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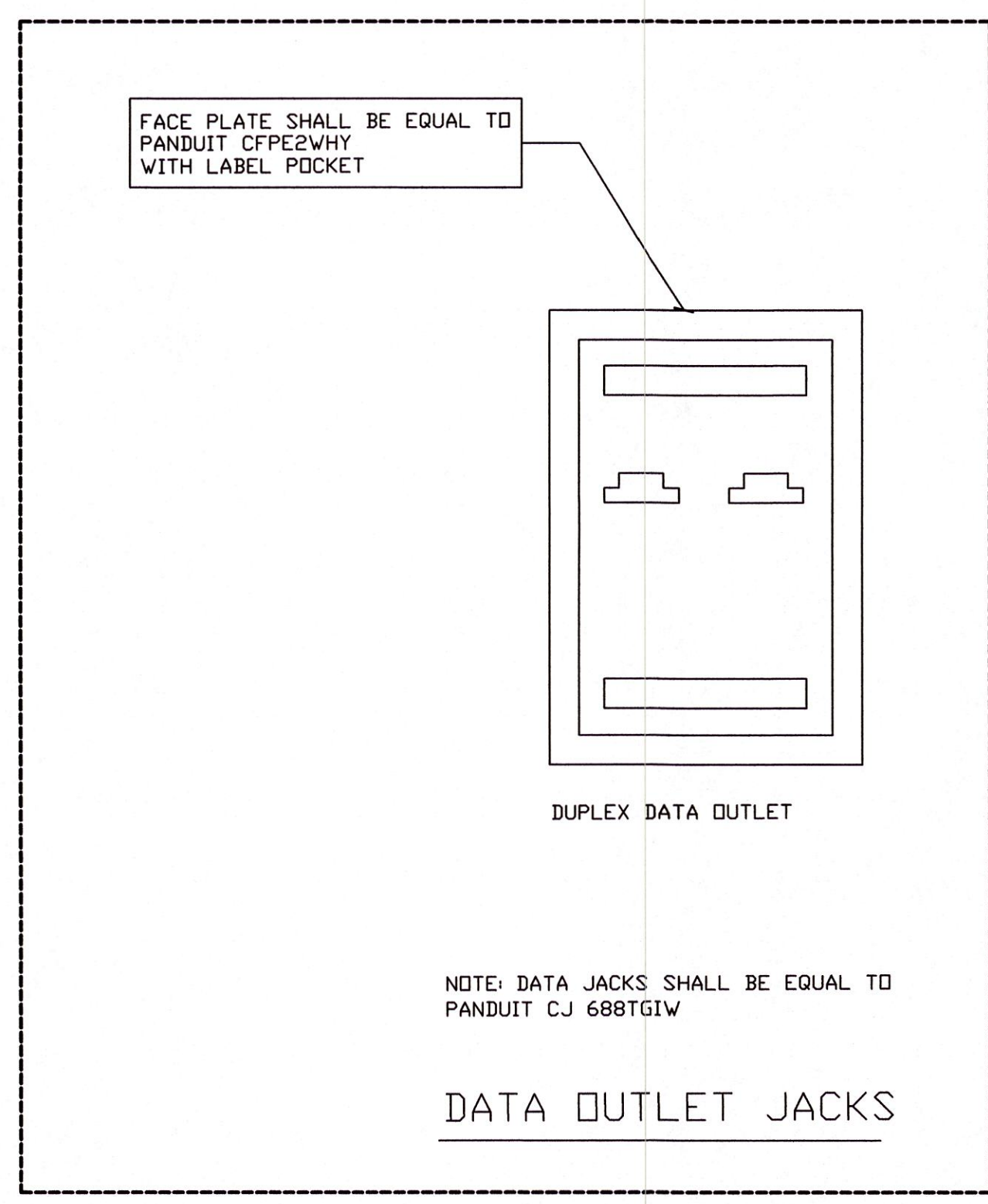
PROPOSED:
TRUMANN FIRE STATION
801 WEST MAIN ST, TRUMANN, AR 72472

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ELECTRICAL NOTES.

- INSTALL DUPLEX ELECTRICAL OUTLET AND DUPLEX DATA OUTLET AT LOCATION SHOWN FOR FIRE ALERTING SYSTEM. VERIFY LOCATION & HEIGHT WITH FIRE ALERTING SYSTEM SUPPLIER.
- AT DATA OUTLET LOCATIONS, CONTRACTOR SHALL INSTALL BOX, CONDUIT, DATA OUTLET AND CAT 6 CABLE. CAT CABLE SHALL TERMINATE IN ELECTRICAL ROOM FOR CONNECTION TO PATCH PANEL AND SWITCH.
- ALL ELECTRICAL PANELS SHALL BE INSTALLED AT LOCATION SHOWN.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL PROPOSED EQUIPMENT WITH OWNER.
- CONTRACTOR SHALL INSTALL TELEPHONE OUTLET WHERE SHOWN. CONTRACTOR SHALL INSTALL TELEPHONE WIRE FROM TELEPHONE OUTLET TO ELECTRICAL ROOM FOR CONNECTION TO TELEPHONE PANEL. VERIFY TELEPHONE PANEL AND TELEPHONE OUTLET LOCATION WITH OWNER.
- CONTRACTOR SHALL INSTALL NEW CABLE TV OUTLET WHERE SHOWN. CONTRACTOR SHALL INSTALL NEW COAX TV CABLE FROM OUTLET TO IT ROOM. VERIFY CABLE OUTLET LOCATIONS WITH OWNER.
- ALL WIRE IS THHN COPPER UNLESS SHOWN OTHERWISE.
- ELECTRICAL CIRCUIT SIZE, & BREAKER SIZE SERVING CRANE, AIR COMPRESSOR, WASH BAY EQUIPMENT, MECHANICAL EQUIPMENT, & ALL OTHER EQUIPMENT SHALL BE VERIFIED WITH EQUIPMENT SUPPLIER AND OWNER.
- ALL WIRE IS TYPE THHN COPPER. ALL SIZES ARE #12 UNLESS SHOWN OTHERWISE.
- THE CENTERLINES OF ALL CONVENIENCE OUTLETS ARE TO BE 12" A.F.F.
- THE CENTERLINES OF ALL SWITCHES ARE LOCATED 48" A.F.F. UNLESS SHOWN OTHERWISE.
- ALL WIRING AND INSTALLATIONS SHALL MEET ALL N.E.C. REQUIREMENTS.
- ALL CIRCUIT BREAKERS ARE 20 AMP UNLESS SHOWN OTHERWISE.
- ALL CONDUIT SIZE IS 1/2" UNLESS SHOWN OTHERWISE.
- CONTRACTOR SHALL COORDINATE LOCATION OF LIGHT FIXTURES WITH SUSPENDED CEILING GRID AND OTHER DISCIPLINES.
- FURNISH AND INSTALL ALL ELECTRICAL SYSTEMS COMPLETE IN EVERY RESPECT AND READY TO OPERATE. FURNISH ALL MISCELLANEOUS ITEMS AND ACCESSORIES REQUIRED FOR SUCH INSTALLATION, WHETHER OR NOT EACH SUCH ITEM OR ACCESSORY IS SHOWN ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS.
- PROVIDE RACEWAYS FOR ALL WIRING SYSTEMS, MINIMUM 3/4 INCH. RACEWAYS SHALL INCLUDE RIGID GALVANIZED STEEL, CONDUIT, RIGID ALUMINUM CONDUIT, (EMT) ELECTRICAL METALLIC TUBING, FLEXIBLE CONDUIT, SURFACE METAL RACEWAYS, WIRE WAYS AND TROUGHS. RACEWAYS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS FROM SERVICE ENTRANCE TO FINAL OUTLET. RACEWAYS SHALL BE RUN PERPENDICULAR AND PARALLEL TO BUILDING CONSTRUCTION. EXCEPT IN MECHANICAL ROOMS OR AS OTHERWISE NOTED, ALL RACEWAYS SHALL BE CONCEALED. ALL BREAKS AND TURNS WITH EXPOSED RACEWAYS SHALL BE MADE WITH MALLEABLE IRON CADMIUM OR HOT DIPPED GALVANIZED CONDUIT FITTINGS AND COVERS. RACEWAYS SHALL BE RIGIDLY SUPPORTED WITH MALLEABLE IRON CONDUIT CLAMPS OR TRAPEZE SUPPORTS AND CLAMPS AT INTERVALS NOT EXCEEDING 7 FEET WITH 12 INCHES OF ALL OUTLET BOXES, ELBOWS, AND CHANGES OF DIRECTION. CONCEALED RACEWAYS SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS AND NOT FURRING. ALL RACEWAY SYSTEMS SHALL BE COMPLETELY INSTALLED AND SECURED AND SWABBED OUT, AND ALL WORK IN THE AREA SHALL HAVE PROGRESSED SUFFICIENTLY TO PREVENT INJURY TO CABLES. BEFORE ANY CONDUCTORS ARE INSTALLED, PROVIDE CAPS AND PLUGS ON ENDS OF RACEWAYS AND OPENINGS IN BOXES TO PREVENT FOREIGN MATERIAL FROM ENTERING DURING CONSTRUCTION PROVIDE DOUBLE LOCKNUTS WHERE 1 1/2 INCH AND LARGER CONDUITS TERMINATE, WHERE NO. 4 AND LARGER CONDUCTORS ARE INSTALLED, AND WHERE REQUIRED BY NEC. DO NOT USE RUNNING THREADS. LEAVE NO. 12 PULL WIRE (IDENTIFIED AT BOTH ENDS) IN ALL EMPTY RACEWAYS. PROVIDE PLASTIC INSULATING BUSING ON ALL CONDUIT CONNECTIONS AND FIBER INSERTS ON ALL TUBING CONNECTIONS. SURFACE METAL RACEWAYS, SURFACE WIREMOLD AND SURFACE METAL TROUGHS SHALL BE INSTALLED ONLY WHERE SHOWN ON THE DRAWINGS.
- PROVIDE RIGID GALVANIZED STEEL CONDUITS FOR SERVICE ENTRANCE, PANEL FEEDERS AND ALL MOTOR FEEDERS. THREADLESS FITTINGS, ALL THREAD AND RUNNING THREADS SHALL NOT BE USED. RIGID CONDUITS SHALL BE PROVIDED FOR ALL RACEWAY SYSTEMS RUN UNDERGROUND OR EMBEDDED IN CONCRETE OR SOLID MASONRY.
- ELECTRICAL METALLIC TUBING (EMT) MAY BE USED FOR CONDUITS CONCEALED IN FURRED CEILINGS OR WALLS, RUN EXPOSED IN THE BUILDING, OR EMBEDDED IN HOLLOW MASONRY CONSTRUCTED ABOVE GRADE. EMT FITTINGS SHALL BE FERROUS METAL GALVANIZED OR PLATED TO RESIST CORROSION AND SHALL BE OF THE COMPRESSION-RING TYPE, RAIN-TIGHT AND CONCRETE-TIGHT.
- PROVIDE FLEXIBLE CONDUIT FOR ALL CONNECTIONS TO MOTORS AND OTHER EQUIPMENT SUBJECT TO VIBRATION OR MOTION WITH A MAXIMUM LENGTH OF 18 INCHES. FLEXIBLE CONDUIT MAY BE USED FOR FINAL CONNECTION TO LIGHTING FIXTURES IN LAY-IN CEILINGS. CONDUIT SHALL BE RIGIDLY SUPPORTED WHERE CONNECTION TO FLEXIBLE CONDUIT IS MADE. CONDUIT AND FITTINGS SHALL BE SELF GROUNDING AND, IN ADDITION, COPPER BONDING JUMPERS SHALL BE USED. CONNECTORS SHALL BE FERROUS METAL, GALVANIZED OR PLATED TO RESIST CORROSION, OF THE (2) SCREW CLAMP TYPE, OR THE SQUEEZE TYPE. FLEXIBLE CONDUIT AND FITTINGS USED OUTDOORS OR IN OTHER SUBJECT TO MOISTURE SHALL BE OF THE LIQUID-TIGHT TYPE WITH CONNECTORS HAVING AN O-RING ASSEMBLY.
- ALL CONDUITS SHALL BE RIGIDLY SUPPORTED AND SECURELY FASTENED TO STRUCTURAL MEMBERS.
- PROVIDE OUTLET AND JUNCTION BOXES WHERE SHOWN ON THE DRAWINGS OR AS REQUIRED BY CODE. BOXES SHALL BE INDEPENDENTLY RIGIDLY SUPPORTED AND ACCESSIBLE. ALL OUTLET BOXES SHALL BE MINIMUM OF TWO (2) INCHES DEEP. PROVIDE A FOUR (4) INCH SQUARE BOX WITH PLASTER RING AND COVER AT EACH SWITCH AND RECEPTACLE LOCATION. WIRING DEVICE BOXES LOCATED IN BRICK, BLOCK OR CONCRETE WALLS SHALL BE APPROVED FOR THE TYPE OF INSTALLATION BEING AT MORTAR JOINTS. MULTI-GANG BOXES SHALL BE INSTALLED FOR MORE THAN (2) ADJACENT DEVICES; SECTIONAL BOXES WILL NOT BE ALLOWED. OUTLETS EXPOSED TO THE WEATHER SHALL BE TYPE FD WITH WEATHERPROOF GASKETS AND COVERS, PULL BOXES SHALL BE CONSTRUCTED OF CODE GAUGE GALVANIZED STEEL AND SHALL BE SIZED NOT LESS THAN 1 1/2 TIMES ALL DIMENSIONS AS RECOMMENDED BY THE NEC. ALL CONDUCTORS IN PULL BOXES SHALL BE IDENTIFIED WITH TAGS.
- ALL CONDUCTORS SHALL BE RATED 600 VOLTS, AND SHALL BE COPPER WITH TYPE THHN INSULATION. MINIMUM SIZE SHALL BE NO. 12 AND NO. 8, AND LARGER SHALL BE STRANDED. ALL CONDUCTORS SHALL BE COLOR CODED, WITH SIZES THROUGH NO. 10 BEING OF THE SOLID COMPOUND COATING. STRIPES, BANDS OR HASH MARKS WITH RESPECTIVE COLOR CODING MAY BE USED FOR CONDUCTORS NO. 8 AND LARGER. COLOR CODING SHALL BE PHASE A-BLACK, PHASE B-RED, PHASE C-BLUE, NEUTRAL-WHITE, AND GROUND-GREEN.
- MAINS AND FEEDERS SHALL BE RUN CONTINUOUS WITHOUT JOINTS OR SPLICES. BRANCH CIRCUIT SPLICES SHALL BE MADE WITH 3M "SCOTCHLOKS", OR EQUAL. IN PANEL BOARDS AND BOXES, CONDUCTORS SHALL BE NEATLY PLACED IN PHASE GROUPS AND SUPPORTED AWAY FROM ALL ENCLOSURE SIDES. LACING SHALL BE DONE AT INTERVALS NOT GREATER THAN SIX (6) INCHES AND SHALL BE DONE WITH LINEN CORD OR T & B SELF-LOCKING "TY-RAPS", OR EQUAL.
- PROVIDE ALL LIGHTING FIXTURES AS NOTED ON THE DRAWINGS. FIXTURES SHALL BE SUSPENDED FROM STRUCTURAL MEMBERS, BY STANDARD BAR HANGERS, OR OTHER APPROVED MEANS. STRUCTURAL STEEL NECESSARY TO SUPPORT FIXTURES SHALL BE FURNISHED AND INSTALLED UNDER THIS SECTION. PROVIDE PLASTER FRAMES AS REQUIRED. ALL FIXTURES SHALL BE GROUNDED. FIXTURES SHALL BE IN PERFECT CONDITION AND OPERATING AT THE TIME OF COMPLETION. NEW BUILDING FIXTURES SHALL NOT BE USED FOR CONSTRUCTION LIGHTING. FIXTURE LOCATIONS SHALL BE COORDINATED WITH CEILING PATTERNS OR OTHER DETAILS OR NOTES AS SHOWN ON THE DRAWINGS.
- IF A LIGHTING FIXTURE FOR A SPECIFIC LOCATION IS NOT CLEARLY NOTED, THE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE ENGINEER PRIOR TO BIDDING, OR THE CONTRACTOR SHALL FURNISH AND INSTALL A FIXTURE SIMILAR AND COMPARABLE IN COST TO THAT SPECIFIED FOR OTHER LIKE LOCATION.
- FURNISH AND INSTALL ALL WIRING DEVICES AND PLATES WHERE SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. ALL DEVICES SHALL BE NEMA RATED SPECIFICATION GRADE, WITH ALL PARTS EXCEPT TERMINALS TOTALLY ENCLOSED, AND WITH EACH DEVICE SEPARATELY PACKAGED UPON ARRIVAL AT JOB SITE. HEIGHT OF WIRING DEVICE SHALL WORK WITH BRICK JOINTS AND CONCRETE BLOCK JOINTS, BUT IN GENERAL, LIGHTING SWITCHES SHALL BE MOUNTED 4'-0" ABOVE FLOOR, AND RECEPTACLES AND TELEPHONE OUTLETS SHALL BE MOUNTED 12" ABOVE FLOOR. ADJACENT WIRING DEVICES SHALL BE MOUNTED AS CLOSE TO EACH OTHER AS POSSIBLE. ALL WIRING DEVICES SHALL BE SIDE WIRED. COLOR OF PLATES SHALL BE SELECTED BY OWNER.
- THE ENTIRE ELECTRICAL SYSTEM AND THE BUILDING STRUCTURE SHALL BE GROUNDED, OR AS INDICATED ON THE DRAWINGS. THE ELECTRIC SERVICE, EQUIPMENT AND ENCLOSURES, CONDUITS AND RACEWAYS, SWITCHES, BREAKERS AND PANELS, MOTORS, CONTROLLERS, LIGHTING FIXTURES AND RECEPTACLES SHALL BE GROUNDED. EACH BRANCH OR POWER CIRCUIT SHALL HAVE AN INDEPENDENT GROUNDING CONDUCTOR WHETHER SHOWN OR NOT, WITH THE EXCEPTION OF LIGHTING SWITCHES.



- ELECTRICAL LEGEND**
- ⊕ = DUPLEX WALL ELECTRICAL OUTLET
 - ▼ = PROPOSED PHONE OUTLET
 - A-1 = CIRCUIT NUMBER
 - |— = SWITCH LEG
 - |— = PHASE LEG
 - |— = NEUTRAL LEG
 - A = LIGHT FIXTURE CODE
 - ⊕ = LIGHT SWITCH
 - ⊕₃ = 3 WAY LIGHT SWITCHES
 - ⊕₃D = LIGHT SWITCH WITH DIMMER
 - ⊕₃D = 3 WAY LIGHT SWITCH WITH DIMMER
 - ⊕ = SWITCH WITH OCCUPANCY SENSOR
 - OC =
 - = PROPOSED DISCONNECT
 - ⊕GFCI = GROUND FAULT CIRCUIT INTERRUPTER
 - ⊕GFCIWP = GROUND FAULT CIRCUIT INTERRUPTER (WEATHERPROOF)
 - = DUPLEX DATA OUTLET LOCATION
 - ER = CORD REEL (MOUNT ON BUILDING STRUCTURE)
 - S = SIMPLEX WALL DATA OUTLET LOCATION
 - W = WASHER / EXTRACTOR
 - DR = TURNOUT DRYER
 - C = COAX CABLE OUTLET
 - ⊕ = 208 VOLT OUTLET

