYNTHETIC |
| SYS | SYSTEM |
| T | TREAD |
| TAN | TANGENT |
| TB | TOWEL BAR |
| TBD | TO BE DETERMINED |
| TC | TERRA COTTA/ TEHAMA-COLUSA |
| T-C | TEHAMA-COLUSA |
| TCCA | TEHAMA-COLUSA CANAL AUTHORITY |
| TCP | TRAFFIC CONTROL PLAN |
| TEL | TELEPHONE |
| TEMP | TEMPORARY, TEMPERATURE |
| TER | TERRAZZO |
| TERM | TERMINAL |
| T&G | TONGUE AND GROOVE |
| TG | TOP OF GRADE |
| TGL | TOGGLE |
| TH | TRUSS HEAD |
| THK | THICK(NESS) |
| THRES | THRESHOLD |
| THW | TOP OF HEADWALL |
| TK BD | TACKBOARD |
| TKS | TACKSTRIP |
| TO | TOP OF |
| TOC | TOP OF CONCRETE |
| TOL | TOP OF LEVY, TOLERANCE |
| TOP | TOP OF PIPE |
| TOPO | TOPOGRAPHY |
| TOS | TOP OF SLOPE, TOP OF SLAB, TOP OF STEEL |
| TOT | TOTAL |
| TOW | TOP OF WALL |
| TP | TELEPHONE POLE |
| TPD | TOILET PAPER DISPENSER |
| TPTN | TOILET PARTITION |
| TRANS | TRANSITION, TRANSOM, TRANSVERSE |
| TRR | TERMINAL REGULATING RESERVOIR |
| TRW | TERMINAL REGULATING RESERVOIR WEST |
| TSTAT | THERMOSTAT |
| TV | TELEVISION |
| TYP | TYPICAL |
| UC | UNIT COOLER |
| UG, UGND | UNDERGROUND |
| UH | UNIT HEATER |
| UL | UNDERWRITERS LABORATORIES |
| ULDC | URBAN LEVEE DESIGN CRITERIA |
| UNEX | UNEXCAVATED |
| UNFIN | UNFINISHED |
| U.P.R.R. | UNION PACIFIC RAILROAD |
| UPS | UNINTERRUPTIBLE POWER SUPPLY |
| UR | URINAL |
| US | UPSTREAM |
| USACE | U.S. ARMY CORPS OF ENGINEERS |
| USBR | UNITED STATES BUREAU OF |
| | RECLAMATION |
| UTIL | UTILITY |
| UV | UNIT VENTILATOR |
| V | VOLT |
| VAC | VACUUM |
| VAR | VARIES, VARNISH |
| VB | VINYL BASE |
| VC | VERTICAL CURVE |
| VCT | VINYL COMPOSITION TILE |
| VCT | VITRIFIED CLAY TILE |
| VD | VAULT DOOR |
| VENT | VENTILATOR(TION) |
| VERT | VERTICAL |
| VEST | VESTIBULE |
| VF | VINYL FABRIC |
| VFD | VARIABLE FREQUENCY DRIVE |
| VG | VERTICAL GRAIN |
| VH | VINYL HOMOGENEOUS |
| VJ | V-JOINT(ED) |
| VNR | VENEER |
| VOL | VOLUME |
| VR | VAPOR RETARDER |
| VRM | VERMICULITE |
| VS | VENT STACK |
| V.T. | VOLTAGE TRANSFORMER |
| VTR | VENT THRU ROOF |
| VWC | VINYL WALL COVERING |
| W | WEST, WATER |
| W/ | WITH |
| W/OUT | WITHOUT |
| WB | WET BULB |
| WBL | WOOD BLOCKING |
| WC | WATER CLOSET |
| W/C | WHEELCHAIR |
| WCO | WOOD-CASED OPENING |
| WD | WIDTH, WOOD, WOOD DOOR |
| WDSP | WASTE DISPOSER |
| WDW | WINDOW |
| WF | WIDE FLANGE |
| WGL | WIRED GLASS |
| WH | WALL HUNG |
| WH | WATER HEATER |
| WHB | WHEEL BUMPER |
| WHM | WATT-HOUR METER |
| WI | WROUGHT IRON |
| WKSH | WORK SHOP |
| WM | WATER METER, WIRE MESH |
| W/O | WITHOUT |
| WP | WATERPROOF(ING) |
| WP | WEATHERPROOF |
| WP | WORKING POINT |
| WR | WASTE RECEPTACLE |
| WRB | WARDROBE |
| WS | WATER SURFACE, WATERSTOP |
| W.S. | WASTE STACK |
| WSCT | WAINSCOT |
| WSD | WATERSIDE |
| WSE | WATER SURFACE ELEVATION |
| WSP | WELDED STEEL PIPE |
| WT | WEIGHT |
| WTH | WIDTH |
| WV | WATER VALVE |
| W/W | WALL TO WALL |
| WWF | WELDED WIRE FABRIC |
| WWM | WELDED WIRE MESH |
| WWR | WELDED WIRE REINFORCEMENT |
| WY | WAY |
| XFMR | TRANSFORMER |
| XSEC | CROSS SECTION |
| YD | YARD |
| YD | YARD DRAIN |
| YR | YEAR |
| YRS | YEARS |

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: D. CAVE
DRAWN BY: D. CAVE
CHECKED BY: W. OHLIN
IN CHARGE: P. RUDE
DATE: 02-14-2024

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Sites

# SITES RESERVOIR

## MAXWELL / SITES PUMPING AND GENERATING
## GENERAL
## ABBREVIATIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0001-G-0010
SHT 3 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

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## GENERAL SYMBOLS

DETAIL MARKER — A1 / - ; A1 / MPG-2155-D-5001

DETAIL DESIGNATION

DRAWING NUMBER WHERE SHOWN

USE DASH WHEN SHOWN ON SAME SHEET, TYP

STANDARD DETAIL — 0330-056

SECTION CUT — D1 / MPG-2155-D-3001

USE DASH WHEN SHOWN ON SAME SHEET, TYP

ELEVATION MARKER — B1 / MPG-2155-S-3001

ON DRAWING WHERE DETAIL OR SECTION IS CALLED OUT

DETAIL TITLE — A1 DETAIL SCALE / MPG-2155-D-2001

SECTION TITLE — D1 SECTION SCALE / MPG-2155-D-2001

ELEVATION TITLE — B1 ELEVATION SCALE / MPG-2155-D-2001

STANDARD DETAIL NUMBER

STANDARD DETAIL NAME 0330-056

NTS

ON DRAWING WHERE DETAIL OR SECTION IS SHOWN

## DRAWING NUMBERING LEGEND

MPG-2155-S-2001

LOCATION / PACKAGE CODE

FACILITY / AREA NUMBER

DRAWING TYPE CODE

DISCIPLINE DESIGNATOR

### PACKAGE NUMBER - CODE - LOCATION

1 - STS - SITES RESERVOIR
2 - MPG - MAXWELL / SITES PUMPING AND GENERATING
3 - SCD - RESERVOIR CLEARING AND DEMOLITION
4 - HFR - HUFFMASTER ROAD
5 - DNP - DUNNIGAN PIPELINE
6 - CCA - TEHAMA-COLUSA CANAL AUTHORITY
7 - CID - GLENN-COLUSA IRRIGATION DISTRICT
8 - REC - SITES RECREATION
9 - MIT - SITES MITIGATION

### AREA NUMBER - FACILITY / DISCIPLINE

0001 - GENERAL
0010 - GEOTECH
0045 - OVERALL SITE CIVIL
0060 - OVERALL SITE ELECTRICAL
0065 - INSTRUMENTATION AND CONTROLS
2005 - ACCESS ROADS
2010 - TRANSMISSION
2015 - PGE POI SWITCHYARD
2030 - VALVE VAULT
2040 - ENVIRONMENTAL WATER PIPELINE DISSIPATION STRUCTURE
2100 - FNK - TEMPORARY CONSTRUCTION
2105 - FNK - SITE CIVIL
2107 - FNK - RETAINING WALL
2110 - FNK - YARD PIPING
2115 - FNK - RESERVOIR
2120 - FNK - PIPELINE
2125 - FNK - SITE AND GENERAL ELECTRICAL
2130 - FNK - SUBSTATION
2135 - FNK - INSTRUMENTATION AND CONTROLS
2145 - FNK - ADMINISTRATION AND OPERATIONS BUILDING
2150 - FNK - MAINTENANCE AND STORAGE BUILDING
2155 - FNK - PUMPING PLANT
2160 - FNK - SWITCHGEAR BUILDING
2161 - FNK - EMERGENCY GENERATOR
2165 - FNK - GENERATING PLANT
2170 - FNK - CHILLER YARD
2171 - FNK - HVAC BUILDING
2175 - FNK - EMERGENCY DISSIPATION STRUCTURE
2180 - FNK - FIRE WATER TANK
2181 - FNK - FIRE WATER PUMPING PLANT
2185 - FNK - SURGE CONTROL SYSTEM
2190 - FNK - FLOW METER VAULT
2200 - TRR -TEMPORARY CONSTRUCTION
2205 - TRR - SITE CIVIL
2207 - TRR - SHEET PILE WALL
2210 - TRR - YARD PIPING
2215 - TRR - RESERVOIR
2220 - TRR - PIPELINE
2225 - TRR - SITE ELECTRICAL
2230 - TRR - SWITCHYARD
2231 - TRR - SUBSTATION
2235 - TRR - INSTRUMENTATION AND CONTROL
2240 - TRR - TRANSMISSION
2255 - TRR - PUMPING PLANT
2260 - TRR - SWITCHGEAR BUILDING
2261 - TRR - EMERGENCY GENERATOR
2265 - TRR - GENERATING PLANT
2270 - TRR - CHILLER YARD
2271 - TRR - HVAC BUILDING
2275 - TRR - ENERGY DISSIPATION STRUCTURE
2280 - TRR - FIRE WATER TANK
2281 - TRR - FIRE WATER PUMPING PLANT
2285 - TRR - SURGE CONTROL SYSTEM
2291 - TRR - CHECK STRUCTURE 1
2292 - TRR - CHECK STRUCTURE 2
2293 - TRR - CHECK STRUCTURE 3
2294 - TRR - CHECK STRUCTURE 4

### DISCIPLINE DESIGNATOR

A - ARCHITECTURAL
B - GEOTECHNICAL
C - CIVIL
D - PROCESS MECHANICAL
E - ELECTRICAL
F - FIRE PROTECTION
FET - FOUNDATION EXCAVATION AND TREATMENT
G - GENERAL
H - HVAC
I - INTERIORS
J - PLUMBING
K - TRANSMISSION
L - LANDSCAPE
M - BUILDING MECHANICAL
N - INSTRUMENTATION AND CONTROLS
P - PIPELINE
Q - EQUIPMENT
R - ROADWAY
S - STRUCTURAL
T - TELECOMMUNICATIONS
V - SURVEY MAPPING
Y - YARD PIPING

### DRAWING TYPE CODE

0000 - GENERAL AND 3D RENDERINGS
1000 - DEMOLITION
2000 - PLANS AND PLAN AND PROFILE
3000 - SECTIONS, ELEVATIONS AND PROFILES
4000 - ENLARGED PLANS
5000 - DETAILS
6000 - SCHEDULES AND DIAGRAMS
7000 - USER DEFINED
8000 - USER DEFINED
9000 - STD DETAILS

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: D. CAVE
DRAWN BY: D. CAVE
CHECKED BY: W. OHLIN
IN CHARGE: P. RUDE
DATE: 02-14-2024

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CALIFORNIA

# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
GENERAL
GENERAL SYMBOLS
AND DRAWING NUMBERING LEGEND

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0001-G-0020


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# LEGEND AND SYMBOLS

| EXISTING FEATURES | | PROPOSED FEATURES |
|---|---|---|
| | DRAIN ROCK | |
| x x | FENCE | x x |
| | SUBSTATION FENCE | |
| | GATE | |
| 560 | MAJOR CONTOURS | 560 |
| | MINOR CONTOURS | |
| | SILO(S), TANK(S) | |
| | TRAFFIC SIGN | |
| | FIRE HYDRANT | |
| | POST | |
| | TREE | |
| | PALM TREE | |
| | BUSH | |
| | POLE | |
| | SURVEY CONTROL POINT | |
| | MANHOLE | |
| | MISC UTILITY | |
| | UTILITY BOX | |
| | TRAFFIC LIGHT | |
| | UTILITY JUNCTION | |
| | BILLBOARD | |
| | CATCH BASIN, RECT | |
| | VA-TRAF-BARR-POST | |
| | COMMUNICATION ANTENNA | |
| | UTILITY VALVE | |
| | SIGN, REFLECTIVE | |
| | MAILBOX | |
| | STORM DRAIN INLET | |
| | ROAD, CENTER | |
| | ROAD, ALIGNMENT | |
| | ROAD | |
| | DRIVEWAY | |
| | BUILDING OUTLINE | |
| | WALL, RETAINING WALL | |
| | WALL, RETAINING WALL WITH CONC BARRIER | |
| P-UNK | PIPE, UNIDENTIFIED | |
| | HEADWALL | |
| | CULVERT | |
| SAN | SANITARY SEWER UNDERGROUND PIPE | SAN |
| | SANITARY SEWER MANHOLE | S |
| W W | WATER UNDERGROUND PIPE | W W |
| G | NATURAL GAS UNDERGROUND PIPE | G |
| FO | FIBER OPTIC LINE | FO |
| E | ELEC UNDERGROUND | E |
| E-OVH | ELEC OVERHEAD | E-OVH |
| | POWER POLE | |
| | GUY WIRE | |
| | GUY ANCHOR | |
| | TRANSMISSION TOWER, METAL | |
| | CANAL | |
| | RAILROAD | |
| | DITCH/FLOW LINE | |
| SD | STORM DRAIN UNDERGROUND PIPE | SD |
| | STORM DRAIN MANHOLE | SD |
| | SLOPE BANK, CUT | |
| | SLOPE BANK, FILL | |
| 290.00 | SPOT ELEVATION | 290.00 |
| BORE LOCATION & # | BORING LOCATION AND NUMBER | BORE LOCATION & # |
| | TEST PIT LOCATION AND NUMBER | LOCATION AND # |
| AUG - # | DWR AUGER HOLE | |
| LC - # | DWR CORE HOLE | |
| DH - # | USBR CORE HOLE | |
| XX | GEOTECHNICAL BORING | XX |
| | STRUCTURE, BUILDING OR FACILITY LOCATION POINT - COORDINATES | N 1000.00<br>E 1000.00 |

| EXISTING FEATURES | | PROPOSED FEATURES |
|---|---|---|
| | SLOPE PERCENT OR RISE:RUN | 2% |
| | FLOW ARROW | |
| | DIRECTION ARROW | |
| | WATER SURFACE | |
| | PIEZOMETER | |
| TOP<br>TOE | EARTH SLOPE | TOP<br>TOE |
| N/A | STEEL CHECKER PLATE | |
| | BENTONITE CEMENT GROUT | |
| | BENTONITE PELLET SEAL | |
| | CUTOFF WALL (DETAILS/SECTIONS) | |
| | ORIGINAL GROUND | |
| | AGGREGATE BASE | |
| | DAM/LEVEE FILL | |
| | DAM/LEVEE EMBANKMENT FILL | |
| | FINE SAND | |
| | CONCRETE | |
| | CLSM | |
| | ROCK SLOPE PROTECTION | |
| | ASPHALT CONCRETE PAVEMENT | |
| | GRAVEL SURFACING | |
| | CUTOFF WALL (PLANS) | |
| | LIMITS OF WORK | |
| | BREAK LINE | |
| | PIPE BREAK LINE | |
| | CENTERLINE | ℄ |
| | SPRING LINE CENTERLINE | SL |
| OR OR | DEMOLITION | |
| OR | STRUCTURE, BUILDING OR FACILITY | OR |
| | EXISTING PIPE TO BE ABANDONED | |
| | EXISTING PIPE TO BE DEMOLISHED | |
| | CONSTRUCTION CONTRACT LIMIT | |
| | CONSTRUCTION EASEMENT | C/E |
| CATV | CABLE TV | CATV |
| COMM | COMMUNICATION | COMM |
| | FIRE PROTECTION WATER SUPPLY | F F |
| | GUARD RAIL | |
| | PROPERTY LINE | |
| | CONTRACTOR STAGING BOUNDARY | |
| R/W | RIGHT OF WAY | R/W |
| | SILT FENCE | SF |
| T-OVH | TELEPHONE OVERHEAD | T-OVH |
| T | TELEPHONE UNDERGROUND | T |
| | TEMPORARY CONSTRUCTION EASEMENT | TCE |
| | PERMANENT EASEMENT | PE |

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|---|---|---|---|---|---|

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Sites

SITES RESERVOIR
MAXWELL / SITES PUMPING AND GENERATING
GENERAL
CIVIL LEGEND

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0001-G-0101
SHT 5 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

## ONE-LINE DIAGRAM

| SYMBOL | DESCRIPTION |
|---|---|
| | DRAWOUT AIR CIRCUIT BREAKER, LOW VOLTAGE |
| 400 | CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE, UNO |
| AS/AF or AT/AF | CIRCUIT BREAKER, STATIC TRIP UNIT, SENSOR AMP TRIP AND FRAME RATINGS SHOWN, 3 POLE, UNO |
| 100/M | CIRCUIT BREAKER, MAGNETIC TRIP SHOWN, TRIP RATING SHOWN, 3 POLE, UNO |
| 400 400 | CIRCUIT BREAKER WITH CURRENT LIMITING FUSES, TRIP AND FUSE RATING INDICATED, 3 POLE, UNO |
| 400 225 | FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3 POLE, UNO |
| 100 | SWITCH, CURRENT RATING INDICATED, 3 POLE, UNO |
| 60 (3) | FUSE, CURRENT RATING AND QUANTITY INDICATED |
| 1 | MAGNETIC STARTER WITH OVERLOAD, NEMA SIZE INDICATED, FVNR UNO |
| ASD | ELECTRONIC STARTER/SPEED CONTROL<br>RVSS = REDUCED VOLTAGE SOFT STARTER<br>ASD = AC ADJUSTABLE SPEED DRIVE<br>DC = DC ADJUSTABLE SPEED DRIVE<br>RVAT = REDUCED VOLTAGE AUTO TRANSFORMER TYPE<br>RVRT = REDUCED VOLTAGE REACTOR TYPE |
| | CABLE OR BUS CONNECTION POINT |
| K | KEY INTERLOCK |
| | SURGE ARRESTER (GAS TYPE) |
| 10 | CAPACITOR - KVAR INDICATED, 3 PHASE |
| 3 | AC MOTOR, SQUIRREL CAGE INDUCTION - HORSEPOWER INDICATED |
| G 500/625 | GENERATOR, KW/KVA RATING SHOWN |
| VS V 0-600V | ANALOG METER WITH SWITCH - SCALE RANGE SHOWN<br>V = VOLTAGE KW = KILOWATTS<br>A = AMPERAGE KVAR = KILOVARS<br>PF = POWER FACTOR |
| DPM | DIGITAL POWER METER (MULTIFUNCTION) |
| | UTILITY REVENUE METER |
| | GROUND |
| 15 KVA 480-120/240V 1 PH | TRANSFORMER, SIZE, VOLTAGE RATINGS AND PHASE INDICATED |
| | SHIELDED ISOLATION TRANSFORMER |
| 480-120V (3) | POTENTIAL TRANSFORMER, VOLTAGE RATING AND QUANTITY INDICATED |
| 100:5 (3) | CURRENT TRANSFORMER, RATIO(100:5) AND QUANTITY INDICATED (3) |
| | CONNECTION POINT TO EQUIPMENT SPECIFIED IN OTHER DIVISIONS. RACEWAY, CONDUCTOR AND CONNECTION IN THIS DIVISION |
| TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| SPD | SURGE PROTECTIVE DEVICE |
| | DRAWOUT POWER CIRCUIT BREAKER, MEDIUM VOLTAGE |
| | NON DRAWOUT FUSED SWITCH, MEDIUM VOLTAGE |
| | DRAWOUT FUSED SWITCH AND CONTACTOR, MEDIUM VOLTAGE |

| SYMBOL | DESCRIPTION |
|---|---|
| | DRAWOUT FUSED SWITCH AND VACUUM CONTACTOR, MEDIUM VOLTAGE |
| | DRAWOUT VACUUM CONTACTOR, MEDIUM VOLTAGE |
| | MEDIUM VOLTAGE CABLE STRESS CONE TYPE TERMINATION, OPEN TERMINATOR OR BELOW |
| | SWITCH - LOAD BREAK, GROUP OPERATED, MEDIUM VOLTAGE |
| | SWITCH W/ARCING HORNS, MEDIUM VOLTAGE |
| | DISCONNECTING FUSE - SOLID MATERIAL, MEDIUM VOLTAGE |
| | SWITCH - HOOK STICK OPERATED, SINGLE POLE, MEDIUM VOLTAGE |
| | FUSE - EXPULSION, HOOK STICK OPERATED, SINGLE POLE, MEDIUM VOLTAGE |
| | GROUND SWITCH, GANG OPERATED |
| | TERMINAL BLOCK LUG |
| | DELTA CONNECTION |
| | WYE GROUNDED CONNECTION, SOLID GROUND |
| R or Z | WYE NEUTRAL GROUND RESISTOR OR IMPEDANCE CONNECTION |
| 86 | RELAY OR DEVICE, FUNCTION NUMBER AS INDICATED |
| 50:5 (1) | CURRENT TRANSFORMER, ZERO SEQUENCE, RATIO AND QUANTITY INDICATED |
| 800/1200:5 (3) | BUSHING CURRENT TRANSFORMER, MULTI-RATIO AND QUANTITY INDICATED |
| MCOV 12.7kV (3) | METAL OXIDE SURGE ARRESTER, MAXIMUM CONTINUOUS OVERVOLTAGE RATING AND QUANTITY INDICATED |
| MPR | MULTI-FUNCTION DIGITAL RELAY<br>MPR = MOTOR PROTECTION RELAY<br>FMR = FEEDER MANAGEMENT RELAY<br>MMR = MAIN MANAGEMENT RELAY<br>GPR = GENERATOR PROTECTIVE RELAY |

## CONTROL DIAGRAM

| SYMBOL | DESCRIPTION |
|---|---|
| | PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN |
| | PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED |
| | PUSH-BUTTON SWITCH, MAINTAINED CONTACTS WITH MECHANICAL INTERLOCK |
| | 3 POSITION SELECTOR SWITCH MAINTAINED CONTACT |
| HAND OFF REMOTE | SELECTOR SWITCH - MAINTAINED CONTACT - CHART IDENTIFIES OPERATION WHEN NEEDED FOR CLARITY |

| | POSITION | | |
|---|---|---|---|
| CKT | HAND | OFF | REMOTE |
| 1 | X | O | O |
| 2 | O | O | X |

X - CLOSED CONTACT
O - OPEN CONTACT

| SYMBOL | DESCRIPTION |
|---|---|
| | TOGGLE SWITCH, ON-OFF TYPE |
| ON OFF | SELECTOR SWITCH, ON-OFF TYPE |
| | MUSHROOM HEAD PUSHBUTTON SWITCH |
| A | INDICATING LIGHT, PUSH-TO-TEST, LETTER INDICATES COLOR |
| A | INDICATING LIGHT - LETTER INDICATES COLOR<br>A - AMBER G - GREEN S - STROBE<br>B - BLUE R - RED<br>C - CLEAR W - WHITE |
| ETM | ELAPSED TIME METER |
| M | MOTOR STARTER CONTACTOR COIL |
| CRX | CONTROL RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT |
| TDR X | TIME DELAY RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT |
| SV X | SOLENOID VALVE, X INDICATES NUMERICAL ORDER IN CIRCUIT |
| | CONTACT - NORMALLY OPEN |
| | CONTACT - NORMALLY CLOSED |
| | REMOTE DEVICE |
| | TIME DELAY RELAY CONTACT, NORMALLY OPEN, CLOSES WHEN ENERGIZED AND TIMED OUT |
| | TIME DELAY RELAY CONTACT, NORMALLY CLOSED, OPENS WHEN ENERGIZED AND TIMED OUT |
| | TIME DELAY RELAY CONTACT, CLOSES WHEN ENERGIZED, OPENS WHEN DE-ENERGIZED AND TIMED OUT |
| | TIME DELAY RELAY CONTACT, OPENS WHEN ENERGIZED, CLOSES WHEN DE-ENERGIZED AND TIMED OUT |
| | MOTOR SPACE HEATER |
| | TERMINAL BLOCK, REMOTE |
| | TERMINAL BLOCK, INTERNAL |
| | FUSED TERMINAL BLOCK |
| | FUSE RATING INDICATED |
| CPT 120V | TRANSFORMER, CONTROL POWER |
| | THERMOCOUPLE |
| | CAPACITOR |
| + − | BATTERY |

| SYMBOL | DESCRIPTION |
|---|---|
| | LIMIT SWITCH, NORMALLY OPEN, CLOSES AT END OF TRAVEL |
| | LIMIT SWITCH, NORMALLY CLOSED, OPENS AT END OF TRAVEL |
| | TEMPERATURE SWITCH, OPENS ON TEMPERATURE RISE |
| | TEMPERATURE SWITCH, CLOSES ON TEMPERATURE RISE |
| | FLOAT SWITCH, NORMALLY OPEN, CLOSES ON DESCENDING LEVEL |
| | FLOAT SWITCH, NORMALLY OPEN, CLOSES ON RISING LEVEL |
| | PRESSURE SWITCH, NORMALLY CLOSED, OPENS ON RISING PRESSURE |
| | PRESSURE SWITCH, NORMALLY OPEN, CLOSES ON RISING PRESSURE |
| | FLOW SWITCH, CLOSES ON INCREASED FLOW |
| | FLOW SWITCH, OPENS ON INCREASED FLOW |
| NGR | NEUTRAL GROUND CURRENT LIMITING RESISTOR |
| RES | CALIBRATING RESISTOR |
| T GEN | TACHOMETER GENERATOR |
| GFS | GROUND FAULT SENSOR |
| | FLASHER |
| | SEALED CONTACT |
| | BUZZER |
| | POTENTIOMETER |
| | RESISTOR |
| | BLOWN FUSE INDICATOR |
| | COAXIAL CABLE |
| | DUPLEX RECEPTACLE |
| L U | RELAY, WITH MECHANICAL LATCH |
| | FULLWAVE DIODE BRIDGE (AC TO DC) |

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| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: E. GARCIA
CHECKED BY: J. LANDMAN
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Sites

# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
GENERAL
ELECTRICAL LEGEND 1

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0001-G-0601
SHT 6 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

## POWER SYSTEM PLAN

| SYMBOL | DESCRIPTION |
|---|---|
| | CONNECTION POINT TO EQUIPMENT SPECIFIED. RACEWAY, CONDUCTOR, TERMINATION AND CONNECTION IN THIS DIVISION |
| MCC-A | MAJOR ELECTRICAL COMPONENT OR DEVICE - NAME OR IDENTIFYING SYMBOL AS SHOWN |
| | PANELBOARD - SURFACE MOUNTED |
| LPXXA | PANELBOARD LETTER OR NUMBER<br>FACILITY NUMBER<br>LP - LOW VOLTAGE PANEL<br>DP - DISTRIBUTION PANEL |
| | PANELBOARD - FLUSH MOUNTED |
| | TERMINAL JUNCTION BOX |
| M | MOTOR, SQUIRREL CAGE INDUCTION |
| G | GENERATOR, VOLTAGE AND SIZE AS INDICATED |
| LPXXA | HOME RUN - DESTINATION SHOWN |
| or G | EXPOSED CONDUIT AND CONDUCTORS* |
| or G | CONCEALED CONDUIT AND CONDUCTORS* |

NOTE:
ALL UNMARKED CONDUIT RUNS CONSIST OF TWO NO. 12, ONE NO. 12 GROUND CONDUCTORS IN 3/4" CONDUIT. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF NO. 12 CONDUCTORS. CROSSHATCH WITH SUBSCRIPT "G" INDICATES GREEN GROUND WIRE.

| SYMBOL | DESCRIPTION |
|---|---|
| G | CROSSHATCHES WITH BAR INDICATE NO. 10 CONDUCTOR. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. |
| [A1] | CONDUIT AND CONDUCTOR CALLOUT, SEE LEGEND. |
| | CONDUIT DOWN |
| | CONDUIT UP |
| | CONDUIT, STUBBED AND CAPPED |
| | CONDUIT TERMINATION AT CABLE TRAY |
| EX | EXISTING CONDUIT / DUCT BANK |
| BD | BUS DUCT - SEE SPECIFICATIONS |
| CE | CONCRETE ENCASED CONDUIT |
| DB | DIRECT BURIED CONDUIT |
| FO | FIBER OPTIC CONDUIT |
| E-OVH | EXISTING OVERHEAD ELECTRICAL LINE |
| XXXX | CONCRETE ENCASED DUCT BANK WHERE XXXX IS THE DUCT BANK NAME. SEE CIRCUIT AND RACEWAY CODING DEFINITION |
| | CONCEALED CONDUIT ROUTING AREA |
| | CONDUIT ROUTING AREA |
| | CABLE TRAY |
| T | TRANSFORMER |
| J or HH | GENERAL CONTROL OR WIRING DEVICE. LETTER SYMBOLS OR ABBREVIATIONS INDICATE TYPE OF DEVICE |
| CS | CONTROL STATION, SEE CONTROL DIAGRAMS FOR CONTROL DEVICE(S) REQUIRED |
| 30 | NONFUSED DISCONNECT SWITCH, CURRENT RATING INDICATED, 3 POLE |
| 60/40 | FUSED DISCONNECT SWITCH, CURRENT RATING INDICATED (60/40, 60 = SWITCH RATING / 40 = FUSE RATING) 3 POLE |
| 2 | COMBINATION CIRCUIT BREAKER AND MAGNETIC STARTER, NEMA SIZE INDICATED |
| 100/40 | BREAKER SEPARATELY MOUNTED, CURRENT RATING INDICATED (100/40, 100 = FRAME SIZE; 40 = TRIP RATING) 3 POLE |
| C 2 | CONTACTOR, MAGNETIC, NEMA SIZE INDICATED |
| L 30 | LIGHTING CONTACTOR, CURRENT RATING INDICATED |
| 2 | STARTER, MAGNETIC NEMA SIZE INDICATED |

| SYMBOL | DESCRIPTION |
|---|---|
| XX 2 | CONVENIENCE RECEPTACLE - DUPLEX UNLESS NOTED OTHERWISE<br>WP - WEATHERPROOF C - CLOCK HANGER<br>TL - TWIST LOCK CRE - CORROSION RESISTANT<br>GFCI - GROUND FAULT CIRCUIT INTERRUPTER<br>SUBSCRIPT NUMBER AT RECEPTACLE INDICATES CIRCUIT |
| | 240V RECEPTACLE |
| | CONVENIENCE RECEPTACLE - QUADRUPLEX |
| | MULTI OUTLET ASSEMBLY |
| | DUPLEX CONVENIENCE RECEPTACLE - FLUSH IN FLOOR |
| | CONVENIENCE RECEPTACLE, PEDESTAL, DUPLEX SINGLE FACE UNLESS INDICATED OTHERWISE |
| L20R 20 | RECEPTACLE, SPECIAL PURPOSE-NEMA CONFIGURATION AND AMPERAGE INDICATED |
| T | THERMOSTAT |
| | UTILITY REVENUE METERING FACILITY |
| | POWER POLE WITH GUY WIRE |
| | 230kV TRANSMISSION LINE STRUCTURE |
| XX-YY-ZZ | ELECTRICAL BOX/VAULT IDENTIFICATION<br>XX:<br>HH - HANDHOLE<br>MH - MANHOLE<br>PB - PULLBOX<br><br>YY:<br>MV - MEDIUM VOLTAGE POWER<br>P - LOW VOLTAGE POWER<br>C - CONTROL<br><br>ZZ: IDENTIFICAITON NUMBER (e.g. 01) |

## LIGHTING SYSTEM PLAN

| SYMBOL | DESCRIPTION |
|---|---|
| 1 or 1 | LUMINAIRE, SEE SCHEDULE |
| 1 | LUMINAIRE, SEE SCHEDULE |
| 1 or | LUMINAIRE WITH INTERNAL BATTERY BACKUP, SEE SCHEDULE |
| 1 | STRIP LUMINAIRE, SEE SCHEDULE |
| 4 or 4 | LUMINAIRE AND POLE, SEE SCHEDULE |
| 5 or 5 | WALL MOUNTED LUMINAIRE, SEE SCHEDULE |
| 1 | FLOOD LIGHTS - AIM IN THE DIRECTION SHOWN |
| | STANDBY LIGHTING UNIT, SURFACE MOUNTED, SEE SCHEDULE |
| XX or | EXIT LIGHTS - FILLED SECTION INDICATES LIGHTED FACE, ARROW INDICATES EGRESS DIRECTIONAL INDICATORS, XX = FIXTURE NUMBER, SEE SCHEDULE |
| $\$_{3a}$ or 2a | SMALL LETTER SUBSCRIPT AT SWITCH AND LUMINAIRE INDICATES SWITCHING. SUBSCRIPT NUMBER AT LUMINAIRE INDICATES CIRCUIT |
| $\$_3$ | WALL SWITCH:<br>2- DOUBLE POLE P- PILOT LIGHT<br>3- THREE WAY K- KEY OPERATED<br>4- FOUR WAY D- DIMMER<br>WP- WEATHERPROOF CRE- CORROSION RESISTANT<br>EX- EXPLOSIONPROOF L- MOMENTARY 3-WAY<br>M - MOTOR RATED<br>MS- MANUAL STARTER WITH OVERLOADS<br>LV- ON/OFF/DIMMING (0-10V) |
| OS | OCCUPANCY SENSOR |
| LC | LIGHTING CONTACTOR |
| MD | MOTION DETECTOR |
| PC | PHOTOCELL |

## GROUND SYSTEM PLAN

| SYMBOL | DESCRIPTION |
|---|---|
| | GROUND ROD |
| | GROUND ROD IN TEST WELL |
| G | GROUNDING CONDUCTOR, SIZE AS INDICATED |
| | PIGTAIL FOR CONNECTION TO EQUIPMENT CABINET OR FRAME |
| G | EQUIPMENT GROUND BUS |
| N | EQUIPMENT NEUTRAL BUS |

## ABBREVIATIONS

| ABBREVIATIONS | DESCRIPTION |
|---|---|
| A | AMMETER, AMPERE, AMBER |
| AF | AMPERE FRAME |
| AFD | ADJUSTABLE FREQUENCY DRIVE |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AS | AMMETER SWITCH, AMPERE SENSOR |
| ASU | AIR SUPPLY UNIT |
| AT | AMPERE TRIP |
| ATC | AUTOMATIC THROWOVER CONTROL |
| ATS | AUTOMATIC TRANSFER SWITCH |
| BC | BARE COPPER |
| BCP | BRANCH CIRCUIT PANEL |
| BPP | BRANCH POWER PANEL |
| BRKR | BREAKER |
| C | CONDUIT, CONTACTOR |
| CB | CIRCUIT BREAKER |
| CC | CONTROL CABLE |
| CKT | CIRCUIT |
| CPT | CONTROL POWER TRANSFORMER |
| CR | CONTROL RELAY |
| CRE | CORROSION-RESISTANT |
| CRS | COATED RIGID STEEL CONDUIT |
| CT | CURRENT TRANSFORMER |
| DC | DIRECT CURRENT |
| DIV | DIVISION |
| E | EMPTY |
| EO | ELECTRIC OPERATOR |
| EQPT | EQUIPMENT |
| ESS | EMERGENCY SHUTDOWN SWITCH |
| ETM | ELAPSED TIME METER |
| EXST | EXISTING |
| FDR | FEEDER |
| F | FUSE |
| FLR | FLOOR |
| FLUOR | FLUORESCENT |
| FVNR | FULL VOLTAGE NON-REVERSING |
| FVR | FULL VOLTAGE REVERSING |
| G | GREEN, GROUND |
| GALV | GALVANIZED |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| GFR | GROUND FAULT RELAY |
| GND | GROUND |
| H | HIGH SPEED |
| HH | HANDHOLE |
| HID | HIGH INTENSITY DISCHARGE |
| HPS | HIGH PRESSURE SODIUM |
| HS | HAND SWITCH |
| IC | INTERRUPTING CAPACITY |
| I & C | INSTRUMENTATION AND CONTROL |
| INCAND | INCANDESCENT |
| INST | INSTANTANEOUS |

| ABBREVIATIONS | DESCRIPTION |
|---|---|
| M | MAGNETIC CONTACTOR COIL |
| MCC | MOTOR CONTROL CENTER |
| MH | MANHOLE, METAL HALIDE |
| MO | MOTOR OPERATER |
| MS | MOTOR STARTER |
| MSC | MFR SUPPLIED CABLE |
| MT | MOUNT |
| MTD | MOUNTED |
| N | NEUTRAL |
| NA | NON-AUTOMATIC |
| NC | NORMALLY CLOSED |
| NL | NIGHT LIGHT |
| NO | NORMALLY OPEN |
| NP | NAMEPLATE |
| OC | ON CENTER |
| OL | OVERLOAD RELAY |
| PB | PULL BOX, PUSH BUTTON SWITCH |
| PC | PHOTOCELL |
| PH | PHASE |
| PMR | PHASE MONITOR RELAY |
| PNL | PANEL |
| PS | PRESSURE SWITCH |
| PT | POTENTIAL TRANSFORMER |
| PVC | POLYVINYL CHLORIDE CONDUIT |
| R | RED |
| RCPT | RECEPTACLE |
| REQD | REQUIRED |
| RM | REMOTE MULTIPLEXER |
| RS | RIGID STEEL CONDUIT |
| RT | REMOTE TELEMETRY |
| RVNR | REDUCED VOLTAGE NON-REVERSING |
| RVR | REDUCED VOLTAGE REVERSING |
| SA | SURGE ARRESTOR |
| SCCR | SHORT CIRCUIT CURRENT RATING |
| S/N | SOLID NEUTRAL |
| SPD | SPEED |
| SST | STAINLESS STEEL |
| SV | SOLENOID VALVE |
| SW | SWITCH |
| SWBD | SWITCHBOARD |
| T | THERMOSTAT |
| TB | TERMINAL BOARD |
| TC | TIME CLOSE |
| TD | TEMPERATURE DETECTOR RELAY |
| TDR | TIME DELAY RELAY |
| TJB | TERMINAL JUNCTION BOX |
| T.O. | TIME OPEN |
| TS | AUTO TRANSFORMER TEMPERATURE SWITCH |
| TSP | TWISTED SHIELDED PAIR |
| TST | TWISTED SHIELDED TRIAD |
| TYP | TYPICAL |
| UH | UNIT HEATER |
| UVR | UNDER VOLTAGE RELAY |
| V | VOLTMETER, VOLT |
| VS | VOLTMETER SWITCH |

## ABBREVIATIONS

| ABBREVIATIONS | DESCRIPTION |
|---|---|
| J, J-BOX | JUNCTION BOX |
| K | KEY INTERLOCK |
| L | LIGHTING CONTACTOR, LOW SPEED |
| LOS | LOCKOUT STOP PUSH BUTTON |
| LR | LATCHING RELAY |
| LT FLEX | LIQUID TIGHT FLEX CONDUIT |
| LTS | LIGHTS |

| ABBREVIATIONS | DESCRIPTION |
|---|---|
| W | WATT |
| WHD | WATTHOUR DEMAND METER |
| WP | WEATHERPROOF |
| XFDR | TRANSPONDER |
| XFMR | TRANSFORMER |

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: E. GARCIA
CHECKED BY: J. LANDMAN
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Sites

# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
GENERAL
ELECTRICAL LEGEND 2

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0001-G-0602
SHT 7 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

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## ONE LINE PROTECTION RELAYING AND ELEMENTARY DIAGRAMS - 1

| SYMBOL | DESCRIPTION |
|---|---|
| 51 or 52 | DEVICE FUNCTION NUMBER INDICATED, SEE DEVICE TABLE |
| CS T | CONTROL SWITCH TRIP |
| CS C | CONTROL SWITCH CLOSE |
| 43/CS | 43 - DEVICE FUNCTION NUMBER, SEE DEVICE TABLE |
| VS | VOLTMETER SWITCH |
| AS | AMMETER SWITCH |
| A | INDICATING LAMP - SWITCHBOARD TYPE<br>INDICATING LAMP LENS COLORS<br>INDICATED AS FOLLOWS:<br>A - AMBER R- RED<br>B - BLUE W - WHITE<br>G - GREEN |
| V | VOLTMETER |
| A | AMMETER |
| W | WATTMETER |
| F | FREQUENCY METER |
| PF | POWER FACTOR METER |
| WH | WATT-HOUR METER |
| ETM | ELAPSED TIME METER |
| | TACHOMETER |
| W XD | WATTS TRANSDUCER |
| PF XD | POWER FACTOR TRANSDUCER |
| TD | TIME DELAY |
| 4 | RELAY COIL, DEVICE FUNCTION NUMBER PER ANSI 37.2 - AMERICAN STANDARD MANUAL AND AUTOMATIC STATION CONTROL, SUPERVISORY AND ASSOCIATED TELEMETRY EQUIPMENT |
| 7 8 | NORMALLY OPEN CONTACT |
| 3 4 | NORMALLY CLOSED CONTACT |
| | REMOTE DEVICE |
| | TEST SWITCH CURRENT ELEMENT |
| | TEST SWITCH POTENTIAL ELEMENT |
| | NEUTRAL CONNECTION |
| | DIODE |
| | INSTRUMENTATION CABLE, SHIELDED |
| NGR | NEUTRAL GROUNDING RESISTOR |
| PST | PHASE SHIFTING TRANSFORMER |

## ONE LINE PROTECTION RELAYING AND ELEMENTARY DIAGRAMS - 2

| DEVICE FUNCTION NO. | DEVICE DESCRIPTION |
|---|---|
| 21 | IMPEDANCE/DISTANCE RELAY |
| 25A | AUTOMATIC SYNCHRONIZER |
| 25C | SYNCH CHECK RELAY |
| 27 | UNDERVOLTAGE RELAY |
| 32 | REVERSE POWER RELAY |
| 40 | GENERATOR LOSS OF EXCITATION RELAY |
| 43CSE | AUTOMATIC POWER TRANSFER AND LOAD CONTROL MODE SEL. SWITCH |
| 43CSX | MODE SEL. SWITCH |
| 46 | GENERATOR CURRENT UNBALANCE RELAY |
| 49 | THERMAL RELAY |
| 50GS | INSTANTANEOUS OVERCURRENT DEVICE, GROUND SENSOR |
| 50 | INSTANTANEOUS OVERCURRENT DEVICE, |
| 51 | TIME OVERCURRENT RELAY |
| 51G | TIME OVERCURRENT RELAY, GROUND FAULT |
| 51V | TIME OVERCURRENT, VOLTAGE RESTRAINED |
| 52 | POWER CIRCUIT BREAKER |
| 52CSX | POWER CIRCUIT BREAKER CONTROL SWITCH |
| 59 | OVERVOLTAGE RELAY |
| 60 | VOLTAGE OR CURRENT BALANCE RELAY |
| 65A | ENGINE GOVERNOR, SPEED CONTROL |
| 65A, MOP | ENGINE GOVERNOR, SPEED CONTROL MOTOR OPERATED POTENTIOMETER |
| 65A, RL | ENGINE GOVERNOR, SPEED CONTROL RAISE/LOWER SWITCH |
| 65B | ENGINE GOVERNOR, LOAD CONTROL |
| 65B, MOP | ENGINE GOVERNOR, LOAD CONTROL MOTOR OPERATED POTENTIOMETER |
| 65B, RL | ENGINE GOVERNOR, % LOAD RAISE/LOWER SWITCH |
| 65E | AUTOMATIC POWER TRANSFER AND LOAD CONTROL, WOODWARD APTL |
| 65F | AUTOMATIC GENERATOR LOADING CONTROL, WOODWARD AGLC |
| 67 | DIRECTIONAL TIME OVERCURRENT RELAY |
| 74 | ALARM RELAY |
| 81O/U | FREQUENCY RELAY, OVER/UNDER |
| 86 | LOCKOUT RELAY |
| 87 | DIFFERENTIAL PROTECTIVE RELAY |
| 90 | VOLTAGE REGULATOR |
| 90, MOP | ENGINE EXCITATION, POWER OPERATED POTENTIOMETER |
| 90PF | ENGINE EXCITATION, POWER FACTOR CONTROL |
| 90RL | ENGINE EXCITATION, RAISE/ LOWER SWITCH |

X = DEVICE NUMBER, WHEN THERE ARE MULTIPLE UNITS

## GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION

### POWER CIRCUIT CALLOUTS

| | | | |
|---|---|---|---|
| [P1] | [1/2"FLEX, 2#12,#12G] | [P24] | [1"C,3#8,3#14,1#10G] |
| [P2] | [3/4"C,2#12,1#12G] | [P25] | [1"C,3#8,4#14,1#10G] |
| [P3] | [3/4"C,3#12,1#12G] | [P26] | [1"C,3#8,5#14,1#10G] |
| [P4] | [3/4"C,4#12,1#12G] | [P27] | [1"C,2#6, 1#10G] |
| [P5] | [3/4"C,5#12,1#12G] | [P28] | [1"C,3#6, 1#8G] |
| [P6] | [3/4"C,6#12,1#12G] | [P29] | [1"C,3#6, 2#14,1#8G] |
| [P7] | [3/4"C,7#12,1#12G] | [P30] | [1 1/4"C,3#6, 3#14,1#8G] |
| [P8] | [3/4"C,8#12,1#12G] | [P31] | [1 1/4"C,3#6, 4#14,1#8G] |
| [P9] | [3/4"C,3#12,2#14,1#12G] | [P32] | [1 1/4"C,3#6, 5#14,1#8G] |
| [P10] | [3/4"C,3#12,3#14,1#12G] | [P33] | [1 1/4"C,3#4,1#8G] |
| [P11] | [3/4"C,3#12,4#14,1#12G] | [P34] | [1 1/4"C,3#4,3#14,1#8G] |
| [P12] | [3/4"C,3#12,5#14,1#12G] | [P35] | [1 1/4"C,3#4,5#14,1#8G] |
| [P13] | [3/4"C,3#12,6#14,1#12G] | [P36] | [1 1/4"C,3#3, 1#6G] |
| [P14] | [1"C,3#12,7#14,1#12G] | [P37] | [1 1/4"C,3#3, 3#14,1#6G] |
| [P15] | [3/4"C,2#10,1#10G] | [P38] | [1 1/4"C,3#2, 1#6G] |
| [P16] | [3/4"C,3#10,1#10G] | [P39] | [1 1/2"C,3#1, 1#6G] |
| [P17] | [3/4"C,3#10,2#14,1#10G] | [P40] | [2"C,3#1, 3#14,1#6G] |
| [P18] | [3/4"C,3#10,3#14,1#10G] | [P41] | [2"C,3#2/0, 1#4G] |
| [P19] | [3/4"C,3#10,4#14,1#10G] | [P42] | [2"C,3#3/0, 1#4G] |
| [P20] | [1"C,3#10,5#14,1#10G] | [P43] | [2"C,3#4/0, 1#3G] |
| [P21] | [1"C,2#8,1#10G] | | |
| [P22] | [1"C,3#8,1#10G] | | |
| [P23] | [1"C,3#8,2#14,1#10G] | | |

### MULTICONDUCTOR POWER CABLE CIRCUIT CALLOUTS

| | |
|---|---|
| [PC1] | [3/4"C,1 (3C#12,1#12G) TYPE 2] |
| [PC2] | [3/4"C,1 (3C#10,1#10G) TYPE 2] |
| [PC3] | [3/4"C,1 (3C#8,1#10G) TYPE 2] |
| [PC4] | [3/4"C,2 (3C#12,1#12G) TYPE 2] |
| [PC5] | [1"C,2 (3C#10,1#10G) TYPE 2] |
| [PC1A] | [3/4"C,1 (2C#12,1#12G) TYPE 2] |
| [PC2A] | [3/4"C,1 (2C#10,1#10G) TYPE 2] |

### EMPTY CONDUIT

| | |
|---|---|
| [EC-1] | [3/4"C,WITH PULL STRING] |
| [EC-2] | [1"C,WITH PULL STRING] |
| [EC-3] | [1 1/4"C,WITH PULL STRING] |
| [EC-4] | [1 1/2"C,WITH PULL STRING] |
| [EC-5] | [2"C,WITH PULL STRING] |
| [EC-6] | [3"C,WITH PULL STRING] |
| [EC-7] | [4"C,WITH PULL STRING] |
| [EC-8] | [5"C,WITH PULL STRING] |

### ANALOG CIRCUIT CALLOUTS / CONTROL CIRCUIT CALLOUTS

| | | | |
|---|---|---|---|
| [A1] | [3/4"C,1 TYPE 3] | [C1] | [3/4"C,MSC] |
| [A2] | [3/4"C,2 TYPE 3] | [C2] | [3/4"C,2#14,1#14G] |
| [A3] | [1"C,3 TYPE 3] | [C3] | [3/4"C,3#14,1#14G] |
| [A4] | [1 1/4"C,4 TYPE 3] | [C4] | [3/4"C,4#14,1#14G] |
| [A5] | [1 1/4"C,5 TYPE 3] | [C5] | [3/4"C,5#14,1#14G] |
| [A6] | [1 1/4"C,6 TYPE 3] | [C6] | [3/4"C,6#14,1#14G] |
| [A7] | [1 1/2"C,7 TYPE 3] | [C7] | [3/4"C,7#14,1#14G] |
| [A8] | [1 1/2"C,8 TYPE 3] | [C8] | [3/4"C,8#14,1#14G] |
| [A9] | [1 1/2"C,9 TYPE 3] | [C9] | [3/4"C,9#14,1#14G] |
| [A10] | [2"C,10 TYPE 3] | [C10] | [3/4"C,10#14,1#14G] |
| [A11] | [2"C,11 TYPE 3] | [C11] | [3/4"C,11#14,1#14G] |
| [A12] | [2"C,12 TYPE 3] | [C12] | [3/4"C,12#14,1#14G] |
| [A13] | [2"C,13 TYPE 3] | [C13] | [3/4"C,13#14,1#14G] |
| [A14] | [2"C,14 TYPE 3] | [C14] | [1"C,14#14,1#14G] |
| [A15] | [3/4"C,1 TYPE 4] | [C15] | [1"C,15#14,1#14G] |
| [A16] | [3/4"C,2 TYPE 4] | [C16] | [1"C,16#14,1#14G] |
| [A17] | [1"C,3 TYPE 4] | [C17] | [1"C,17#14,1#14G] |
| [A18] | [1 1/4"C,4 TYPE 4] | [C18] | [1"C,18#14,1#14G] |
| [A19] | [1 1/4"C,5 TYPE 4] | [C19] | [1"C,19#14,1#14G] |
| [A20] | [1 1/4"C,6 TYPE 4] | [C20] | [1"C,20#14,1#14G] |
| [A21] | [1 1/2"C,7 TYPE 4] | [C21] | [1"C,21#14,1#14G] |
| [A22] | [1 1/2"C,8 TYPE 4] | [C22] | [1"C,22#14,1#14G] |
| [A23] | [2"C,9 TYPE 4] | [C23] | [1"C,23#14,1#14G] |
| [A24] | [3/4"C,1-4 pr. TYPE 5] | [C24] | [1 1/4"C,24#14,1#14G] |
| [A25] | [1"C,2-4 pr. TYPE 5] | [C25] | [1 1/4"C,25#14,1#14G] |

### MULTICONDUCTOR CONTROL CABLE CIRCUIT CALLOUTS

| | |
|---|---|
| [CC3] | [3/4"C,1-3C TYPE 1] |
| [CC5] | [3/4"C,1-5C TYPE 1] |
| [CC7] | [3/4"C,1-7C TYPE 1] |
| [CC9] | [1"C,1-9C TYPE 1] |
| [CC12] | [1"C,1-12C TYPE 1] |
| [CC19] | [1 1/2"C, 1-19C TYPE 1] |
| [CC25] | [1 1/2"C,1-25C TYPE 1] |
| [CC37] | [2"C,1-37C TYPE 1] |
| [CCC1] | [1-7C #12 TYPE 1] |

NOTES:

1. FOR CABLE TYPES, SEE SPECIFICATIONS.
2. POWER CIRCUIT CALLOUTS ARE BASED ON THE AREA OF THW CONDUCTORS. CONTROL CIRCUIT CALLOUTS ARE BASED ON THE AREAS OF SCHEDULE 40 PVC CONDUIT AND TYPES XHHW & XHHW-2 INSULATION.
3. SIZING OF CONDUCTORS #1AWG AND SMALLER BASED ON AMPACITIES AT 60 DEGREES C, SIZING OF CONDUCTORS #1/0AWG AND LARGER BASED ON AMPACITIES AT 75 DEGREES C.
4. WHERE CIRCUITS ARE UNDERGROUND, DIRECT BURIED OR CONCRETE ENCASED, MINIMUM CONDUIT SIZE SHALL BE 1".
5. FOR METRIC CONDUIT SIZES USE THE FOLLOWING CONVERSION:

File: C:\pwworking\hdr_sites_reservoir\dms01711\MPG-0001-G-0603.dwg

Plot Date: 2/6/2024 3:56 PM
Saved By: RS033139

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: E. GARCIA
CHECKED BY: J. LANDMAN
IN CHARGE: P. RUDE
DATE: 02-14-2024

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(530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
CRAIG M. CUSWORTH
19120
CALIFORNIA

Sites

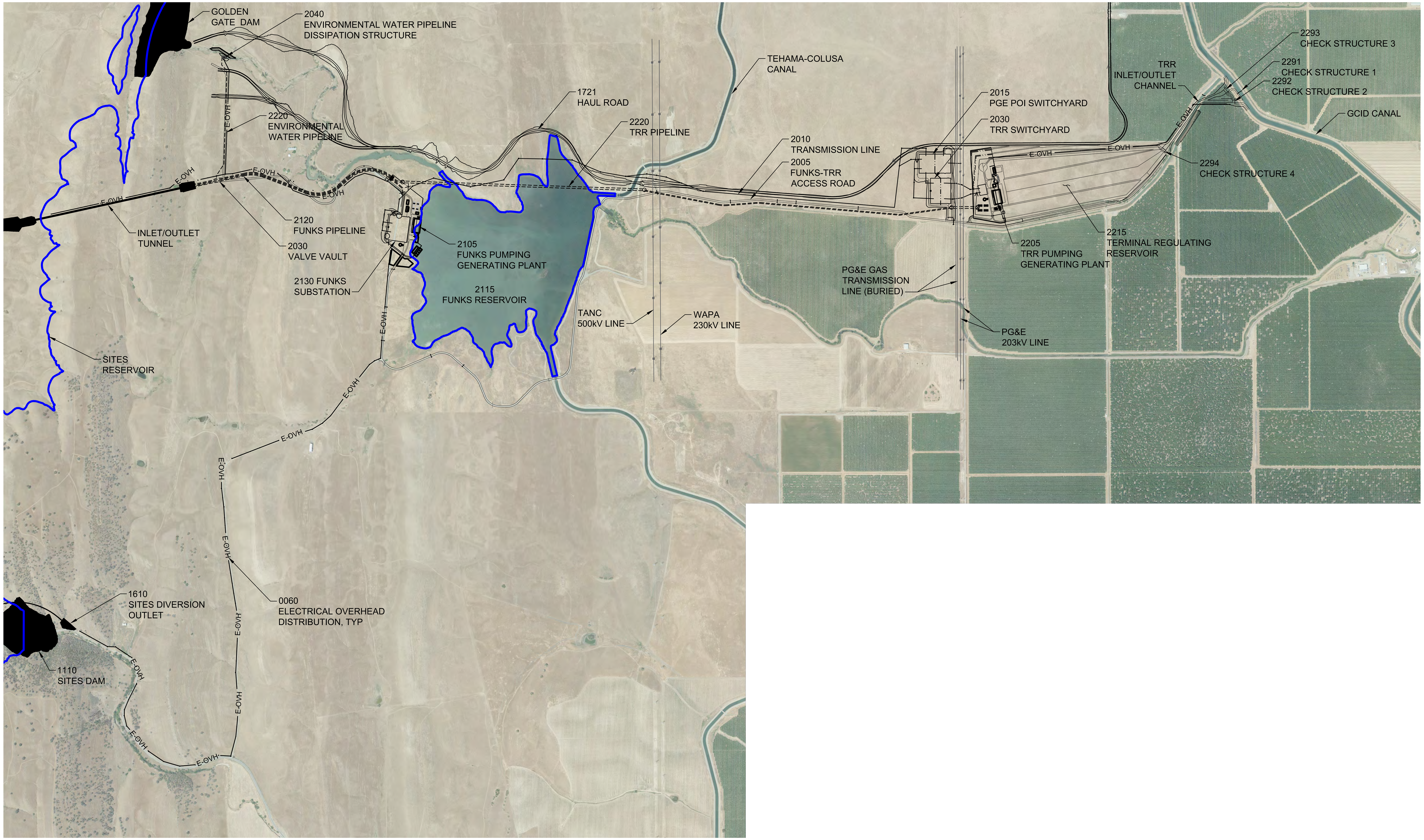
SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
GENERAL
ELECTRICAL LEGEND 3

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0001-G-0603


PRELIMINARY - NOT FOR CONSTRUCTION




PLAN
HORIZ SCALE: 1" = 1000'

0 1000' 2000'

N

## GENERAL NOTES

1. AERIAL PHOTOGRAPHY WAS FLOWN ON MAY 13 AND 14, 2022 BY GEOTERRA, INC. AND WAS DELIVERED TO JACOBS IN SEPTEMBER 2022.
2. MAPPING WAS COMPILED BY R.E.Y. ENGINEERS, INC. FROM AERIAL LIDAR DATA, COLLECTED BY GEOTERRA, INC. ON FEBRUARY 8 AND 9, 2022, AND SUPPLEMENTAL GROUND SURVEY AND BATHYMETRY PERFORMED BY R.E.Y ENGINEERS.
3. HORIZONTAL DATUM: 2011 REALIZATION OF THE NORTH AMERICAN DATUM OF 1983 (NAD83(2011)), EPOCH 2017.50. MAPPING PROJECTION IS US STATE PLANE COORDINATES, CALIFORNIA ZONE 2, SURVEY FEET.
4. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEOID18.
5. SOURCE OF BATHYMETRY IN FUNKS RESERVOIR: R.E.Y. ENGINEERS, INC CONDUCTED THE BATHYMETRIC SURVEY IN SEPTEMBER OF 2020. DATA COLLECTION WAS BY EXTENDED RANGE-POLE WITH GPS RTK ROVER FROM A RAFT. DENSE VEGETATION IN THE RESERVOIR PREVENTED USE OF SONAR.
6. SITES PROJECT JOINT POWERS AUTHORITY GPS CONTROL NETWORK ESTABLISHED IN JANUARY 2023 RECORD OF SURVEY IS RECORDED WITH COLUSA COUNTY RECORDS, DOCUMENT NUMBER 2023-0001608 AND WAS FILED JUNE 27, 2023.

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: B.CHELONIS
DRAWN BY: B. CHELONIS
CHECKED BY: W. OHLIN
IN CHARGE: P. RUDE
DATE: 02-14-2024

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BECKY K CHELONIS
C 59851
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Sites

# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
CIVIL
OVERALL LOCATION AND SURVEY CONTROL PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0045-C-2001
SHT 9 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

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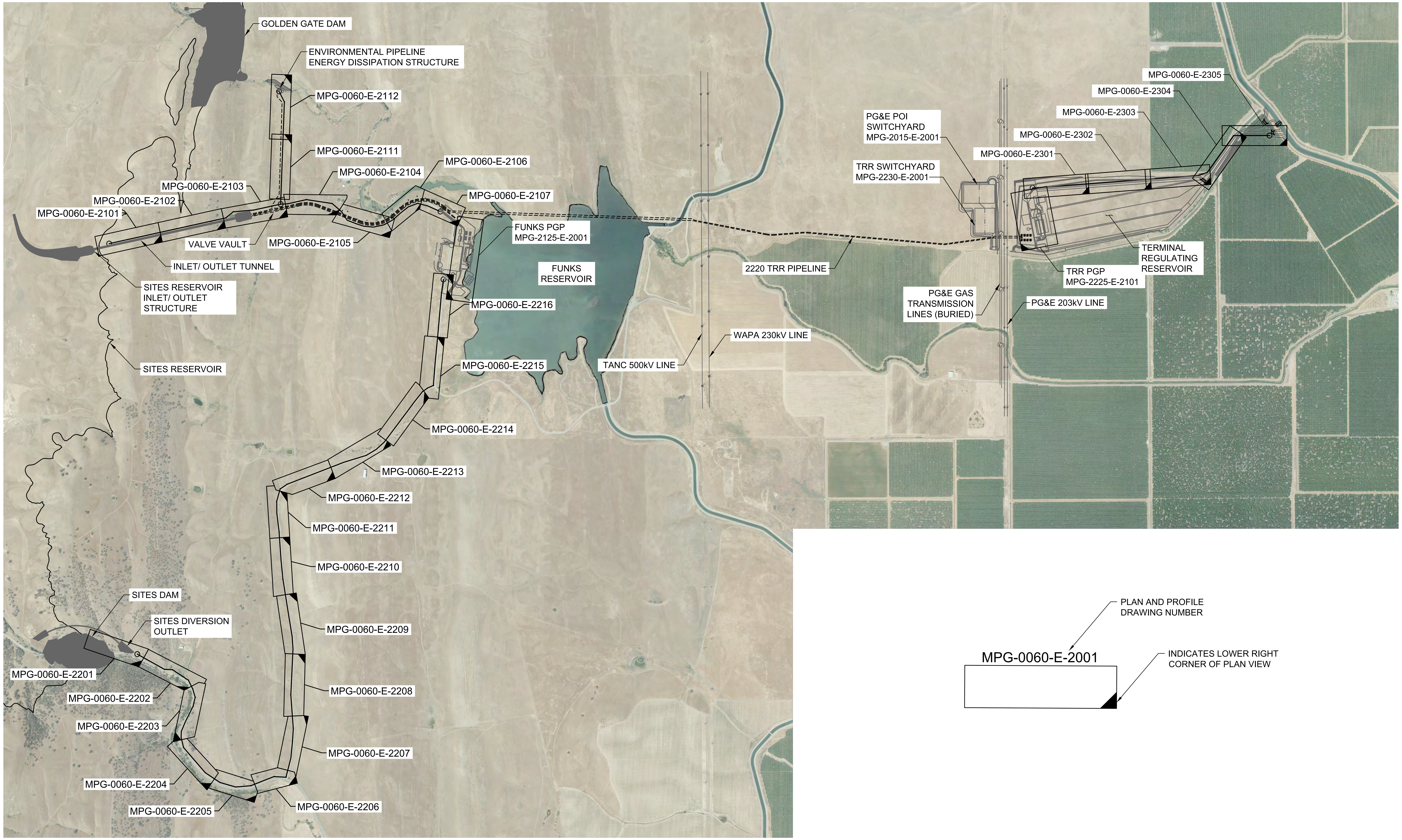
Saved By: BCHELONI




KEY PLAN
HORIZ SCALE: 1" = 1000'

0 1000' 2000'
HORIZ SCALE: 1" = 1000'

N

## GENERAL NOTES

## SHEET KEY NOTES

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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Sites

# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS 13.8KV OVERHEAD DISTRIBUTION
OVERALL SITE AND KEY PLAN

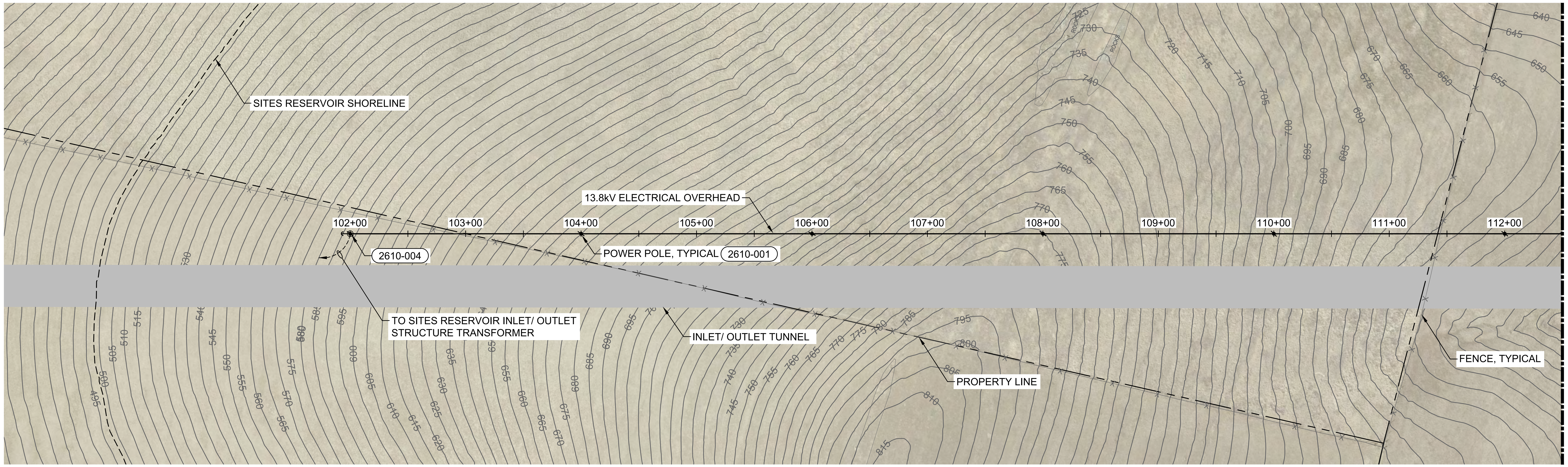
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2001
SHT 10 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

Plot Date: 2/9/2024 10:15 AM File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2001.dwg
Saved By: DCAVE

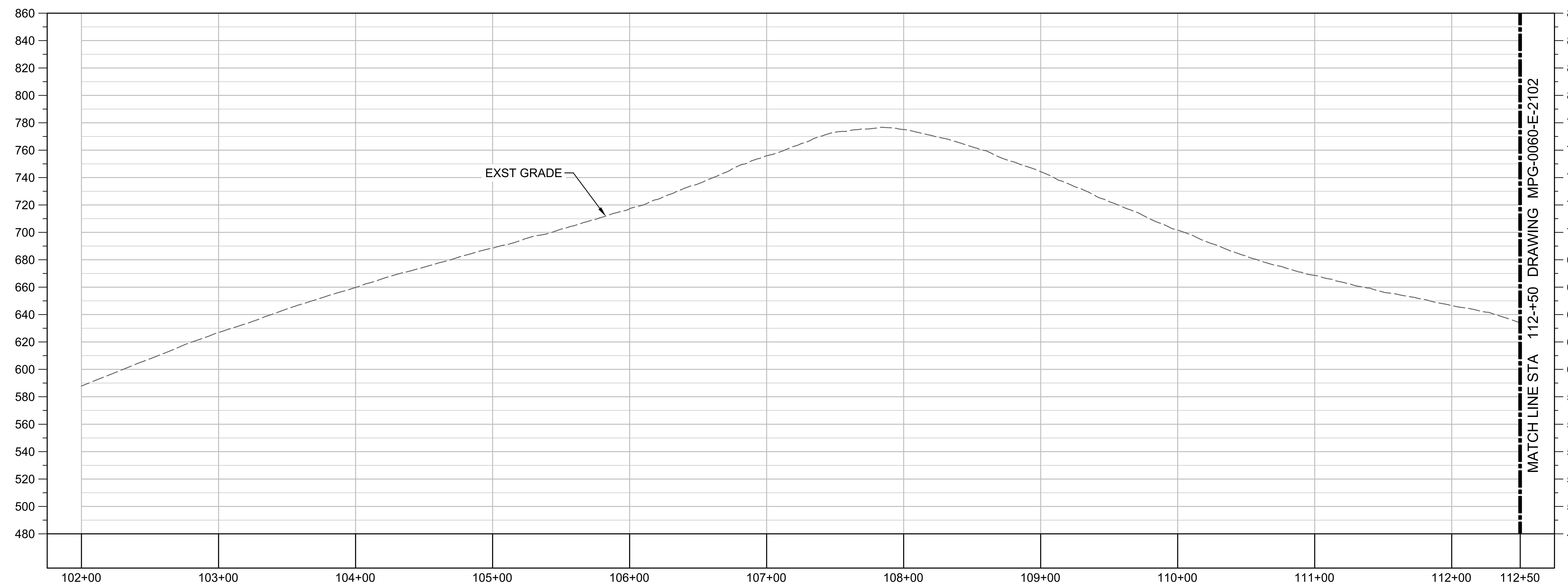
## GENERAL NOTES




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'

N




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## SHEET KEY NOTES

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO INLET / OUTLET STRUCTURE
PLAN AND PROFILE
STA 102+00 TO 112+50

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2101
SHT 11 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2101.dwg
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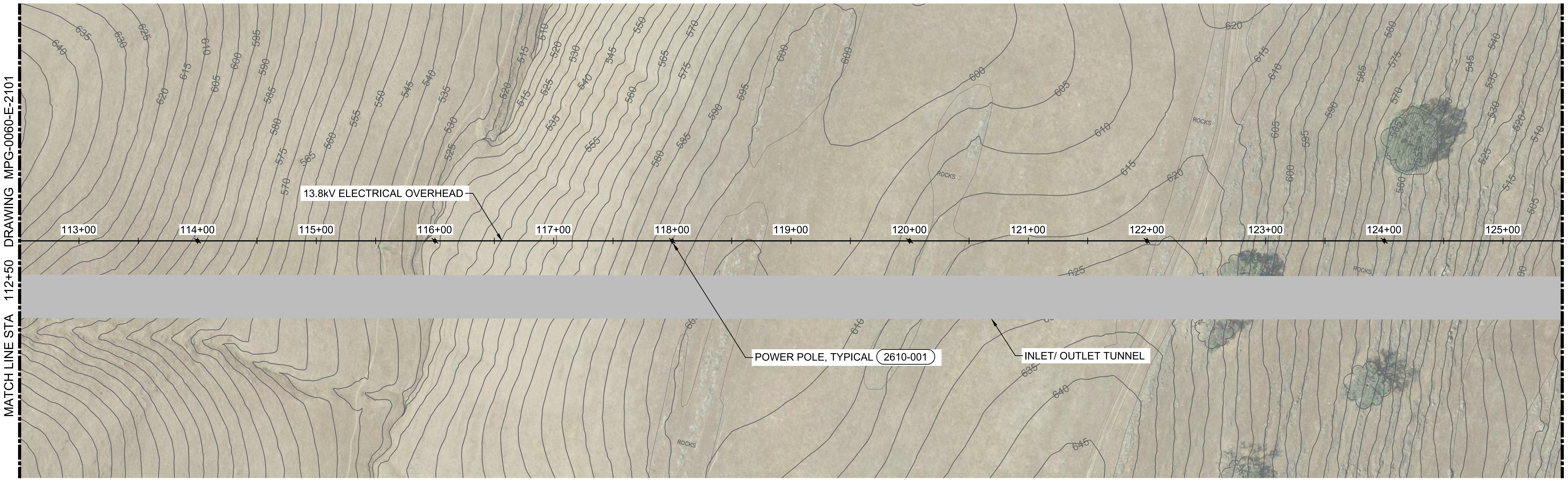
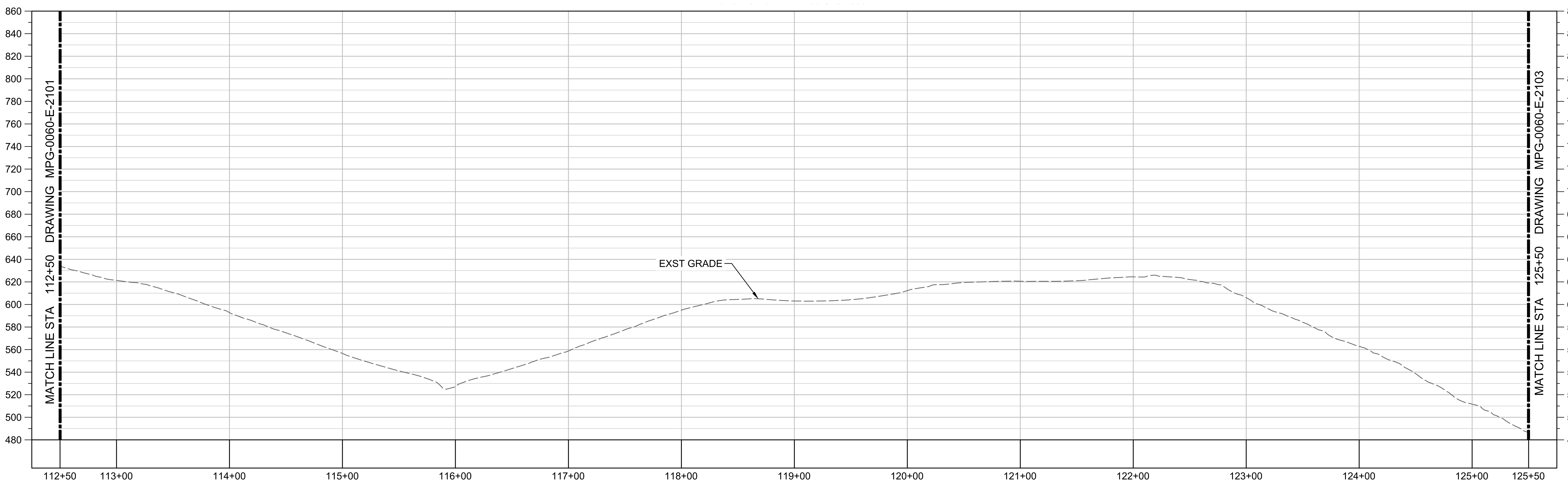



PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'

N




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = XX'

## GENERAL NOTES

## SHEET KEY NOTES

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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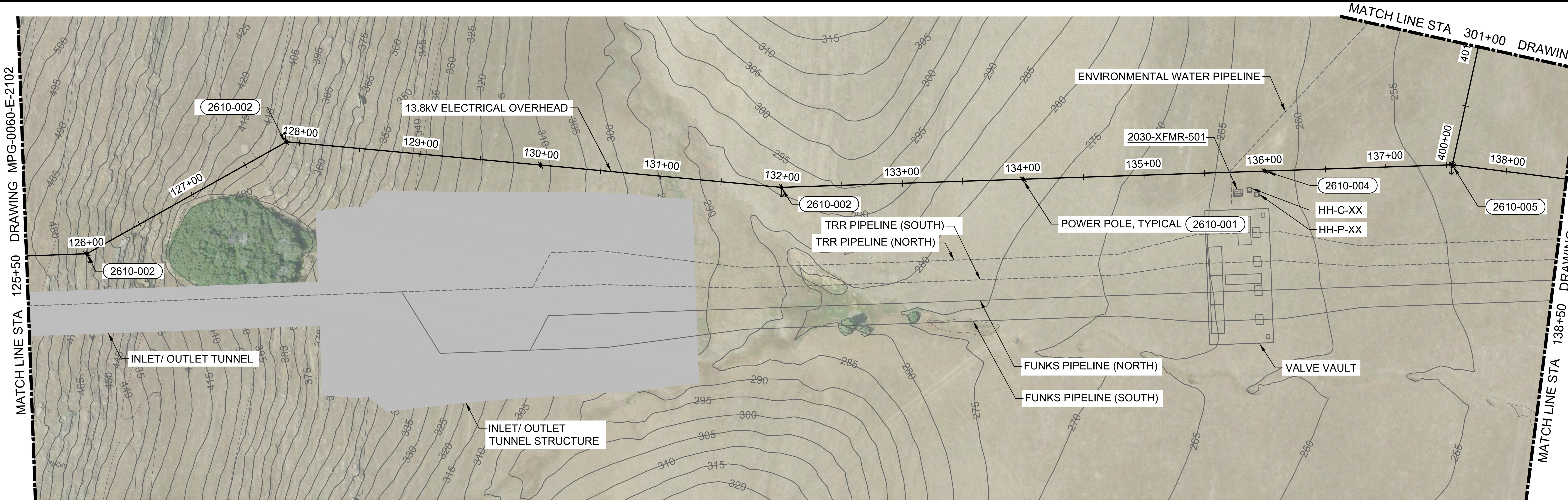
# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO INLET / OUTLET STRUCTURE
PLAN AND PROFILE
STA 112+50 TO 125+50

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2102
SHT 12 OF 45

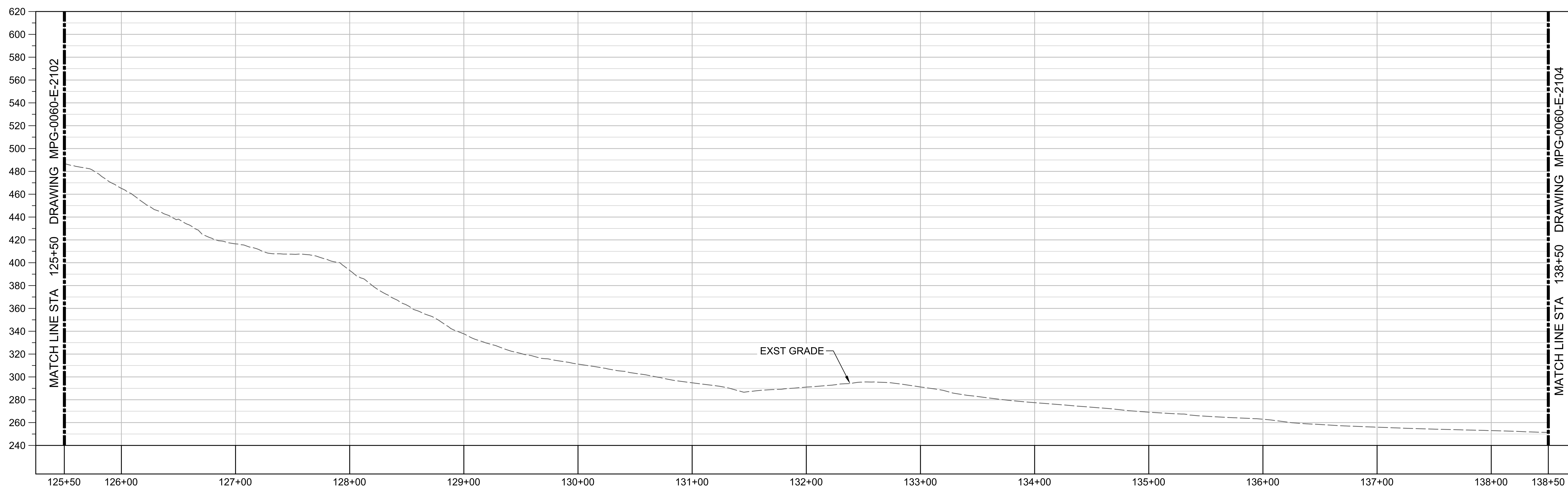
PRELIMINARY - NOT FOR CONSTRUCTION




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'

N




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = XX'

## GENERAL NOTES

1. VALVE VAULT DRAWINGS ARE AS NOTED BELOW:
   VALVE VAULT PLAN:
   MPG-2030-E-2001
2. 35' MINIMUM DISTANCE BETWEEN POLES AND CENTERLINE OF PIPELINE.

## SHEET KEY NOTES

## KEY MAP

N

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO INLET / OUTLET STRUCTURE
PLAN AND PROFILE
STA 125+50 TO 138+50

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2103
SHT 13 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

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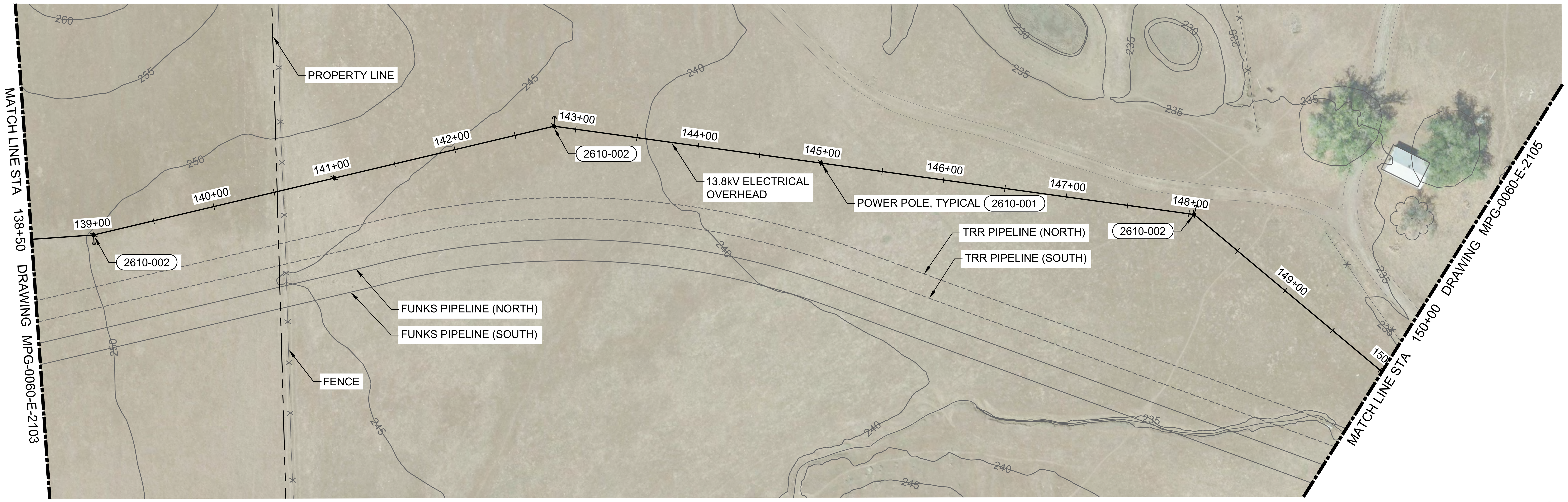
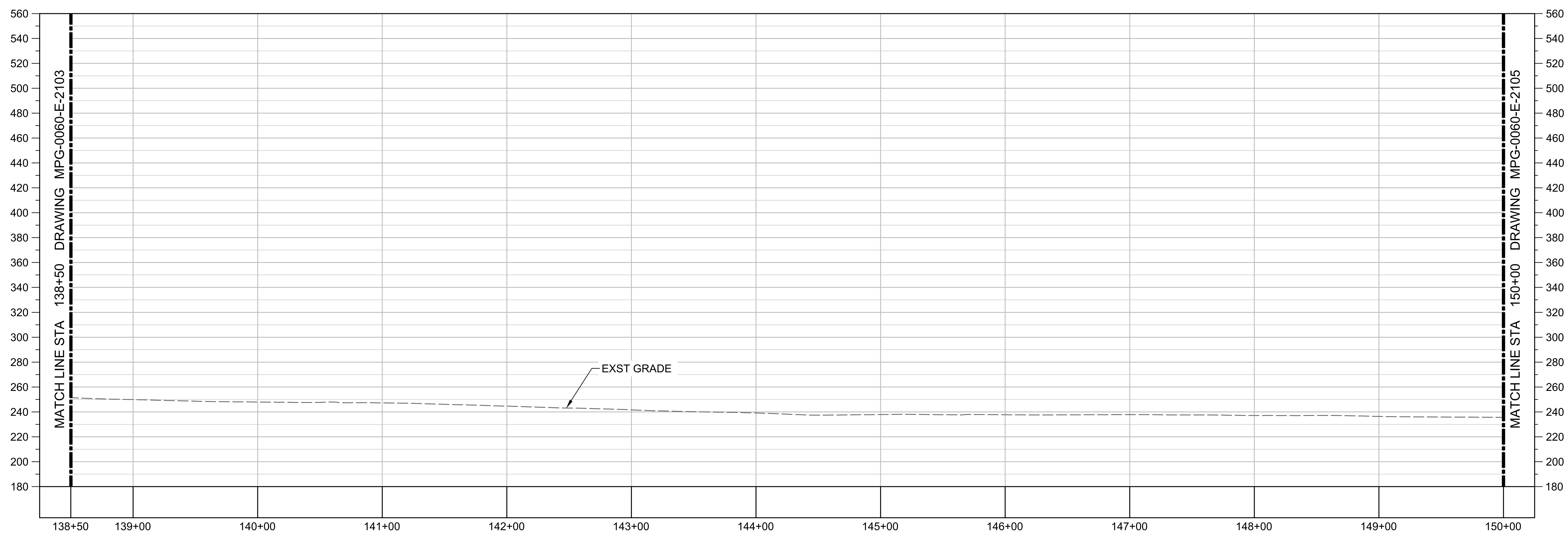
Saved By: JSMITH9




PLAN
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = XX'

## GENERAL NOTES

1. 35' MINIMUM DISTANCE BETWEEN POLES AND CENTERLINE OF PIPELINE.

## SHEET KEY NOTES

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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# SITES RESERVOIR

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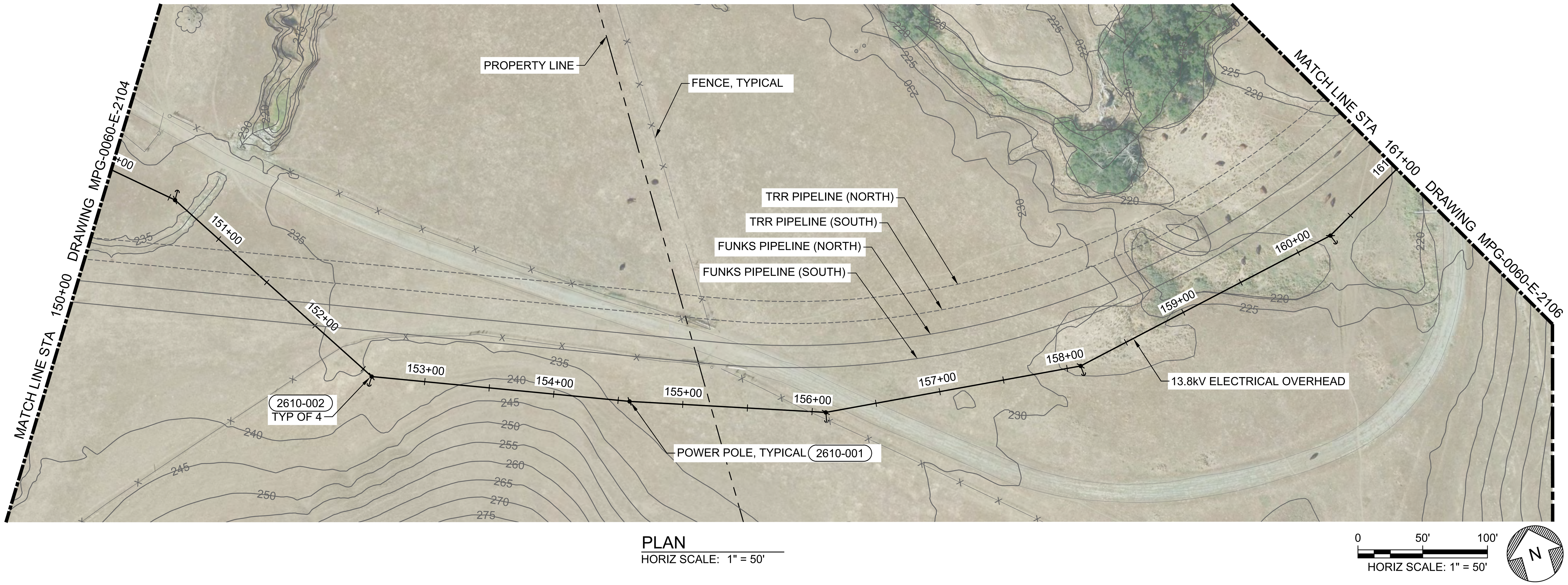
ELECTRICAL
DISTRIBUTION - FUNKS TO INLET / OUTLET STRUCTURE
PLAN AND PROFILE
STA 138+50 TO 150+00

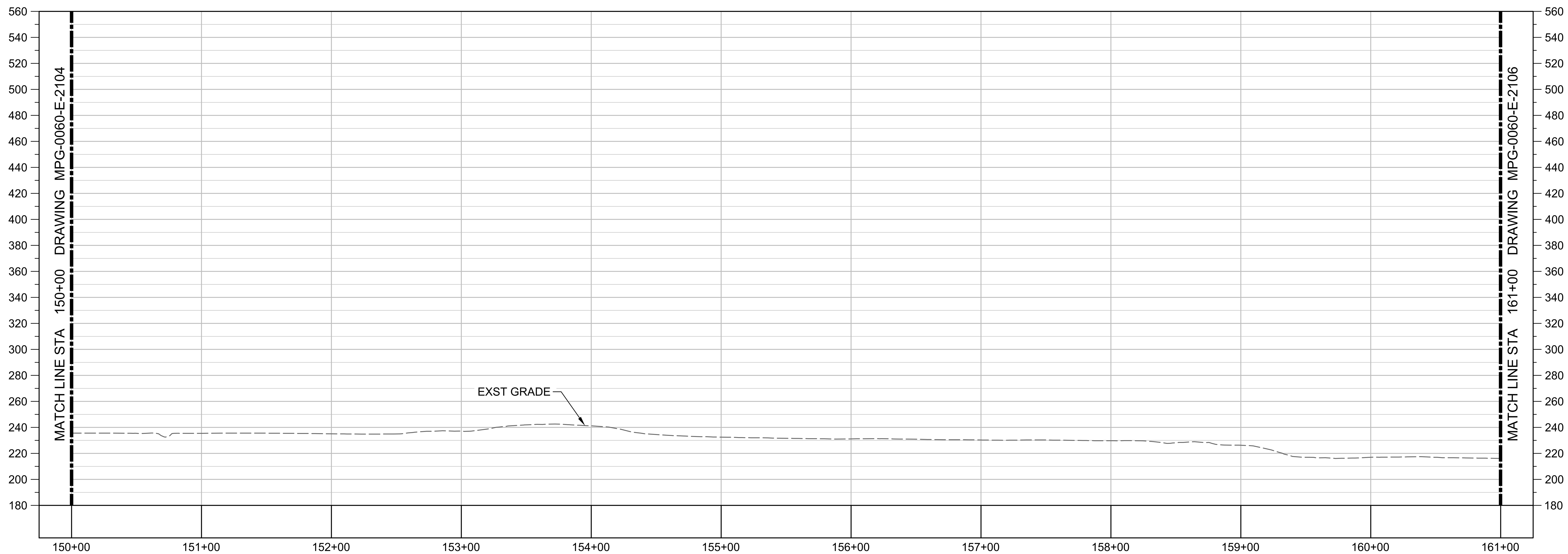
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2104
SHT 14 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION




PLAN
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## GENERAL NOTES

1. 35' MINIMUM DISTANCE BETWEEN POLES AND CENTERLINE OF PIPELINE.

## SHEET KEY NOTES

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO INLET / OUTLET STRUCTURE
PLAN AND PROFILE
STA 150+00 TO 161+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2105
SHT 15 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

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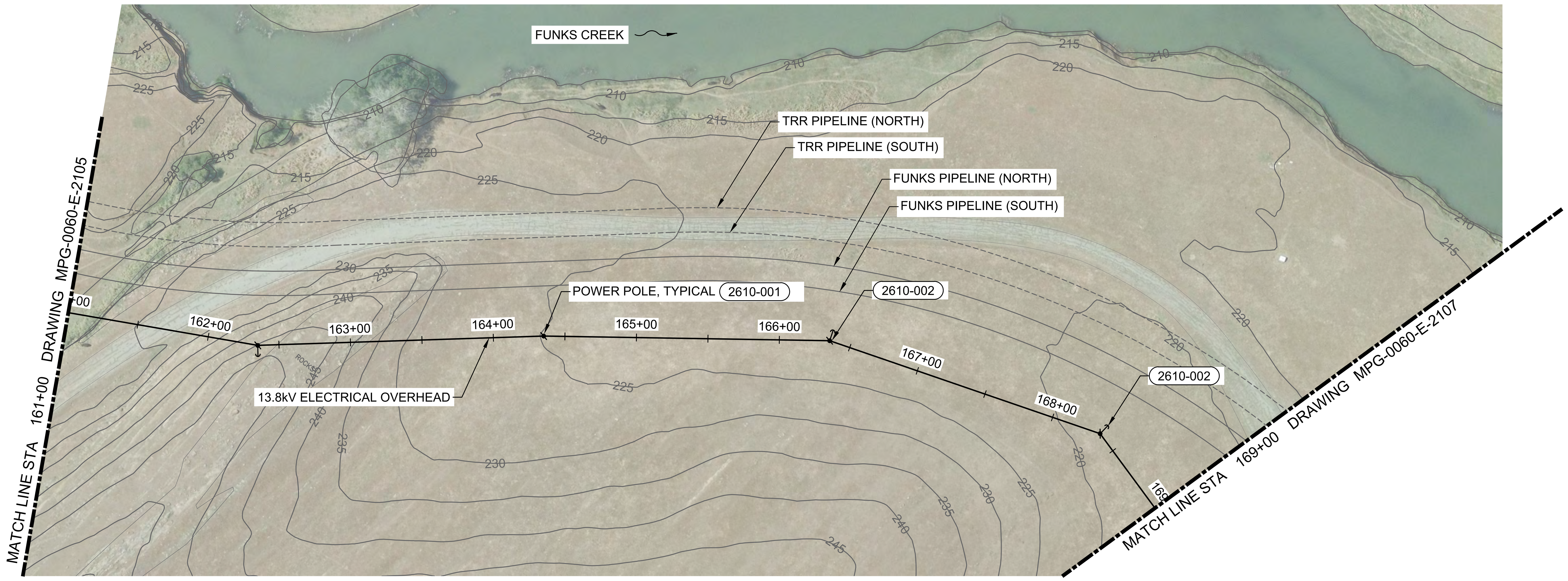
Saved By: JSMITH9

## GENERAL NOTES

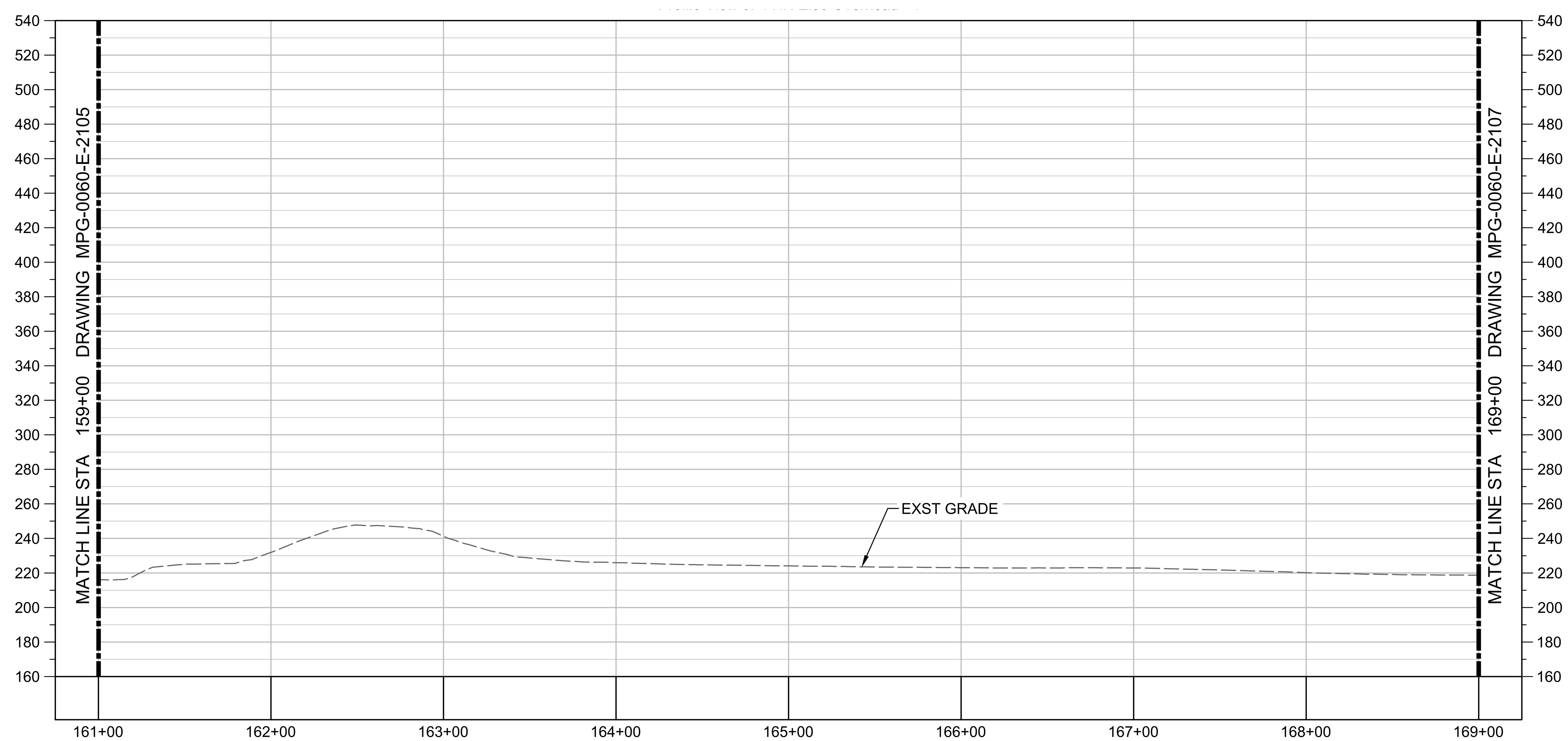
1. 35' MINIMUM DISTANCE BETWEEN POLES AND CENTERLINE OF PIPELINE.




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'

N




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## SHEET KEY NOTES

## KEY MAP

N

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2106.dwg
Plot Date: 2/7/2024 4:40 PM
Saved By: JSMITH9

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

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DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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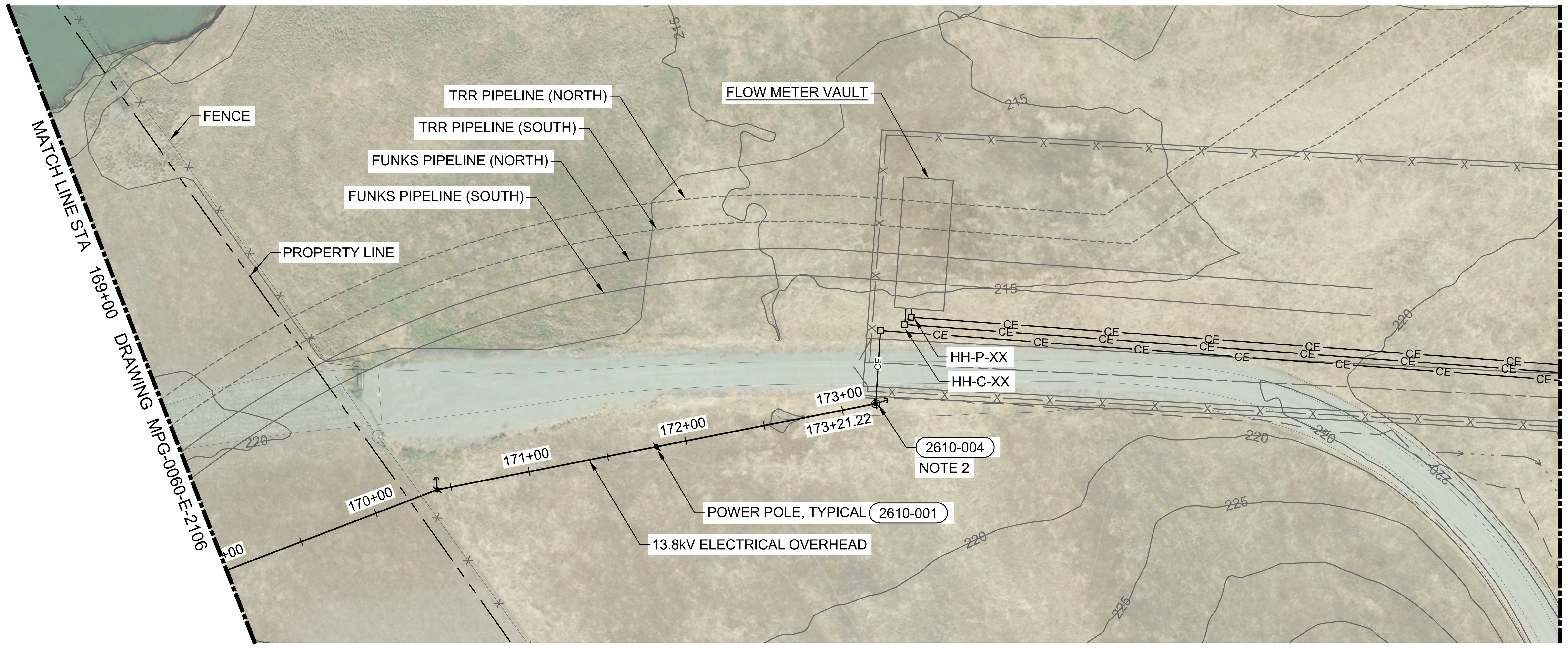
# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO INLET / OUTLET STRUCTURE
PLAN AND PROFILE
STA 161+00 TO 169+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

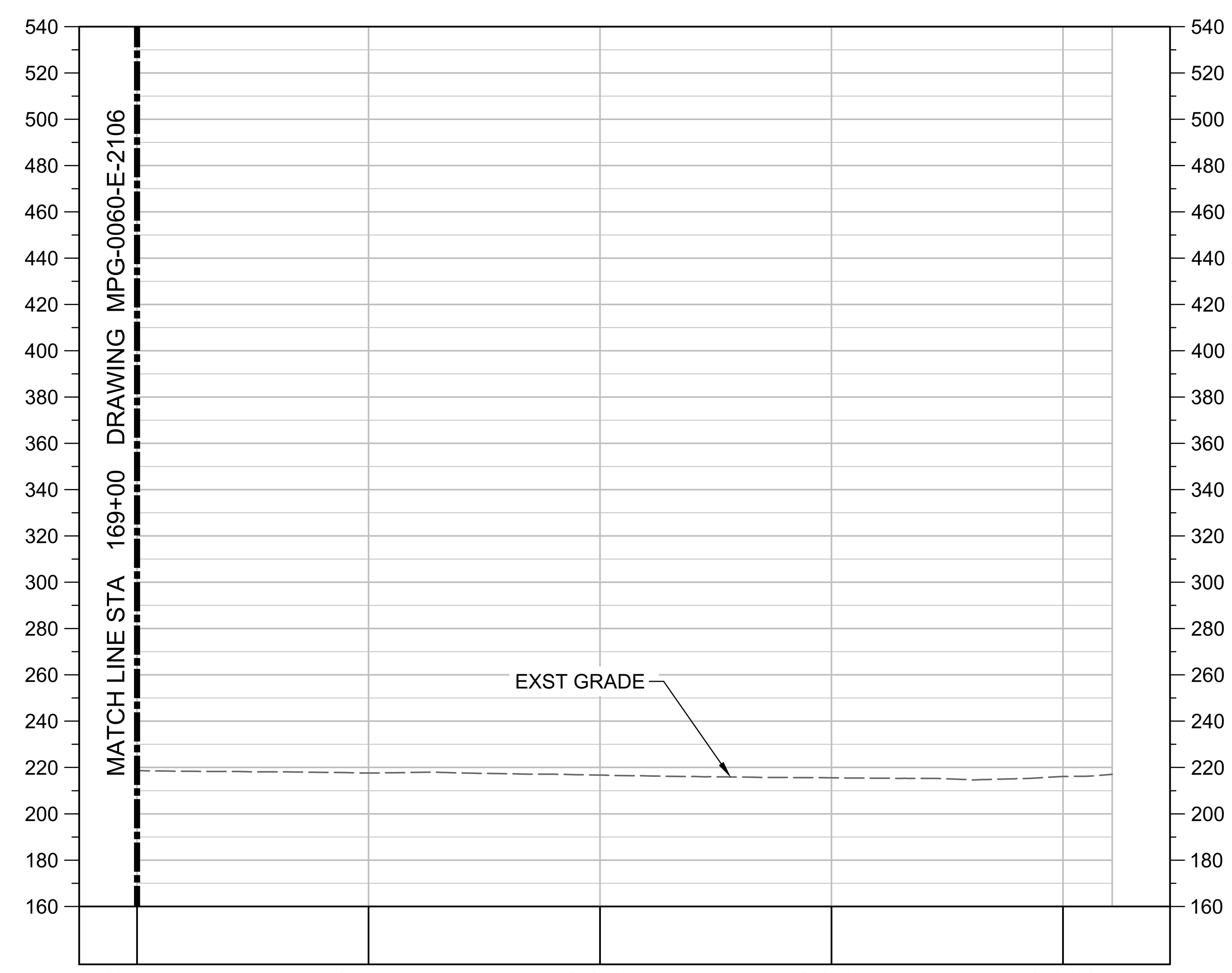
DRAWING NO.
MPG-0060-E-2106
SHT 16 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## GENERAL NOTES

1. FLOW METER VAULT DRAWINGS ARE AS NOTED BELOW: FLOW METER VAULT PLAN: MPG-2190-E-2001.
2. TRANSITION FROM OVERHEAD ELECTRICAL TO CONCRETE ENCASED DUCTBANK.
3. 35' MINIMUM DISTANCE BETWEEN POLES AND CENTERLINE OF PIPELINE.

## SHEET KEY NOTES

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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CRAIG M. CUSWORTH
19120
CALIFORNIA

Sites

# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO INLET / OUTLET STRUCTURE
PLAN AND PROFILE
STA 169+00 TO 173+21.22

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

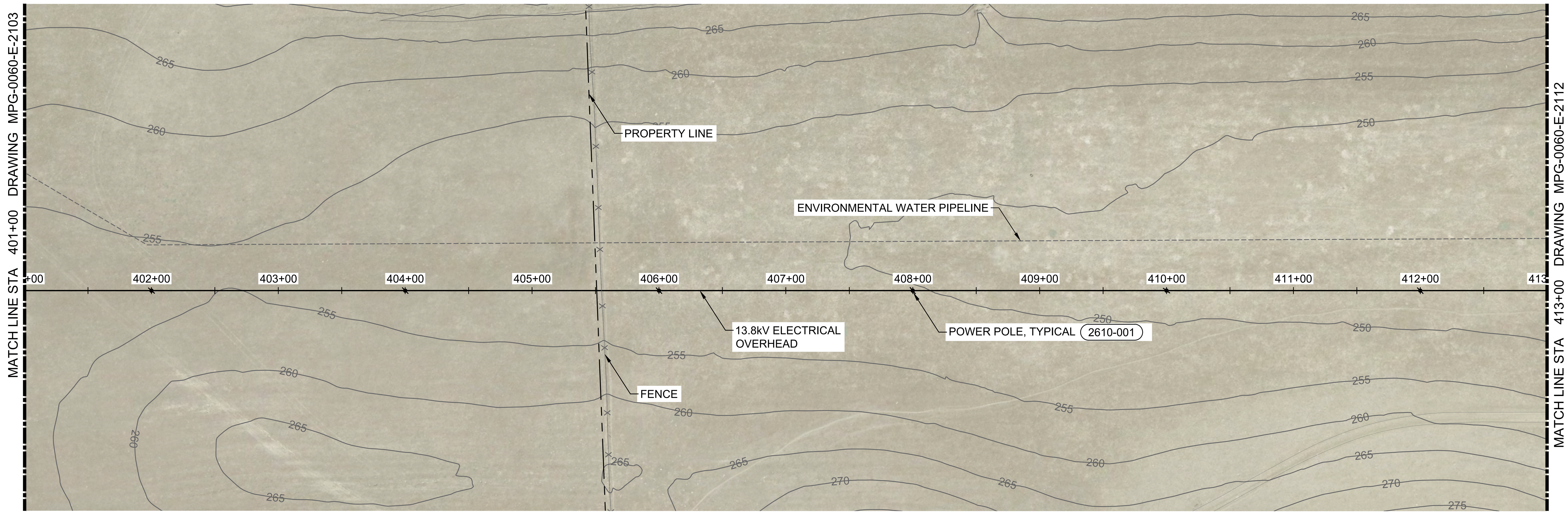
DRAWING NO.
MPG-0060-E-2107
SHT 17 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

Plot Date: 2/9/2024 10:39 AM File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2107.dwg
Saved By: DCAVE

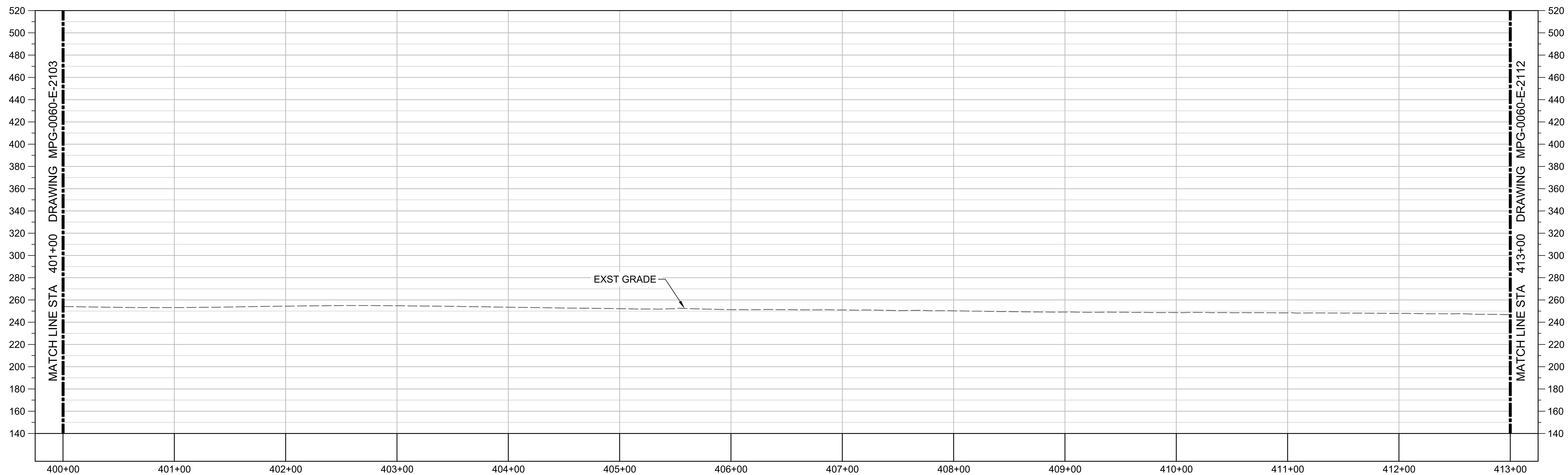
## GENERAL NOTES

1. 35' MINIMUM DISTANCE BETWEEN POLES AND CENTERLINE OF PIPELINE.




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## SHEET KEY NOTES

## KEY MAP

PRELIMINARY - NOT FOR CONSTRUCTION

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2111.dwg
Plot Date: 2/7/2024 4:14 PM
Saved By: JSMITH9

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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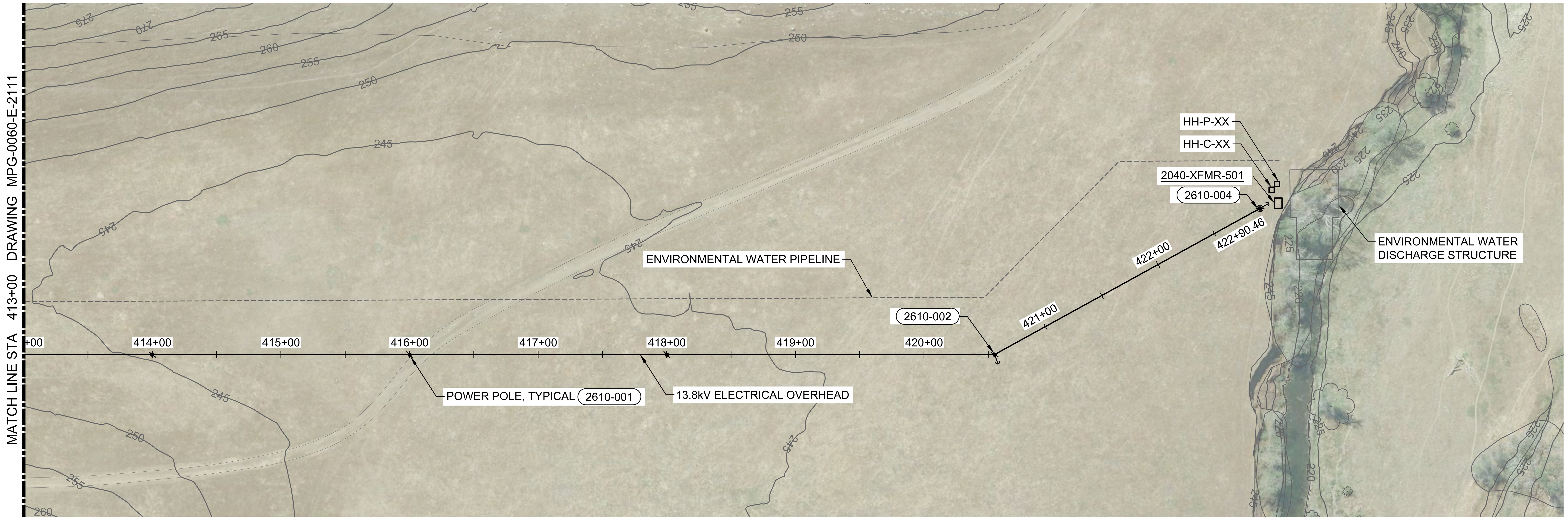
Sites

# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO INLET / OUTLET STRUCTURE
PLAN AND PROFILE
STA 401+00 TO 413+00

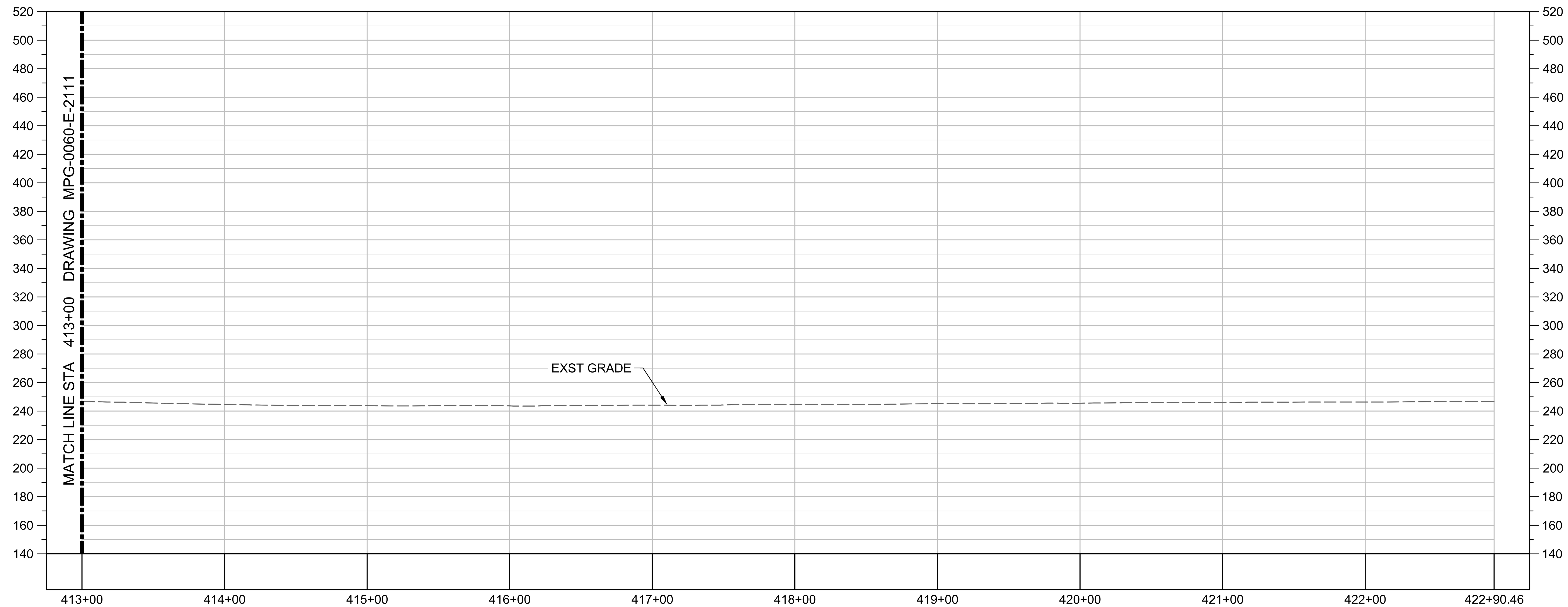
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2111
SHT 18 OF 45




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## GENERAL NOTES

1. DISCHARGE STRUCTURE DRAWINGS ARE AS NOTED BELOW: ENVIRONMENTAL WATER DISCHARGE STRUCTURE PLAN: MPG-2040-E-2001.
2. 35' MINIMUM DISTANCE BETWEEN POLES AND CENTERLINE OF PIPELINE.

## SHEET KEY NOTES

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO INLET / OUTLET STRUCTURE
PLAN AND PROFILE
STA 413+00 TO 424+14.26

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

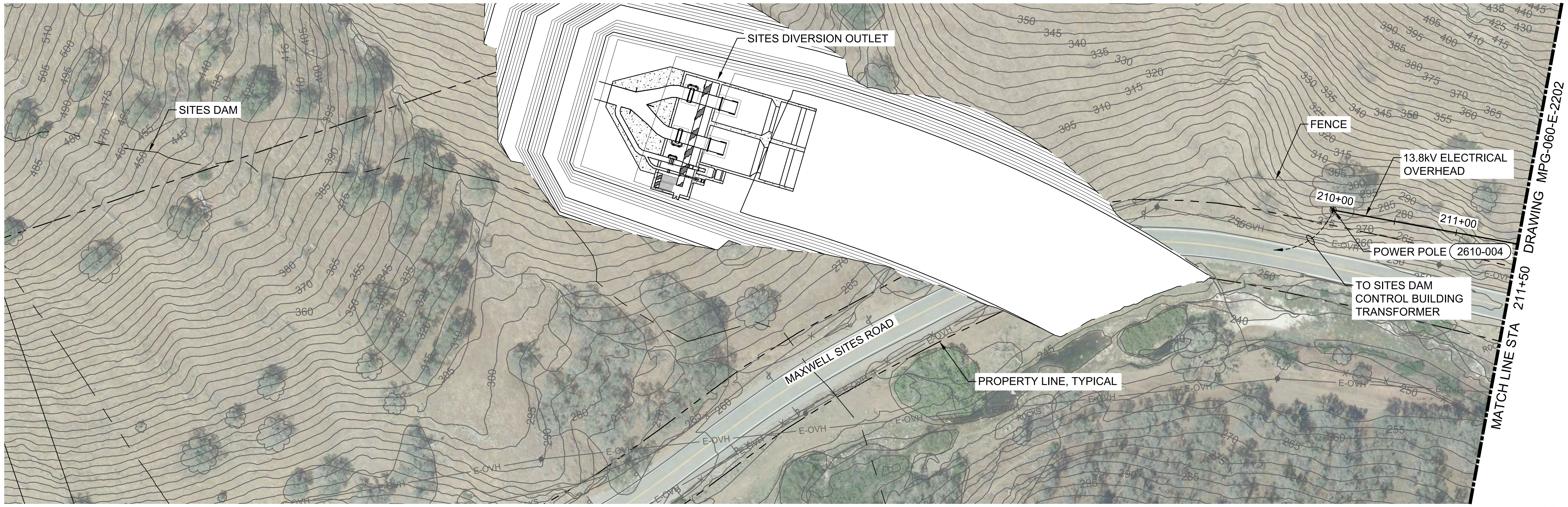
DRAWING NO.
MPG-0060-E-2112
SHT 19 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

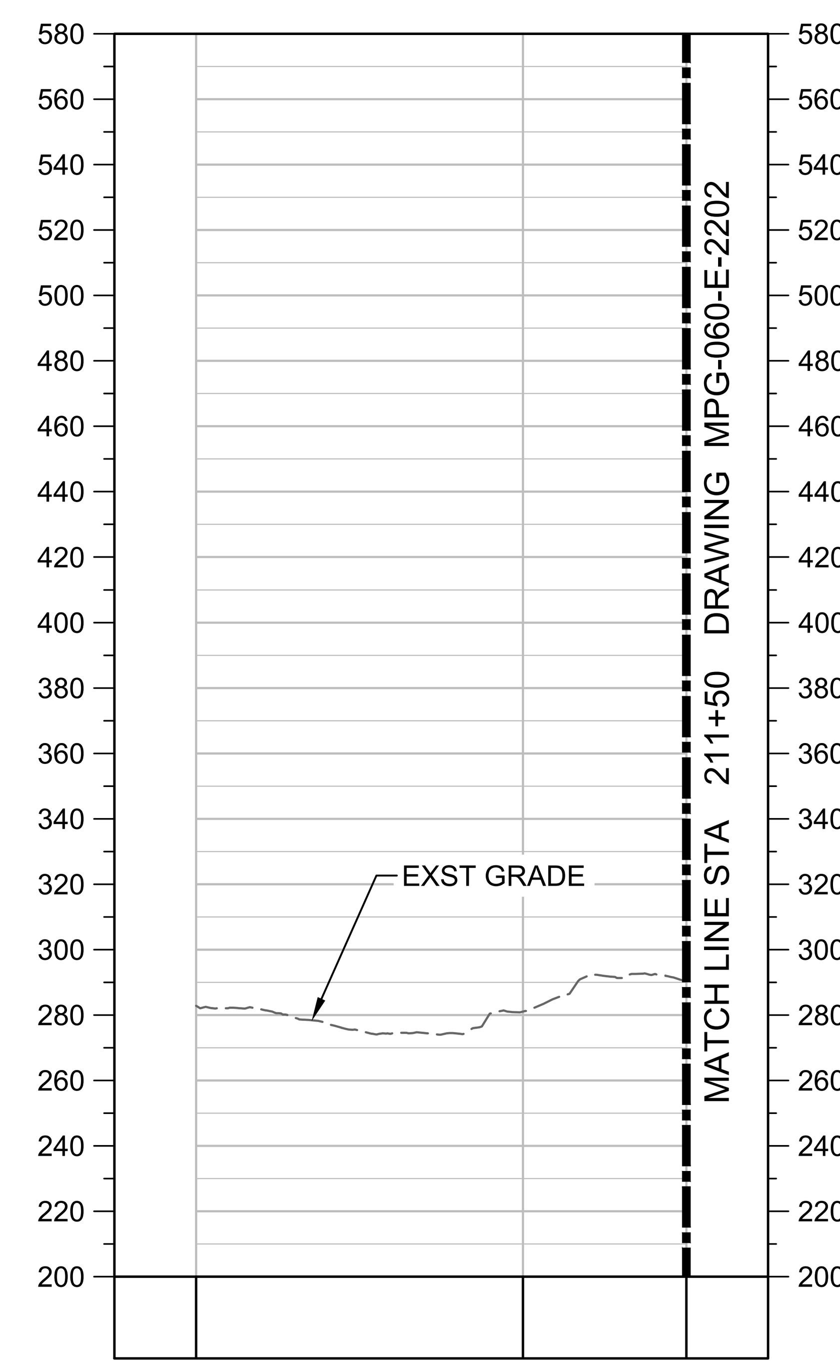
File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2112.dwg
Plot Date: 2/7/2024 3:56 PM
Saved By: JSMITH9

## GENERAL NOTES

1. MINIMUM SPACING BETWEEN NEW AND EXISTING OVERHEAD LINES TO BE COORDINATED WITH OWNING UTILITY.




PLAN
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## SHEET KEY NOTES

## KEY MAP

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2201.dwg

Plot Date: 2/8/2024 2:49 PM
Saved By: JSMITH9

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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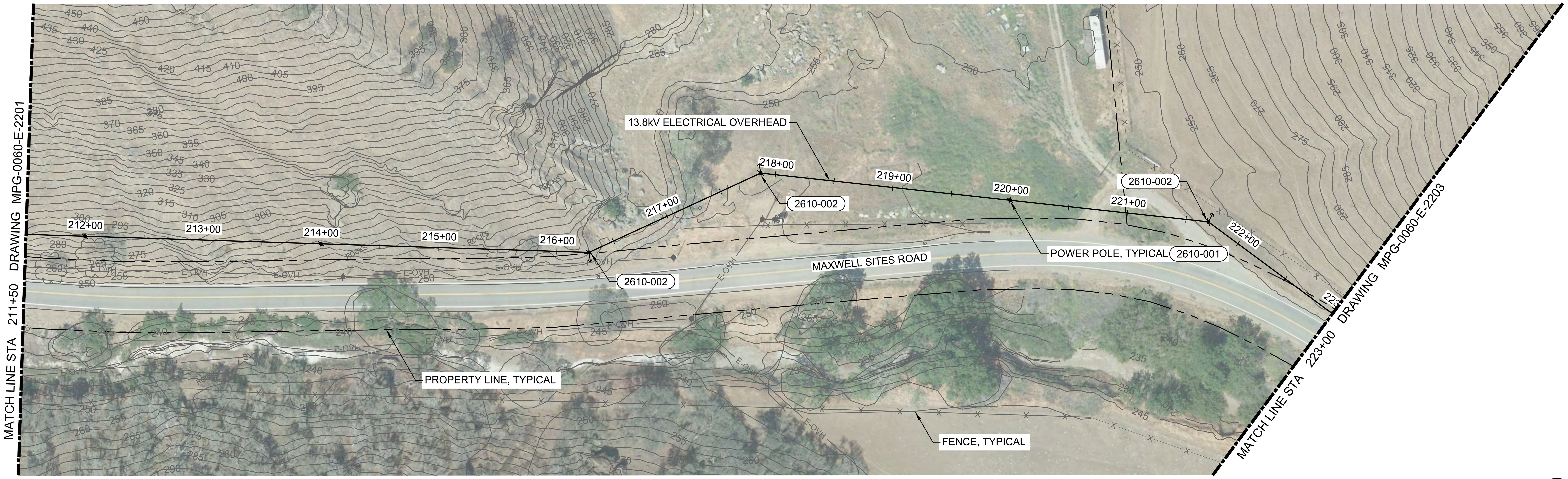
# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 210+00 TO 211+50

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

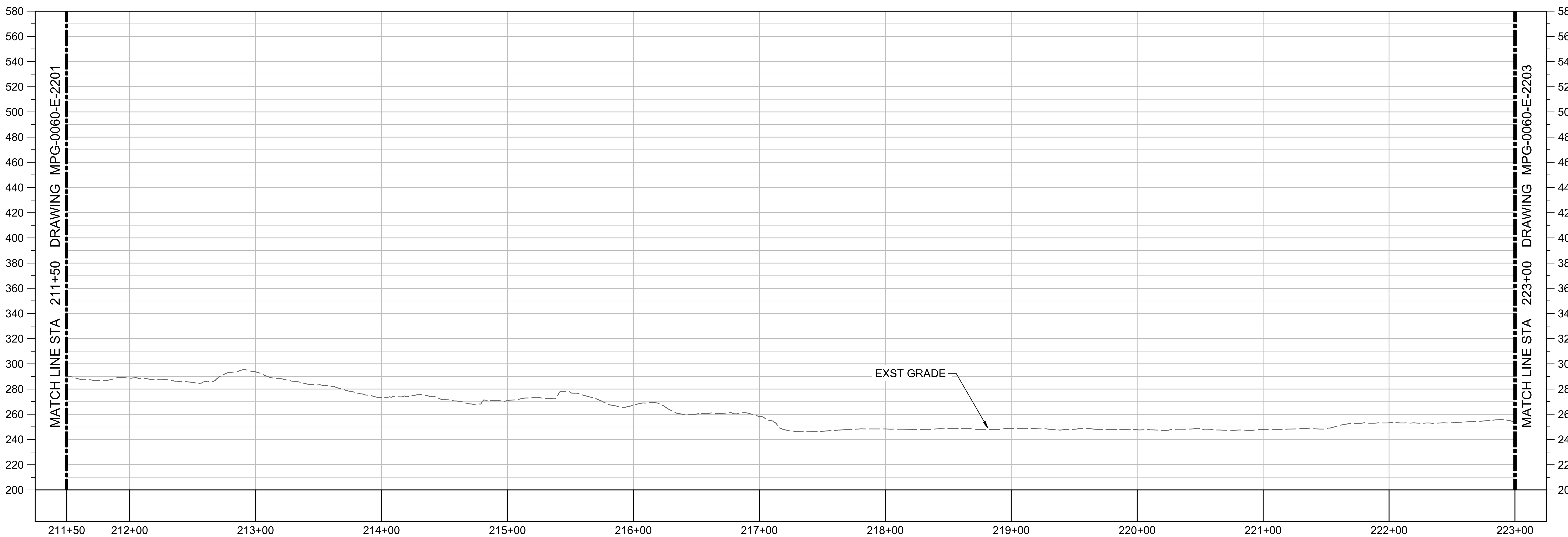
DRAWING NO.
MPG-0060-E-2201
SHT 20 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## GENERAL NOTES

1. MINIMUM SPACING BETWEEN NEW AND EXISTING OVERHEAD LINES TO BE COORDINATED WITH OWNING UTILITY.

## SHEET KEY NOTES

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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# SITES RESERVOIR

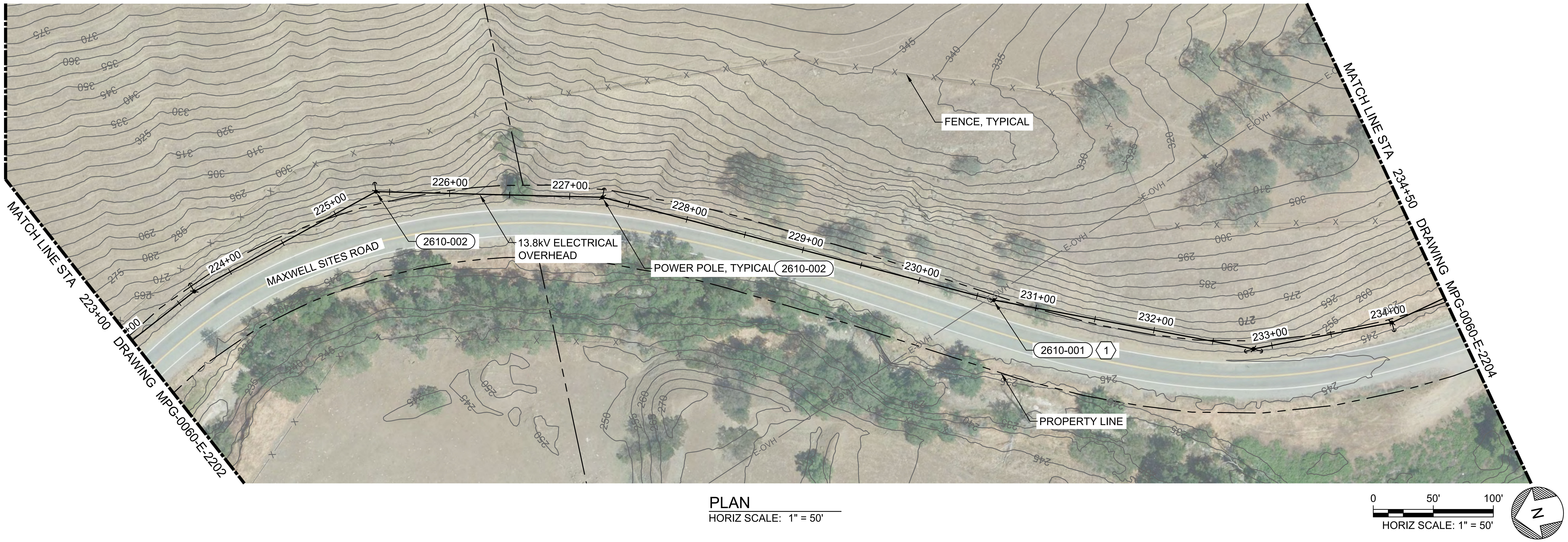
MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 211+50 TO 223+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

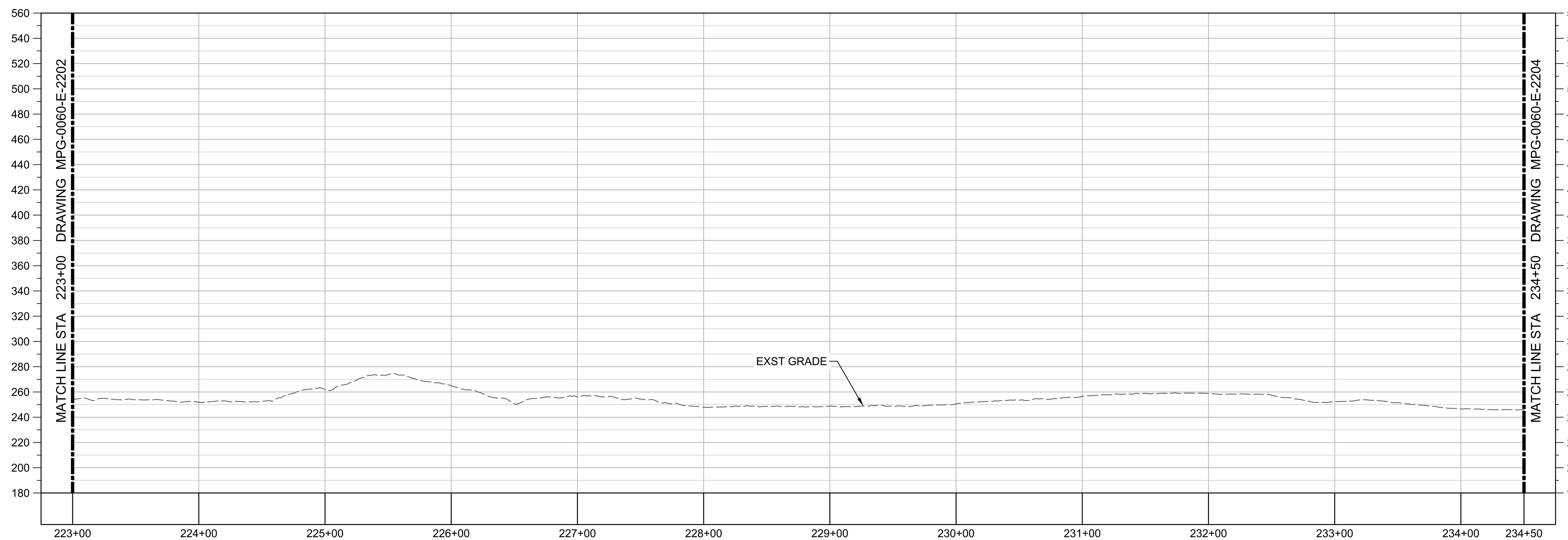
DRAWING NO.
MPG-0060-E-2202
SHT 21 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2202.dwg
Plot Date: 2/8/2024 8:16 PM
Saved By: JSMITH9




PLAN
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## GENERAL NOTES

1. MINIMUM SPACING BETWEEN NEW AND EXISTING OVERHEAD LINES TO BE COORDINATED WITH OWNING UTILITY.

## SHEET KEY NOTES

1. POWER LINE CROSSING TO BE COORDINATED WITH OWNING UTILITY.

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 223+00 TO 234+50

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

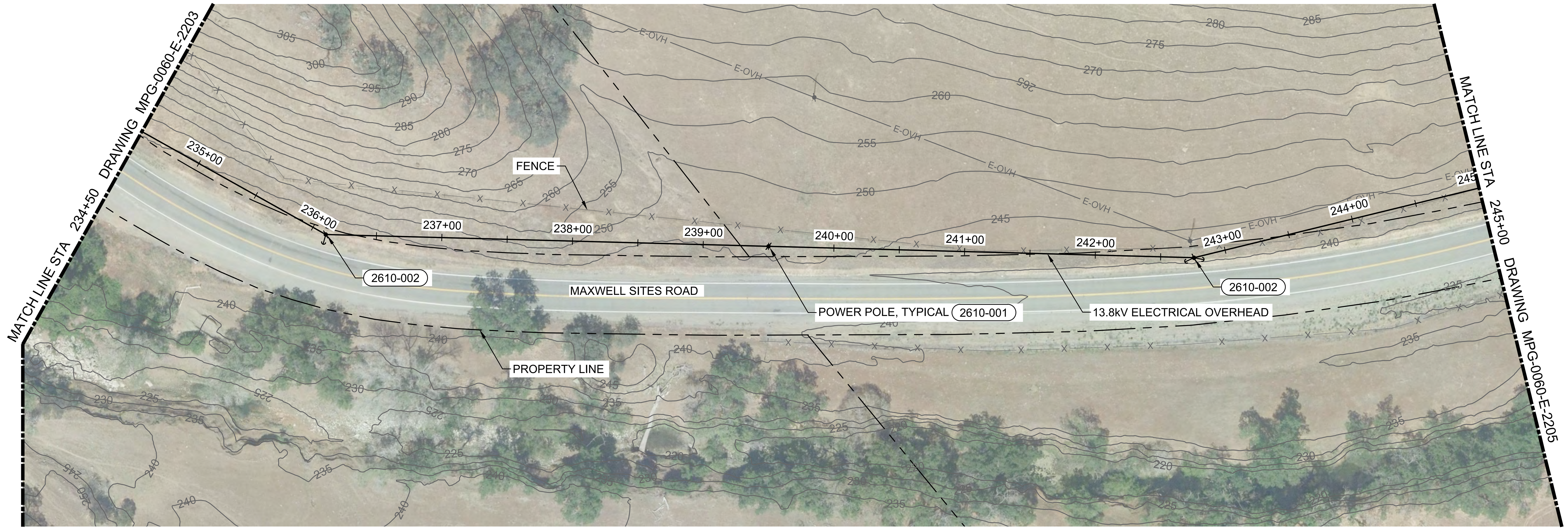
DRAWING NO.
MPG-0060-E-2203
SHT 22 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2203.dwg
Plot Date: 2/7/2024 12:46 AM
Saved By: JSMITH9

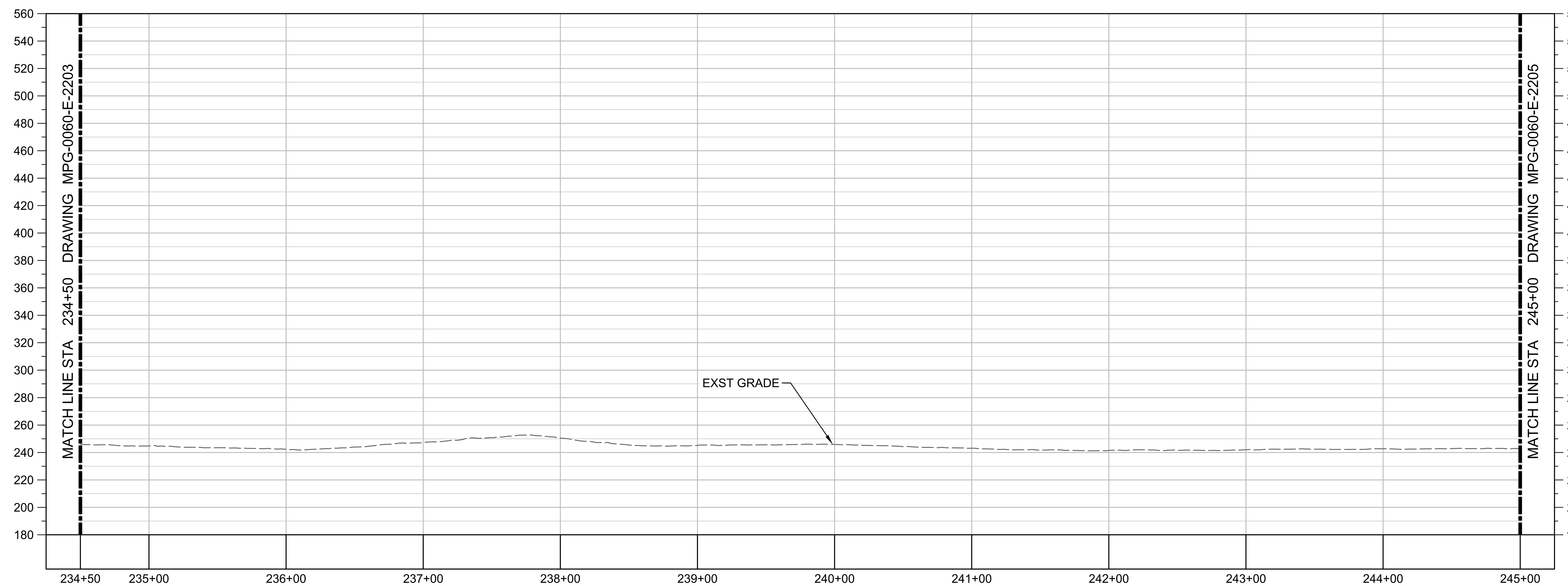
## GENERAL NOTES

1. MINIMUM SPACING BETWEEN NEW AND EXISTING OVERHEAD LINES TO BE COORDINATED WITH OWNING UTILITY.




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## SHEET KEY NOTES

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024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# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 234+50 TO 245+00

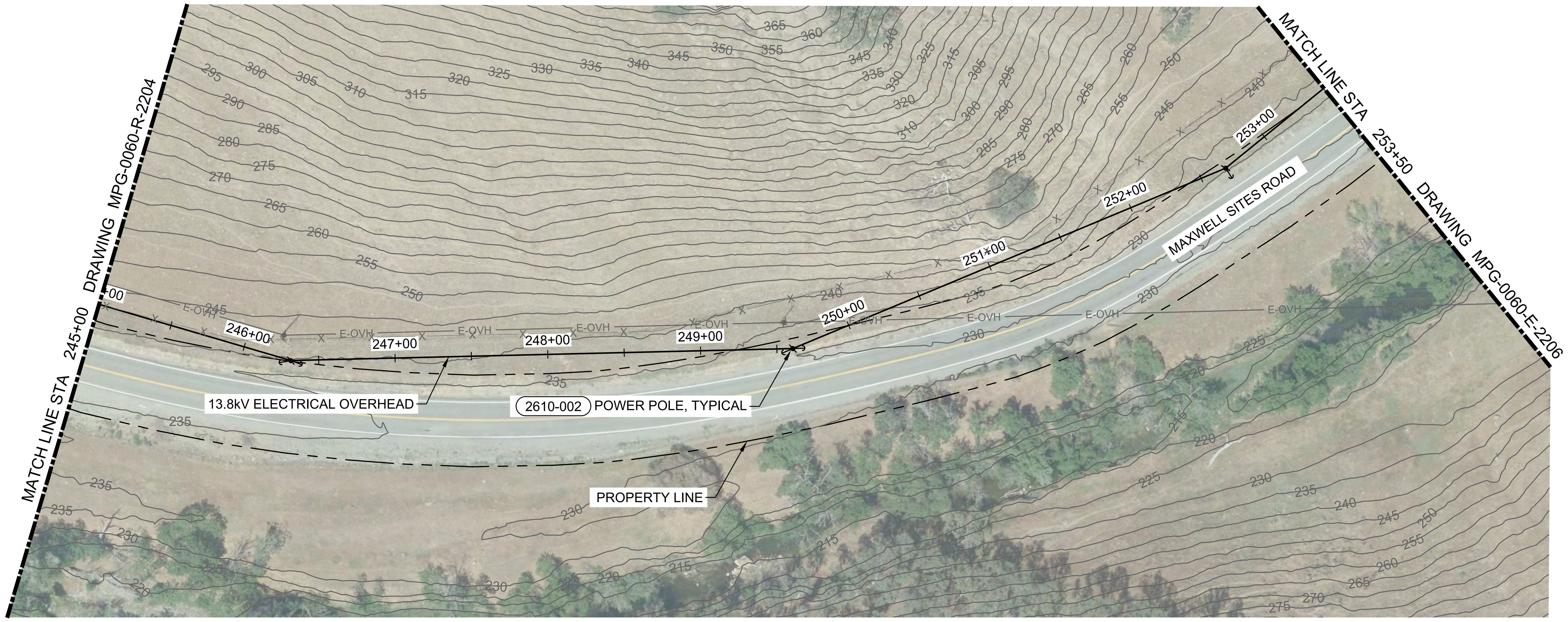
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2204
SHT 23 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

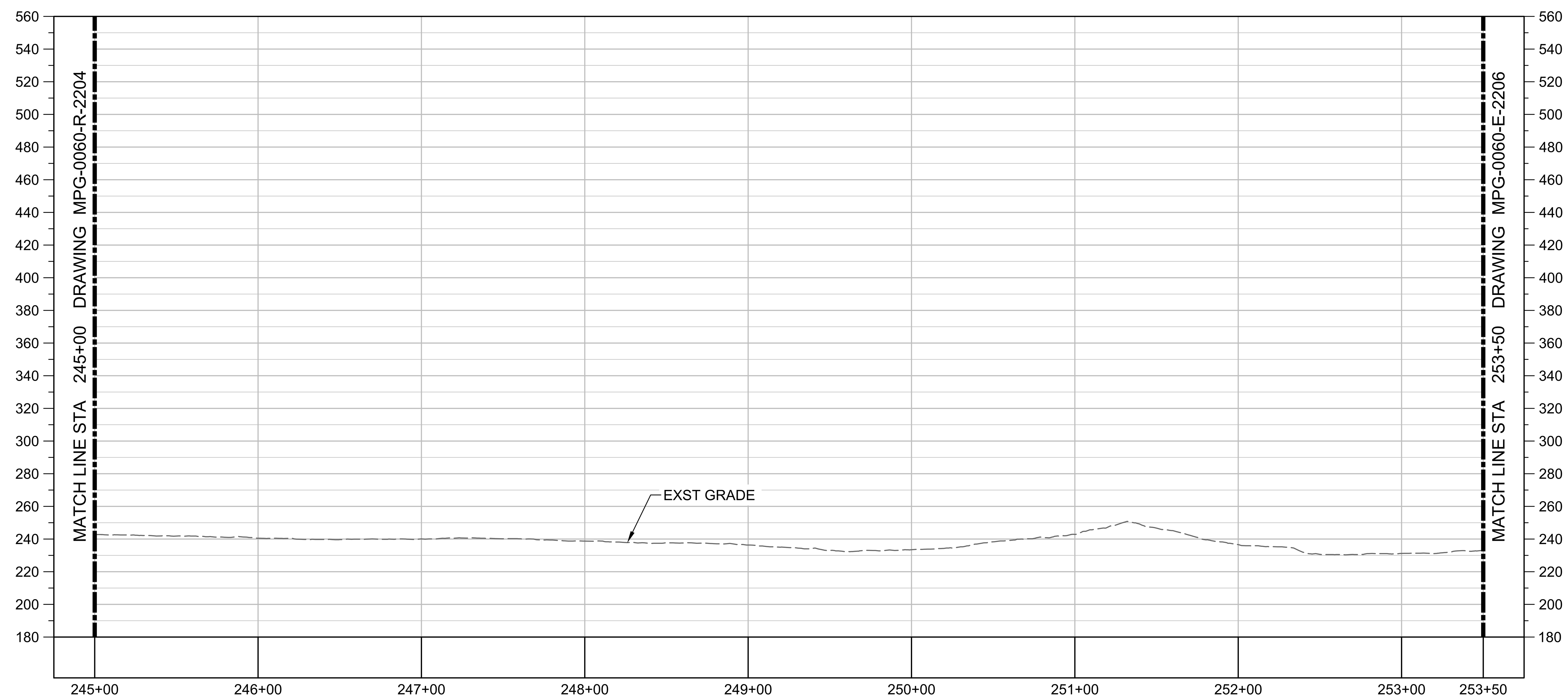
## GENERAL NOTES

1. MINIMUM SPACING BETWEEN NEW AND EXISTING OVERHEAD LINES TO BE COORDINATED WITH OWNING UTILITY.




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## SHEET KEY NOTES

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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# SITES RESERVOIR

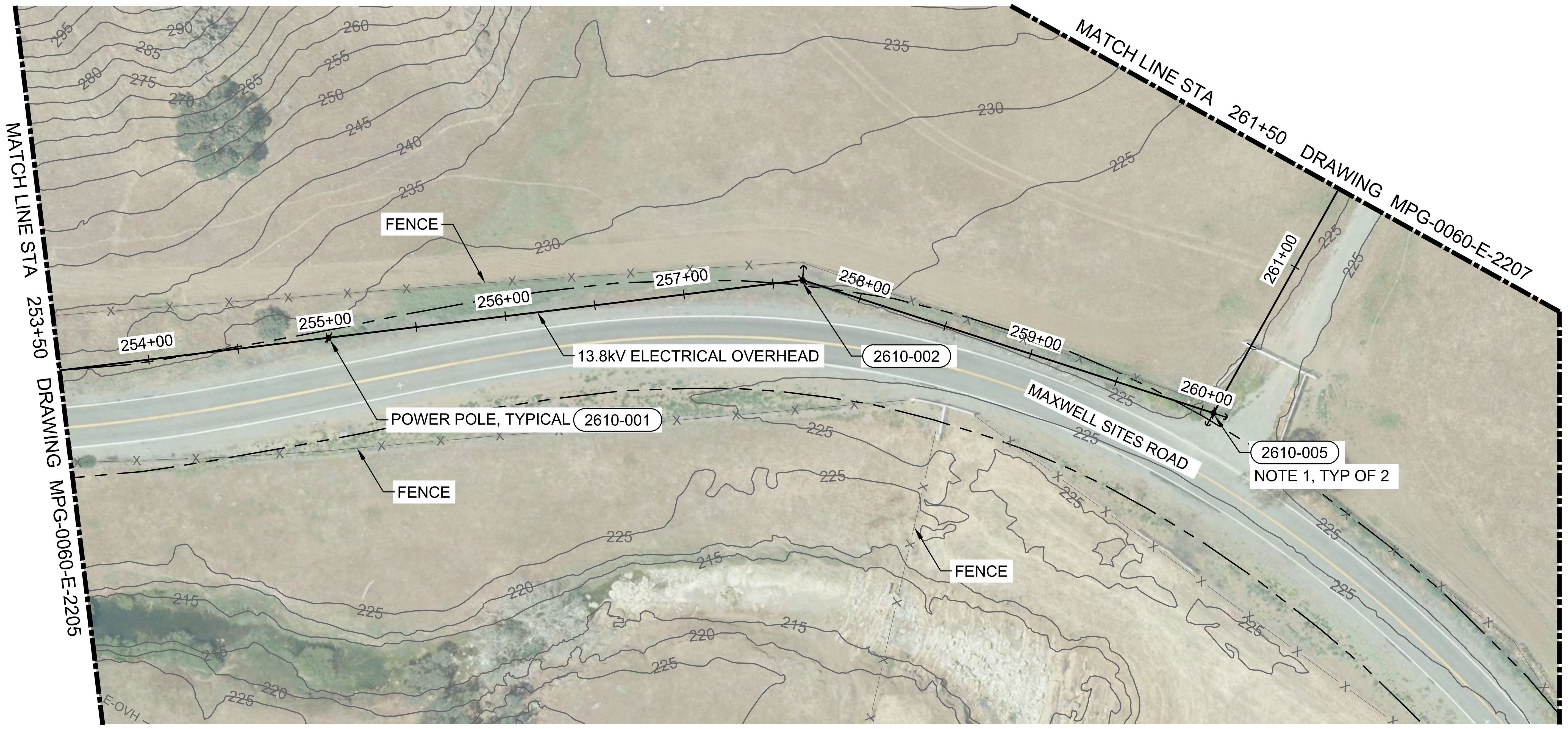
MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 245+00 TO 253+50

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

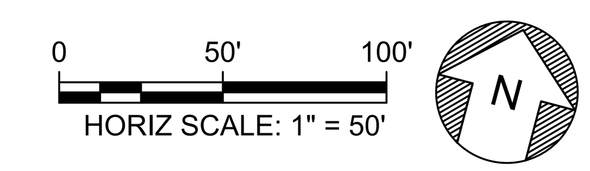
DRAWING NO.
MPG-0060-E-2205
SHT 24 OF 45

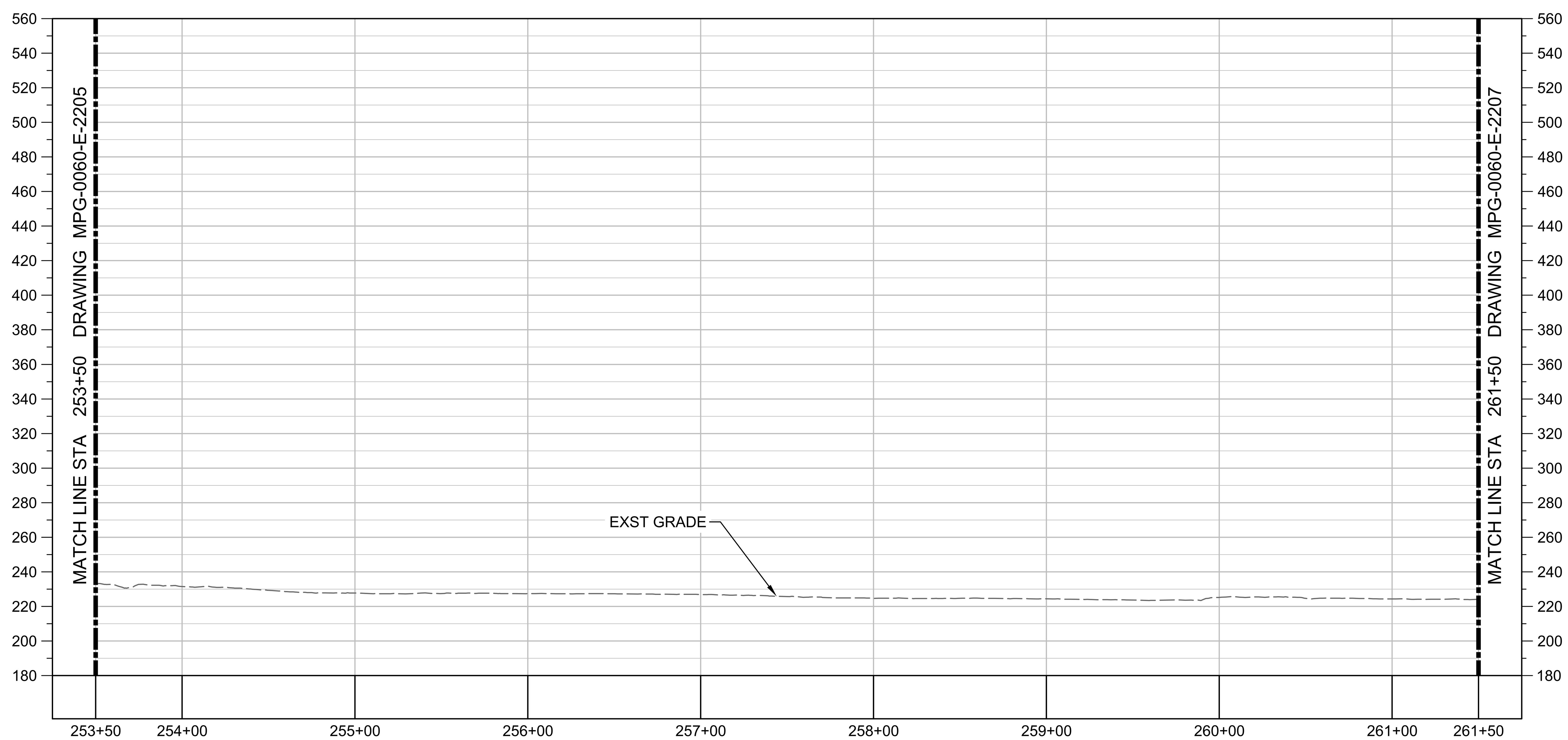
PRELIMINARY - NOT FOR CONSTRUCTION

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2205.dwg
Plot Date: 2/7/2024 12:29 AM
Saved By: JSMITH9




PLAN
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## GENERAL NOTES

1. FURNISH GUY WIRES WITH YELLOW GUY MARKERS.

## SHEET KEY NOTES

## KEY MAP

PRELIMINARY - NOT FOR CONSTRUCTION

Plot Date: 2/7/2024 12:59 AM File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2206.dwg
Saved By: JSMITH9

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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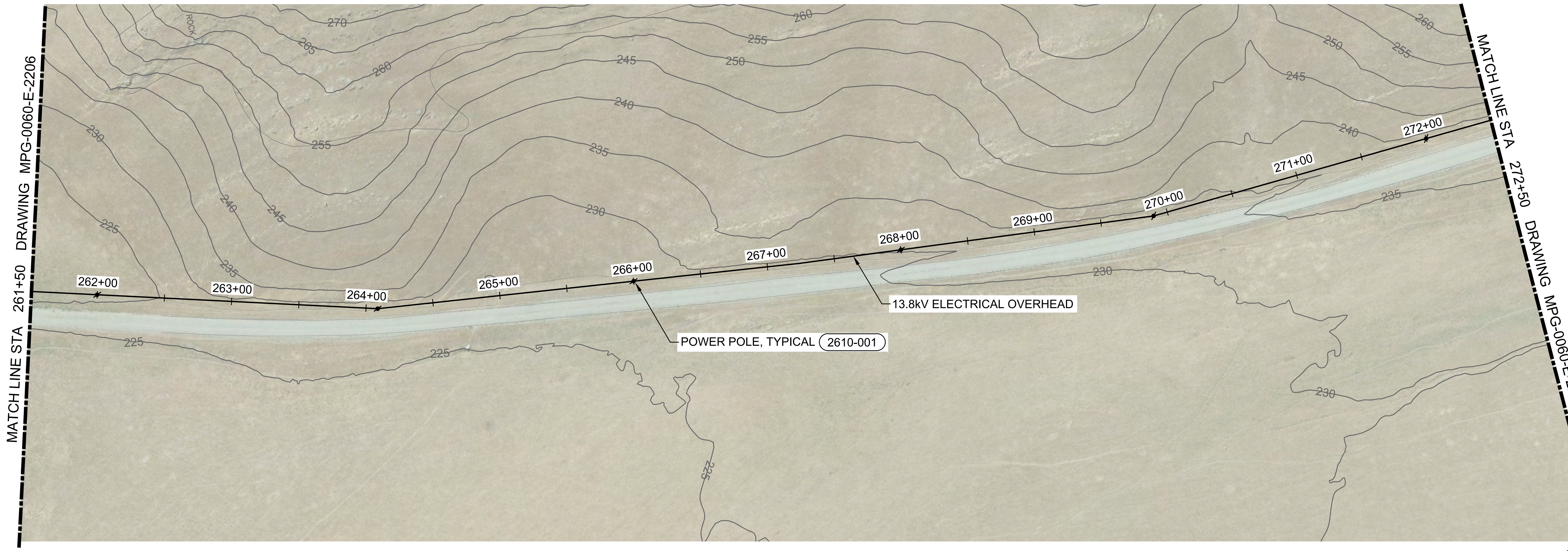
SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 253+50 TO 261+50

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2206
SHT 25 OF 45

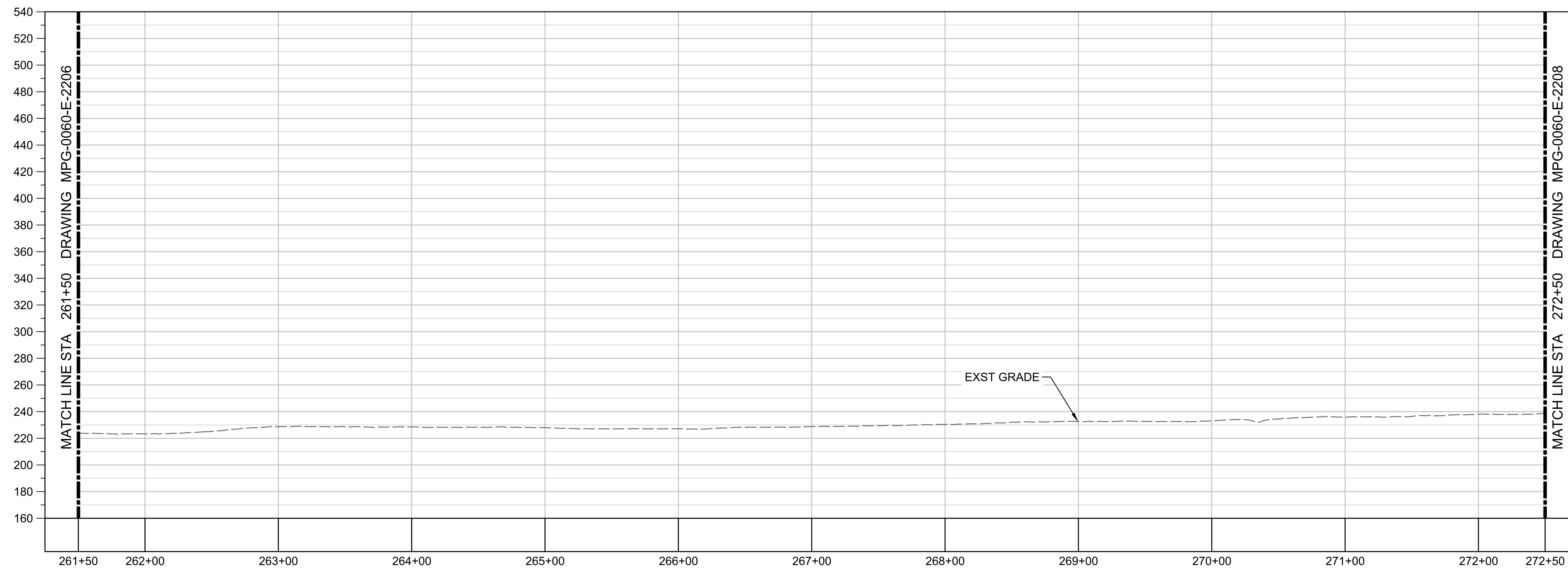
## GENERAL NOTES




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'

## SHEET KEY NOTES




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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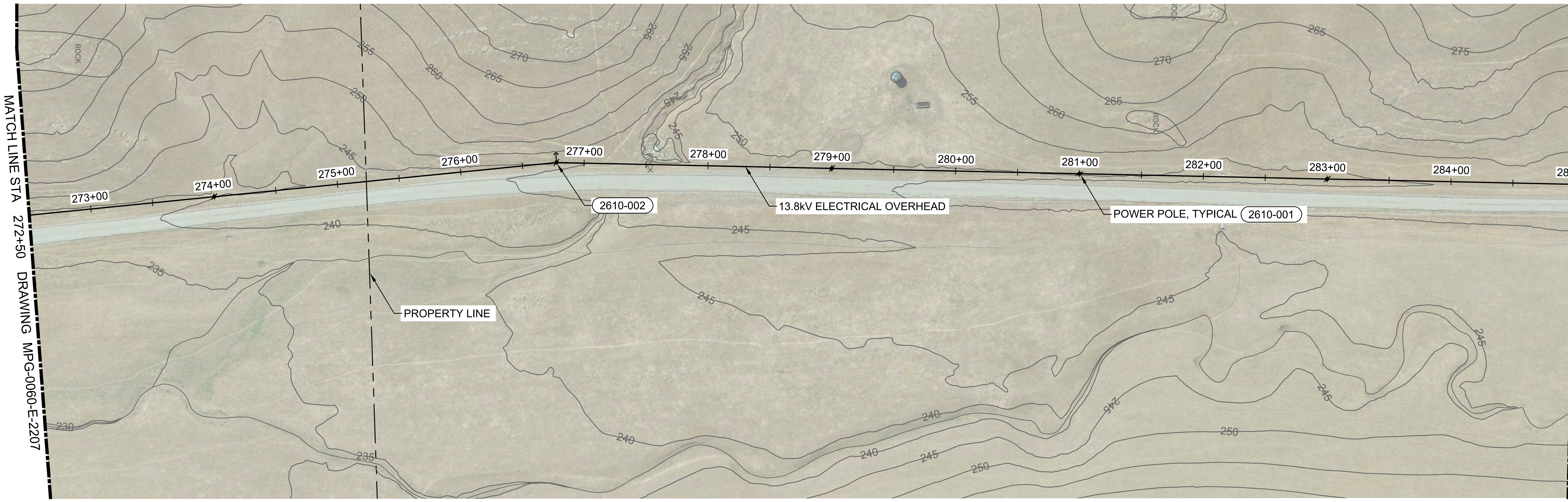
# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 261+50 TO 272+50

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

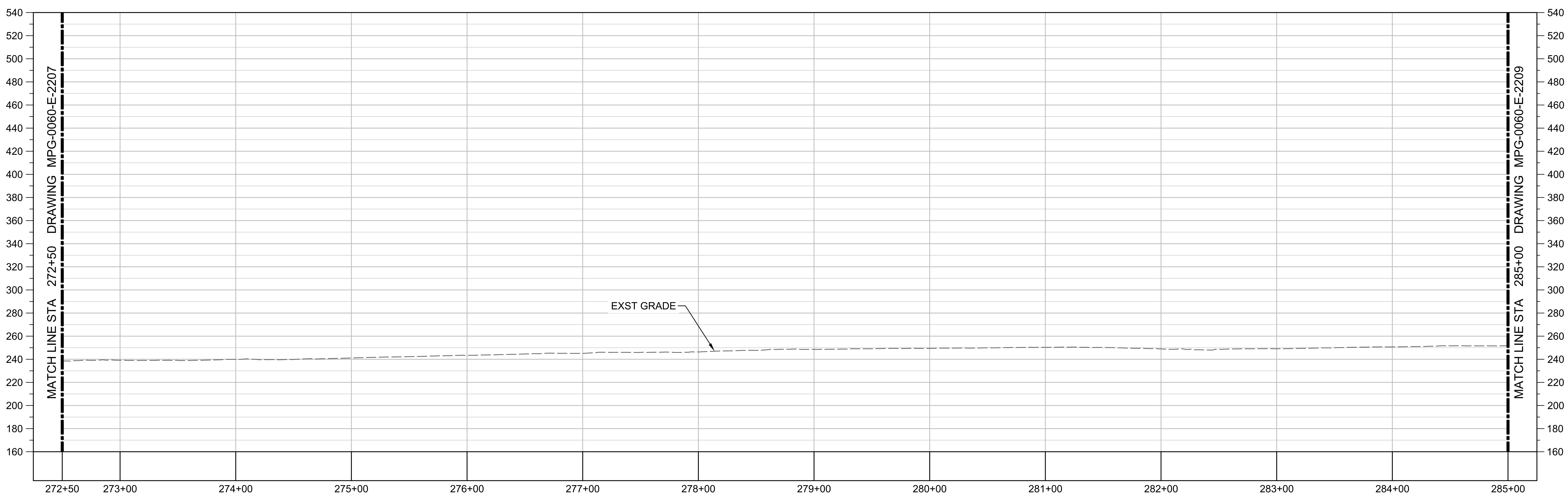
DRAWING NO.
MPG-0060-E-2207
SHT 26 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

GENERAL NOTES

SHEET KEY NOTES

KEY MAP

PRELIMINARY - NOT FOR CONSTRUCTION

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2208.dwg
Plot Date: 2/7/2024 3:47 PM
Saved By: JSMITH9

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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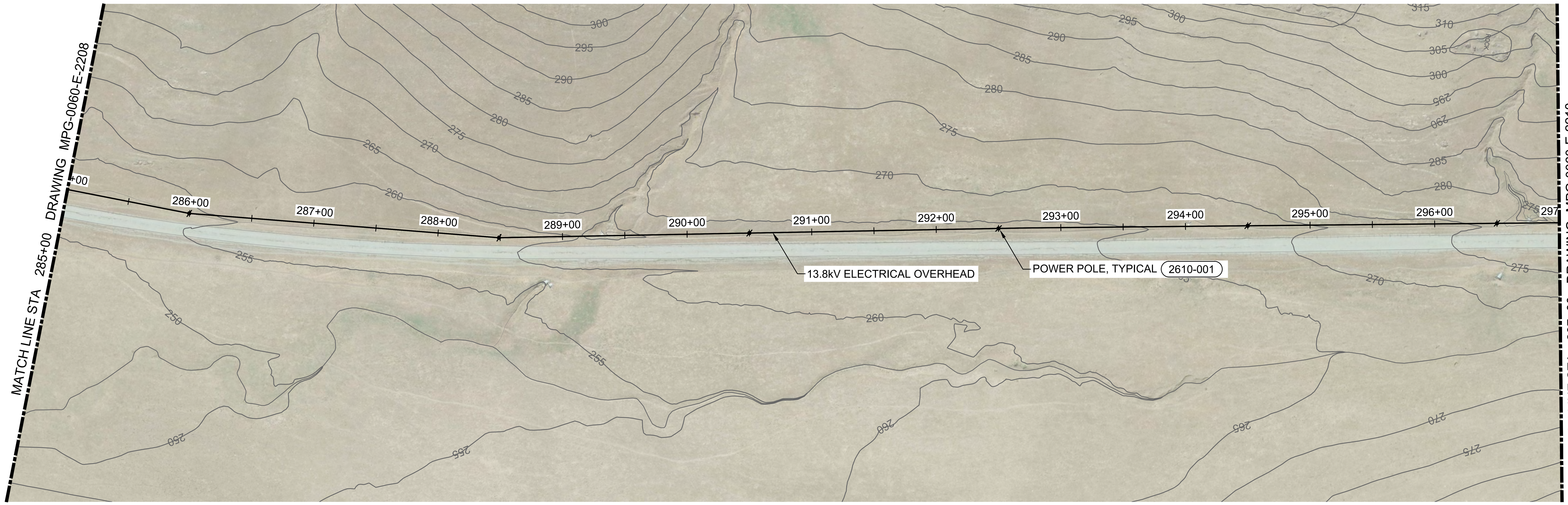
# SITES RESERVOIR

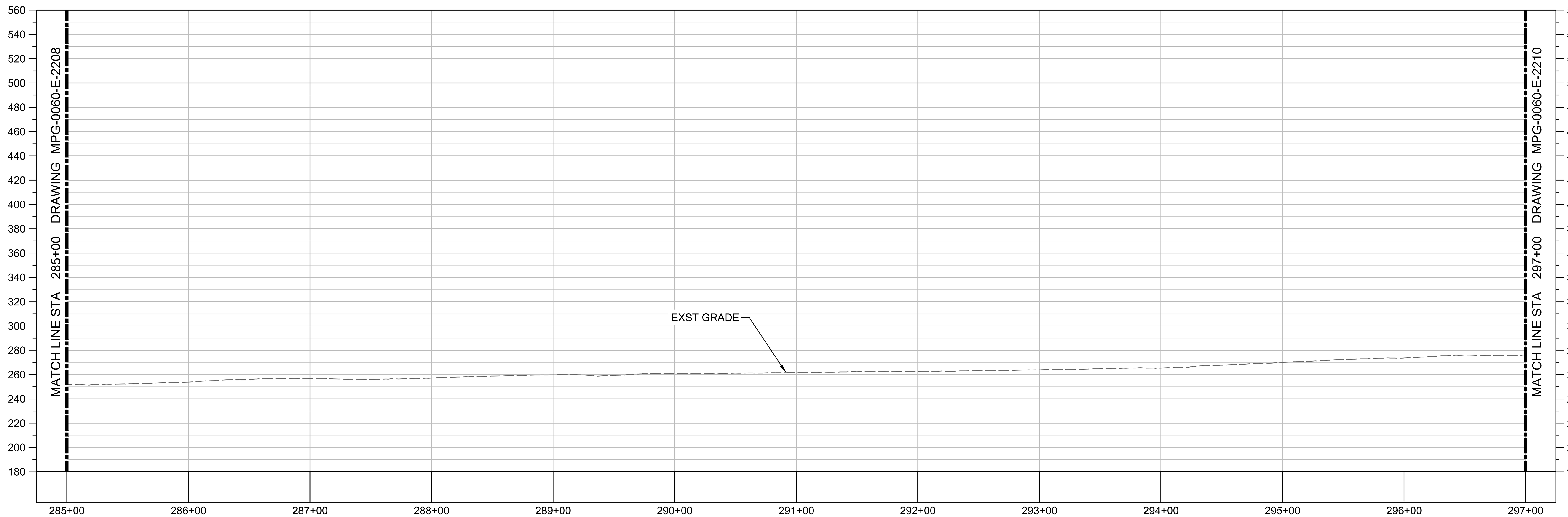
MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 272+50 TO 285+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2208
SHT 27 OF 45




PLAN
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## GENERAL NOTES

## SHEET KEY NOTES

## KEY MAP

PRELIMINARY - NOT FOR CONSTRUCTION

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2209.dwg
Plot Date: 2/7/2024 4:01 PM
Saved By: JSMITH9

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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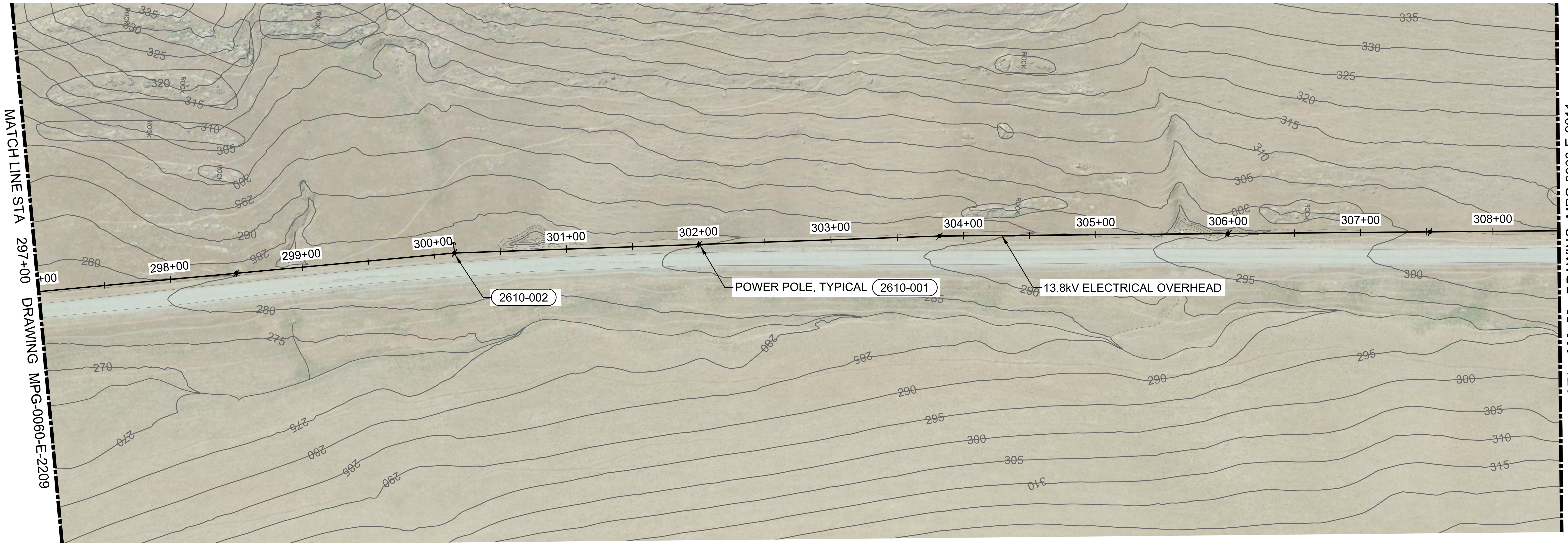
# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 285+00 TO 297+00

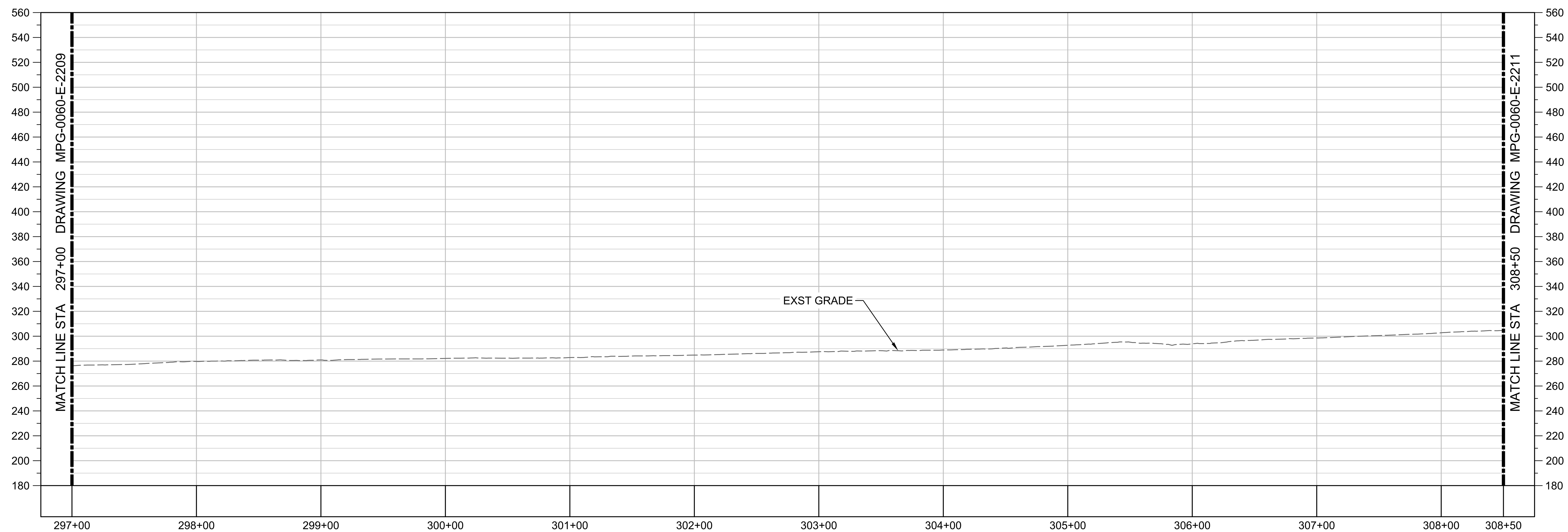
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2209
SHT 28 OF 45




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## GENERAL NOTES

## SHEET KEY NOTES

## KEY MAP

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2210.dwg

Plot Date: 2/7/2024 4:09 PM
Saved By: JSMITH9

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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REGISTERED PROFESSIONAL ENGINEER
CRAIG M. CUSWORTH
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CALIFORNIA

Sites

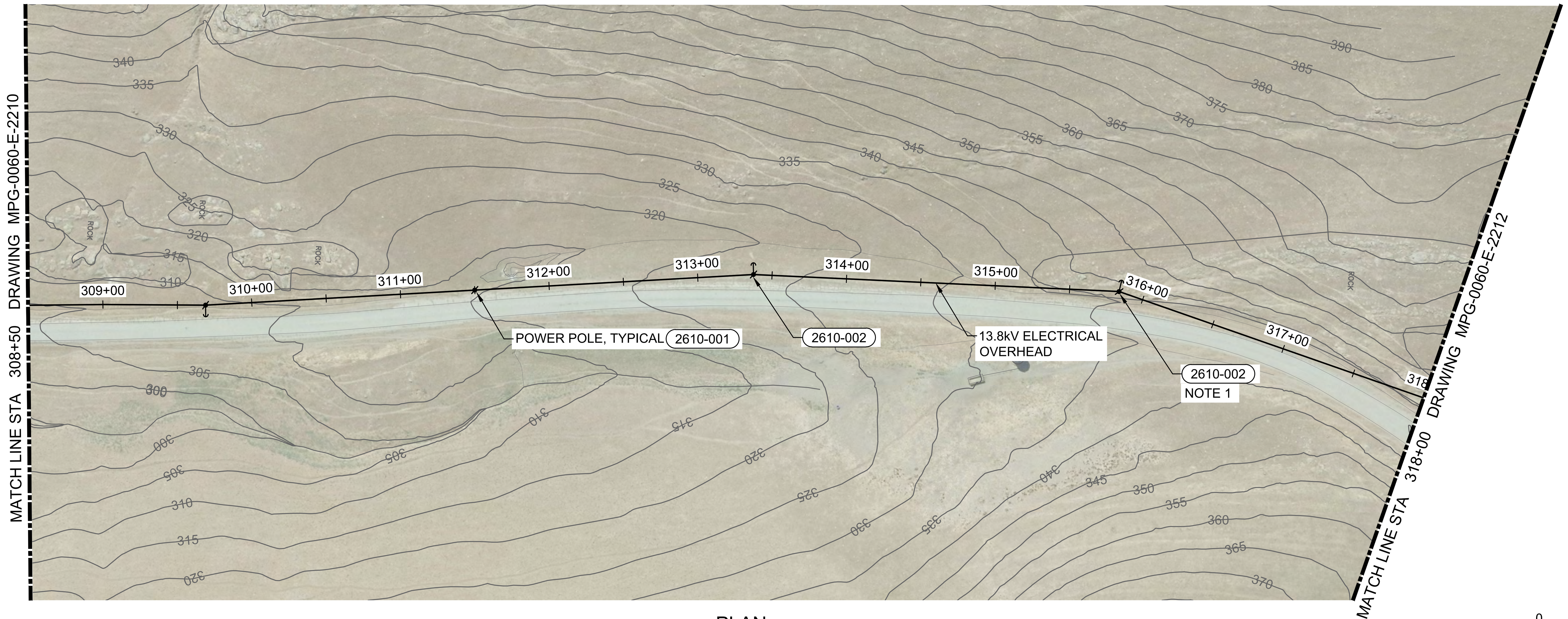
# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 297+00 TO 308+50

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

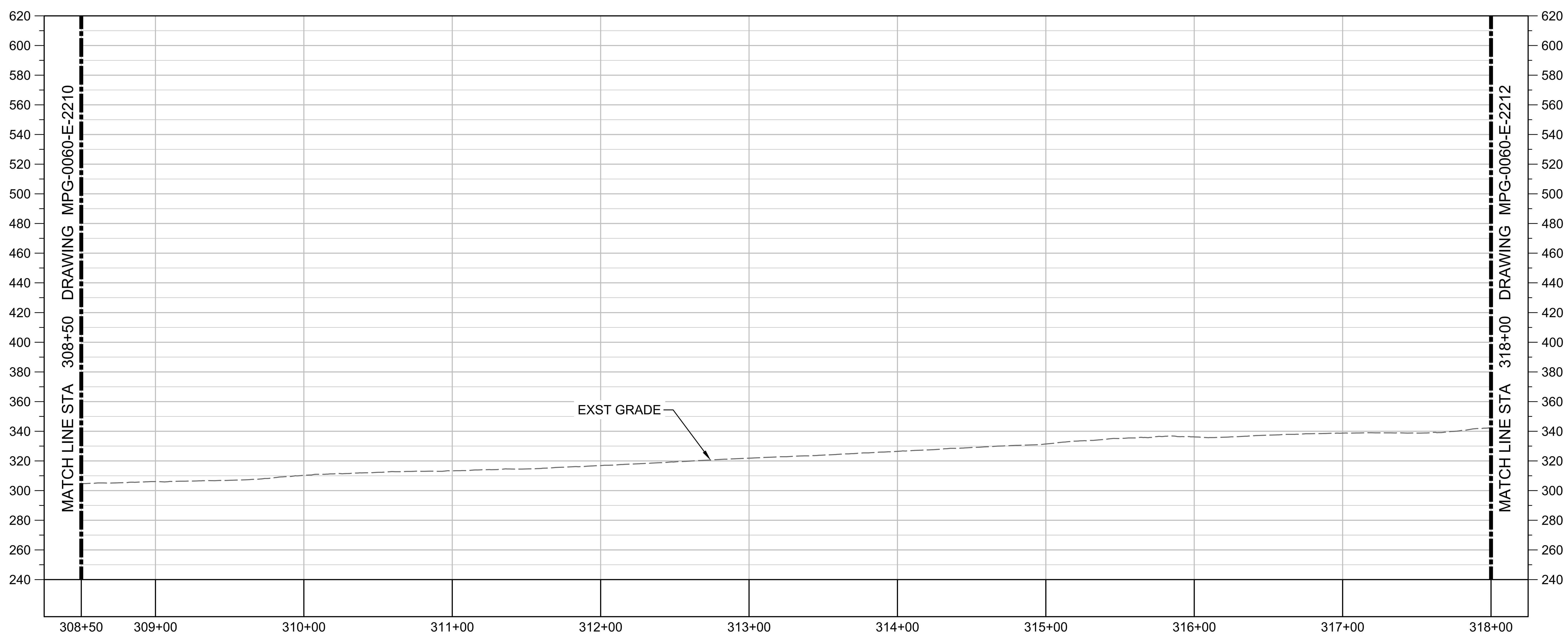
DRAWING NO.
MPG-0060-E-2210
SHT 29 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## GENERAL NOTES

1. SECURE GUY WIRES WITH ROCK ANCHORS.

## SHEET KEY NOTES

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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Sites

# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 308+50 TO 318+00

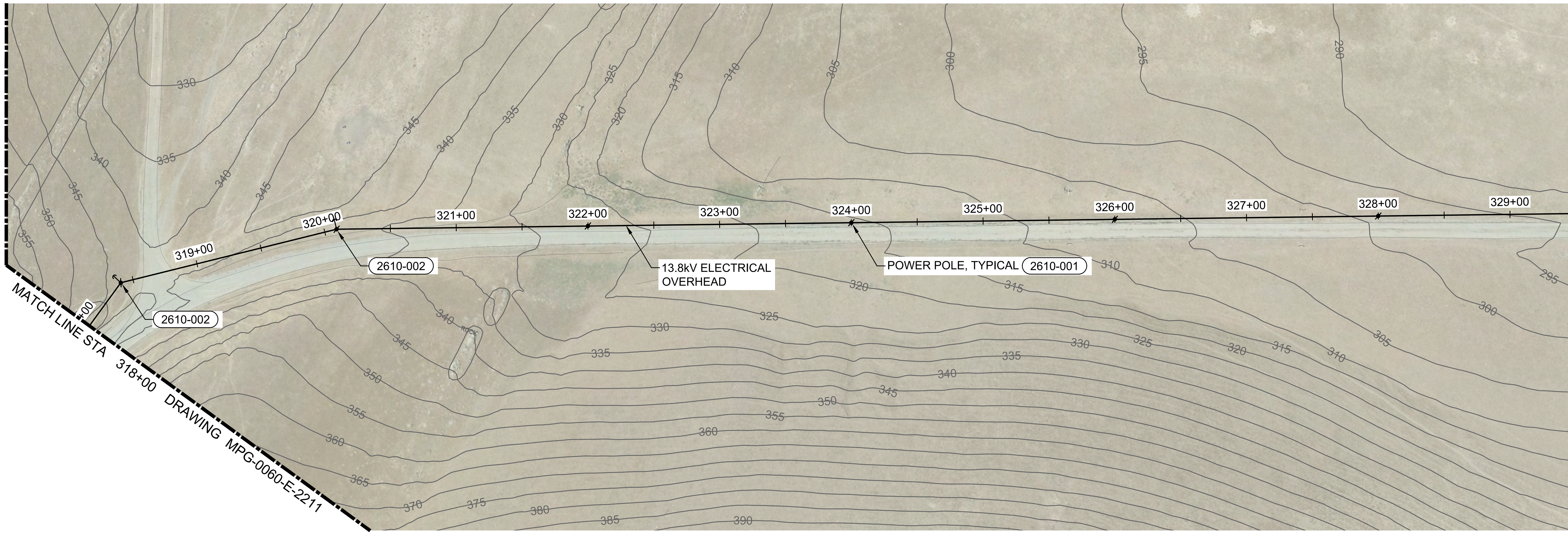
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2211
SHT 30 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2211.dwg
Plot Date: 2/5/2024 11:46 AM
Saved By: AGORDEN

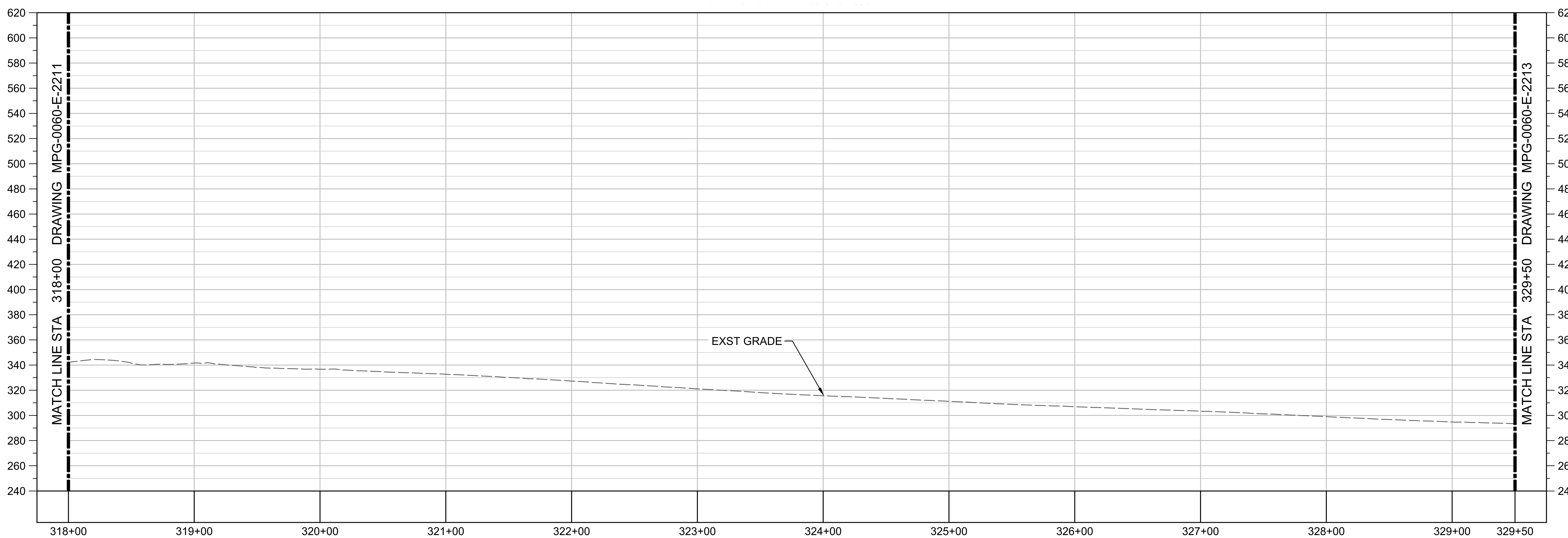
GENERAL NOTES




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'

SHEET KEY NOTES




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

KEY MAP

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2212.dwg

Plot Date: 2/7/2024 4:21 PM
Saved By: JSMITH9

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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# SITES RESERVOIR

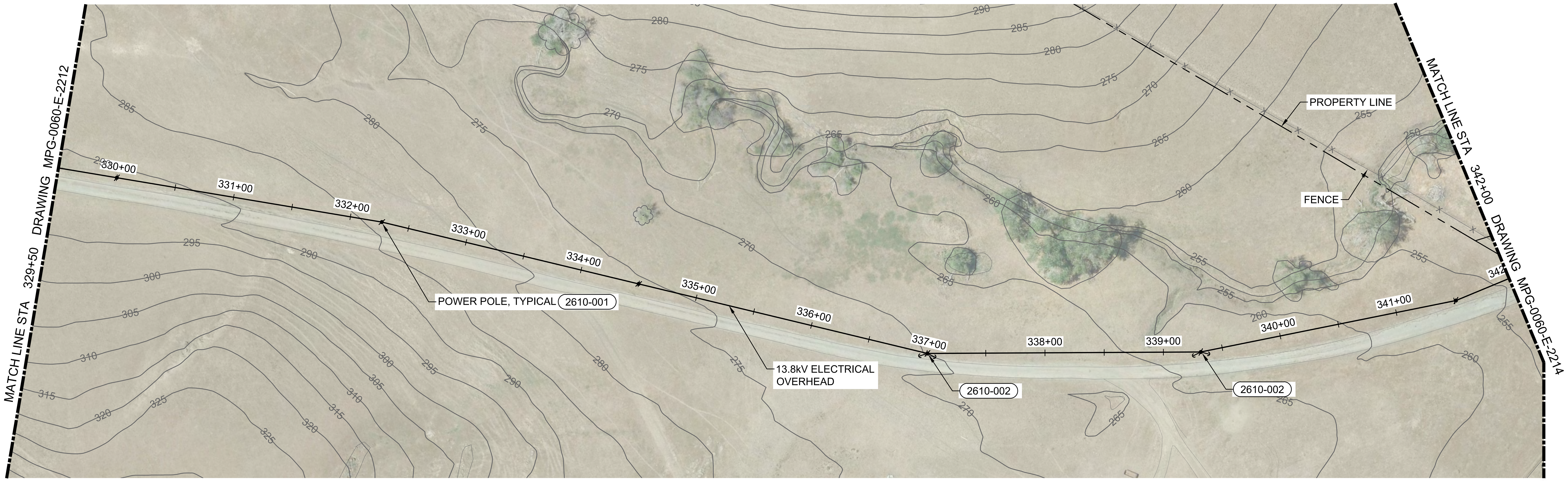
MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 318+00 TO 329+50

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2212

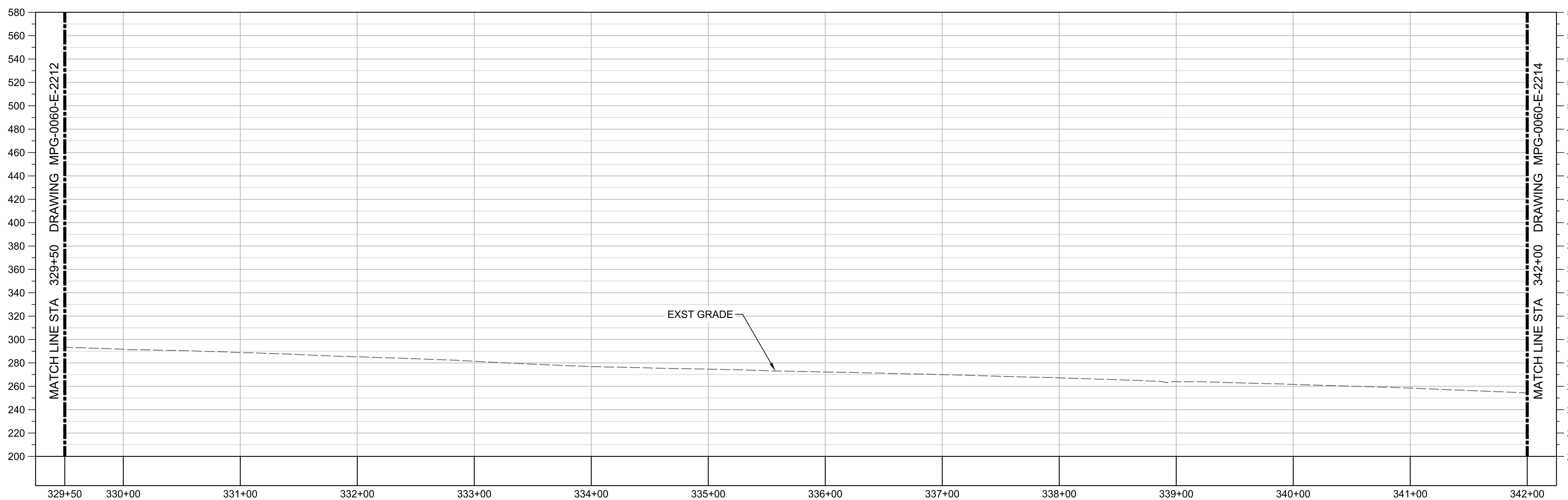
SHT 31 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

GENERAL NOTES

SHEET KEY NOTES

KEY MAP

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2213.dwg

Plot Date: 2/7/2024 1:23 AM
Saved By: JSMITH9

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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# SITES RESERVOIR

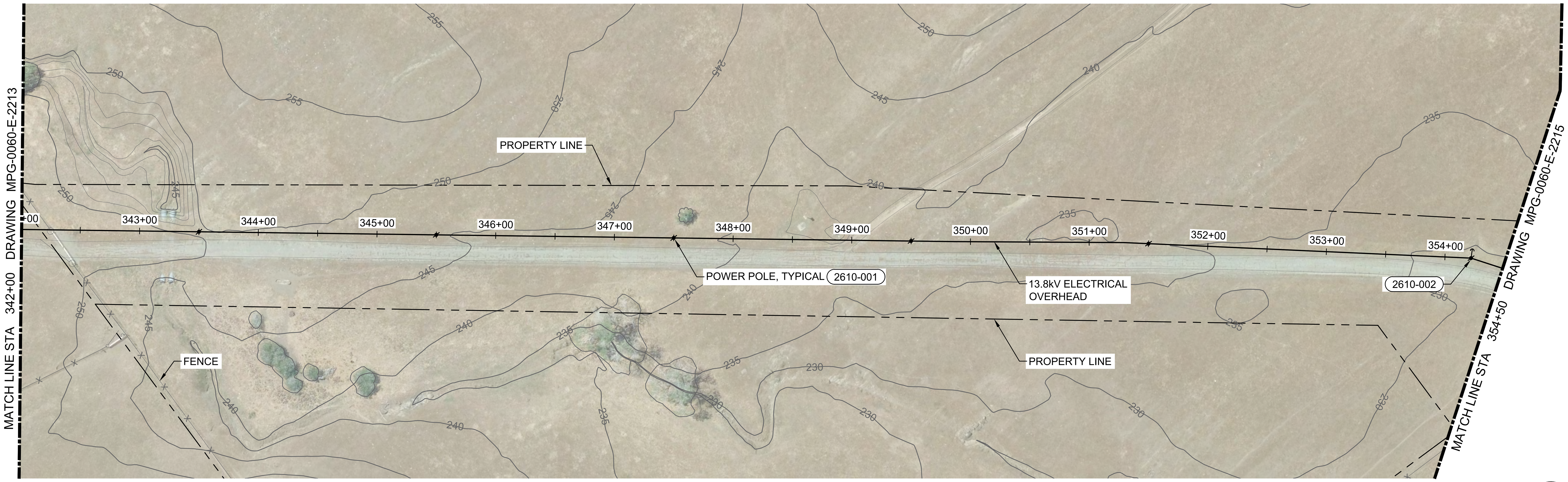
MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 329+50 TO 342+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2213
SHT 32 OF 45

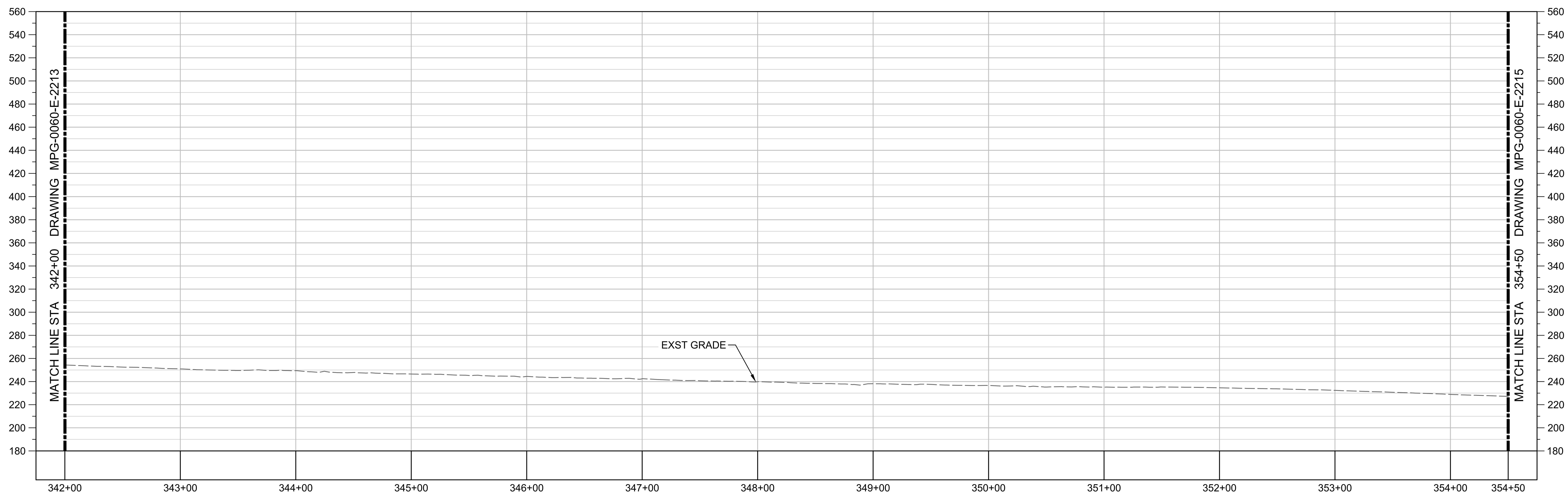
PRELIMINARY - NOT FOR CONSTRUCTION

GENERAL NOTES




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

SHEET KEY NOTES

KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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# SITES RESERVOIR

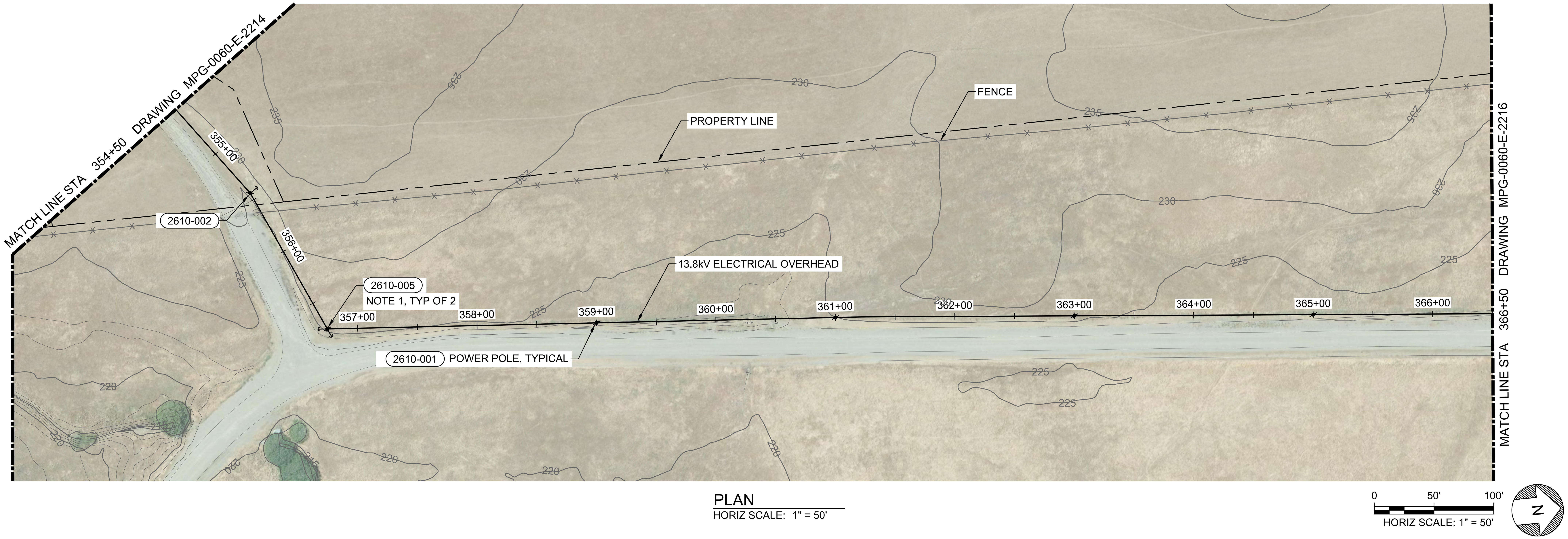
MAXWELL / SITES PUMPING AND GENERATING ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 342+00 TO 354+50

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

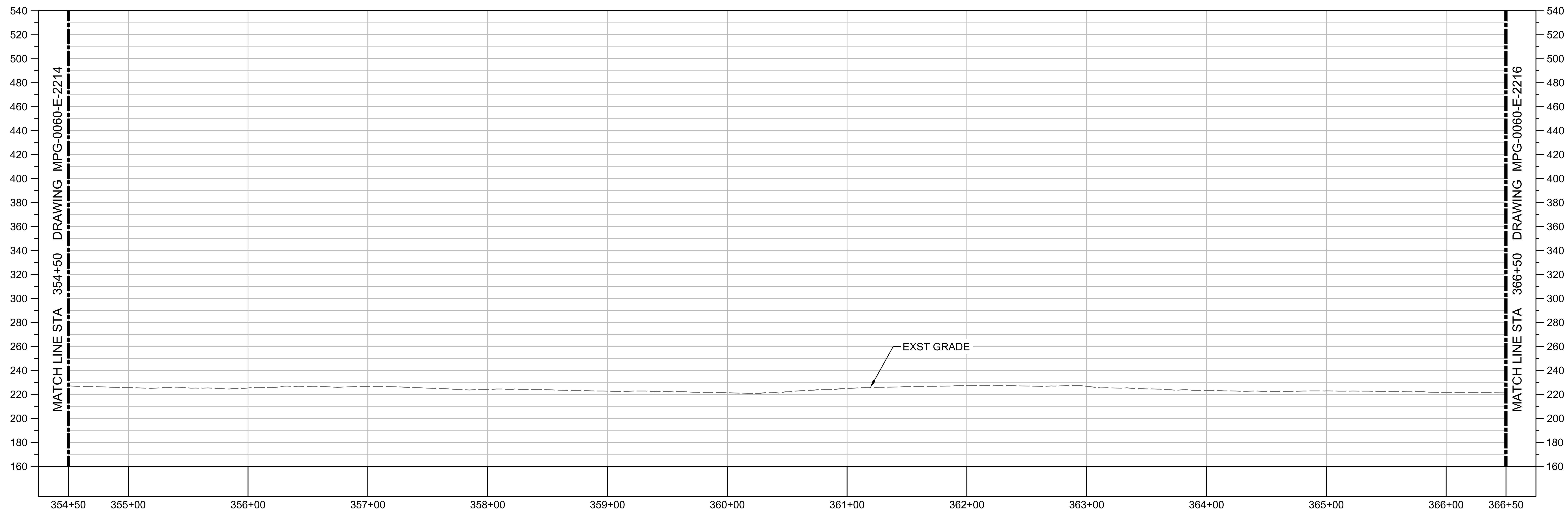
DRAWING NO.
MPG-0060-E-2214
SHT 33 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2214.dwg
Plot Date: 2/7/2024 1:28 AM
Saved By: JSMITH9




PLAN
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## GENERAL NOTES

1. FURNISH GUY WIRES WITH YELLOW GUY MARKERS.

## SHEET KEY NOTES

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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Sites

# SITES RESERVOIR

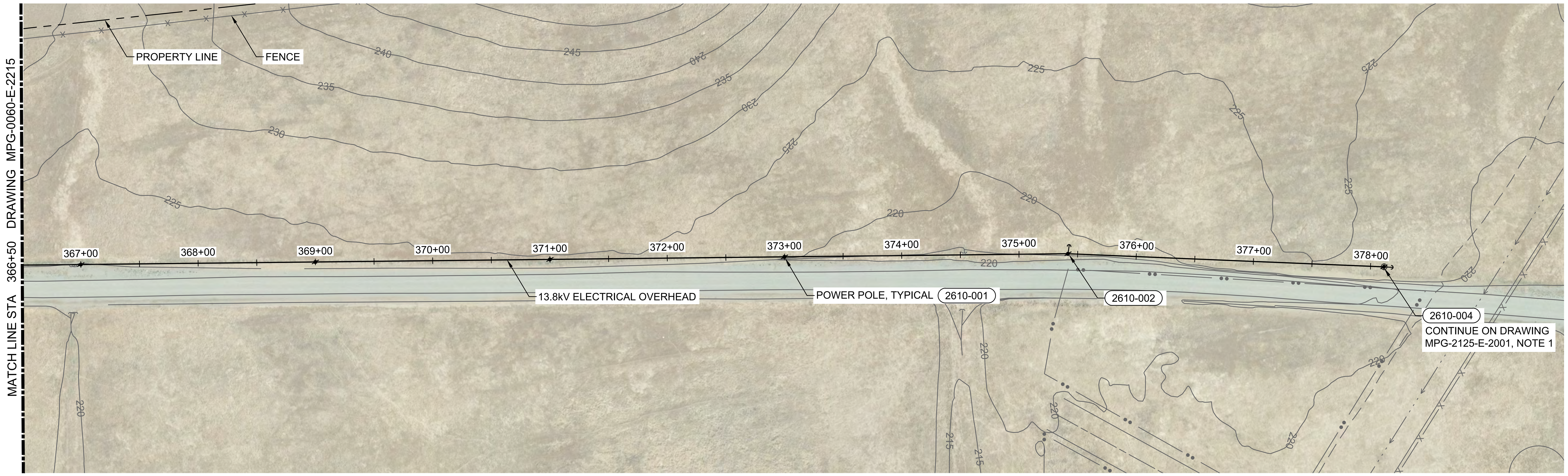
MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 354+50 TO 366+50

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2215
SHT 34 OF 45

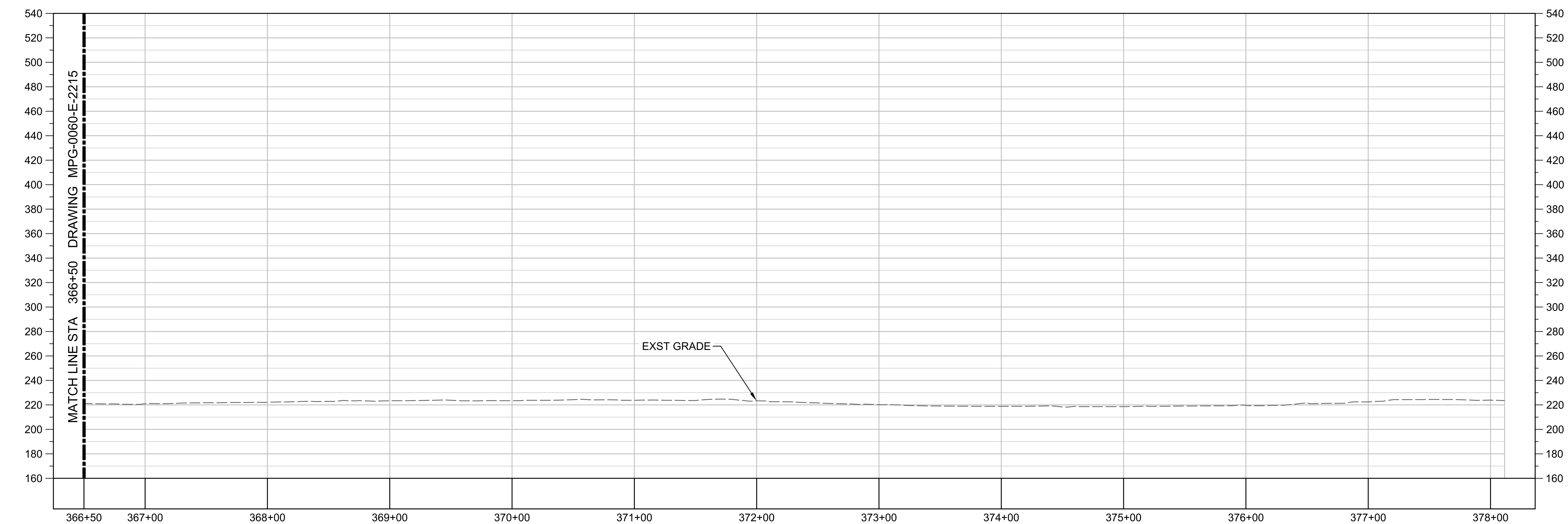
PRELIMINARY - NOT FOR CONSTRUCTION

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2215.dwg
Plot Date: 2/7/2024 1:34 AM
Saved By: JSMITH9




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## GENERAL NOTES

1. TRANSITION FROM OVERHEAD ELECTRICAL TO CONCRETE ENCASED DUCTBANK.

## SHEET KEY NOTES

## KEY MAP

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2216.dwg
Plot Date: 2/7/2024 1:39 AM
Saved By: JSMITH9

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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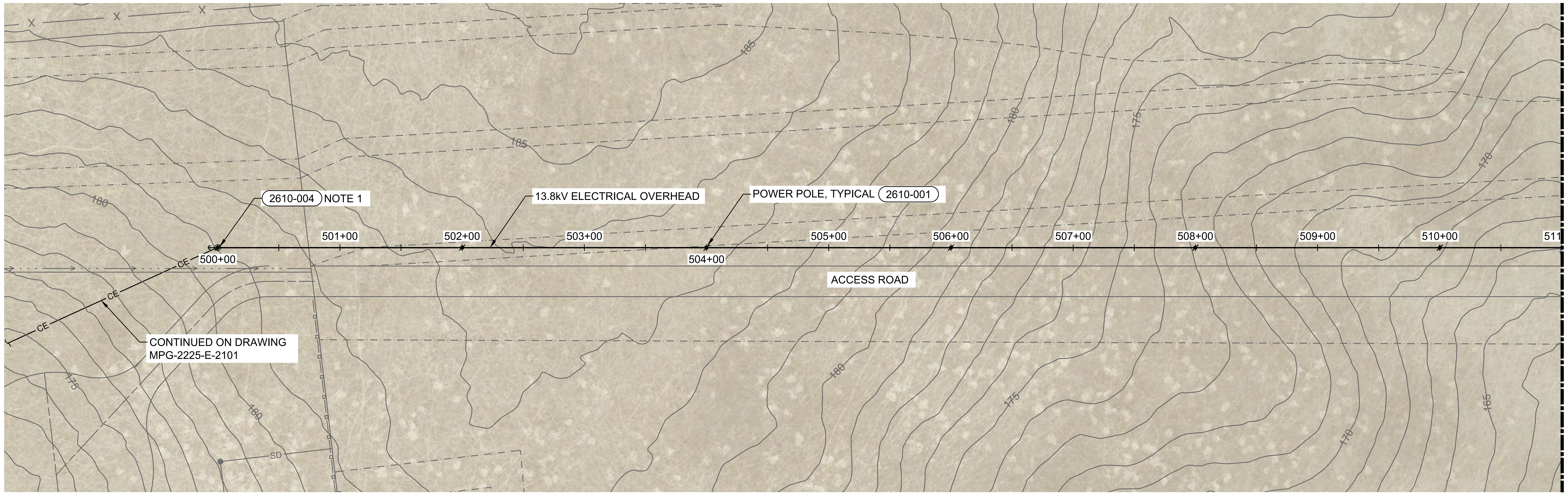
# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - FUNKS TO SITES DAM
PLAN AND PROFILE
STA 366+50 TO 378+16

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2216
SHT 35 OF 45

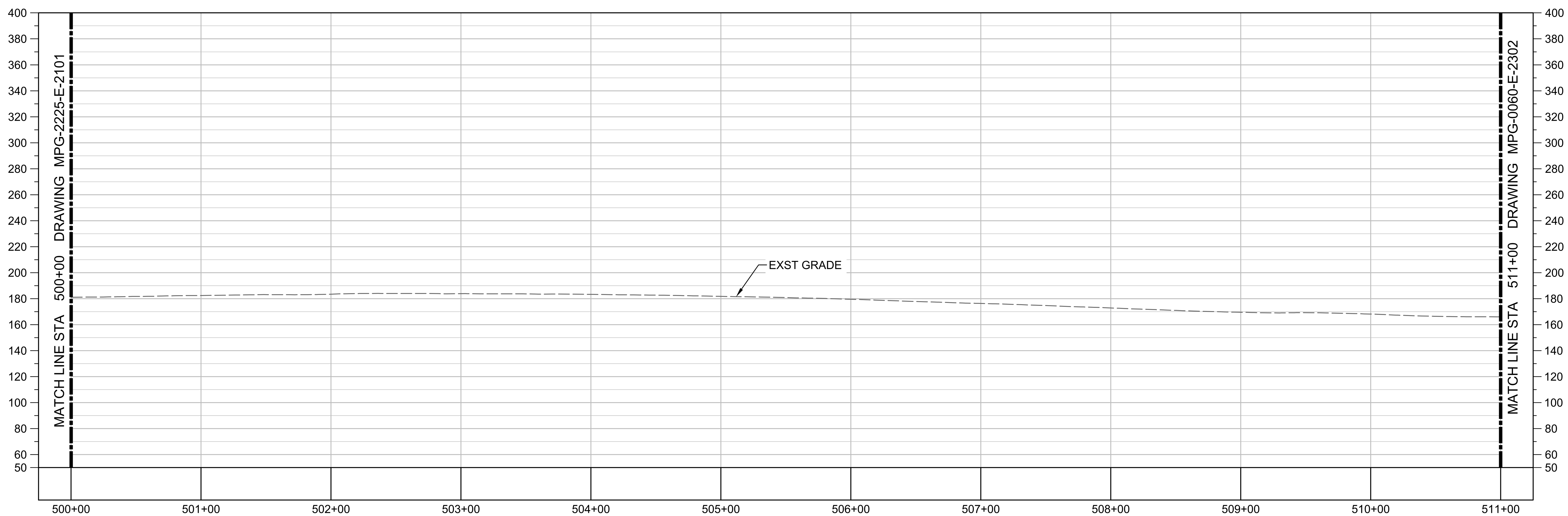
PRELIMINARY - NOT FOR CONSTRUCTION




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'

N




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## GENERAL NOTES

1. TRANSITION FROM CONCRETE ENCASED DUCTBANK TO OVERHEAD ELECTRICAL.

## SHEET KEY NOTES

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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Sites

# SITES RESERVOIR

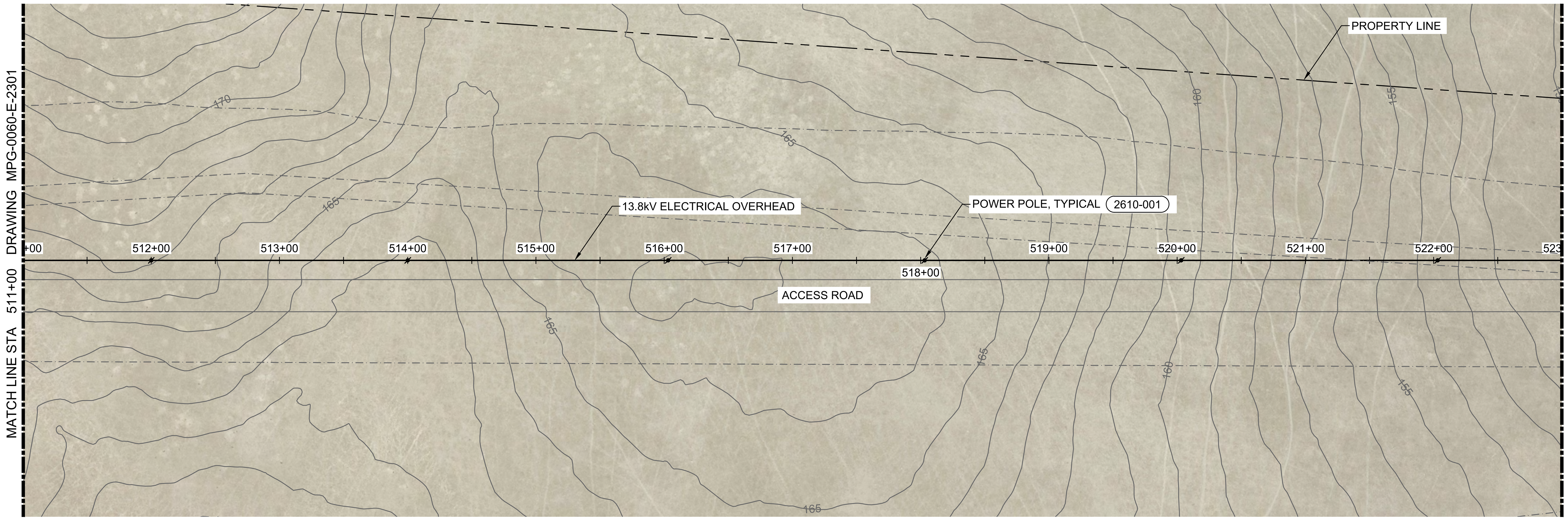
MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - TRR PGP TO CHECK STRUCTURES
PLAN AND PROFILE
STA 500+00 TO 511+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2301
SHT 36 OF 45

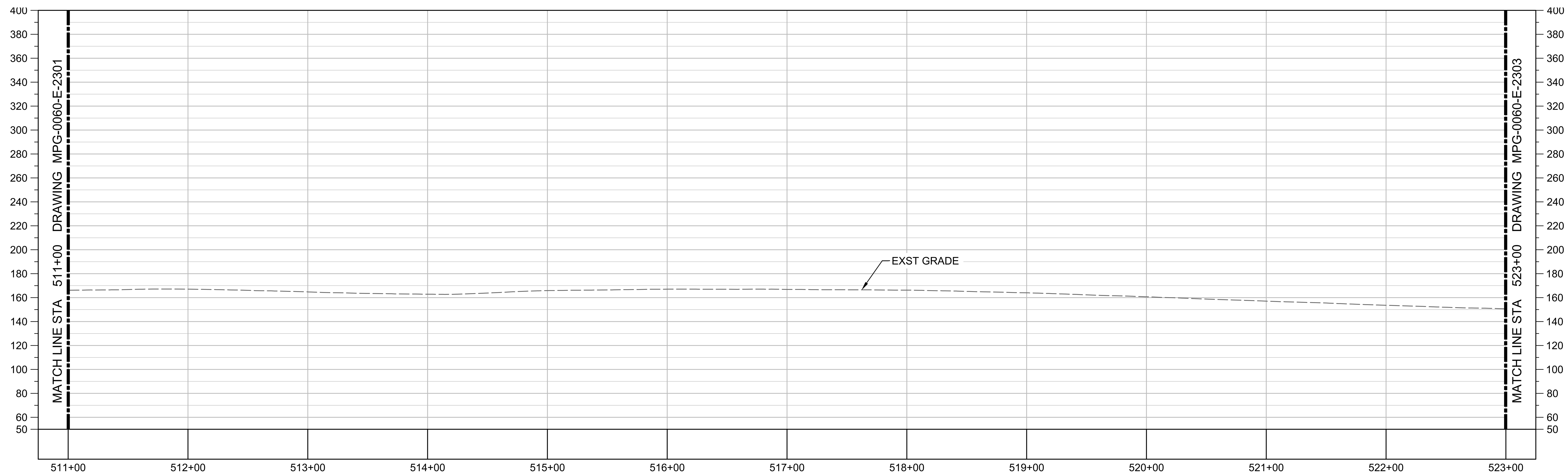
PRELIMINARY - NOT FOR CONSTRUCTION

File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2301.dwg
Plot Date: 2/7/2024 4:25 PM
Saved By: JSMITH9




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

GENERAL NOTES

SHEET KEY NOTES

KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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Sites

# SITES RESERVOIR

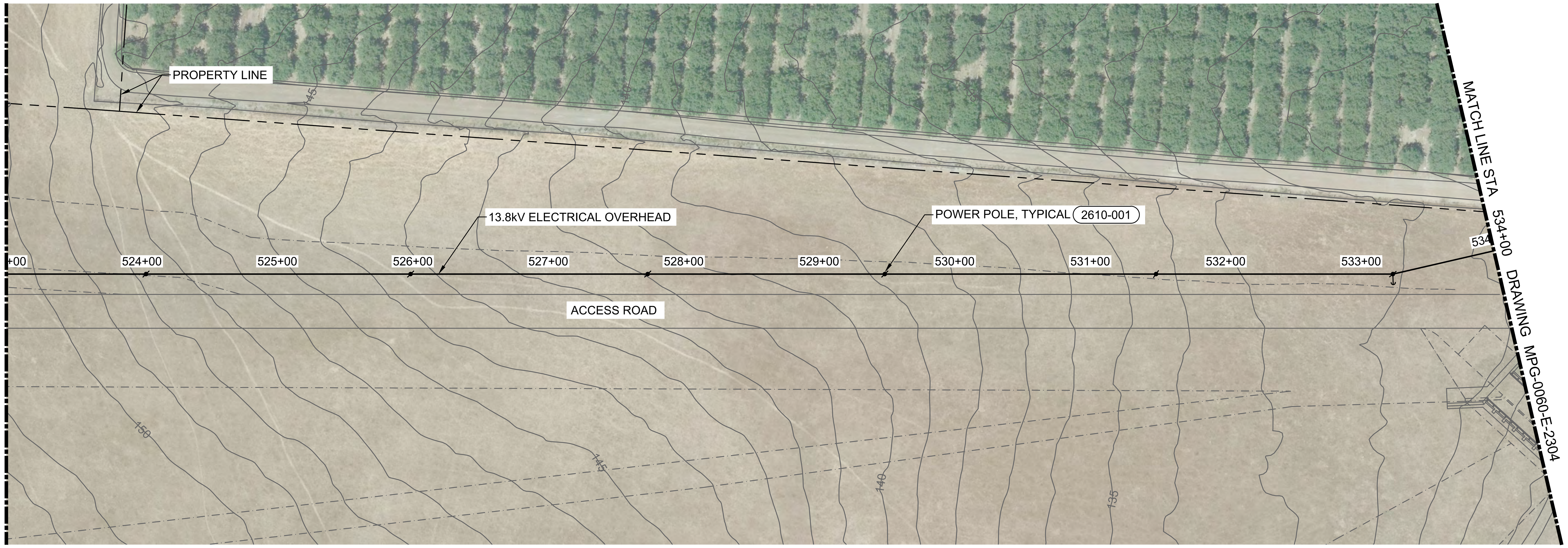
MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - TRR PGP TO CHECK STRUCTURES
PLAN AND PROFILE
STA 511+00 TO 523+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2302
SHT 37 OF 45

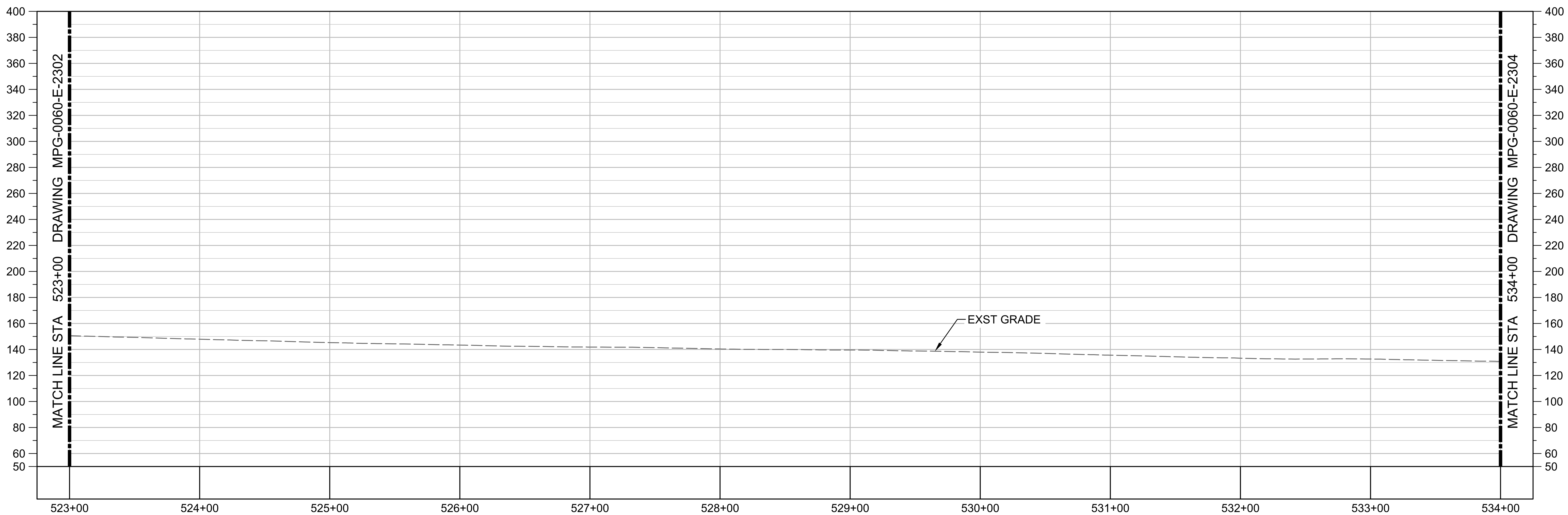
PRELIMINARY - NOT FOR CONSTRUCTION

Plot Date: 2/9/2024 10:44 AM File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2302.dwg
Saved By: DCAVE




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## GENERAL NOTES

## SHEET KEY NOTES

## KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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Sites

# SITES RESERVOIR

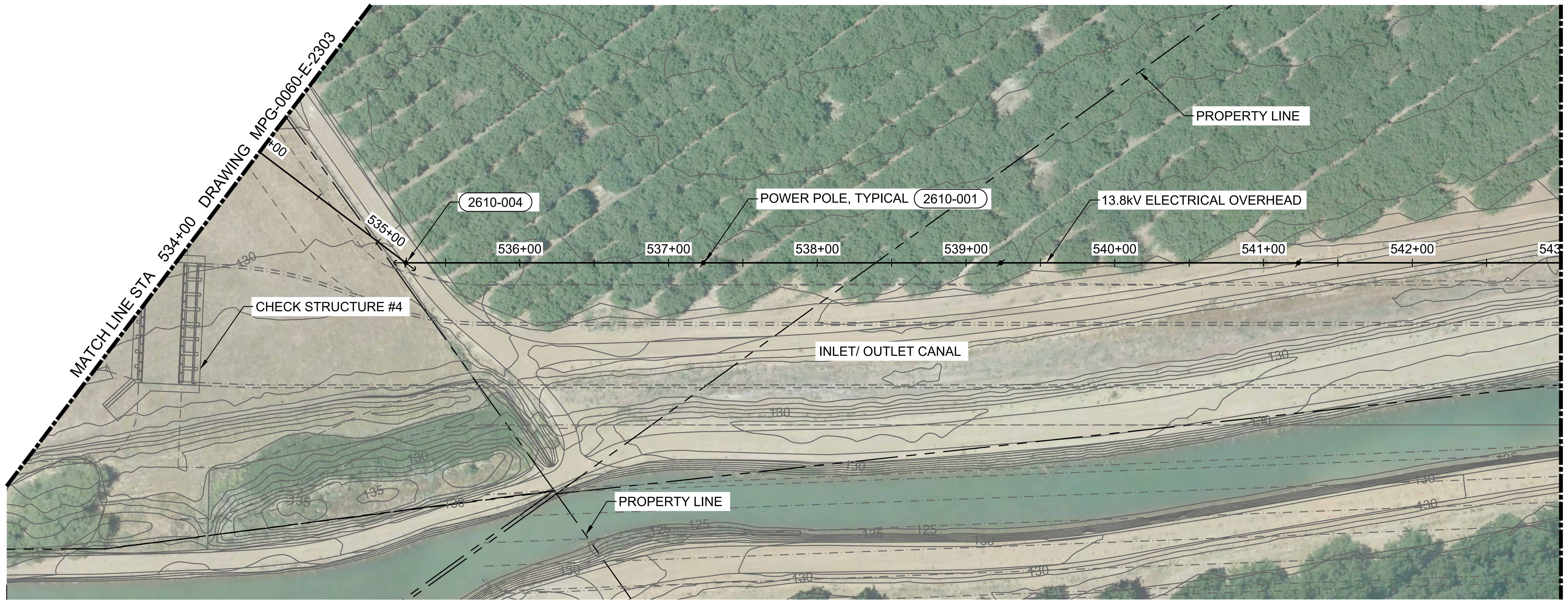
MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - TRR PGP TO CHECK STRUCTURES
PLAN AND PROFILE
STA 523+00TO 534+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2303
SHT 38 OF 45

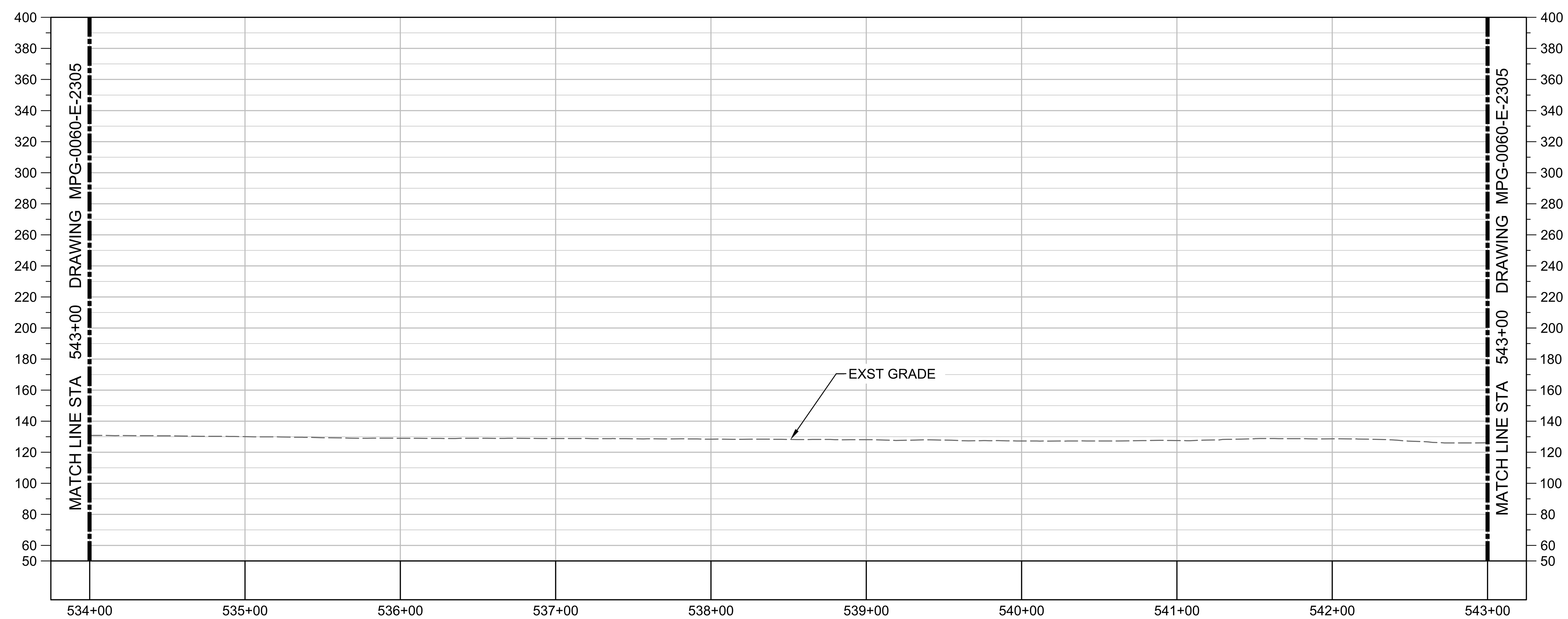
PRELIMINARY - NOT FOR CONSTRUCTION

Plot Date: 2/9/2024 10:47 AM File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2303.dwg
Saved By: JSMITH9




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

GENERAL NOTES

SHEET KEY NOTES

KEY MAP

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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SITES RESERVOIR
MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - TRR PGP TO CHECK STRUCTURES
PLAN AND PROFILE
STA 534+00 543+00

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

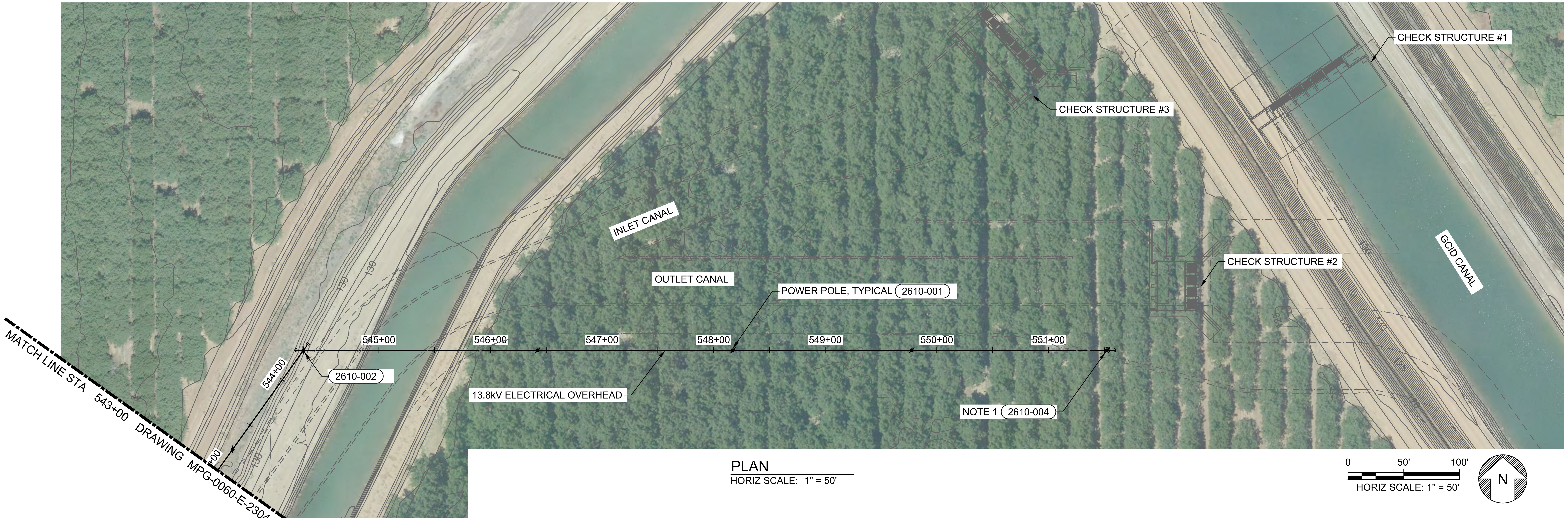
DRAWING NO.
MPG-0060-E-2304
SHT 39 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

Plot Date: 2/8/2024 10:46 PM File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2304.dwg
Saved By: JSMITH19

## GENERAL NOTES

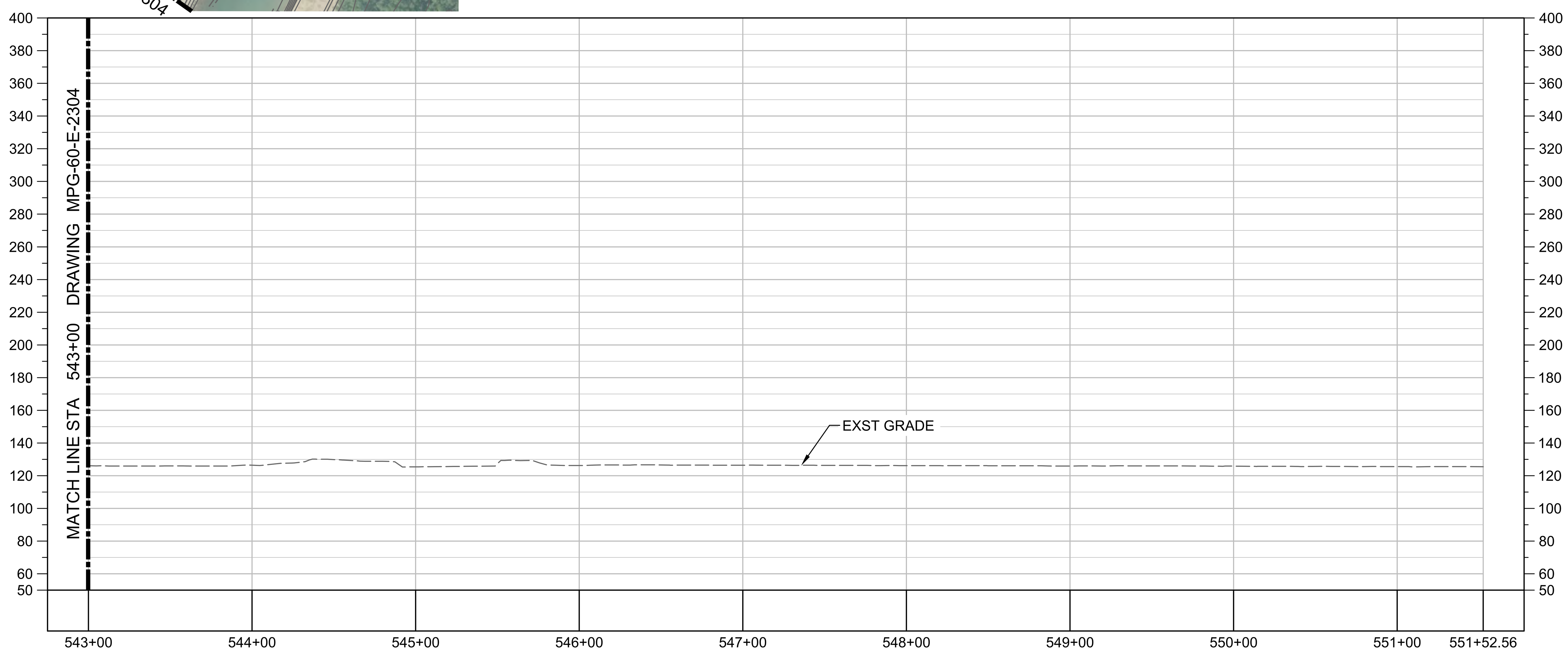
1. TRANSITION FROM OVERHEAD ELECTRICAL TO CONCRETE ENCASED DUCTBANK.




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'
HORIZ SCALE: 1" = 50'

N




PROFILE
HORIZ SCALE: 1" = 50'
VERT SCALE: 1" = 50'

## SHEET KEY NOTES

## KEY MAP

N

| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: S. GAIKWAD
CHECKED BY: D. ENGEL
IN CHARGE: P. RUDE
DATE: 02-14-2024

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# SITES RESERVOIR

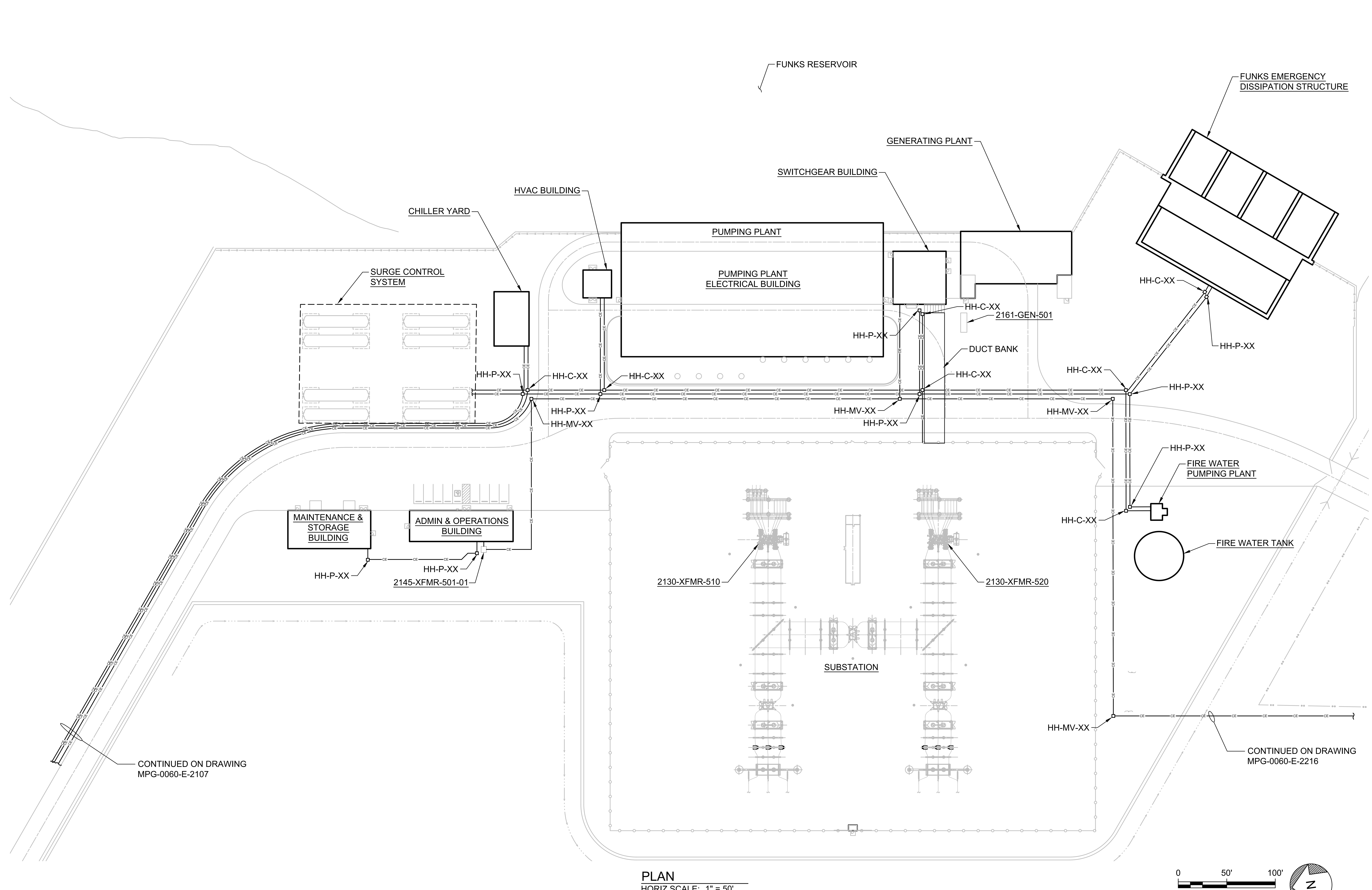
MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
DISTRIBUTION - TRR PGP TO CHECK STRUCTURES
PLAN AND PROFILE
STA 543+00 TO 551+52.56

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-0060-E-2305
SHT 40 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION

Plot Date: 2/8/2024 11:36 PM
Saved By: JSMITH9
File: C:\pwworking\hdr_sites_reservoir\dms01756\MPG-0060-E-2305.dwg




## GENERAL NOTES

1. FACILITY DRAWINGS ARE AS NOTED BELOW:

ADMIN & OPERATIONS BUILDING: MPG-2145-E-2001
MAINTENANCE & STORAGE BUILDING: MPG-2150-E-2001
SUBSTATION: MPG-2130-E-2001
PUMPING PLANT: MPG-2155-E-2001
SWITCHGEAR BUILDING: MPG-2160-E-2001
GENERATING PLANT: MPG-2165-E-2001
FUNKS EMERGENCY DISSIPATION STRUCTURE: MPG-2175-E-2001
CHILLER YARD: MPG-2170-E-2001
HVAC BUILDING: MPG-2171-E-2001
FIRE WATER PUMPING PLANT: MPG-2181-E-2001
SURGE CONTROL SYSTEM: MPG-2185-E-2001

## SHEET KEY NOTES

## KEY MAP

File: C:\pwworking\hdr_sites_reservoir\dms01135\MPG-2125-E-2001.dwg
Plot Date: 2/7/2024 11:16 AM
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| REV | DATE | BY | CHK. | APPR. | DESCRIPTION |
|---|---|---|---|---|---|

DESIGNED BY: C. CUSWORTH
DRAWN BY: E. GARCIA
CHECKED BY: J. LANDMAN
IN CHARGE: P. RUDE
DATE: 02-14-2024

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Sites

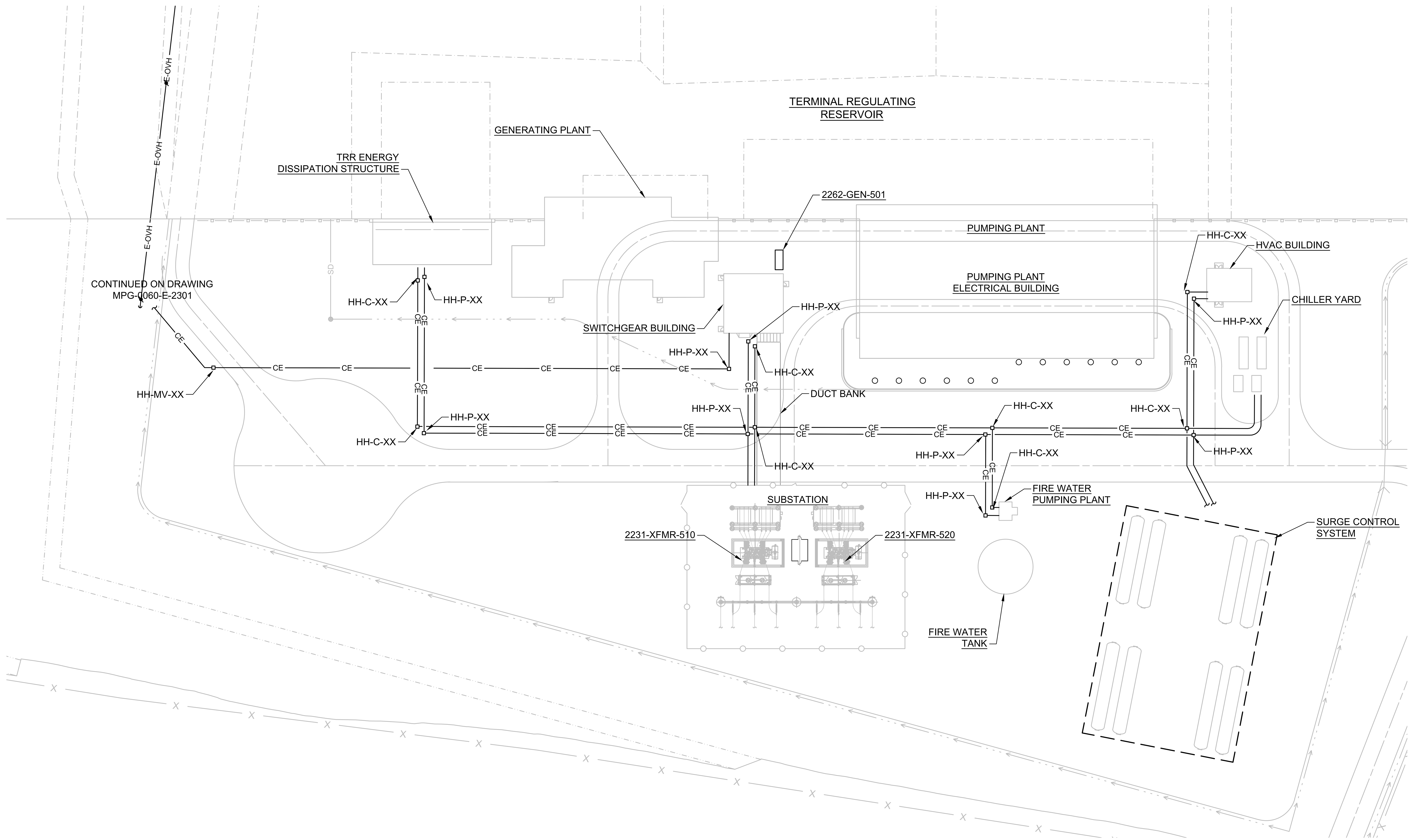
# SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
FUNKS RESERVOIR
SITE PLAN
OVERALL

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-2125-E-2001
SHT 41 OF 45

PRELIMINARY - NOT FOR CONSTRUCTION




PLAN
HORIZ SCALE: 1" = 50'

0 50' 100'

## GENERAL NOTES

1. FACILITY DRAWINGS ARE AS NOTED BELOW:
   - SUBSTATION: MPG-2230-E-2001
   - PUMPING PLANT: MPG-2255-E-2001
   - SWITCHGEAR BUILDING: MPG-2260-E-2001
   - GENERATING PLANT: MPG-2265-E-2001
   - CHILLER YARD: MPG-2270-E-2001
   - HVAC BUILDING: MPG-2271-E-2001
   - TRR ENERGY DISSIPATION STRUCTURE: MPG-2275-E-2001
   - FIRE WATER PUMPING PLANT: MPG-2281-E-2001
   - SURGE CONTROL SYSTEM: MPG-2285-E-2001

## SHEET KEY NOTES

## KEY MAP

PRELIMINARY - NOT FOR CONSTRUCTION

File: C:\pwworking\hdr_sites_reservoir\dms01211\MPG-2225-E-2101.dwg
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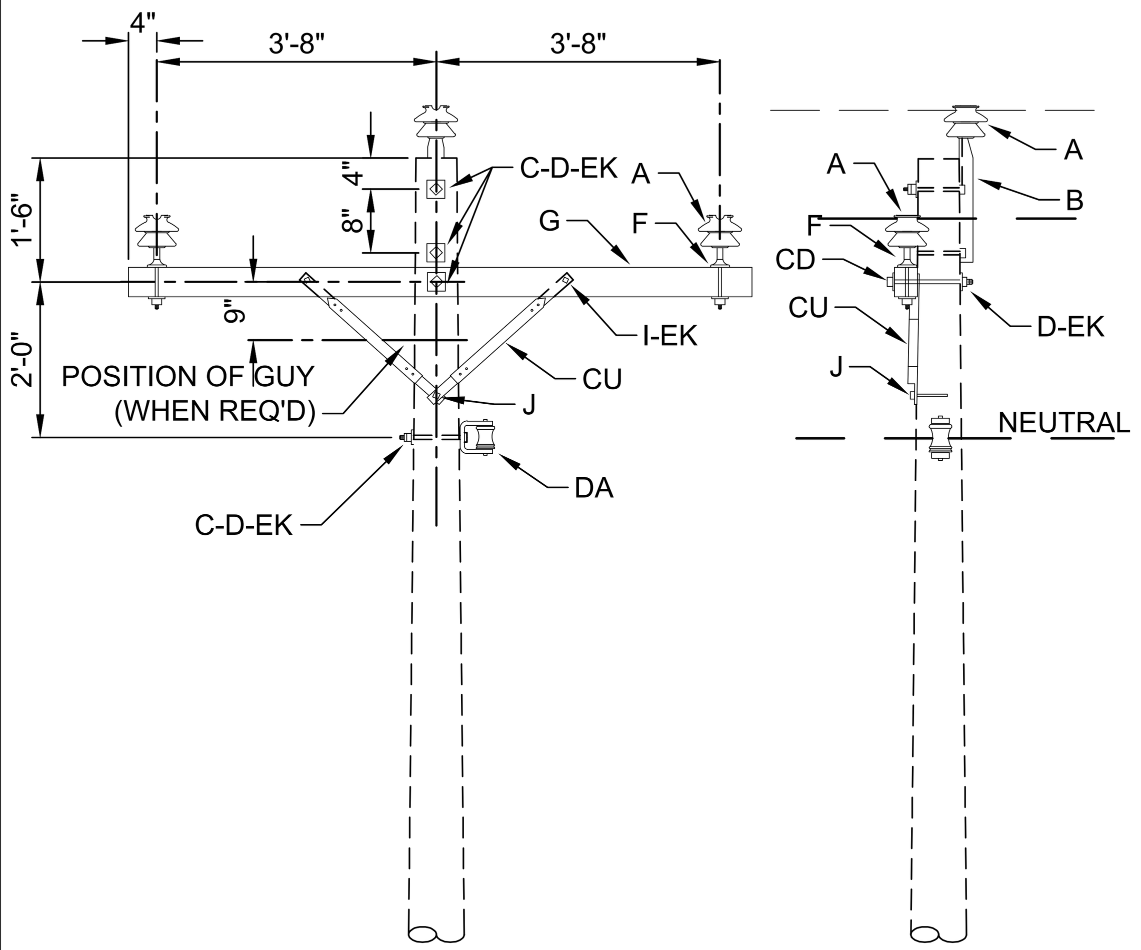
# SITES RESERVOIR

MAXWELL/SITES PUMPING AND GENERATING
ELECTRICAL
TERMINAL REGULATING RESERVOIR
PGP SITE PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS
0 1"

DRAWING NO.
MPG-2225-E-2101
SHT 43 OF 45

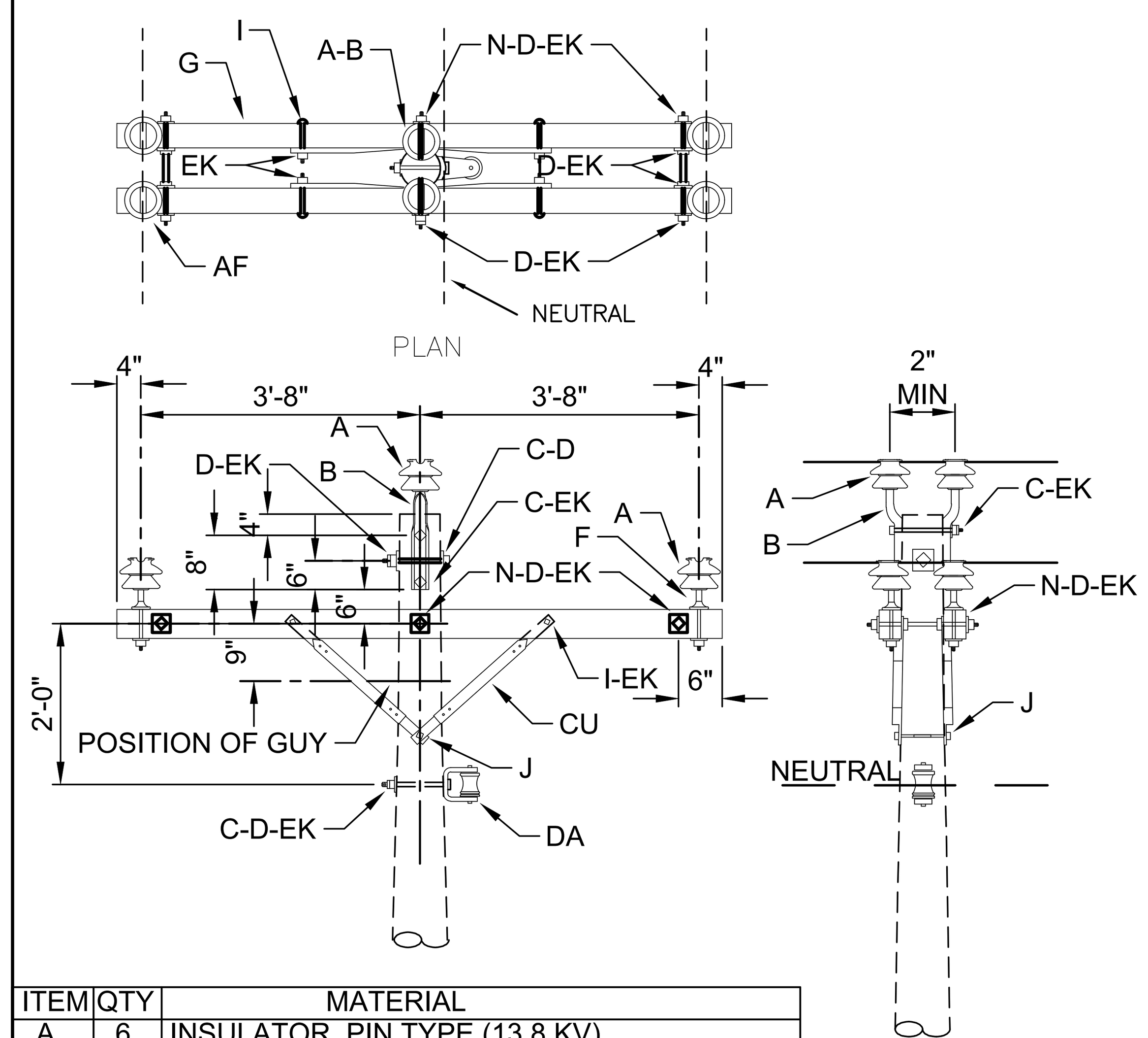
1 2 3 4 5 6 7 8 9 10




| ITEM | QTY | MATERIAL |
|---|---|---|
| A | 3 | INSULATOR, PIN TYPE (13.8 KV) |
| B | 1 | PIN, POLE TOP, 20" |
| C | 4 | BOLT, MACHINE, 5/8" X REQ'D LENGTH |
| D | 5 | WASHER, SQUARE, 2 1/4" |
| F | 2 | PIN, CROSSARM, STEEL, 5/8" X 14" |
| G | 1 | CROSSARM, 3 5/8" X 4" 5/8" X 8'- 0" |
| I | 2 | BOLT, CARRIAGE, 3/8" X 4" 1/2" |
| J | 1 | SCREW, LAG, 1/2" X 4" |
| CU | 2 | BRACE, 28" |
| DA | 1 | BRACKET, INSULATED |
| EK | 6 | LOCKNUTS |

13.8 kV - SINGLE SUPPORT ON CROSSARM — 2610-001

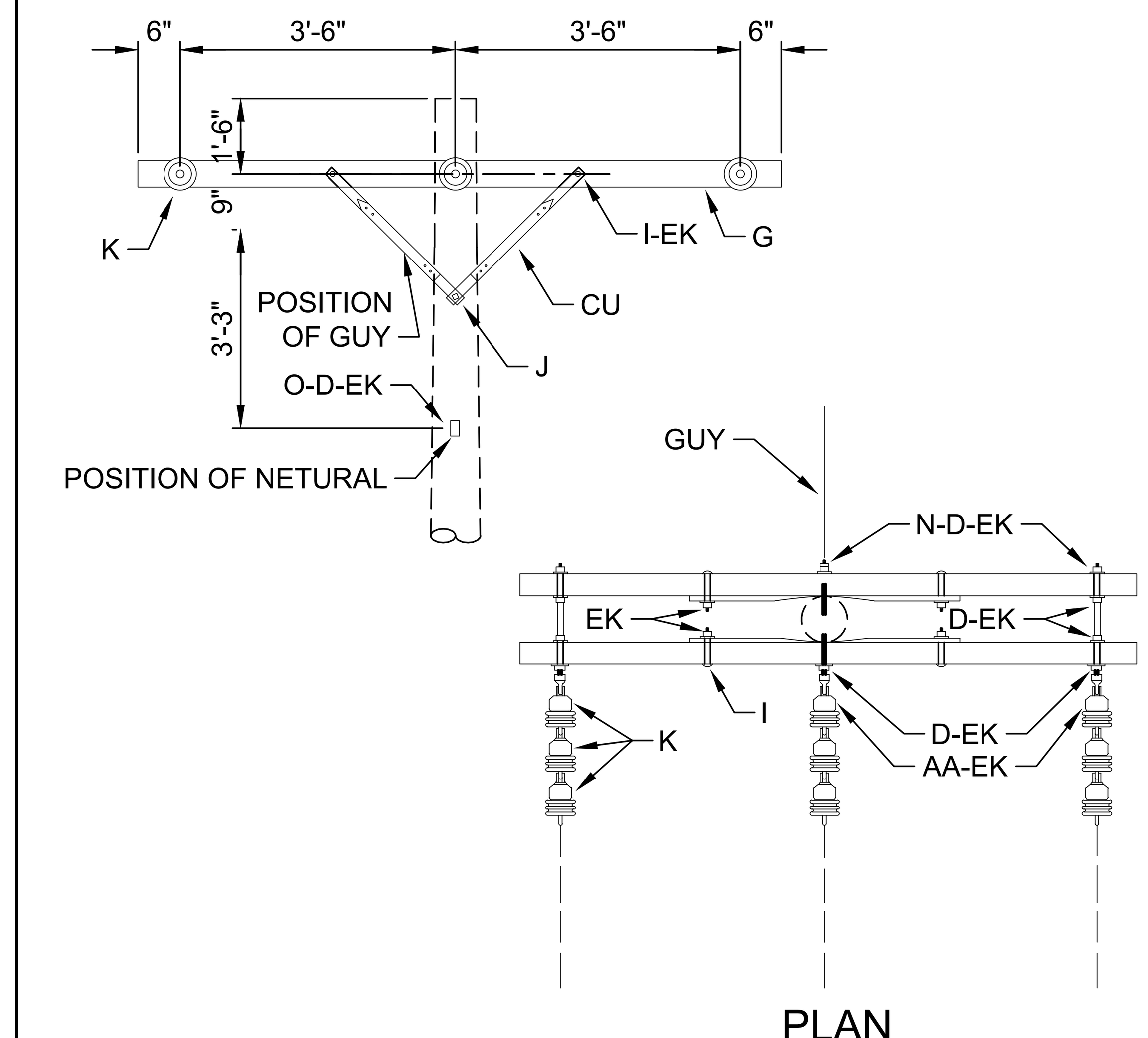
NTS




| ITEM | QTY | MATERIAL |
|---|---|---|
| A | 6 | INSULATOR, PIN TYPE (13.8 KV) |
| B | 2 | PIN, OFFSET, POLE TOP * |
| C | 4 | BOLT, MACHINE, 5/8" X REQ'D LENGTH |
| D | 13 | WASHER, SQUARE, 2 1/4" |
| F | 4 | PIN, CROSSARM, STEEL, 5/8" X 14" |
| G | 2 | CROSSARM, 3 5/8" X 4 5/8" X 8'-0" |
| I | 4 | BOLT, CARRIAGE, 3/8" X 4 1/2" |
| J | 2 | SCREW, LAG, 1/2" X 4" |
| N | 3 | BOLT, DOUBLE ARMING, 5/8"XREQ'D LENGTH |
| CU | 4 | BRACE, 28 |
| DA | 1 | BRACKET, INSULATED |
| EK | 18 | LOCKNUTS |

13.8kV- SINGLE DEADEND ON CROSSARMS — 2610-002

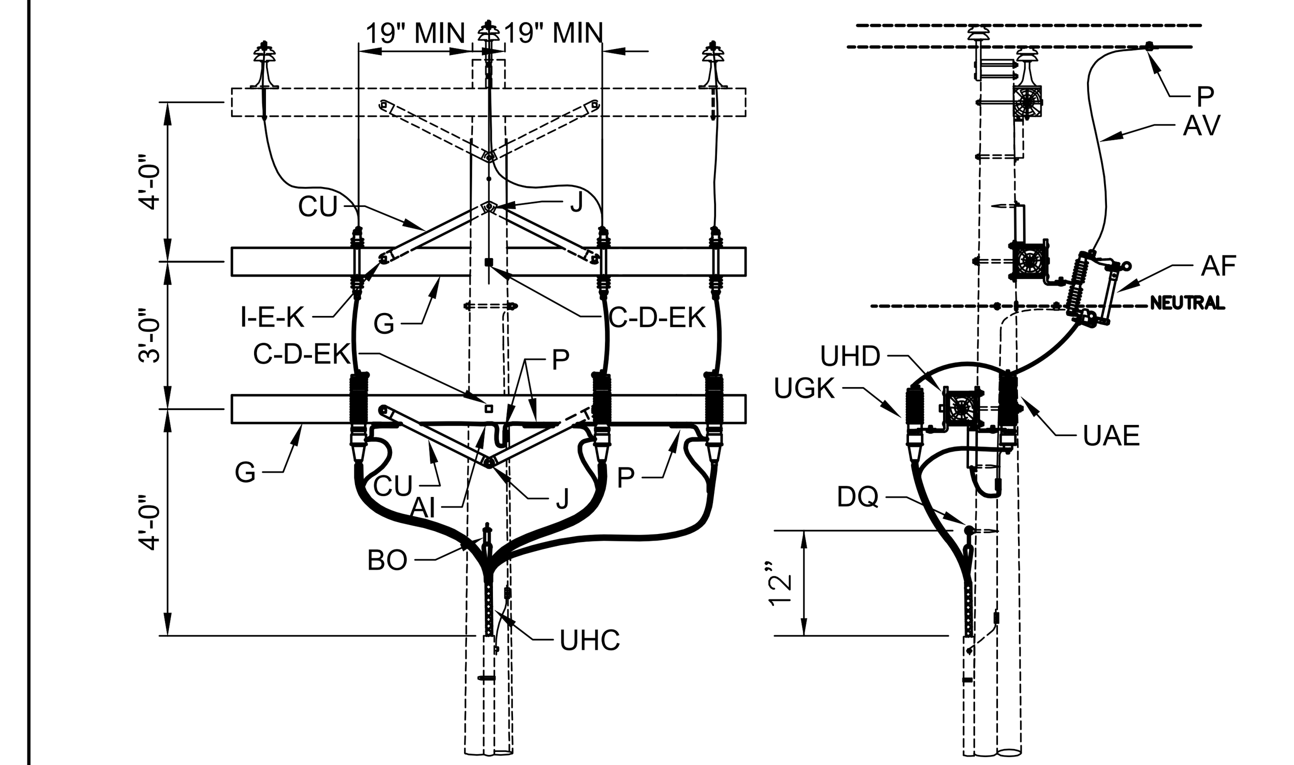
NTS




| ITEM | QTY | MATERIAL |
|---|---|---|
| D | 11 | WASHER, SQUARE, 2 1/4" |
| G | 2 | CROSSARM, 3 5/8" X 4 5/8" X 8'-0" |
| I | 4 | BOLT, CARRIAGE, 3/8" X 4" 1/2" |
| J | 2 | SCREW, LAG, 1/2" X 4" |
| K | 9 | INSULATOR, SUSPENSION, 4 1/4" |
| N | 3 | BOLT,DOUBLE ARMING,5/8" X REQ'D LENGTH |
| O | 1 | BOLT, EYE, 5/8" X REQ'D LENGTH |
| AA | 3 | NUT, EYE, 5/8" |
| CU | 4 | BRACE, 28" |
| EK | 18 | LOCKNUTS |

13.8kV - SINGLE DEADEND ON CROSSARMS — 2610-003

NTS



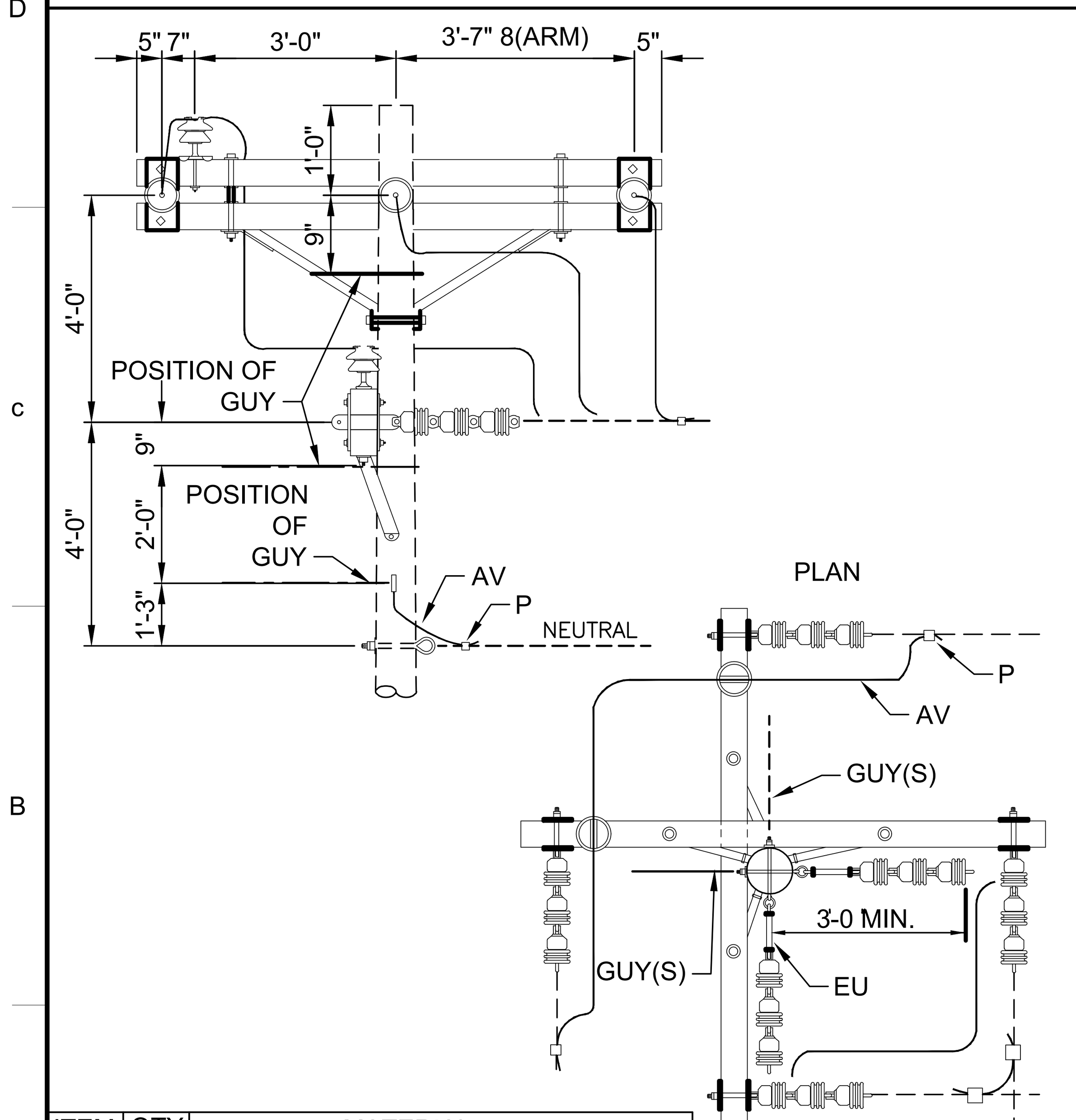

| ITEM | QTY | MATERIAL |
|---|---|---|
| C | 2 | BOLT, MACHINE, 5/8" X REQUIRED LENGTH. |
| D | 4 | WASHER, SQUARE 2 1/4". |
| G | 2 | CROSSARM 3 5/8" X 4 5/8" X 8'-0" |
| I | 4 | BOLT, CARRIAGE, 3/8" X 4 1/2" |
| J | 2 | SCREW LAG 1/2" X 4" AS REQUIRED |
| P | | CONNECTORS, AS REQUIRED. |
| AF | 3 | CUTOUT |
| AL | | STAPLES, AS REQUIRED. |
| AV | | JUMPERS, AS REQUIRED. |
| BO | 1 | ANCHOR, SHACKLE. |
| CU | 4 | BRACE, WOOD, 28" |
| DQ | 1 | EYE SCREW, ELLIPTICAL OR DRIVE HOOK. |
| EK | 6 | LOCKNUTS, AS REQUIRED. |
| UAE | 3* | SURGE ARRESTER |
| UGK | 3 | CABLE TERMINATION. |
| UHC | 3 | CABLE SUPPORT. |
| UHD | 3 | CROSSARM MOUNTING BRACKET. |

NOTES:

1. TOTAL ARRESTER LEAD LENGTH MUST BE UNDER 3'.
2. NO BENDS PERMITTED WITHIN 6" OF CABLE TERMINAL BASE.
3. MINIMUM 4" BETWEEN BOLTS.
4. NEUTRAL POSITION MAY VARY.

13.8kV THREE PHASE FUSED RISER — 2610-004

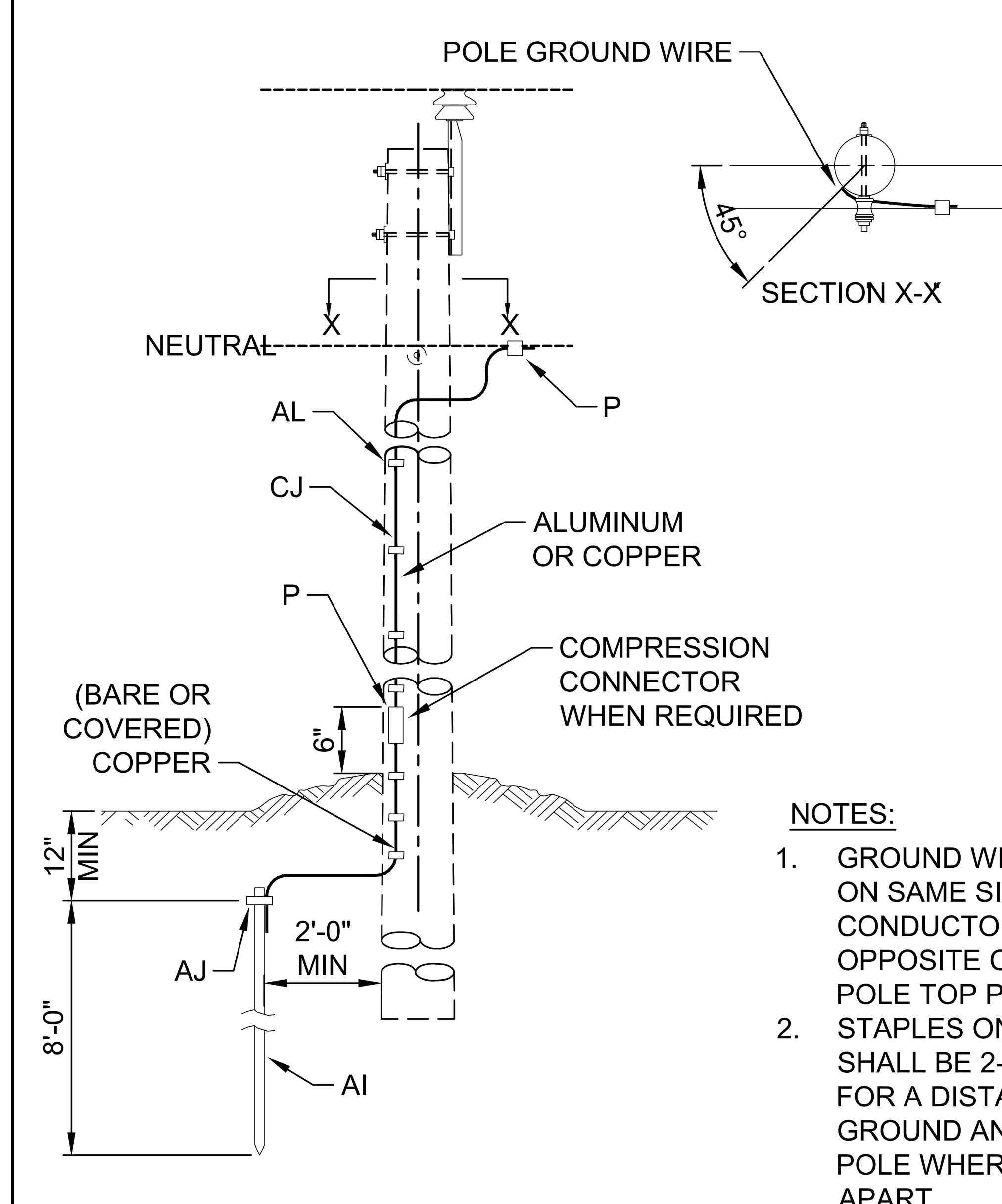
NTS




| ITEM | QTY | MATERIAL |
|---|---|---|
| | 2 | PRIMARY (CROSSARM) ASSEMBLY |
| | 2 | MISC. SINGLE SUPPORT |
| P | | CONNECTORS, AS REQ'D |
| AV | | JUMPERS, AS REQ'D |
| EU | 2 | LINK, EXTENSION, INSULATED, 12 MIN. |

13.8kV - DOUBLE DEADENDS (BUCKARNS) GUIDE — 2610-005

NTS



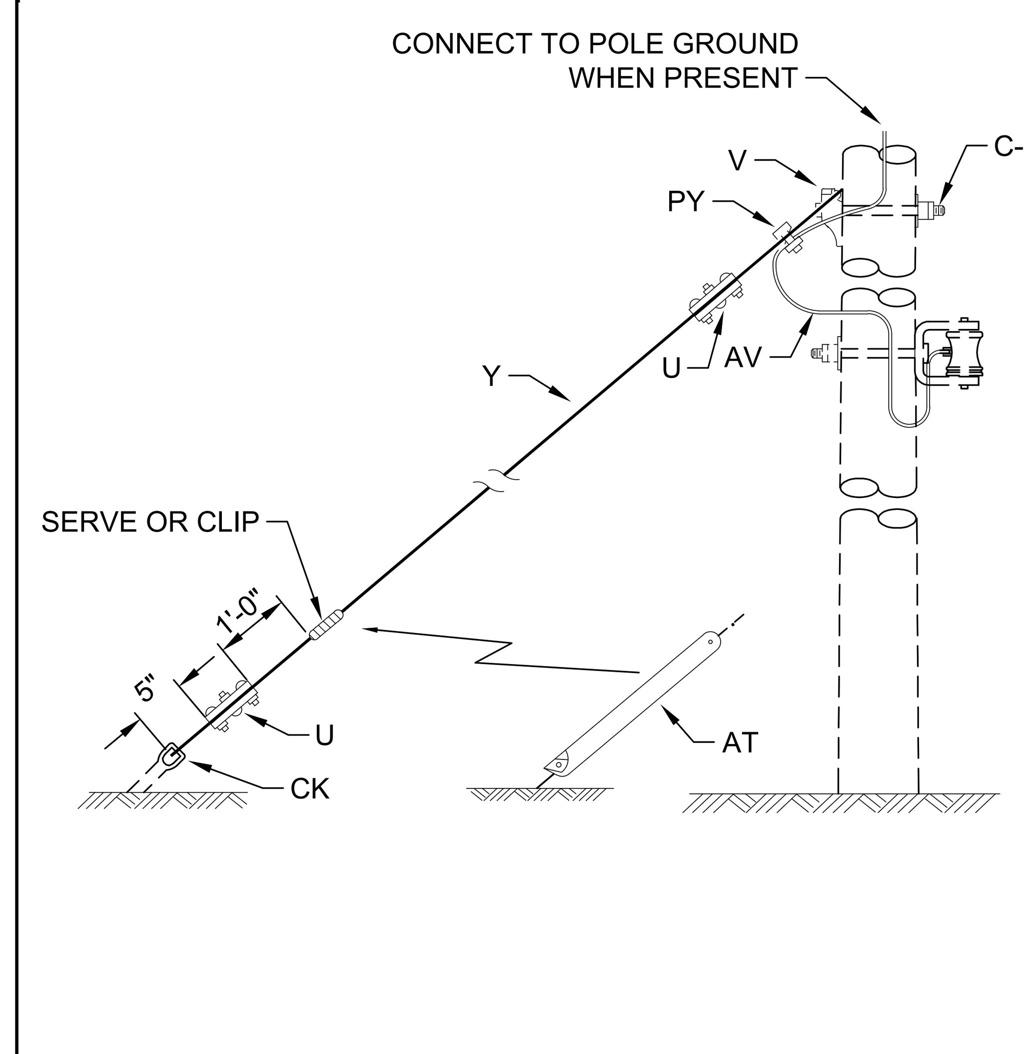

NOTES:

1. GROUND WIRE TO BE LOCATED ON SAME SIDE AS NEUTRAL CONDUCTOR AND IN QUADRANT OPPOSITE CLIMBING SPACE OR POLE TOP PIN.
2. STAPLES ON GROUND WIRE SHALL BE 2-0 APART EXCEPT FOR A DISTANCE OF 8 ABOVE GROUND AND 8 FROM TOP OF POLE WHERE THEY SHALL BE 6 APART.
3. GROUND WIRE (CJ) TO HAVE MINIMUM CONDUCTIVITY OF NO. 6 COPPER OR EQUIVALENT.
4. USE COPPER GROUND ROD, GROUND WIRE AND STAPLES.

| ITEM | QTY | MATERIAL |
|---|---|---|
| P | | CONNECTOR, COMPRESSION, AS REQ'D |
| AI | 1 | ROD, GROUND, 5/8" MIN. DIAMETER |
| AJ | 1 | CLAMP, GROUND ROD |
| AL | | STAPLE, GROUND WIRE, AS REG'D |
| CJ | | WIRE, POLE GROUND, AS REQ'D |

GROUNDING-ASSEMBLY-GROUND ROD TYPE — 2610-006

NTS




| ITEM | QTY | MATERIAL |
|---|---|---|
| C | 1 | BOLT, MACHINE, 5/8" X REQ'D LENGTH |
| D | 1 | WASHER, SQUARE, 2 1/4" |
| P | | CONNECTORS, GUY BOND AND AS REQ'D |
| U | 2 | DEADEND FOR GUY STRAND (SEE NOTE 1) |
| V | 1 | GUY ATTACHMENT (SEE NOTE 1) |
| Y | | GUY WIRE, AS REQ'D (SEE NOTE 2) |
| AT | 1 | GUY MARKER |
| AV | | JUMPERS, AS REQ'D |
| CK | 1 | CLAMP, ANCHOR BONDING |
| EK | 1 | LOCKNUTS |

SINGLE DOWN GUY — 2610-007

NTS

TITLE — XXXX-XXX

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MAXWELL / SITES PUMPING AND GENERATING
ELECTRICAL
STANDARD DETAILS

VERIFY SCALES
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0 1"

DRAWING NO.
MPG-2900-E-5001
SHT 45 OF 45

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