

# Addendum

Addendum Number: ADD-03  
 Addendum Date: 04.27.26

Project Number: 25-060  
 Project Name: Town & Country Maintenance Annex  
 Owner: City of Town & Country, MO

**Documents:**

1. True Engineering Addendum #3 Narrative

**Specifications:**

1. 323111 – Gate Operators
  - a. Removed learning remote control from accessories list.
  - b. Removed smart video intercom from accessories list.

**Drawings:**

1. Sheets P202, P301, P303, E201, E203, E301, E302, E401, E402, E403, E501
  - a. Reference True Engineering Addendum #3 Narrative

**Attachments:**

Documents  
 True Engineering Addendum #3 Narrative

Specifications  
 323111

Drawings  
 P202, P301, P303, E201, E203, E301, E302, E401, E402, E403, E501

SECTION 323111 – GATE OPERATORS

PART 1 - GENERAL

1. SECTION INCLUDES:
  - a. Automatic Swinging Gate Operator
  
2. REFERENCES:
  - a. ASTM F2200-05 – Standard Specification for Automated Vehicular Gate Construction. See 2.1 D.
  - b. ASTM F 1184-05 Standard Specification for Industrial and Commercial Horizontal Slide Gates, Type II, Class 2. See 3.2 B.
  - c. American Welding Society AWS D1.2 Structural Welding Code. See 2.1 C.
  - d. ASTM B 117-07 Standard Specification for Salt Spray Testing. See 1.3 C.1e.
  
3. SUBMITTAL:
  - a. Product Data:
    - 1) Provide manufacturer's catalog cuts with printed specifications and installation instructions.
    - 2) Deliver two copies of operation and maintenance data covering the installed products. Manual to include parts list showing manufacturer's names and part numbers for the gate operator.
  - b. Shop Drawings:
    - 1) Supply shop drawings showing the relationship of operating systems with gate components, including details of all major components.
    - 2) Include complete details of gate construction, gate height and post spacing dimensions.
  - c. Certification of Performance Criteria:
    - 1) Manufacturer of gate system shall provide certification stating the gate system includes the following material components that provide superior performance and longevity. Alternate designs built to minimum standards that do not include these additional structural features shall not be accepted.
      - a) Gate track system shall be keyed to interlock into gate frame member (providing 200% additional strength when compared to weld only keyless systems). When interlocked with and welded to the "keyed" frame top member, gate track forms a composite structure.
      - b) Gate shall have a minimum counterbalance length of 50% opening width which provides a 36% increase in lateral resistance (when compared to ASTM minimum of 40% counterbalance). If gate is ever to be automated, counterbalance section shall be filled with fabric or other specified material.
      - c) To provide superior structural integrity, major vertical members shall be spaced at intervals less than the gate frame height and each vertical member, including pickets, shall be welded in place.

**Town & Country Maintenance Annex**  
**Town & Country, Missouri**  
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- d) Entire gate frame shall include 2 adjustable stainless steel cables (minimum 3/16") per bay to allow complete gate frame adjustment (maintaining strongest structural square and level orientation).
  - e) Gate truck assemblies shall be tested for continuous duty and shall have plated steel bearings meeting ASTM B 117-07 salt spray test with no red rust after 790 hours (see 1.2 E). Bearings shall be specifically designed for roller applications with full compliment ball bearings, shock resistant outer races, and captured seals.
  - f) Gate truck assemblies shall be supported by a minimum 5/8" plated steel bolt with self aligning capability, rated to support a 2,000 # reaction load.
  - g) Hanger brackets shall be hot dipped galvanized steel with a minimum 3/8" thickness that is also gusseted for additional strength.
  - h) Gate top track and supporting hangar bracket assemblies shall be certified by a licensed professional engineer to withstand a 2,000 lb. vertical reaction load without exceeding allowable stresses.
- d. Certifications:
- 1) Gate in compliance with ASTM F 2200-05, Standard Specification for Automated Vehicular Gate Construction per section 2.1 D.
  - 2) If operated gate system, gate operator shall be in compliance with UL 325 as evidenced by UL listing label attached to gate operator.
  - 3) The aluminum welders and welding process must be certified per section 2.3 E.
  - 4) Manufacturer shall supply gate design performance certification as per section 1.3 C.

**PART 2 - PRODUCTS:**

**1. MANUFACTURERS**

- a. Equal to Liftmaster HDSW24UL
- b. Substitutions: Requests for substitutions will be considered in accordance with provisions of Section 012500

**2. MANUFACTURED UNITS**

**A. Swing Gate Operator:**

- 1. Model: HDSW24UL
- 2. Operation: Gear Driven
- 3. Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247
- 4. Motor: 24 VDC, continuous-duty type, sized to gate conditions.
- 5. Battery backup: 7Ah
- 6. Accessories:
  - a. Monitored safety devices: Through-beam photo eyes. Wireless edge with transmitter and receiver.
  - b. Internet gateway.
  - c. Plug-in loop detector.
  - d. Reinforced long arm.

7. WARRANTY:

- a. The gate and operator system shall be warranted by the manufacturer against manufacturing defects for a period of (5) five years from date of sale.

PART 3 - EXECUTION:

1. Site Inspection:

- a. Examine final grades and installation conditions.
  - 1) Do not begin work until all unsatisfactory conditions are corrected.

2. Installation:

- a. Install equipment of this section in strict accordance with the company's printed instructions unless otherwise shown on the contract drawings.
- b. The gate and installation shall conform to ASTM F 1184-05 standards for aluminum cantilever slide gates, Type II, Class 2. See 1.2 C.
- c. The gate system is to comply with ASTM F2200-05 and UL 325. See 1.2 B and 1.2 A.
- d. Obstruction Sensing Systems:
  - 1) The inherent motor current sensors are part of the gate operator system and may not be removed or bypassed.
  - 2) The installing contractor shall be responsible to ensure that appropriate external secondary entrapment protection devices be installed for the specific site conditions to protect against all potential entrapment zones. Proper operation of these safety devices shall be verified and training as to the operation and maintenance of these devices for the users and owners shall be documented.

3. System Acceptance & validation:

- a. Acceptance Test:
  - 1) Test each system function.
  - 2) Supply all equipment necessary for system adjustment and testing.
- b. Test and Explain Safety Features:
  - 1) Each system feature and device is a separate component of the gate system.
  - 2) Read and follow all instructions for each component.
  - 3) Ensure that all instructions for mechanical components, safety devices and the gate operator are available for everyone who will be using the gate system.
  - 4) The warning signs shipped with the gate operator must be installed in prominent position on both sides of the gate.
- c. System Validation:
  - 1) The complete system shall be adjusted to assure it is performing properly.
  - 2) The system shall be operated for a sufficient period of time to determine that the system is in proper working order.

**Town & Country Maintenance Annex**  
**Town & Country, Missouri**  
**PROJECT NO: 25-060**

- 3) Ensure the owner is clear with regard to the safety points concerning the basic operational guidelines of the safety features of the gate operator system. These safety points are listed in the operator manual and must be read prior to system use.
- 4) Installer and customer shall complete Operated Gate System Installation Checklist (see operator manual).

END OF SECTION 323111



## Addendum #03

**Date:** April 27, 2026

**Project:** Maintenance Annex  
City of Town and Country

**To:** Bryon Oster, AAIA  
H Design Group  
5039 South National Avenue  
Springfield, MO 65810

**From:** Jacob Nelson, PE – MO# PE-2009018758

**Copy:** File



04/27/2026

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This addendum is incorporated into the Contract Documents for the project referenced above.

### Drawings:

Sheet P202 – Plumbing Plan – Maintenance Annex:

1. Refer to detail 1/P202 – Plumbing Plan – Maintenance Annex:
  - a. Revise domestic cold water size per attached sheet AD03-P202.
  - b. Add domestic cold water connection per attached sheet AD03-P202.

Sheet P301 – Plumbing Details:

1. Refer to detail 2/P301 – Shop Plumbing Isometric:
  - a. Revise domestic cold water size per attached sheet AD03-P301.

Sheet P303 – Plumbing Schedules:

1. Refer to Plumbing Fixture Schedule:
  - a. Revise Shower SH1 per attached sheet AD03-P303.

Sheet E201 – Electrical Site Plan:

1. Refer to detail 1/E201 – Site Power Plan:
  - a. Add special systems pathways and gate control enclosure per attached sheet AD03-E201.
  - b. Add view reference per attached sheet AD03-E201.
2. Refer to detail 4/E201 – Direct Burial Conduit:
  - a. Add detail per attached sheet AD03-E201.
3. Refer to detail 5/E201 – Gate Detail:
  - a. Add detail per attached sheet AD03-E201.

Sheet E203 – Power Plan – Maintenance Annex:

1. Refer to detail 1/E203 – Power Plan – Maintenance Annex:
  - a. Add receptacle and circuit for microwave per attached sheet AD03-E203.

Sheet E301 – Special Systems Plan – Salt Building:

1. Refer to detail 1/E301 – Special Systems Plan – Salt Building:
  - a. Add telecom device and conduit per attached sheet AD03-E301.
  - b. Revise special system pathway note per attached sheet AD03-E301.

Sheet E302 – Special Systems Plan – Maintenance Annex:

1. Refer to detail 1/E302 – Special Systems Plan – Maintenance Annex:
  - a. Add special system conduit per attached sheet AD03-E302.
  - b. Add special system pathway note per attached sheet AD03-E302.
2. Refer to detail 2/E302 – Special Systems Plan – Maintenance Annex Mezzanine:
  - a. Revise location of wireless access point per attached sheet AD03-E302.
  - b. Add special system conduit per attached sheet AD03-E302.

Sheet E401 – Electrical Details:

1. Refer to detail 1/E401 – Electrical Riser:
  - a. Added LP02 panel special note per attached sheet AD03-E401.
  - b. Removed grounding electrode per attached sheet AD03-E401.

Sheet E402 – Telecom Details:

1. Refer to detail 1/E402 – Telecom Backbone Riser:
  - a. Add note per attached sheet AD03-E402.
2. Refer to detail 2/E402 – Telecom Bonding Riser Diagram:
  - a. Revise detail per attached sheet AD03-E402.
3. Refer to detail 3/E402 – Telecom "D" Outlet:
  - a. Add detail per attached sheet AD03-E402.
4. Refer to detail 7/E402 – Telecom Rack (Wall Mounted):
  - a. Revise detail per attached sheet AD03-E402.

Sheet E403 – Telecom Details and Schedules:

1. Refer to Telecom Device Schedule:
  - a. Add telecom device type per attached sheet AD03-E403.
  - b. Add note per attached sheet AD03-E403.

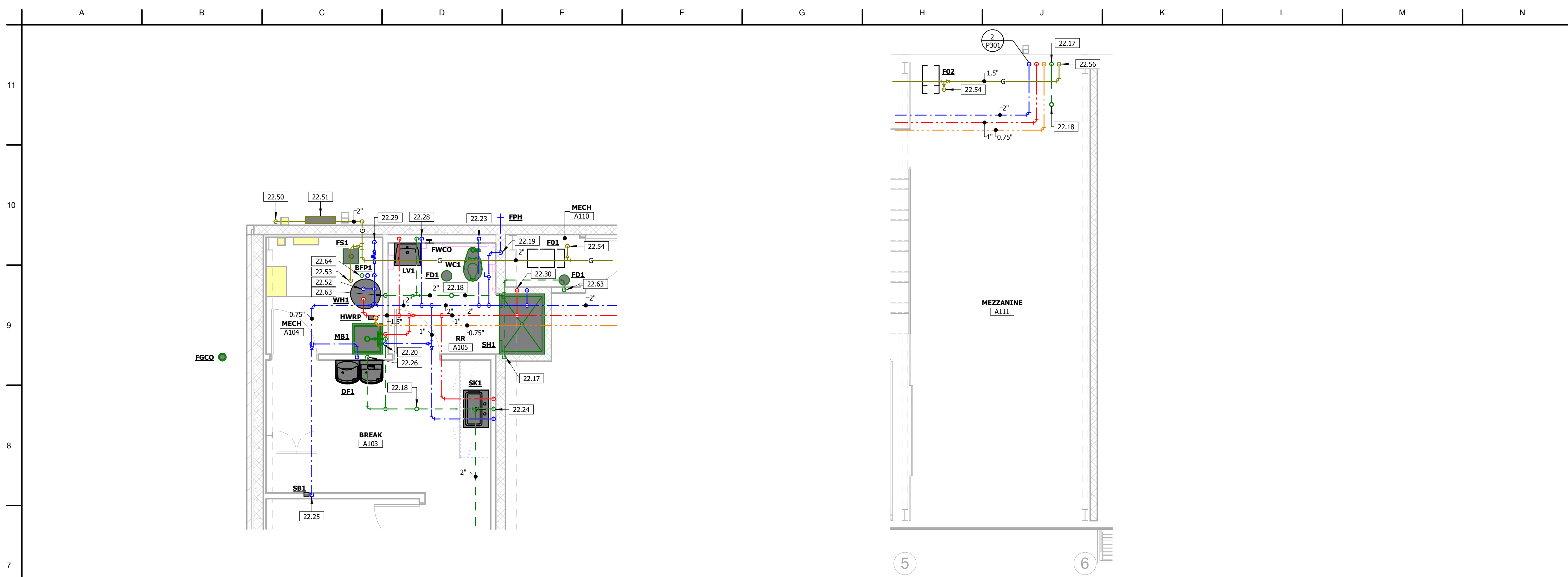
Sheet E501 – Electrical Schedules:

1. Refer to Generator Schedule:
  - a. Revise generator model number, kW rating, and kVA rating per attached sheet AD03-E501.

**Attachments:**

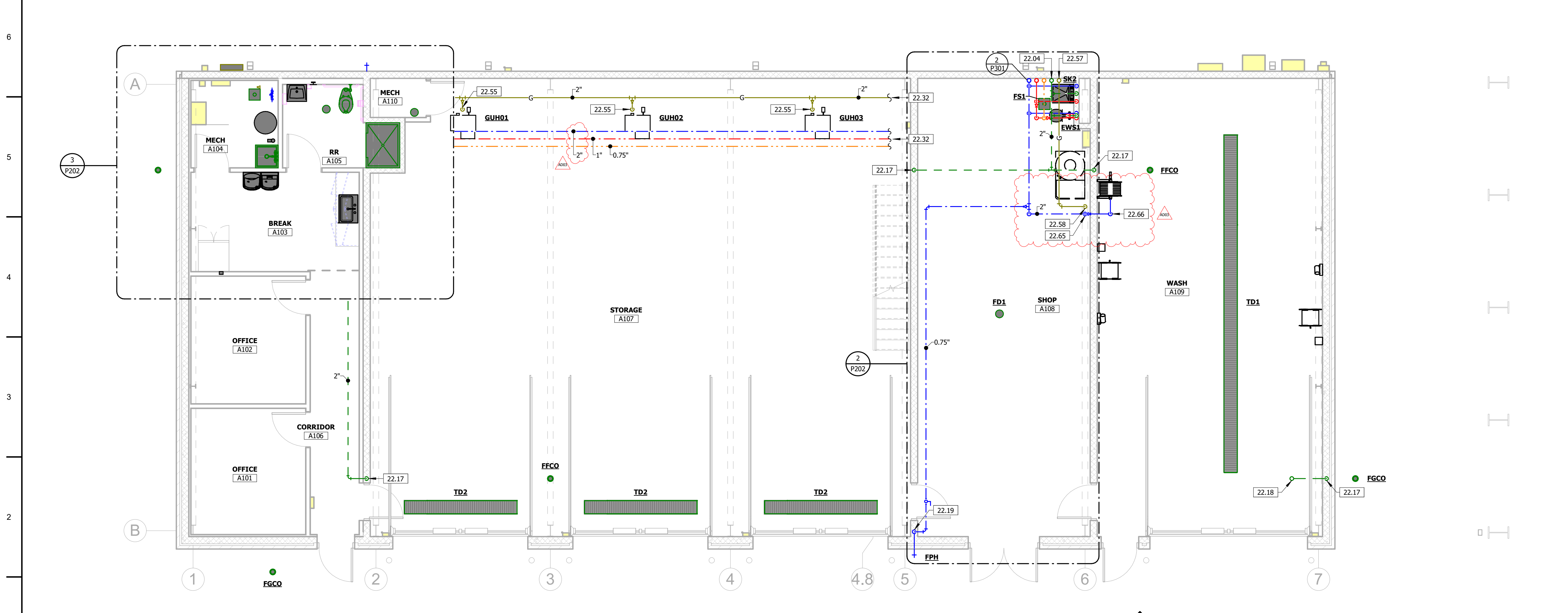
Drawings: AD03-P202, AD03-P301, AD03-P303, AD03-E201, AD03-E203, AD03-E301, AD03-E302, AD03-E401, AD03-E402, AD03-E403, and AD03-E501.





**2 PLUMBING PLAN - MEZZANINE**  
3/16" = 1'-0"

**3 ENLARGED PLUMBING PLAN**  
1/4" = 1'-0"



**1 PLUMBING PLAN - MAINTENANCE ANNEX**  
3/16" = 1'-0"

KEY VALUE	KEYNOTE TEXT
22.04	2" VENT UP.
22.17	2" VENT DOWN.
22.18	2" VENT UP TO 3" VENT THROUGH ROOF. SEAL WEATHER TIGHT. COORDINATE ROOF PENETRATION WITH ROOFING CONTRACTOR.
22.19	0.75" COLD WATER DOWN TO FREEZE PROOF WALL HYDRANT.
22.20	0.5" COLD AND HOT WATER AND 2" VENT DOWN TO MOP BASIN.
22.21	1.25" COLD WATER DOWN TO WATER CLOSET.
22.22	0.5" COLD AND HOT WATER AND 1.5" VENT DOWN TO SINK.
22.23	0.5" COLD WATER DOWN TO SUPPLY BOX.
22.24	0.5" COLD WATER AND 2" VENT DOWN TO LAVATORY.
22.25	0.5" COLD AND HOT WATER AND 2" VENT DOWN TO LAVATORY. PROVIDE FINISH WALL CLEANOUT UNDERNEATH SINK.
22.26	2" DOMESTIC WATER SERVICE DOWN.
22.27	2" NATURAL GAS METER BY UTILITY COMPANY. SIZE AND DETAILING BY UTILITY COMPANY. REFER TO GAS LOAD TABLE.
22.28	1.5" COLD AND HOT WATER DOWN TO WATER HEATER.
22.29	0.75" NATURAL GAS DOWN TO WATER HEATER. PROVIDE DIRT LEG, UNION, AND SHUT-OFF VALVE.
22.30	0.75" NATURAL GAS DOWN TO FURNACE. PROVIDE DIRT LEG, UNION, AND SHUT-OFF VALVE.
22.31	0.75" NATURAL GAS DOWN TO UNIT HEATER. PROVIDE DIRT LEG, UNION, AND SHUT-OFF VALVE.
22.32	1.5" NATURAL GAS DOWN.
22.33	1.5" NATURAL GAS UP.
22.34	1.5" NATURAL GAS DOWN TO PRESSURE WASHER. PROVIDE DIRT LEG, UNION, AND SHUT-OFF VALVE.
22.35	1.5" VENT DOWN.
22.36	1.5" VENT DOWN.
22.37	1.5" VENT DOWN.
22.38	1.5" VENT DOWN.
22.39	1.5" VENT DOWN.
22.40	1.5" VENT DOWN.
22.41	1.5" VENT DOWN.
22.42	1.5" VENT DOWN.
22.43	1.5" VENT DOWN.
22.44	1.5" VENT DOWN.
22.45	1.5" VENT DOWN.
22.46	1.5" VENT DOWN.
22.47	1.5" VENT DOWN.
22.48	1.5" VENT DOWN.
22.49	1.5" VENT DOWN.
22.50	1.5" VENT DOWN.
22.51	1.5" VENT DOWN.
22.52	1.5" VENT DOWN.
22.53	1.5" VENT DOWN.
22.54	1.5" VENT DOWN.
22.55	1.5" VENT DOWN.
22.56	1.5" VENT DOWN.
22.57	1.5" VENT DOWN.
22.58	1.5" VENT DOWN.
22.59	1.5" VENT DOWN.
22.60	1.5" VENT DOWN.
22.61	1.5" VENT DOWN.
22.62	1.5" VENT DOWN.
22.63	1.5" VENT DOWN.
22.64	1.5" VENT DOWN.
22.65	1.5" VENT DOWN.
22.66	1.5" VENT DOWN.

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THE CITY OF TOWN & COUNTRY  
1011 MUNICIPAL CENTER DRIVE  
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**REVISIONS**

NO.	DESCRIPTION	DATE
AD03	ADDENDUM #03	04/27/2026

PROJECT NO.: 20-000 DRAWN BY: CN  
DATE: 04/02/2026 REVIEWED BY: JN

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**PROJECT TITLE**  
TOWN AND COUNTRY MAINTENANCE ANNEX  
PROJECT ADDRESS:  
849 SALT MILL ROAD  
TOWN & COUNTRY, MO 63017

**TRUE ENGINEERING**  
MECHANICAL - ELECTRICAL - PLUMBING  
MISSOURI STATE CERTIFICATE OF AUTHORITY #E-2016000752

**PLUMBING PLAN - MAINTENANCE ANNEX**

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
22.61	0.5" HIGH-PRESSURE PIPING DOWN TO HOSE CONNECTION. PROVIDE ACCESSORIES AND CONNECTION AS RECOMMENDED BY MANUFACTURER.
22.62	0.5" HIGH-PRESSURE PIPING DOWN TO PRESSURE WASHER. PROVIDE ACCESSORIES AND CONNECTION AS RECOMMENDED BY MANUFACTURER.



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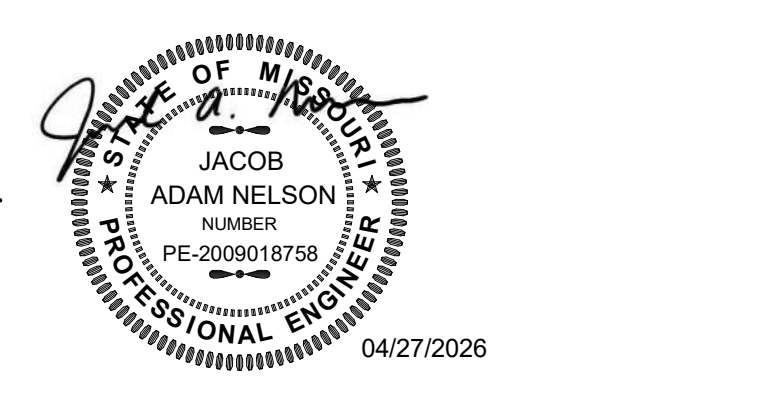
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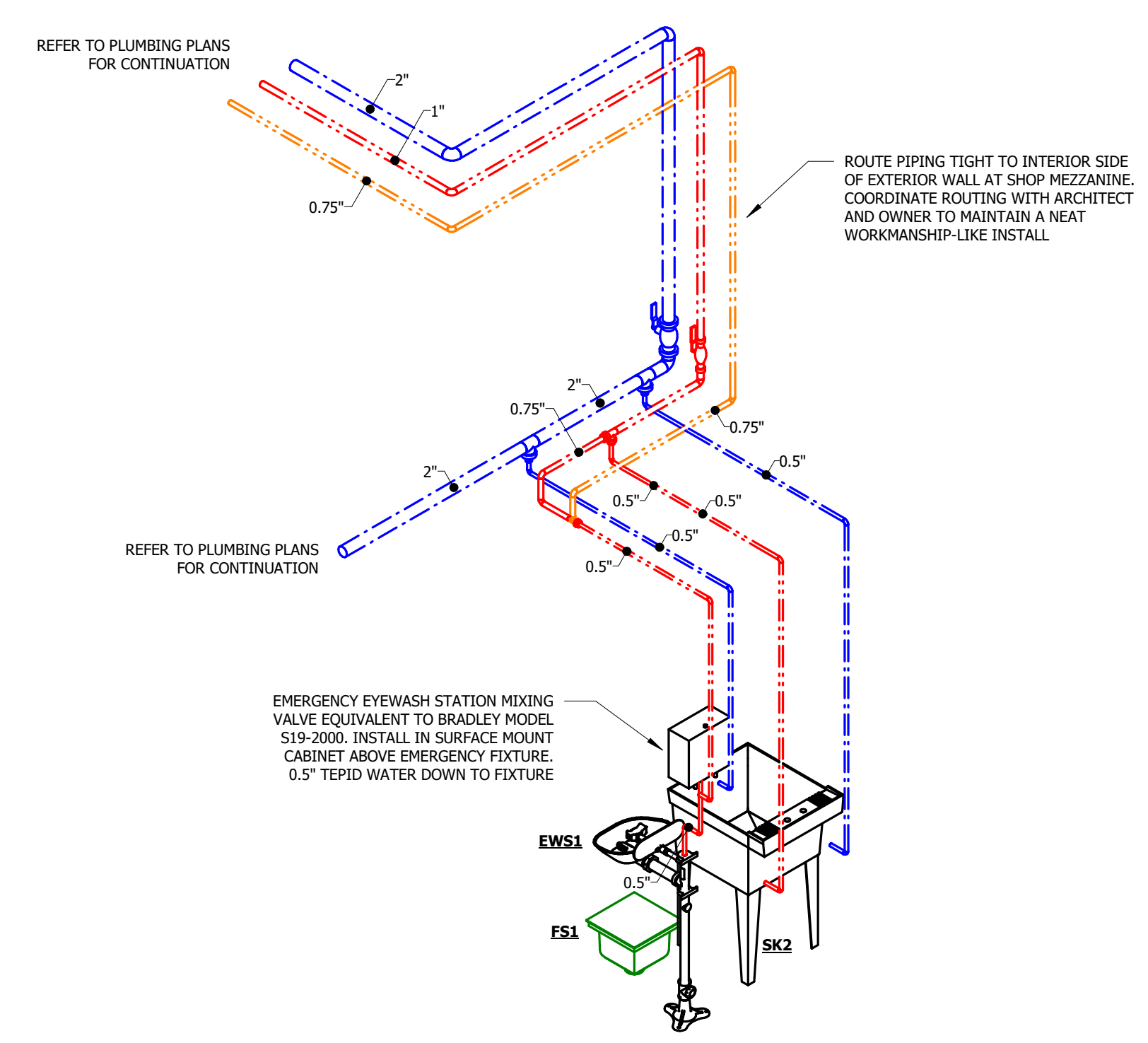
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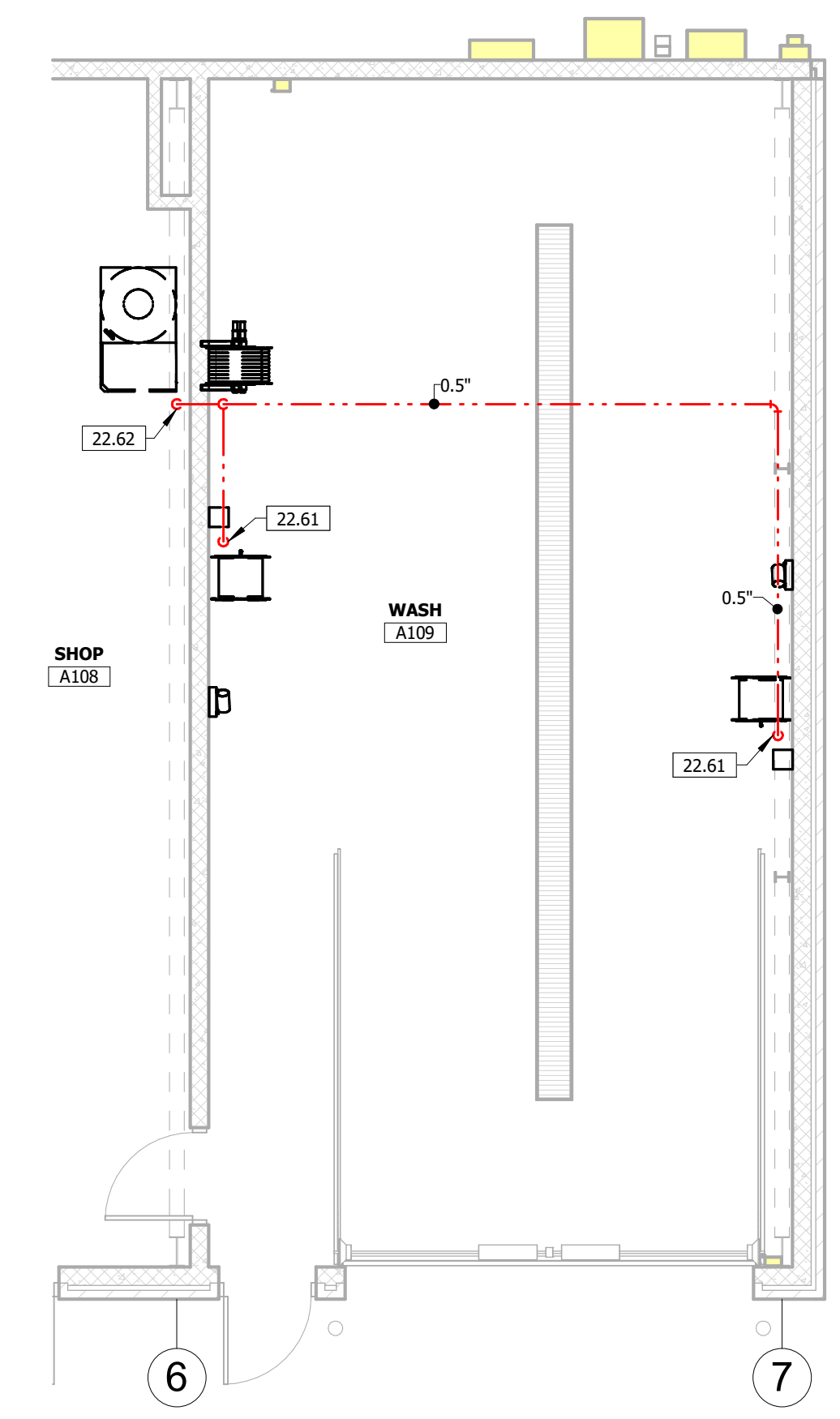
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TOWN AND COUNTRY MAINTENANCE ANNEX  
PROJECT ADDRESS:  
849 SALT MILL ROAD  
TOWN & COUNTRY, MO 63017

**PLUMBING DETAILS**



**2 SHOP PLUMBING ISOMETRIC**  
NOT TO SCALE

**HIGH-PRESSURE PIPING NOTE:**  
REFER TO SPECIFICATION SECTION 11 11 29 VEHICLE SHOP EQUIPMENT. HIGH-PRESSURE PIPING TO BE ASTM-A-12 SCHEDULE 80 STAINLESS STEEL WITH ANSI/ASME B 31.3 STAINLESS STEEL FITTINGS. PROVIDE PIPING FROM PRESSURE WASH UNIT TO EACH TRIGGER GUN WAND FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE WITH EQUIPMENT VENDOR.



**1 PLUMBING PLAN - HIGH-PRESSURE PIPING**  
3/16" = 1'-0"



MISSOURI STATE CERTIFICATE OF AUTHORITY #E-2016000752  
TRUE ENGINEERING GROUP, LLC  
MECHANICAL - ELECTRICAL - PLUMBING

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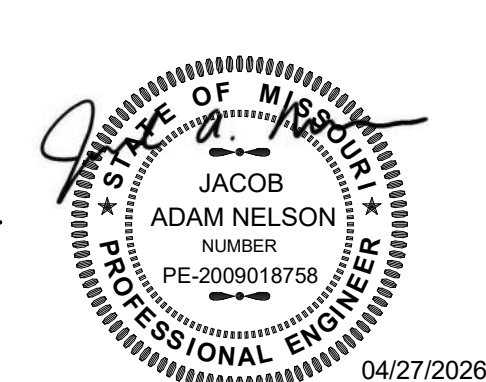
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**PROJECT TITLE**  
TOWN AND COUNTRY MAINTENANCE ANNEX

PROJECT ADDRESS:  
849 SALT MILL ROAD  
TOWN & COUNTRY, MO 63017

**PLUMBING SCHEDULES**

**BACKFLOW PREVENTER SCHEDULE**

**NOTES:**

- PRESSURE REDUCING VALVE AND STRAINER SHALL BE SAME MANUFACTURER AS BACKFLOW PREVENTER UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADAPTERS BETWEEN PIPE FITTING TYPES.
- PROVIDE SHUT-OFF VALVE UPSTREAM OF BACKFLOW PREVENTER ASSEMBLY AND ACCESSORIES.

TYPE MARK	MANUFACTURER	MODEL	SIZE	BACKFLOW PREVENTER	PRESSURE REDUCING VALVE	STRAINER	NOTES
BFP1	ZURN	375XL	2"	500XL	75 PSI	SXL	1,2,3

**WATER HEATER SCHEDULE**

**NOTES:**

- PROVIDE THERMAL EXPANSION TANK EQUIVALENT TO AMTROL MODEL ST-12-C.
- DRAIN VALVE WITH THREADED HOSE CONNECTION.
- PRESSURE & TEMPERATURE RELIEF VALVE.
- COMBUSTION INTAKE AND EXHAUST CONCENTRIC ROOF TERMINATION KIT.
- SUSPENDED WATER HEATER PLATFORM EQUAL TO HOLDRITE QUICKSTAND SERIES. REFER TO SUSPENDED WATER HEATER DETAIL.

TYPE MARK	MANUFACTURER	MODEL NUMBER	GALLONS	GAS INPUT (MBH)	GAS OUTPUT (MBH)	ELEC (KW)	VOLTAGE	NOTES
WH1	BRADFORD WHITE	LG2PDV75H803N	75	80	75	-	120/1	1,2,3,4
WH2	BRADFORD WHITE	LE230LN3-3	28	-	-	4.5	208/3	1,2,3,5

**PLUMBING FIXTURE SCHEDULE**

**NOTES:**

- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
- ALL COLORS AND FINISHES SELECTED BY ARCHITECT.
- INSTALL ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR ADA COMPLIANCE.
- PROVIDE 17 GAUGE CHROME PLATED BRASS WASTE, TAILPIECE AND P-TRAP. PROVIDE PLATED ESCUTCHEONS AT WALL PENETRATIONS.
- PROVIDE TRUEBRO HANDI-LAV-GUARD INSULATION KIT WHERE EXPOSED. COLOR SHALL BE SELECTED BY THE ARCHITECT.
- PROVIDE SHOCK ABSORBER FOR ALL INDIVIDUAL FIXTURES OR BATTERIES. SIZE UNITS SERVING FIXTURE BATTERIES PER MANUFACTURER.
- COORDINATE ACCESSORIES AND REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	ACCESSORIES	CW SIZE	HW SIZE	WASTE	VENT	NOTES
DF1	DRINKING FOUNTAIN	ELKAY	VRCTL8WSK	B1-LEVEL, BOTTLE FILLING STATION, VANDAL-RESISTANT BUBBLER, ZURN Z1225-BL CARRIER, QUARTER TURN STOPS, ADA COMPLIANT	0.5"	-	2"	2"	1,2,3,4
EWS1	EYE WASH STATION	BRADLEY	S19214EW	MANUFACTURER'S EMERGENCY MIXING VALVE INSTALLED IN CABINET	-	0.5"	2"	2"	3,4,7
FD1	FLOOR DRAIN	ZURN	Z415-6B	NICKEL BRONZE TOP, PROSET TRAP GUARD	-	-	2"	2"	-
FFCO	FINISH FLOOR CLEANOUT	ZURN	Z1400	NICKEL BRONZE TOP	-	-	SEE PLAN	-	-
FGCO	FINISH GRADE CLEANOUT	ZURN	ZN1400-1C	HEAVY DUTY STAINLESS STEEL COVER	-	-	SEE PLAN	-	-
FPH	FREEZE PROOF WALL HYDRANT	WOODFORD	865	FREEZELESS, AUTOMATIC DRAINING, ANTI-SIPHON, BOX/DOOR ASSEMBLY	0.75"	-	-	-	1,2
FS1	FLOOR SINK	ZURN	1900	1/2 GRATE, DOME STRAINER, PROSET TRAP GUARD	-	-	SEE PLAN	-	-
FWCO	FINISH WALL CLEANOUT	-	-	ROUND STAINLESS STEEL COVER, BRASS THREAD, PVC PLUG	-	-	SEE PLAN	-	-
LV1	WALL MOUNT LAVATORY	ZURN	Z5340	ZURN Z6915-XL FAUCET, 1.0 GPM, LAMINAR FLOW, VANDAL RESISTANT, WATTS LFUSG-B MIXING VALVE, GRID STRAINER, QUARTER TURN STOPS, WALL CARRIER, ADA COMPLIANT	0.5"	0.5"	2"	2"	1,2,3,4,5,6
MB1	MOP BASIN	FIAT	MSB2424	ZURN Z843M4-XL FAUCET, FIAT 838-AA HOSE AND BRACKET, FIAT 889-CC MOP HANGER, FIAT MSG2424 STAINLESS STEEL WALL GUARDS, FIAT E-77-AA VINYL BUMPERGUARD	0.5"	0.5"	3"	2"	2,7
SB1	ICE MACHINE SUPPLY BOX	GUY GRAY	MB1HAAB	QUARTER TURN, HAMMER ARRESTER	0.5"	-	-	-	1,2
SH1	SHOWER	AQUATIC	1483EN	BRADLEY ES1 SHOWER HEAD, BRADLEY TMV THERMOSTATIC MIXING VALVE, NICKEL BRONZE TOP DRAIN	0.5"	0.5"	2"	2"	1,2,7
SK1	BREAKROOM SINK	ELKAY	LRAD312265	ELKAY LK406GN0574 FAUCET, GRID STRAINER, QUARTER TURN STOPS, WATTS LFUSG-B MIXING VALVE, ADA COMPLIANT	0.5"	0.5"	2"	2"	2,3,4
SK2	TUB SINK	FIAT	SF1F	FIAT A1 FAUCET WITH HOSE ADAPTOR, GRID STRAINER, WATTS LFUSG-B MIXING VALVE	0.5"	0.5"	2"	2"	2,4
TD1	PRE-FAB TRENCH DRAIN	SIoux CHIEF	865	30' TOTAL LENGTH, 6" WIDTH, DUCTILE IRON GRATE. DIN EN 1433 CLASS D RATING, SLOPED TYPE, END BOTTOM OUTLET	-	-	4"	2"	-
TD2	CONCRETE FORMED TRENCH DRAIN	-	-	COORDINATE WITH STRUCTURE	-	-	4"	2"	-
WC1	ADA WATER CLOSET	ZURN	Z5665-BWL1	ZURN Z6000AV FLUSH VALVE, 1.6 GPF, OPEN FRONT COMMERCIAL SEAT, ADA COMPLIANT	1.25"	-	4"	2"	2,3,6

**PLUMBING PUMP SCHEDULE**

**NOTES:**

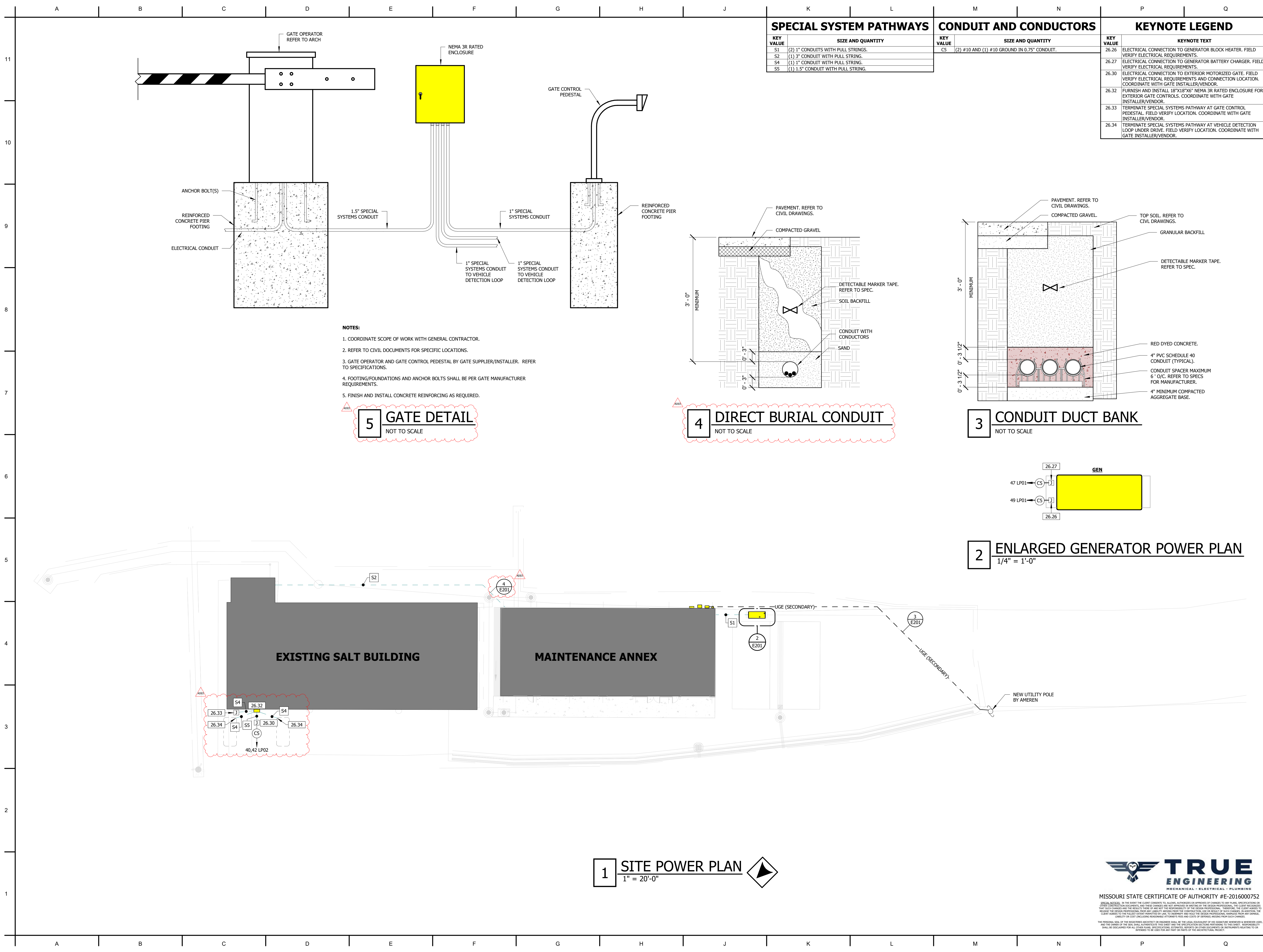
- PROVIDE AQUASTAT KIT FOR PUMP CONTROL.
- COORDINATE ELECTRICAL CONNECTION WITH ELECTRICAL CONTRACTOR.
- BEARINGS ARE TO BE LUBRICATED BY THE CIRCULATING FLUID.

TYPE MARK	MANUFACTURER	SERIES	INLET SIZE	DISCHARGE SIZE	GPM	PUMP HEAD (FT)	MOTOR HP (WATTS)	RPM	CONSTRUCTION	FLUID TYPE	FLUID TEMPERATURE	VOLTAGE	NOTES
HWRP	BELL & GOSSETT	ECOCIRC 20-18	0.75"	0.75"	2.0	10	44 WATTS	VARIABLE	COMPOSITE	DHW	140	120/1	1,2,3



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SPECIAL SYSTEM PATHWAYS	
KEY VALUE	SIZE AND QUANTITY
S1	(2) 1" CONDUITS WITH PULL STRINGS.
S2	(1) 3" CONDUIT WITH PULL STRING.
S4	(1) 1" CONDUIT WITH PULL STRING.
S5	(1) 1.5" CONDUIT WITH PULL STRING.

CONDUIT AND CONDUCTORS	
KEY VALUE	SIZE AND QUANTITY
C5	(2) #10 AND (1) #10 GROUND IN 0.75" CONDUIT.

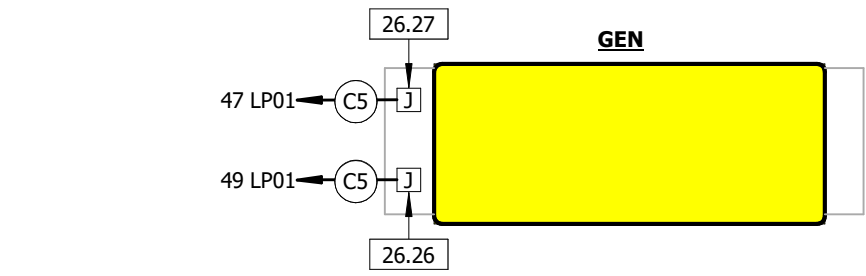
KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
26.26	ELECTRICAL CONNECTION TO GENERATOR BLOCK HEATER. FIELD VERIFY ELECTRICAL REQUIREMENTS.
26.27	ELECTRICAL CONNECTION TO GENERATOR BATTERY CHARGER. FIELD VERIFY ELECTRICAL REQUIREMENTS.
26.30	ELECTRICAL CONNECTION TO EXTERIOR MOTORIZED GATE. FIELD VERIFY ELECTRICAL REQUIREMENTS AND CONNECTION LOCATION. COORDINATE WITH GATE INSTALLER/VENDOR.
26.32	FURNISH AND INSTALL 18"X18"X6" NEMA 3R RATED ENCLOSURE FOR EXTERIOR GATE CONTROLS. COORDINATE WITH GATE INSTALLER/VENDOR.
26.33	TERMINATE SPECIAL SYSTEMS PATHWAY AT GATE CONTROL PEDESTAL. FIELD VERIFY LOCATION. COORDINATE WITH GATE INSTALLER/VENDOR.
26.34	TERMINATE SPECIAL SYSTEMS PATHWAY AT VEHICLE DETECTION LOOP UNDER DRIVE. FIELD VERIFY LOCATION. COORDINATE WITH GATE INSTALLER/VENDOR.

- NOTES:**
- COORDINATE SCOPE OF WORK WITH GENERAL CONTRACTOR.
  - REFER TO CIVIL DOCUMENTS FOR SPECIFIC LOCATIONS.
  - GATE OPERATOR AND GATE CONTROL PEDESTAL BY GATE SUPPLIER/INSTALLER. REFER TO SPECIFICATIONS.
  - FOOTING/FOUNDATIONS AND ANCHOR BOLTS SHALL BE PER GATE MANUFACTURER REQUIREMENTS.
  - FINISH AND INSTALL CONCRETE REINFORCING AS REQUIRED.

**5 GATE DETAIL**  
NOT TO SCALE

**4 DIRECT BURIAL CONDUIT**  
NOT TO SCALE

**3 CONDUIT DUCT BANK**  
NOT TO SCALE



**2 ENLARGED GENERATOR POWER PLAN**  
1/4" = 1'-0"

**1 SITE POWER PLAN**  
1" = 20'-0"



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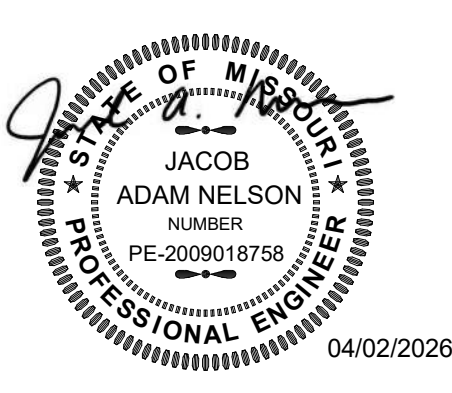
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NO.	DESCRIPTION	DATE
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PROJECT NO.: 20-000 DRAWN BY: AM  
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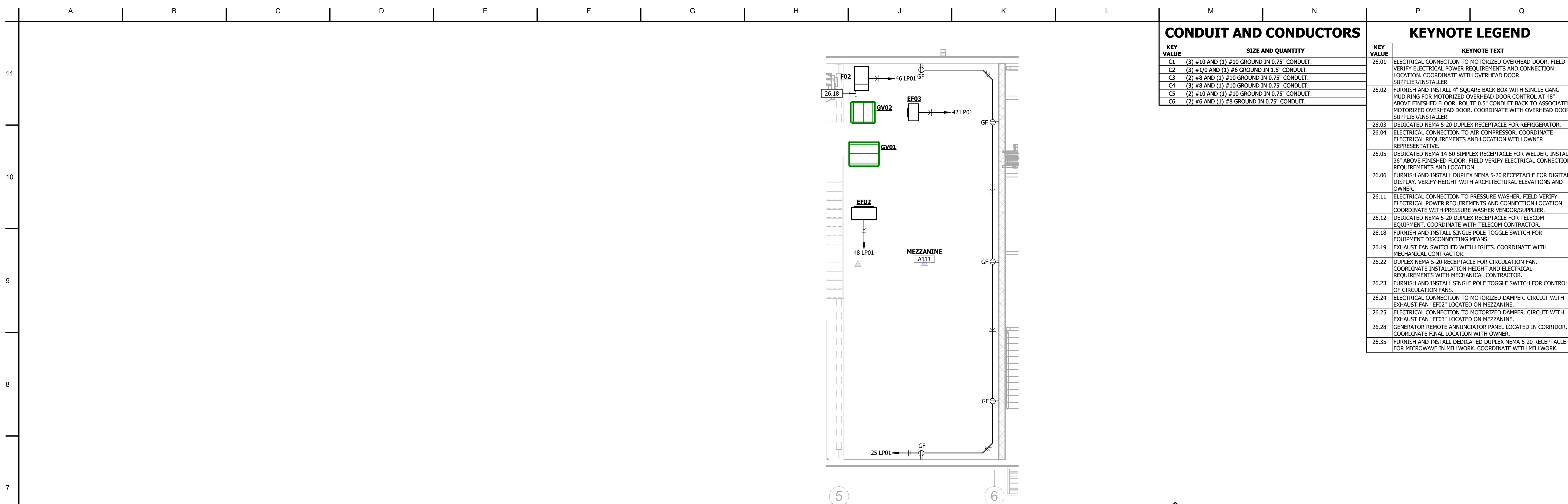
**ELECTRICAL SITE PLAN**



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**E201**



CONDUIT AND CONDUCTORS	
KEY VALUE	SIZE AND QUANTITY
C1	(3) #10 AND (1) #10 GROUND IN 0.75" CONDUIT.
C2	(3) #1/0 AND (1) #6 GROUND IN 1.5" CONDUIT.
C3	(2) #8 AND (1) #10 GROUND IN 0.75" CONDUIT.
C4	(3) #8 AND (1) #10 GROUND IN 0.75" CONDUIT.
C5	(2) #10 AND (1) #10 GROUND IN 0.75" CONDUIT.
C6	(2) #6 AND (1) #8 GROUND IN 0.75" CONDUIT.

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
26.01	ELECTRICAL CONNECTION TO MOTORIZED OVERHEAD DOOR. FIELD VERIFY ELECTRICAL POWER REQUIREMENTS AND CONNECTION LOCATION. COORDINATE WITH OVERHEAD DOOR SUPPLIER/INSTALLER.
26.02	FURNISH AND INSTALL 4" SQUARE BACK BOX WITH SINGLE GANG MUD RING FOR MOTORIZED OVERHEAD DOOR CONTROL. AT 48" ABOVE FINISHED FLOOR. ROUTE 0.5" CONDUIT BACK TO ASSOCIATED MOTORIZED OVERHEAD DOOR. COORDINATE WITH OVERHEAD DOOR SUPPLIER/INSTALLER.
26.03	DEDICATED NEMA 5-20 DUPLEX RECEPTACLE FOR REFRIGERATOR.
26.04	ELECTRICAL CONNECTION TO AIR COMPRESSOR. COORDINATE ELECTRICAL REQUIREMENTS AND LOCATION WITH OWNER REPRESENTATIVE.
26.05	DEDICATED NEMA 14-50 SIMPLEX RECEPTACLE FOR WELDER. INSTALL 36" ABOVE FINISHED FLOOR. FIELD VERIFY ELECTRICAL CONNECTION REQUIREMENTS AND LOCATION.
26.06	FURNISH AND INSTALL DUPLEX NEMA 5-20 RECEPTACLE FOR DIGITAL DISPLAY. VERIFY HEIGHT WITH ARCHITECTURAL ELEVATIONS AND OWNER.
26.11	ELECTRICAL CONNECTION TO PRESSURE WASHER. FIELD VERIFY ELECTRICAL POWER REQUIREMENTS AND CONNECTION LOCATION. COORDINATE WITH PRESSURE WASHER VENDOR/SUPPLIER.
26.12	DEDICATED NEMA 5-20 DUPLEX RECEPTACLE FOR TELECOM EQUIPMENT. COORDINATE WITH TELECOM CONTRACTOR.
26.18	FURNISH AND INSTALL SINGLE POLE TOGGLE SWITCH FOR EQUIPMENT DISCONNECTING MEANS.
26.19	EXHAUST FAN SWITCHED WITH LIGHTS. COORDINATE WITH MECHANICAL CONTRACTOR.
26.22	DUPLEX NEMA 5-20 RECEPTACLE FOR CIRCULATION FAN. COORDINATE INSTALLATION HEIGHT AND ELECTRICAL REQUIREMENTS WITH MECHANICAL CONTRACTOR.
26.23	FURNISH AND INSTALL SINGLE POLE TOGGLE SWITCH FOR CONTROL OF CIRCULATION FANS.
26.24	ELECTRICAL CONNECTION TO MOTORIZED DAMPER. CIRCUIT WITH EXHAUST FAN "EFD2" LOCATED ON MEZZANINE.
26.25	ELECTRICAL CONNECTION TO MOTORIZED DAMPER. CIRCUIT WITH EXHAUST FAN "EFD3" LOCATED ON MEZZANINE.
26.28	GENERATOR REMOTE ANNUNCIATOR PANEL LOCATED IN CORRIDOR. COORDINATE FINAL LOCATION WITH OWNER.
26.35	FURNISH AND INSTALL DEDICATED DUPLEX NEMA 5-20 RECEPTACLE FOR MICROWAVE IN MILLWORK. COORDINATE WITH MILLWORK.

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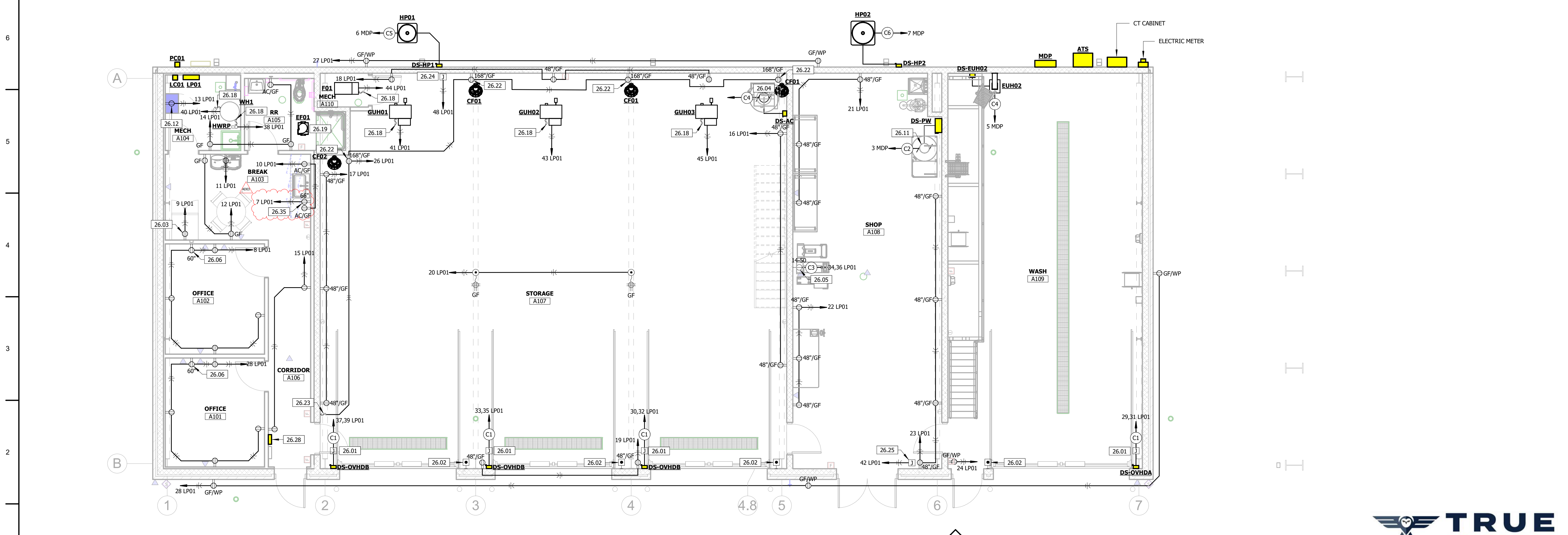
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 TOWN AND COUNTRY MAINTENANCE ANNEX  
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POWER PLAN - MAINTENANCE ANNEX

**2 POWER PLAN - MAINTENANCE ANNEX MEZZANINE**  
 3/16" = 1'-0"

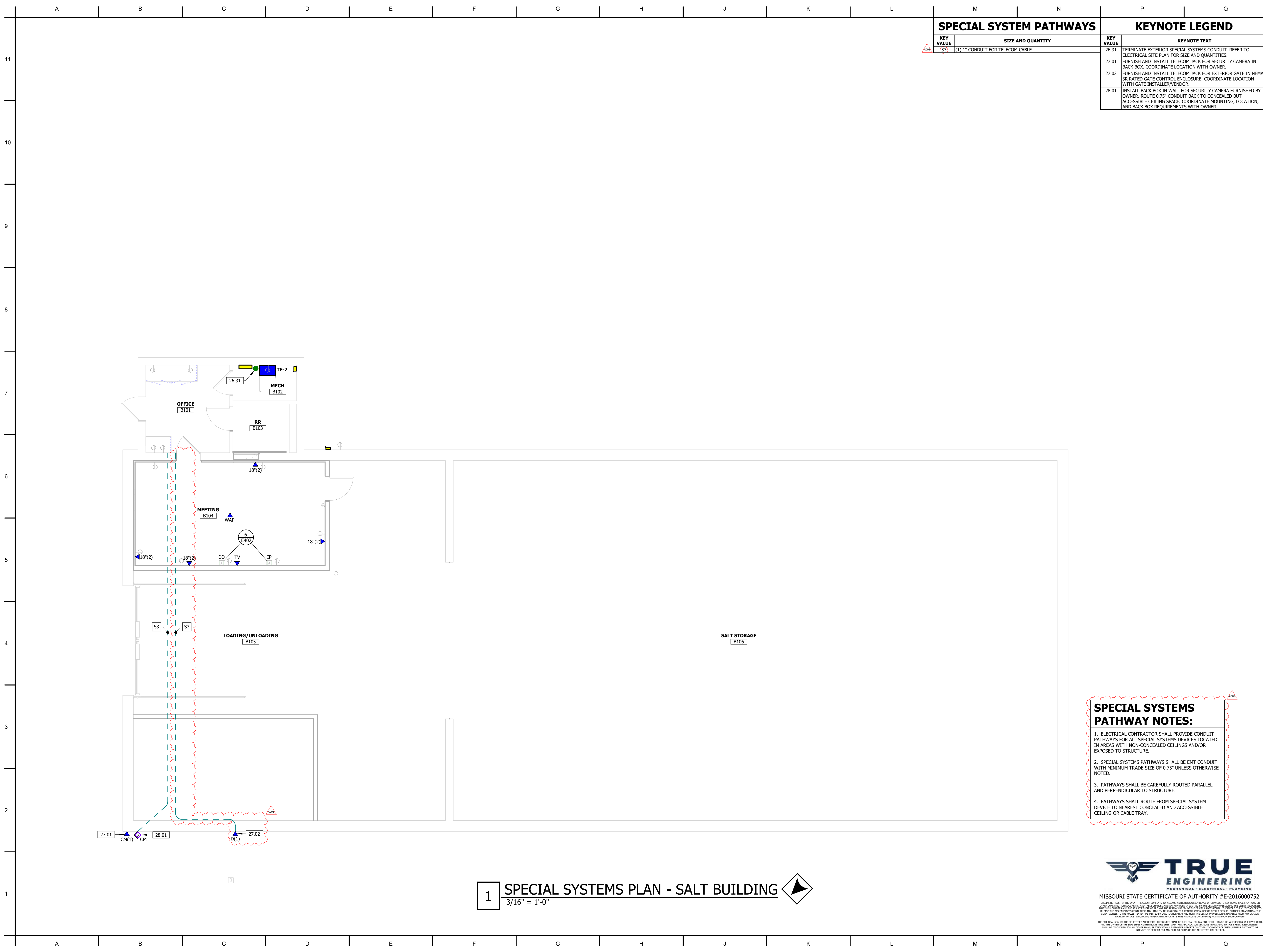


**1 POWER PLAN - MAINTENANCE ANNEX**  
 3/16" = 1'-0"

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1 SHEET

**E203**



SPECIAL SYSTEM PATHWAYS	
KEY VALUE	SIZE AND QUANTITY
S3	(1) 1" CONDUIT FOR TELECOM CABLE

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
26.31	TERMINATE EXTERIOR SPECIAL SYSTEMS CONDUIT. REFER TO ELECTRICAL SITE PLAN FOR SIZE AND QUANTITIES.
27.01	FURNISH AND INSTALL TELECOM JACK FOR SECURITY CAMERA IN BACK BOX. COORDINATE LOCATION WITH OWNER.
27.02	FURNISH AND INSTALL TELECOM JACK FOR EXTERIOR GATE IN NEMA 3R RATED GATE CONTROL ENCLOSURE. COORDINATE LOCATION WITH GATE INSTALLER/VENDOR.
28.01	INSTALL BACK BOX IN WALL FOR SECURITY CAMERA FURNISHED BY OWNER. ROUTE 0.75" CONDUIT BACK TO CONCEALED BUT ACCESSIBLE CEILING SPACE. COORDINATE MOUNTING, LOCATION, AND BACK BOX REQUIREMENTS WITH OWNER.



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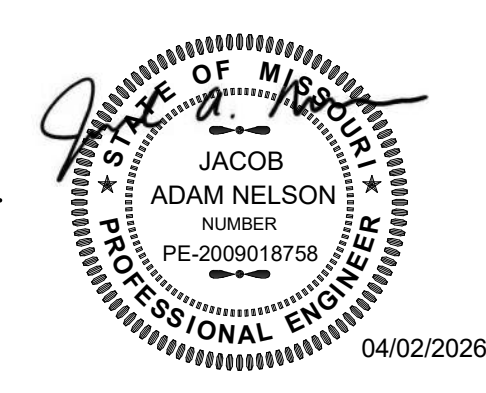
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 TOWN AND COUNTRY MAINTENANCE ANNEX  
 PROJECT ADDRESS:  
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**SPECIAL SYSTEMS PLAN - SALT BUILDING**

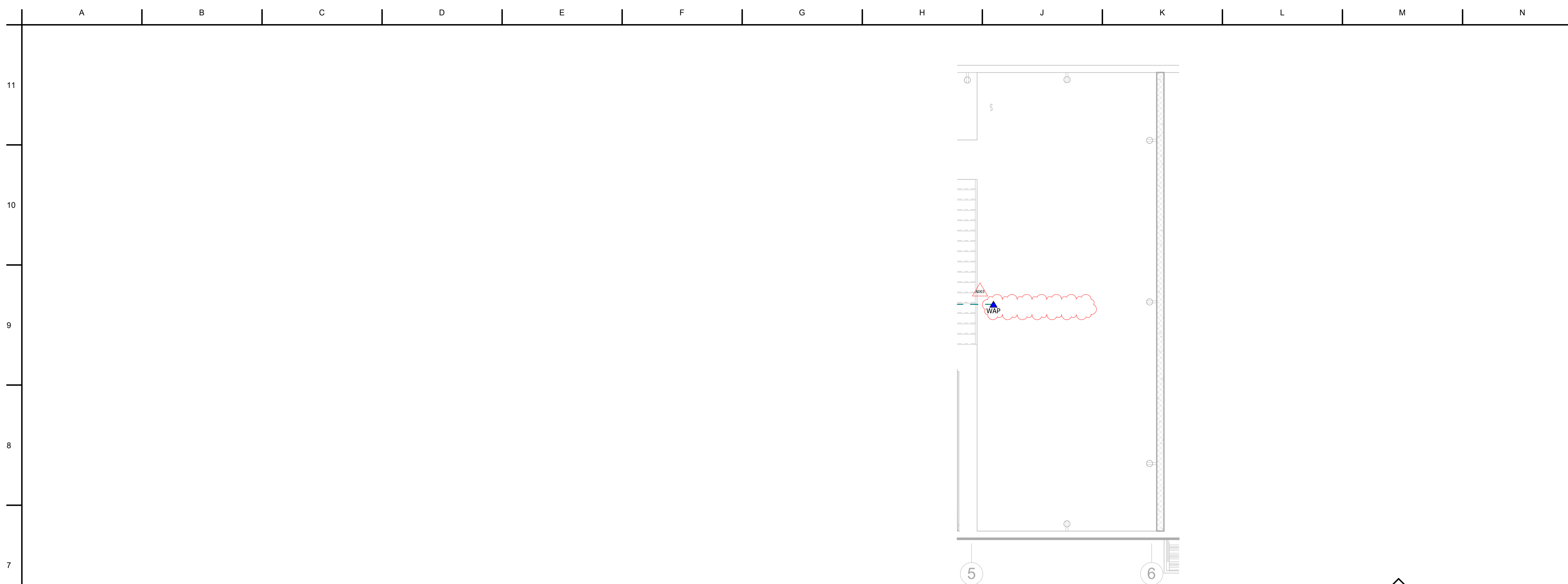
**SPECIAL SYSTEMS PATHWAY NOTES:**

- ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT PATHWAYS FOR ALL SPECIAL SYSTEMS DEVICES LOCATED IN AREAS WITH NON-CONCEALED CEILINGS AND/OR EXPOSED TO STRUCTURE.
- SPECIAL SYSTEMS PATHWAYS SHALL BE EMT CONDUIT WITH MINIMUM TRADE SIZE OF 0.75" UNLESS OTHERWISE NOTED.
- PATHWAYS SHALL BE CAREFULLY ROUTED PARALLEL AND PERPENDICULAR TO STRUCTURE.
- PATHWAYS SHALL ROUTE FROM SPECIAL SYSTEM DEVICE TO NEAREST CONCEALED AND ACCESSIBLE CEILING OR CABLE TRAY.

**1 SPECIAL SYSTEMS PLAN - SALT BUILDING**  
 3/16" = 1'-0"



**E301**



**2** SPECIAL SYSTEMS PLAN - MAINTENANCE ANNEX MEZZANINE  
 3/16" = 1'-0"

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
26.31	TERMINATE EXTERIOR SPECIAL SYSTEMS CONDUIT. REFER TO ELECTRICAL SITE PLAN FOR SIZE AND QUANTITIES.
27.01	FURNISH AND INSTALL TELECOM JACK FOR SECURITY CAMERA IN BACK BOX. COORDINATE LOCATION WITH OWNER.
28.01	INSTALL BACK BOX IN WALL FOR SECURITY CAMERA FURNISHED BY OWNER. ROUTE 0.75" CONDUIT BACK TO CONCEALED BUT ACCESSIBLE CEILING SPACE. COORDINATE MOUNTING, LOCATION, AND BACK BOX REQUIREMENTS WITH OWNER.

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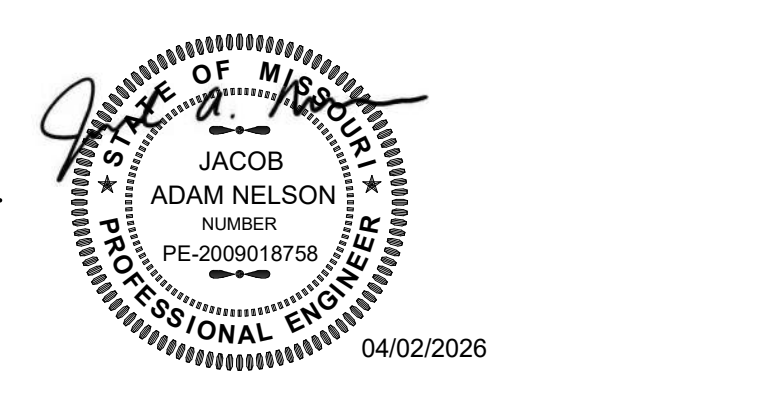
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**SPECIAL SYSTEMS PLAN - MAINTENANCE ANNEX**

**SPECIAL SYSTEMS PATHWAY NOTES:**

- ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT PATHWAYS FOR ALL SPECIAL SYSTEMS DEVICES LOCATED IN AREAS WITH NON-CONCEALED CEILING AND/OR EXPOSED TO STRUCTURE.
- SPECIAL SYSTEMS PATHWAYS SHALL BE EMT CONDUIT WITH MINIMUM TRADE SIZE OF 0.75" UNLESS OTHERWISE NOTED.
- PATHWAYS SHALL BE CAREFULLY ROUTED PARALLEL AND PERPENDICULAR TO STRUCTURE.
- PATHWAYS SHALL ROUTE FROM SPECIAL SYSTEM DEVICE TO NEAREST CONCEALED AND ACCESSIBLE CEILING OR CABLE TRAY.

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**1** SPECIAL SYSTEMS PLAN - MAINTENANCE ANNEX  
 3/16" = 1'-0"

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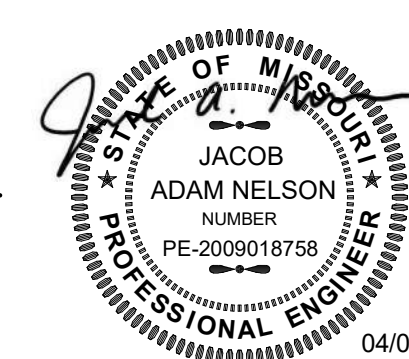
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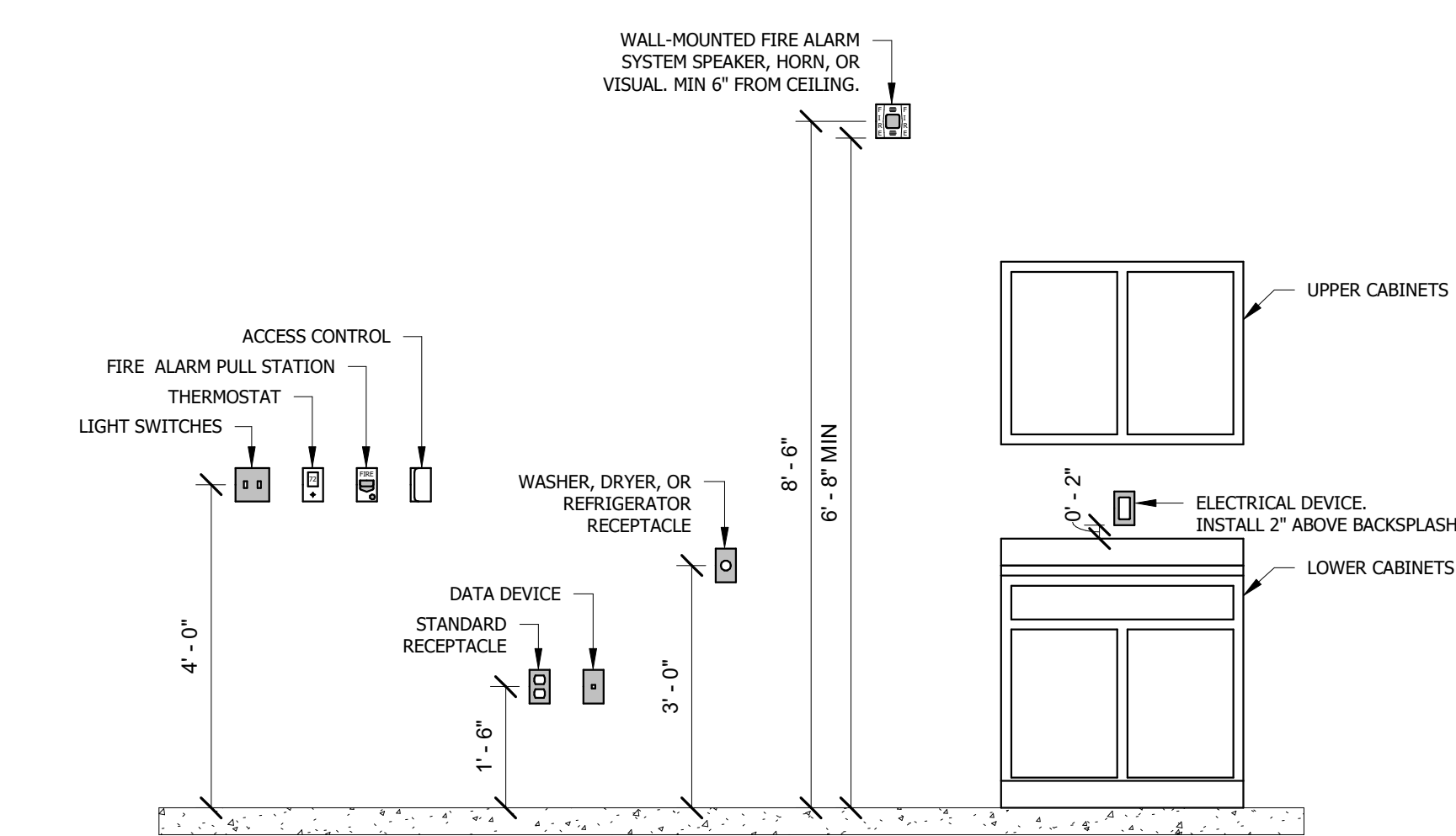


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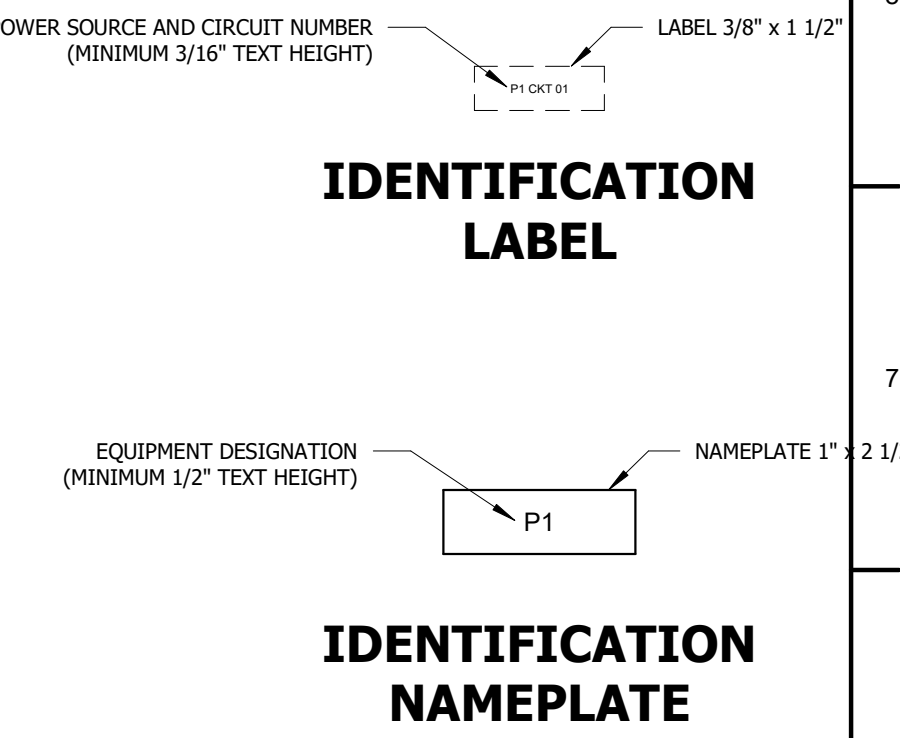
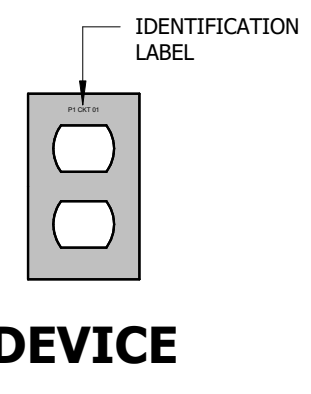
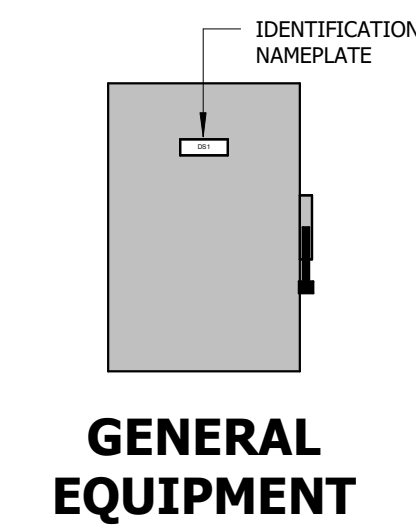
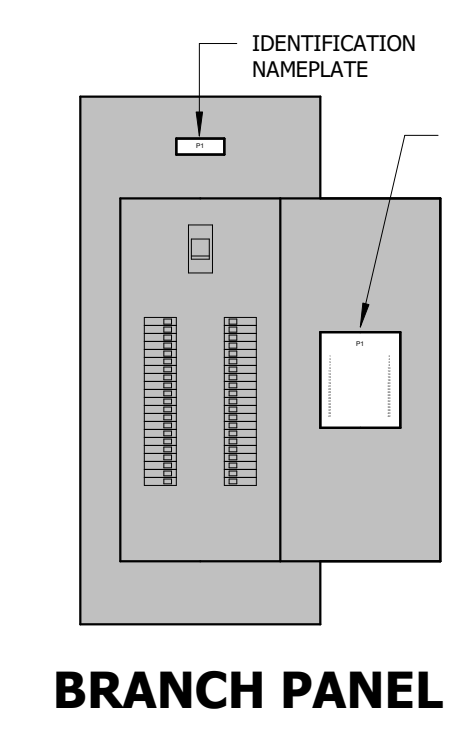
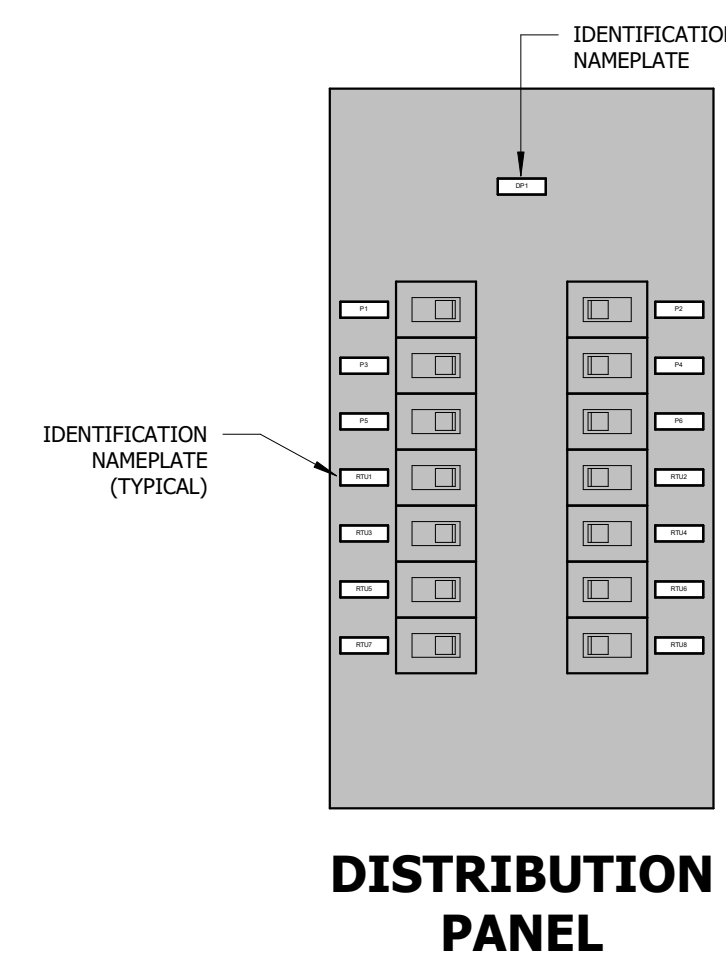
**PROJECT TITLE**  
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**ELECTRICAL DETAILS**

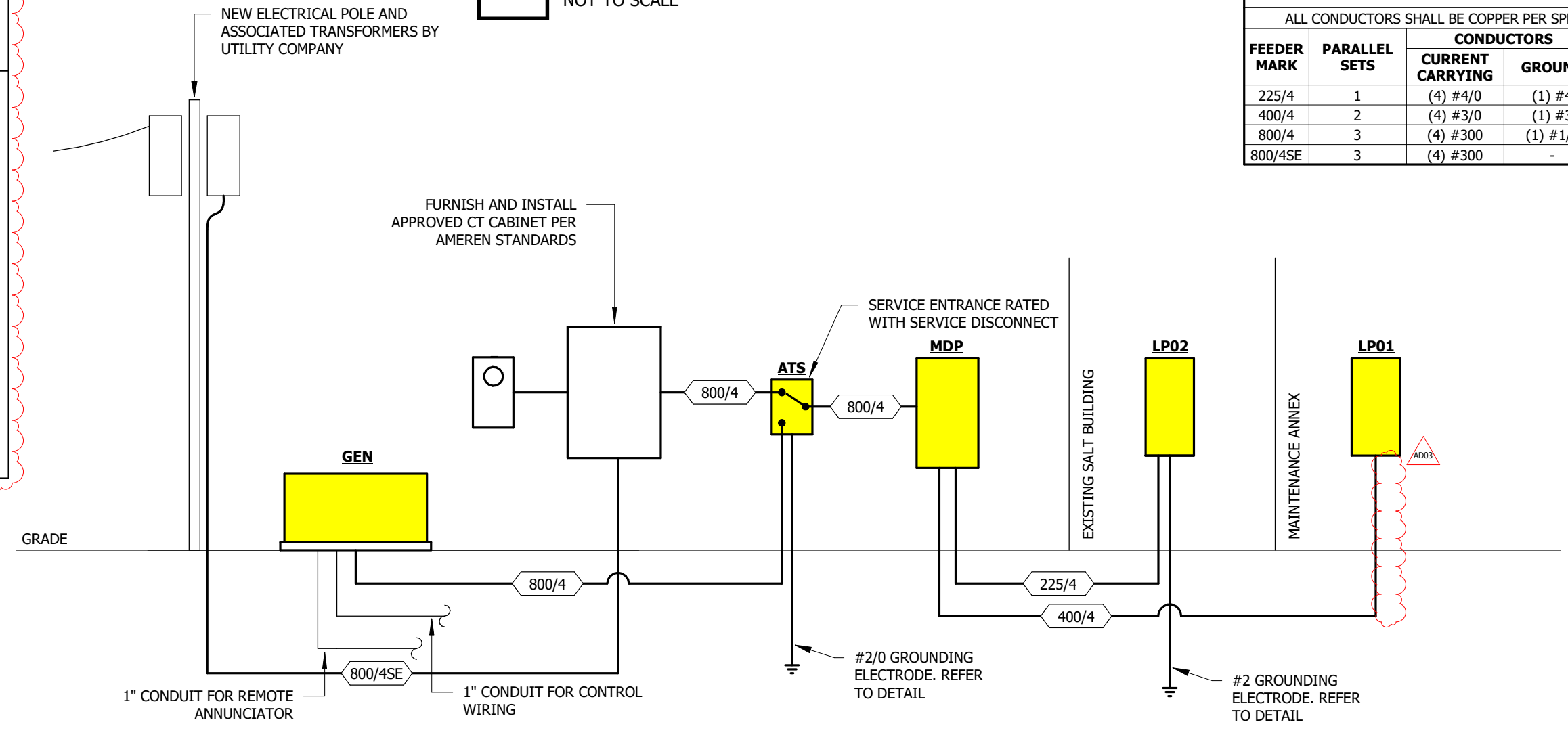


**3 TYPICAL ELECTRICAL DEVICE MOUNTING HEIGHTS**  
NOT TO SCALE



- NOTES:**
- INTERIOR IDENTIFICATION NAMEPLATES SHALL BE MULTILAYER PLASTIC/ACRYLIC WITH MINIMUM THICKNESS OF 1/8" AND BEVELLED EDGES. NAMEPLATES SHALL BE ATTACHED WITH ADHESIVE.
  - EXTERIOR IDENTIFICATION NAMEPLATES SHALL BE ALUMINUM OR STAINLESS STEEL WITH MINIMUM THICKNESS OF 1/32". NAMEPLATES SHALL BE ATTACHED WITH RIVETS.
  - IDENTIFICATION NAMEPLATE LETTERING SHALL BE MECHANICALLY ENGRAVED.
  - COLOR FOR IDENTIFICATION NAMES PLATES:
    - A. NORMAL POWER SYSTEMS: WHITE TEXT WITH BLACK BACKGROUND
    - B. EMERGENCY POWER SYSTEMS: WHITE TEXT WITH RED BACKGROUND
  - IDENTIFICATION LABELS SHALL BE SELF-ADHESIVE LAMINATED PLASTIC LABELS WITH BLACK TEXT ON CLEAR BACKGROUND.
  - REFER TO SPECIFICATION SECTION 26 05 53 IDENTIFICATION FOR ELECTRICAL SYSTEMS FOR ADDITIONAL REQUIREMENTS.

**2 ELECTRICAL LABELING**  
NOT TO SCALE



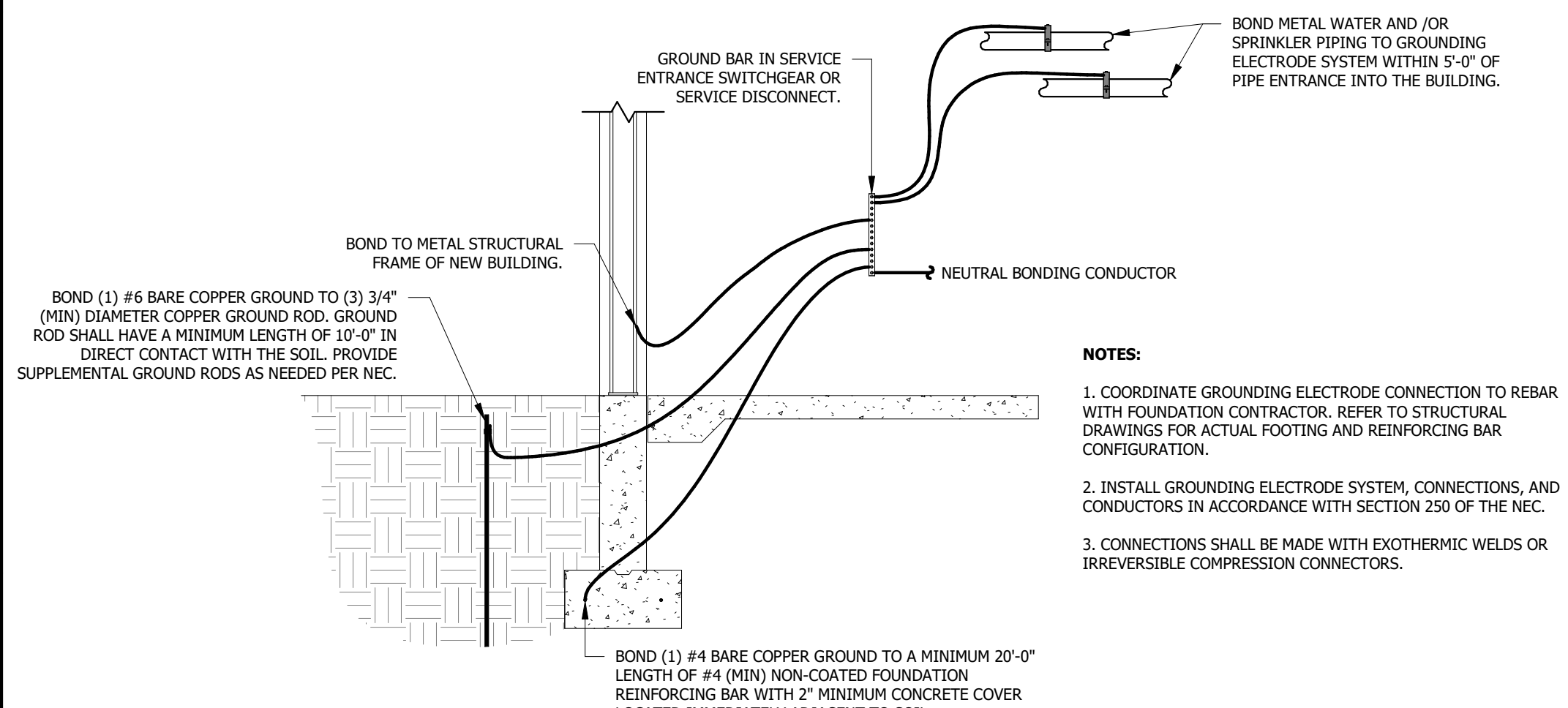
**FEEDER SCHEDULE**  
ALL CONDUCTORS SHALL BE COPPER PER SPECIFICATIONS

FEEDER MARK	PARALLEL SETS	CONDUCTORS CARRYING		CONDUIT SIZE
		CURRENT	GROUND	
225/4	1	(4) #4/0	(1) #4	2.5"
400/4	2	(4) #3/0	(1) #3	2.5"
800/4	3	(4) #300	(1) #1/0	3"
800/4SE	3	(4) #300	-	3"

**LPO2 PANEL SPECIAL NOTE:**

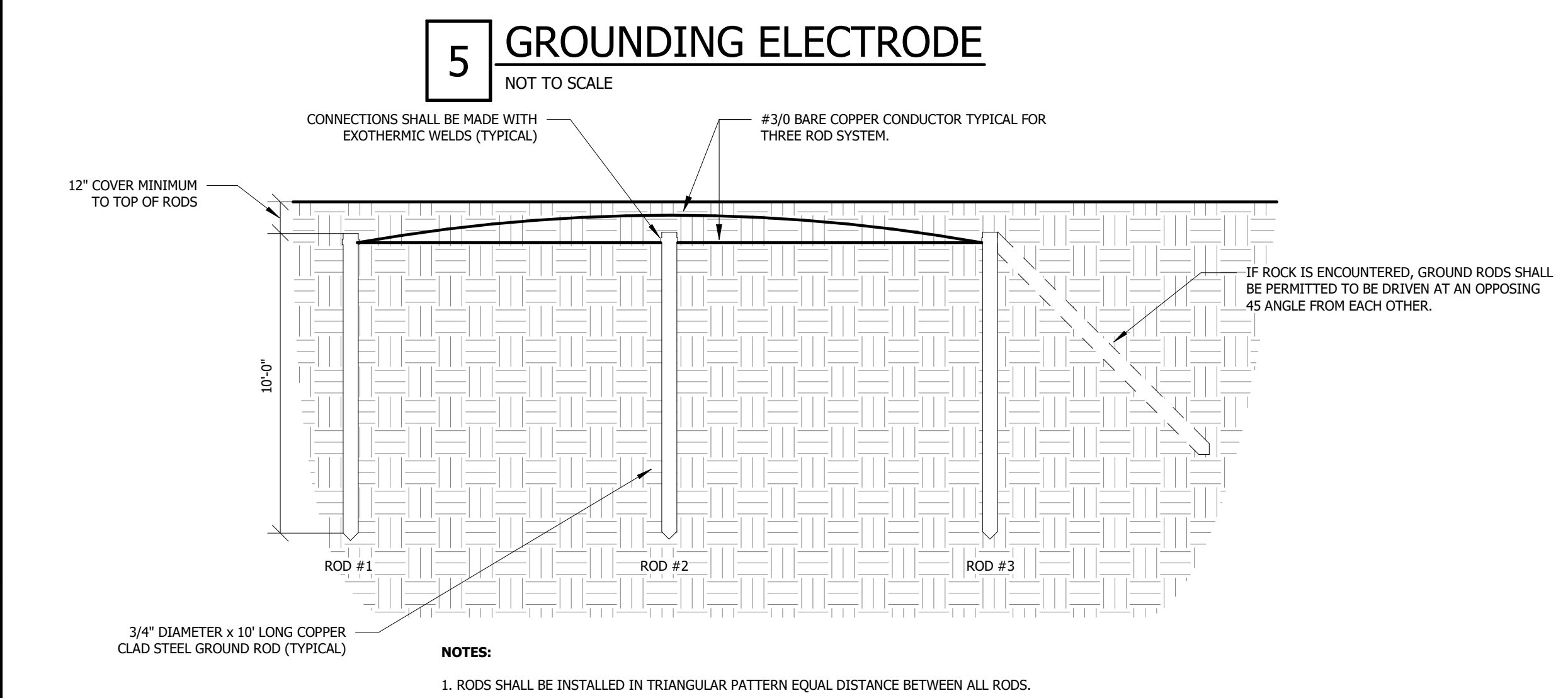
- EXTEND EXISTING TO REMAIN CIRCUITS FROM DEMOLISHED BRANCH PANEL LPO2 LOCATION TO NEW REPLACEMENT PANEL.
- QUANTITIES OF EXISTING CIRCUITS TO REMAIN BEING EXTENDED ARE AS FOLLOWS:
  - A. (16) 1-POLE 20 AMP
  - B. (1) 2-POLE 40 AMP
  - C. (2) 2-POLE 50 AMP
  - D. (1) 2-POLE 15 AMP
  - E. (2) 2-POLE 20 AMP
  - F. (1) 2-POLE 30 AMP
- ELECTRICAL CONTRACTOR SHALL HAVE OPTION TO INSTALL NEW HOMERUN CONDUIT AND CONDUCTORS OR MODIFY EXISTING HOMERUN CONDUIT AND CONDUCTORS OF EXISTING CIRCUITS TO REMAIN.
- FIELD VERIFY EXISTING CONDITIONS OF CIRCUITS TO REMAIN BEING EXTENDED INCLUDING BUT NOT LIMITED TO QUANTITIES, LOCATION, CONDUCTORS SIZE, OVERCURRENT PROTECTIONS, AND LABELING.

**5 GROUNDING ELECTRODE**  
NOT TO SCALE



- NOTES:**
- COORDINATE GROUNDING ELECTRODE CONNECTION TO REBAR WITH FOUNDATION CONTRACTOR. REFER TO STRUCTURAL DRAWINGS FOR ACTUAL FOOTING AND REINFORCING BAR CONFIGURATION.
  - INSTALL GROUNDING ELECTRODE SYSTEM, CONNECTIONS, AND CONDUCTORS IN ACCORDANCE WITH SECTION 250 OF THE NEC.
  - CONNECTIONS SHALL BE MADE WITH EXOTHERMIC WELDS OR IRREVERSIBLE COMPRESSION CONNECTORS.

**4 THREE GROUND ROD ELECTRODE**  
NOT TO SCALE



- NOTES:**
- RODS SHALL BE INSTALLED IN TRIANGULAR PATTERN EQUAL DISTANCE BETWEEN ALL RODS.



MISSOURI STATE CERTIFICATE OF AUTHORITY #E-201600752

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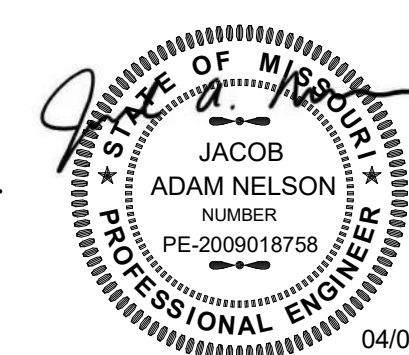
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**REVISIONS**

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**PROJECT TITLE**  
TOWN AND COUNTRY MAINTENANCE ANNEX

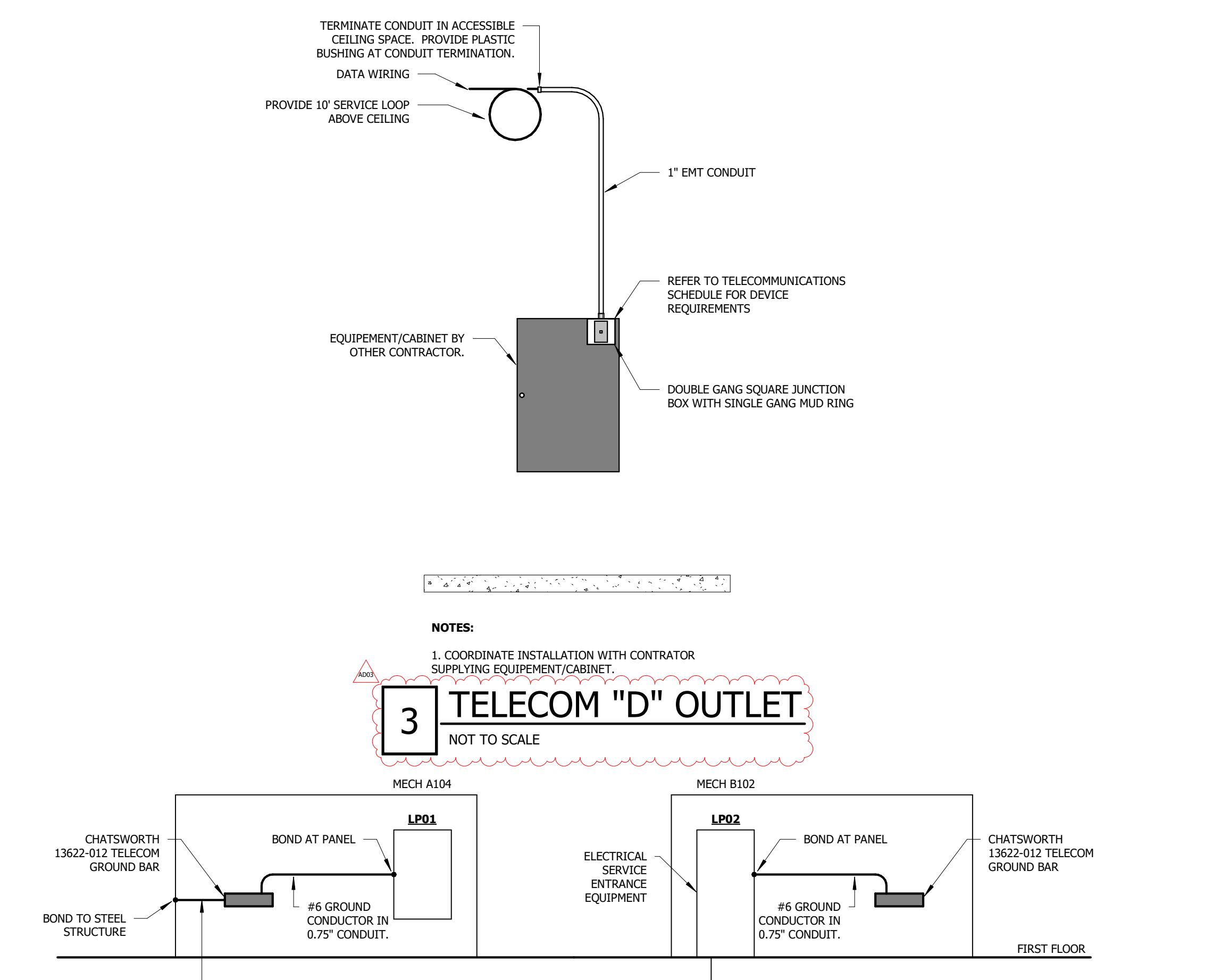
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**TELECOM DETAILS**

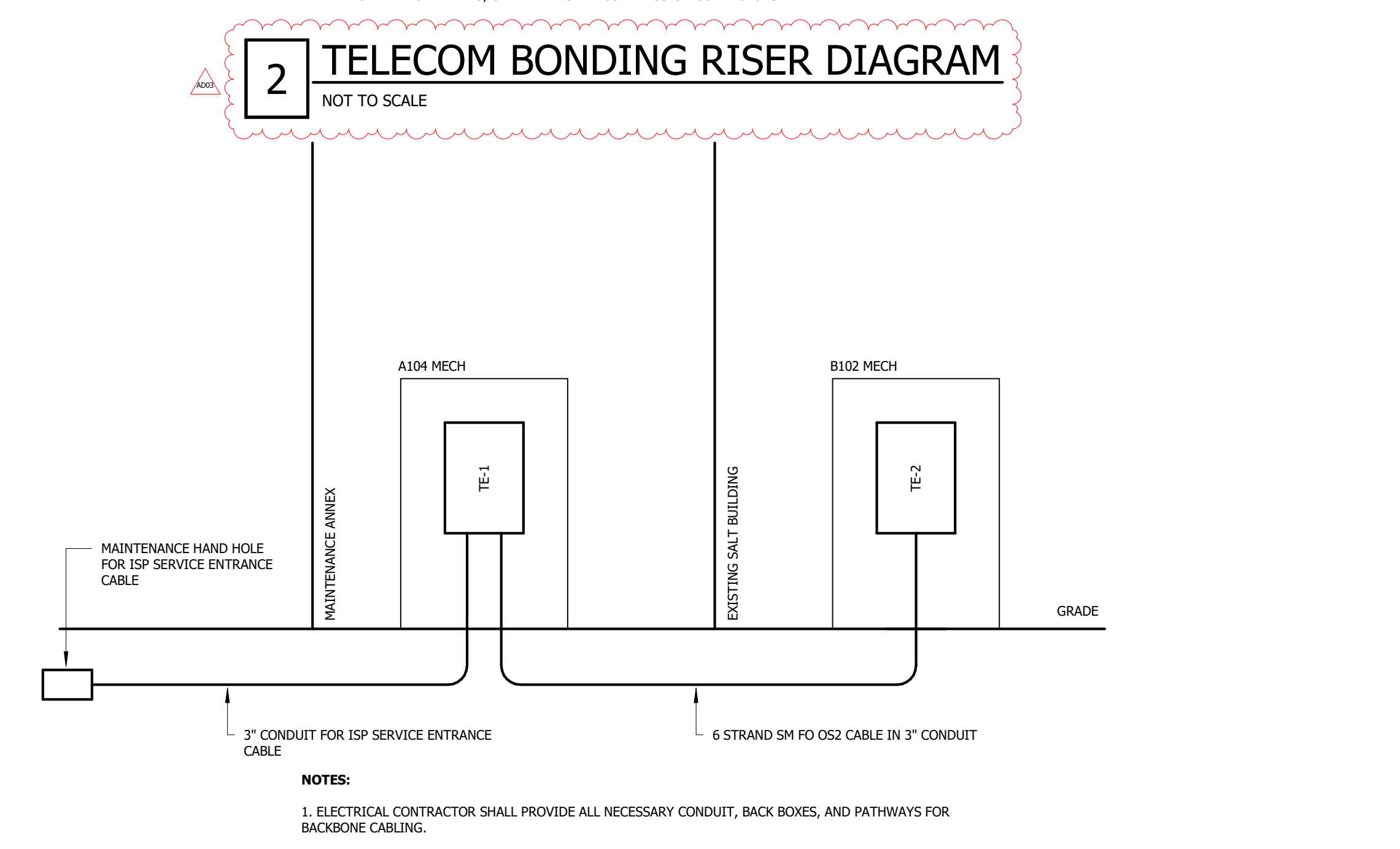


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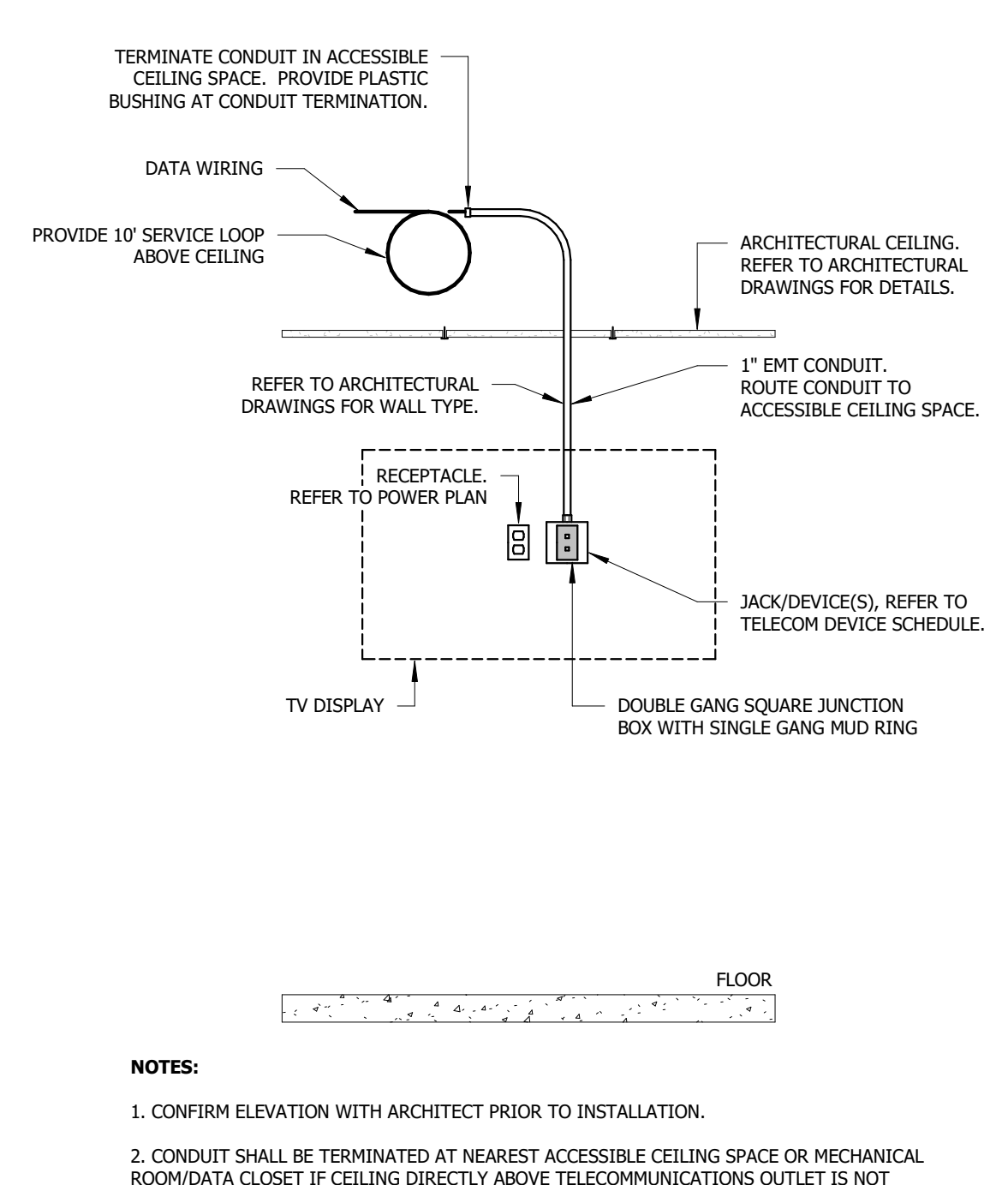
TRUTH SHALL BE THE STANDARD OF CONDUCT FOR ALL ENGINEERS AND ARCHITECTS. ANY VIOLATION OF THIS STANDARD SHALL BE REPORTED TO THE BOARD OF PROFESSIONAL ENGINEERS AND ARCHITECTS. THE BOARD SHALL HAVE THE AUTHORITY TO TAKE ANY ACTION NECESSARY TO ENFORCE THIS STANDARD. THIS STANDARD SHALL BE APPLIED TO ALL ENGINEERS AND ARCHITECTS REGISTERED WITH THE BOARD OF PROFESSIONAL ENGINEERS AND ARCHITECTS. THIS STANDARD SHALL BE APPLIED TO ALL ENGINEERS AND ARCHITECTS REGISTERED WITH THE BOARD OF PROFESSIONAL ENGINEERS AND ARCHITECTS. THIS STANDARD SHALL BE APPLIED TO ALL ENGINEERS AND ARCHITECTS REGISTERED WITH THE BOARD OF PROFESSIONAL ENGINEERS AND ARCHITECTS.



**1 TELECOM BACKBONE RISER**  
NOT TO SCALE

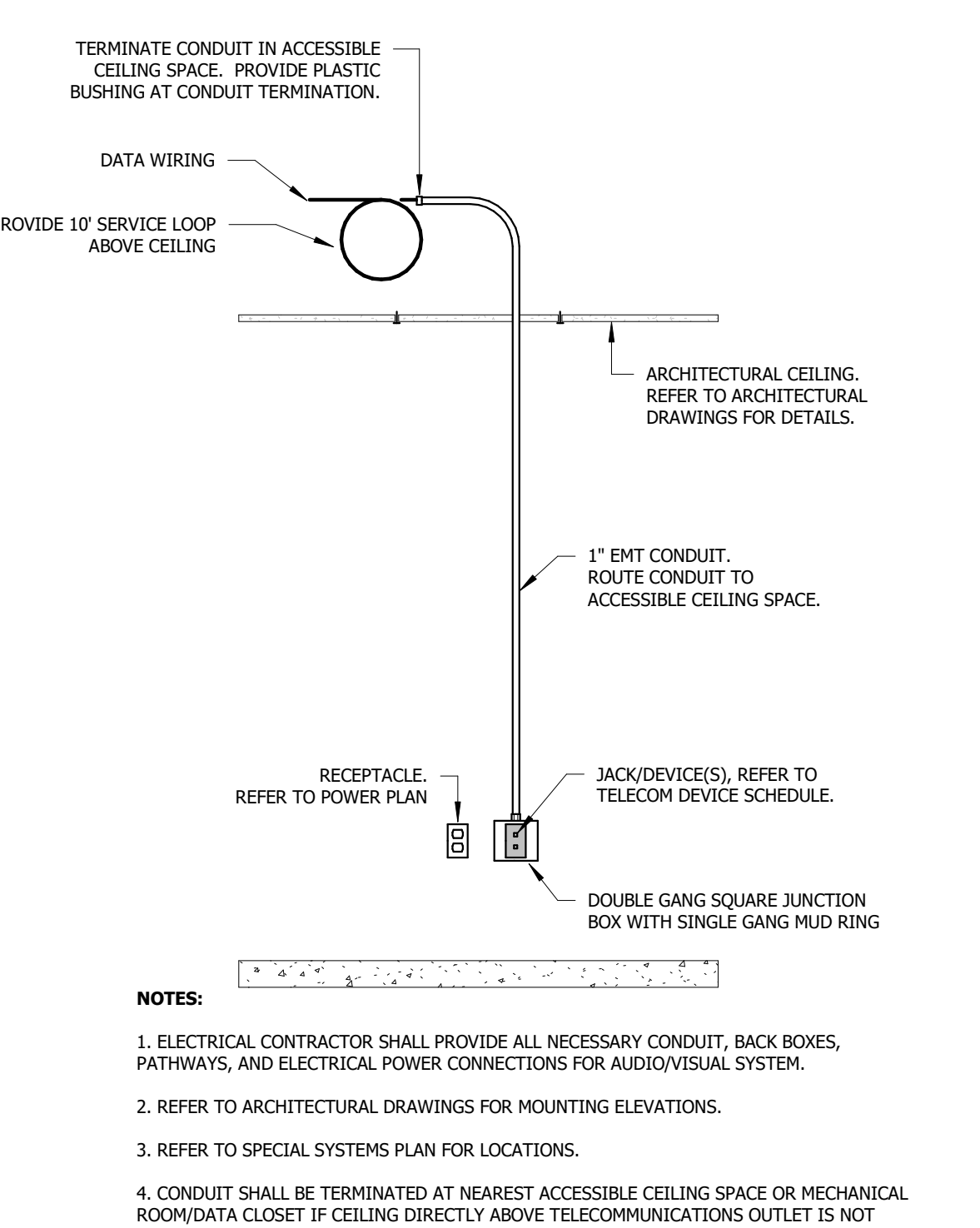


**2 TELECOM BONDING RISER DIAGRAM**  
NOT TO SCALE

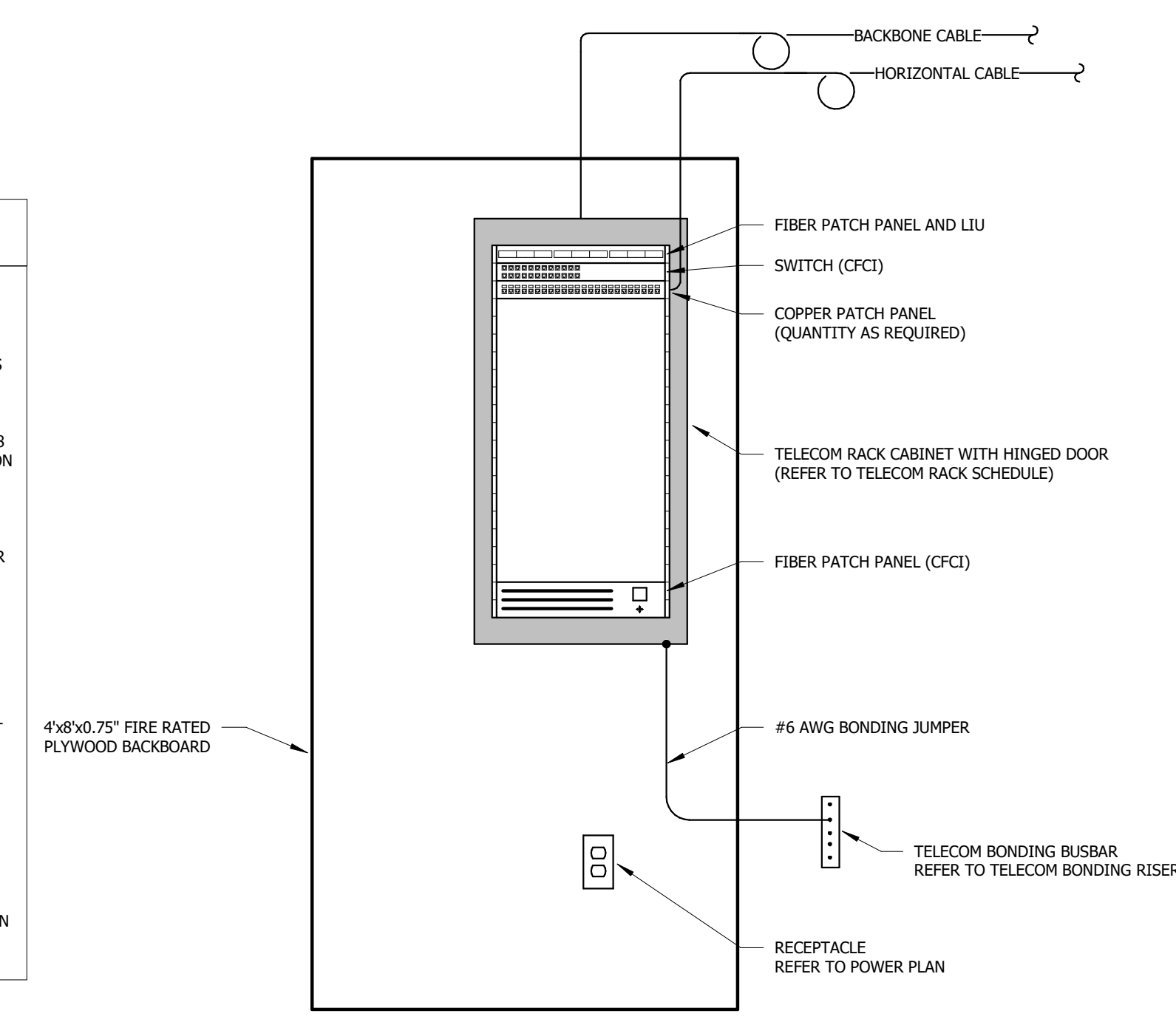


**3 TELECOM "D" OUTLET**  
NOT TO SCALE

**5 TELECOM "TV" WALL OUTLET**  
NOT TO SCALE

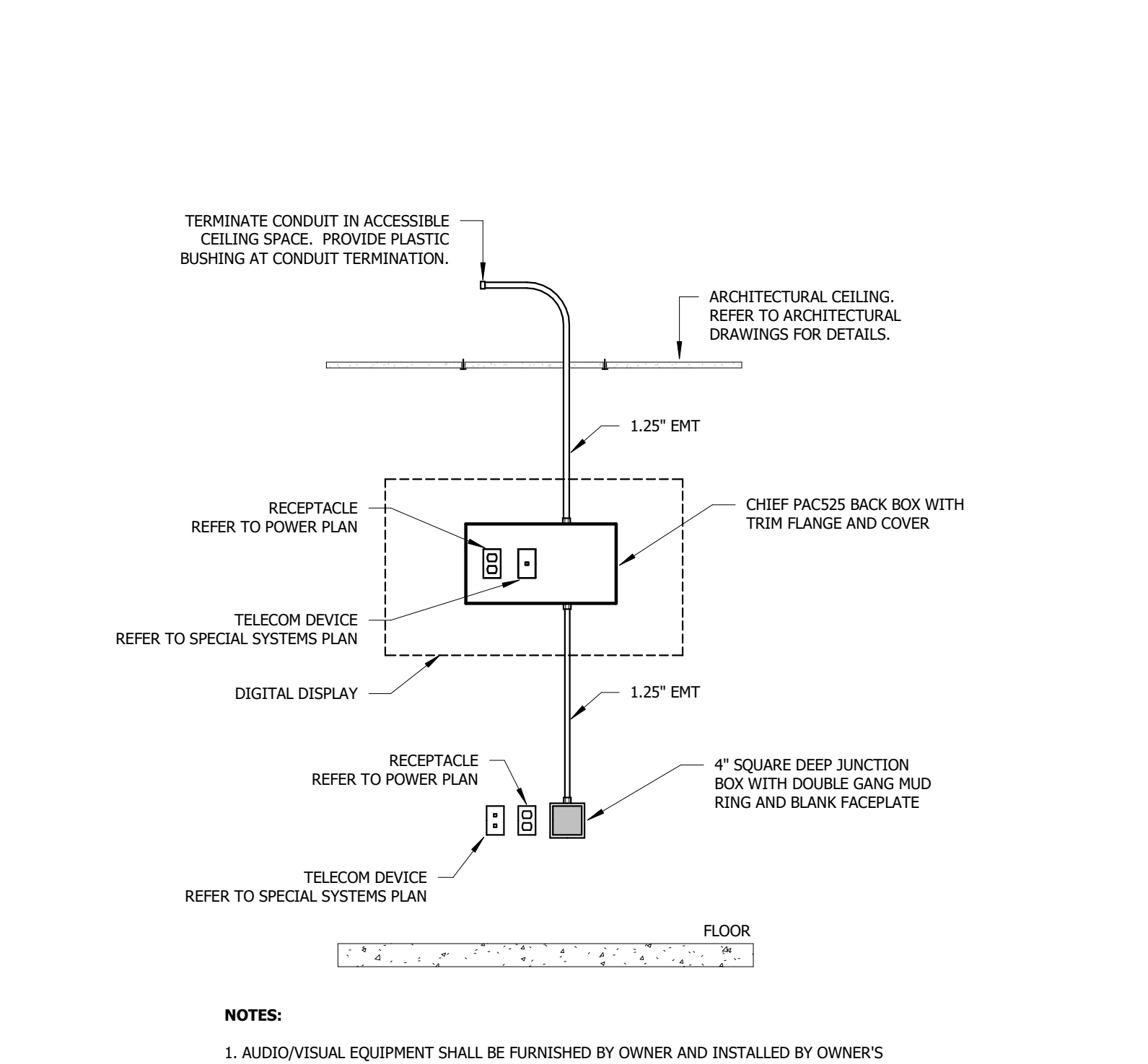


**4 TYPICAL TELECOM OUTLET**  
NOT TO SCALE



**6 DIGITAL DISPLAY W/ LOCAL INPUT**  
NOT TO SCALE

**7 TELECOM RACK (WALL MOUNTED)**  
NOT TO SCALE



**5 TELECOM "TV" WALL OUTLET**  
NOT TO SCALE

**SPECIAL NOTES**

1. THE TELECOM CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN OF TELECOM SYSTEM FULFILLING THE CONSTRUCTION DOCUMENT REQUIREMENTS AND IN FULL COMPLIANCE WITH ALL APPLICABLE STANDARDS AND CODES.
2. TELECOM SYSTEM INSTALLATION SHALL COMPLY WITH LATEST EDITION OF ANSI/TIA-568 AND BICSI TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL (TDMM).
3. FURNISH AND INSTALL SUFFICIENT QUANTITIES OF NECESSARY COMPONENTS INCLUDING BUT NOT LIMITED TO OPTICAL FIBER CONNECTORS, PATCH PANELS, VERTICAL WIRE MANAGEMENT, AND JACK/PORTS AS REQUIRED.
4. REFER TO SPECIAL SYSTEMS PLANS FOR TELECOM OUTLET QUANTITIES AND TELECOM DEVICE SCHEDULE FOR TELECOM OUTLET REQUIREMENTS.
5. LABEL ALL COMPONENTS INCLUDING BUT NOT LIMITED TO CABLES, PORTS, AND TELECOM OUTLETS PER ANSI/TIA-606 OR OWNER'S SPECIFIC LABELING STANDARDS.
6. INSTALL CABLE SUPPORTS FOR ALL TELECOM CABLING AS REQUIRED UNLESS OTHERWISE FURNISH AND INSTALLED BY ELECTRICAL CONTRACTOR.
7. COORDINATE TELECOM SYSTEM INSTALLATION WITH OWNER'S REPRESENTATIVE / TELECOM DEPARTMENT.

**NOTES:**

1. FURNISH AND INSTALL SUFFICIENT QUANTITIES OF NECESSARY COMPONENTS INCLUDING BUT NOT LIMITED TO PATCH PANELS, HORIZONTAL WIRE MANAGEMENT, AND JACK/PORTS AS REQUIRED.
2. FURNISH AND INSTALL NETWORK EQUIPMENT INCLUDING FIREWALL, SWITCHES, WIRELESS ACCESS POINTS, CLOUD LICENSING, PATCH CABLES, AND UNINTERRUPTIBLE POWER SUPPLIES. REFER TO SPECIFICATION SECTION 27 10 00 FOR SPECIFIC REQUIREMENTS.

**NOTES:**

1. CONFIRM ELEVATION WITH ARCHITECT PRIOR TO INSTALLATION.
2. CONDUIT SHALL BE TERMINATED AT NEAREST ACCESSIBLE CEILING SPACE OR MECHANICAL ROOM/DATA CLOSET IF CEILING DIRECTLY ABOVE TELECOMMUNICATIONS OUTLET IS NOT ACCESSIBLE.
3. CEILING SPACE SHALL BE DEEMED ACCESSIBLE IF ARCHITECTURAL CEILING IS REMOVABLE ACOUSTIC TILE OR ATTIC SPACE IS ACCESSIBLE FOR MAINTENANCE PURPOSES.

**NOTES:**

1. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY GROUNDING BUS BARS, CONDUCTORS, AND CONDUIT.
2. ALL CONDUCTORS IN THE TECHNOLOGY BONDING SYSTEM SHALL BE A MINIMUM SIZE OF 3/0 AWG PLENUM RATED COPPER WITH OUTER GREEN INSULATION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL BONDING CONDUCTORS AND BONDING JUMPERS SHALL BE CONNECTED BY COMPRESSION LUGS, EXOTHERMIC WELDING, OR IRREVERSIBLE COMPRESSION CONNECTORS.

**NOTES:**

1. AUDIO/VISUAL EQUIPMENT SHALL BE FURNISHED BY OWNER AND INSTALLED BY OWNER'S SELECTED AV CONTRACTOR (OP01).
2. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT, BACK BOXES, PATHWAYS, AND ELECTRICAL POWER CONNECTIONS FOR AUDIO/VISUAL SYSTEM.
3. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING ELEVATIONS.

**NOTES:**

1. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT, BACK BOXES, AND PATHWAYS FOR BACKBONE CABLING.
2. CONDUIT BELOW SLAB ON GRADE SHALL BE SCHEDULE 40 PVC. CONDUIT ABOVE GRADE SHALL BE EMT.
3. ALL CONDUIT PATHWAYS SHALL HAVE PULL STRING INSTALLED FOR FUTURE CABLE INSTALLATION.
4. TERMINATE FIBER OPTIC CABLING IN LIU WITH PATCH PANEL. FURNISH FIBER OPTIC PATCH CORD WITH SPF COMPATIBLE WITH SWITCH.

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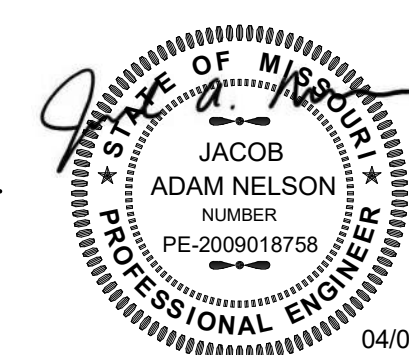
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**PROJECT TITLE**  
 TOWN AND COUNTRY MAINTENANCE ANNEX

PROJECT ADDRESS:  
 849 SALT MILL ROAD  
 TOWN & COUNTRY, MO 63017

**TELECOM DETAILS AND SCHEDULES**

ITEM	FURNISHED	INSTALLED
<b>TELECOM</b>		
HORIZONTAL CABLING (COPPER) & TERMINATIONS	EC	EC
BACKBONE CABLING (FIBER OPTIC) & TERMINATIONS	EC	EC
OUTLETS (JACKS)	EC	EC
EQUIPMENT RACKS & PATCH PANELS	EC	EC
LINE VOLTAGE POWER	EC	EC
PATHWAYS & BACK BOXES	EC	EC
NETWORK EQUIPMENT*	EC	EC
BONDING AND GROUNDING	EC	EC
<b>AUDIO/VISUAL</b>		
EQUIPMENT & DEVICES	OWNER	OWNER
CABLING	OWNER	OWNER
PATHWAYS & BACK BOXES	EC	EC
LINE VOLTAGE POWER	EC	EC
<b>VIDEO SERVEILLANCE (CCTV)</b>		
CAMERAS	OWNER	OWNER
CABLING	EC	EC
PATHWAYS & BACK BOXES	EC	EC
LINE VOLTAGE POWER	EC	EC

- NOTES:**
- GC: GENERAL CONTRACTOR (DELEGATED SUBCONTRACTOR)
  - EC: ELECTRICAL CONTRACTOR
  - MC: MECHANICAL CONTRACTOR
  - BAS: BUILDING AUTOMATION SYSTEM (BAS) CONTRACTOR
- \* NETWORK EQUIPMENT SHALL INCLUDE FIREWALL, SWITCHES, WIRELESS ACCESS POINTS, CLOUD LICENSING, PATCH CABLES, AND UNINTERRUPTIBLE POWER SUPPLIES. REFER TO SPECIFICATION SECTION 27 10 00 FOR SPECIFIC REQUIREMENTS.

TELECOM DEVICE SCHEDULE									
<b>NOTES:</b>									
1.	REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.								
2.	COORDINATE INSTALLATION HEIGHTS WITH OWNER AND ELECTRICAL CONTRACTOR PRIOR TO INSTALLING.								
3.	COORDINATE INSTALLATION LOCATION WITH ARCHITECTURAL ELEVATIONS.								
4.	LOCATIONS ARE INSTALLED IN FLOOR BOX. COORDINATE FACEPLATE AND JACK REQUIREMENTS WITH ELECTRICAL CONTRACTOR.								
5.	FURNISH 3 FOOT PATCH CABLE AT TELECOM RACK. MATCH HORIZONTAL CABLE COLOR.								
6.	FURNISH AND INSTALL WIRELESS ACCESS POINT. REFER TO SPECIFICATION SECTION 27 10 00 FOR SPECIFIC REQUIREMENTS.								
TYPE MARK	DESCRIPTION	FACEPLATE SIZE	QUANTITY	JACK MODEL NUMBER(S)	COLOR	HEIGHT	CONDUIT SIZE	CABLE	NOTES
IS(2)	GENERAL	2 PORT	2	CAT 6A RJ45 (T568A)	BLUE	18" AFF	1"	(2) CAT 6A (BLUE)	1,5
4B(2)	SHOP	2 PORT	2	CAT 6A RJ45 (T568A)	BLUE	48" AFF	1"	(2) CAT 6A (BLUE)	1,5
CM(1)	CAMERA	PLENUM BOX	1	CAT 6A RJ45 (T568A)	PURPLE	-	1"	(1) CAT 6A (PURPLE)	1,2,3,5
D(1)	GENERAL	1 PORT	1	CAT 6A RJ45 (T568A)	BLUE	-	1"	(1) CAT 6A (BLUE)	1,2,5
	TELEVISION	1 PORT	1	CAT 6A RJ45 (T568A)	BLUE	60" AFF	1"	(1) CAT 6A (BLUE)	1,2,3,5
	WAP	WIRELESS ACCESS POINT	1	CAT 6A RJ45 (T568A)	BLUE	CEILING	1"	(1) CAT 6A (BLUE)	1,5,6

TELECOM RACK SCHEDULE				
<b>NOTES:</b>				
1.	REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.			
2.	SWITCH DEPTH TO ACCOMMODATE NETWORK SWITCH.			
TYPE MARK	DESCRIPTION	MOUNTING	RACK UNITS	NOTES
TE-1	CABINET	WALL	21U	1,2
TE-2	CABINET	WALL	12U	1,2



MISSOURI STATE CERTIFICATE OF AUTHORITY #E-2016000752

TRUE ENGINEERING GROUP, LLC IS THE GENERAL CONTRACTOR FOR THE PROJECT. THE DESIGN PROFESSIONAL HAS REVIEWED THE GENERAL CONTRACTOR'S SUBMITTALS AND APPROVED FOR CONSTRUCTION. THE DESIGN PROFESSIONAL HAS REVIEWED THE GENERAL CONTRACTOR'S SUBMITTALS AND APPROVED FOR CONSTRUCTION. THE DESIGN PROFESSIONAL HAS REVIEWED THE GENERAL CONTRACTOR'S SUBMITTALS AND APPROVED FOR CONSTRUCTION. THE DESIGN PROFESSIONAL HAS REVIEWED THE GENERAL CONTRACTOR'S SUBMITTALS AND APPROVED FOR CONSTRUCTION.

THE PERSONAL SEAL OF THE REGISTERED PROFESSIONAL ENGINEER SHALL BE THE ONLY EVIDENCE OF HIS LICENSE. SIGNATURE AND EXPIRATION DATE SHALL BE LOCATED ON THE DRAWING. THE DESIGN PROFESSIONAL HAS REVIEWED THE GENERAL CONTRACTOR'S SUBMITTALS AND APPROVED FOR CONSTRUCTION. THE DESIGN PROFESSIONAL HAS REVIEWED THE GENERAL CONTRACTOR'S SUBMITTALS AND APPROVED FOR CONSTRUCTION.

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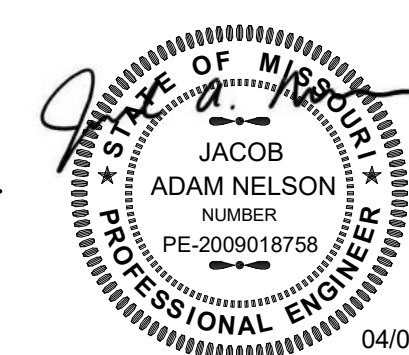
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**ELECTRICAL SCHEDULES**

**PHOTOCELL SCHEDULE**

TYPE MARK	MANUFACTURER	MODEL NUMBER	EQUIPMENT SERVED	WATTAGE	VOLTAGE	MOUNTING	ENCLOSURE NEMA TYPE	NOTES	EQUIVALENTS
PC01	INTERMATIC	K4141C	EXTERIOR LIGHTS	3000	120	J-BOX	NEMA 3R	-	TORK

**LIGHTING CONTACTOR SCHEDULE**

TYPE MARK	MANUFACTURER	EQUIPMENT SERVED	VOLTAGE	TYPE	AMP	POLE	ENCLOSURE NEMA TYPE	CONTROLLED BY	NOTES	EQUIVALENTS
LC01	SQUARE D	EXTERIOR LIGHTS	120	NOEH	30	4	NEMA 1	PHOTOCELL	3,4,5	EATON

**GENERATOR SCHEDULE**

TYPE MARK	MANUFACTURER	MODEL NUMBER	POWER RATING (KW/KVA)	ALTERNATOR VOLTAGE	AMPS	FUEL TYPE	NOTES	EQUIVALENTS
GEN	CUMMINS	C1500D6	150/188	208	800	DIESEL	1,2,3,4,5,6	CAT

**OCCUPANCY SENSOR SCHEDULE**

TYPE MARK	LOAD VOLTAGE	MANUFACTURER	MODEL NUMBER	VOLTAGE	TYPE	TIME DELAY	MOUNTING	NOTES	EQUIVALENTS
OS01	120	WATTSTOPPER	DT-300	24	DIAL TECHNOLOGY	15 MIN	CEILING	1,2,4	SENSOR SWITCH

**DISCONNECT SCHEDULE**

TYPE MARK	MANUFACTURER	EQUIPMENT SERVED	VOLTAGE	DUTY	AMPS	POLES	OVERCURRENT (OC) PROTECTION			ENCLOSURE NEMA TYPE	NOTES	EQUIVALENTS
							OC TYPE	OC MANUFACTURER	OC MODEL NUMBER			
DS-AC	SQUARE D	AIR COMPRESSOR	208	GD	60	3	-	-	-	NEMA 1	1,5	EATON
DS-ELH02	SQUARE D	EUH02	208	GD	60	2	-	-	-	NEMA 4X	1,5	EATON
DS-HP1	SQUARE D	HP1	208	GD	30	2	-	-	-	NEMA 3R	1,5	EATON
DS-HP2	SQUARE D	HP2	208	GD	60	2	-	-	-	NEMA 3R	1,5	EATON
DS-MS1	SQUARE D	MS1	208	GD	30	2	-	-	-	NEMA 3R	1,5	EATON
DS-OVHDA	SQUARE D	OVERHEAD DOOR	208	GD	30	2	-	-	-	NEMA 4X	1,5	EATON
DS-OVHDB	SQUARE D	OVERHEAD DOOR	208	GD	30	2	-	-	-	NEMA 1	1,5	EATON
DS-PW	SQUARE D	PRESSURE WASHER	208	GD	200	3	-	-	-	NEMA 3R	1,5	EATON
DS-WH2	SQUARE D	WH2	208	GD	30	2	-	-	-	NEMA 1	1,5	EATON

**AUTOMATIC TRANSFER SWITCH SCHEDULE**

TYPE MARK	MANUFACTURER	MODEL NUMBER	AMPS	VOLTAGE	POLES	WIRES	TRANSITION TYPE	NEUTRAL CONFIGURATION	ENCLOSURE NEMA TYPE	NOTES	EQUIVALENTS
ATS	ASCO	H-QATS-A-3-0800-C-GX-N	800	208	3	4	OPEN	SOLID	NEMA 4	1,2,3,4,5	CUMMINS

**LIGHTING FIXTURE SCHEDULE**

TYPE MARK	MANUFACTURER	MODEL NUMBER	DRIVER	FINISH	VOLTAGE	LAMP TYPE	LUMENS	COLOR TEMP	TOTAL WATTAGE	NOTES	EQUIVALENTS
CD1	LIGHTOLIER	M6RDL20P940WHZ10LAT/GRNSR	DM	WHITE	UNV	LED	2000	4000K	21	1	LITHONIA
HB01	DAYBRITE	HC10R23L8CST-UN3-DIM-WH	DM	WHITE	UNV	LED	14000	4000K	150	1,6	LITHONIA
HB01E	DAYBRITE	HCY0R23L8CST-UN3-DIM-WH-HPB-EM-DMV-40W-WH	DM	WHITE	UNV	LED	14000	4000K	150	1,2,6	LITHONIA
ST01	DAYBRITE	SDS4-2550L-CST-UN3-DIM-FKR-126	DM	WHITE	UNV	LED	5000	4000K	36	1,7,8	LITHONIA
ST02	DAYBRITE	SDS8-4998L-CST-UN3-DIM	DM	WHITE	UNV	LED	9800	4000K	72	1,7	LITHONIA
ST02E	DAYBRITE	SDS8-4998L-CST-UN3-DIM-FPEMLED10RM	DM	WHITE	UNV	LED	9800	4000K	72	1,2,7	LITHONIA
ST03	DAYBRITE	DWAE70L840-8-UNV-TBK-FKR-126	DM	WHITE	UNV	LED	14000	4000K	130	1,8	LITHONIA
ST04	DAYBRITE	DWAE70L840-8-UNV-V3WBKADJ	DM	WHITE	UNV	LED	14000	4000K	130	1,9	LITHONIA
ST04E	DAYBRITE	DWAE70L840-8-UNV-EMLED-V3WBKADJ	DM	WHITE	UNV	LED	14000	4000K	130	1,2,9	LITHONIA
T01	DAYBRITE	25BP3050L8CS-4-UNV-DIM	DM	WHITE	UNV	LED	5500	4000K	52	1,6	LITHONIA
T01E	DAYBRITE	25BP3050L8CS-4-UNV-DIM-FPEMLED10RM	DM	WHITE	UNV	LED	5500	4000K	52	1,2,6	LITHONIA
T02	DAYBRITE	25BP3050L8CS-4-UNV-DIM	DM	WHITE	UNV	LED	5500	4000K	52	1,5	LITHONIA
WP01	GARDCO	GCM-403-740-T3M-UNV-MG	-	MEDIUM GRAY	UNV	LED	4000	4000K	25	1,3,4	LITHONIA
WP01E	GARDCO	GCM-403-740-T3M-UNV-EC-MG	-	MEDIUM GRAY	UNV	LED	4000	4000K	25	1,2,3,4	LITHONIA
X01	SIGNTEX	BLD-BB-U-R-W	-	WHITE	UNV	LED	-	-	-	1,2,3	LITHONIA
X02	CHLORIDE	CWENRWU-1	-	WHITE	UNV	LED	-	-	-	1,2,3	LITHONIA

**LOW VOLTAGE LIGHTING CONTROL DEVICE SCHEDULE**

TYPE MARK	DEVICE TYPE	MANUFACTURER	MODEL NUMBER	NOTES
LVS0	OCCUPANCY SENSOR	WATTSTOPPER	LMDC-100	1,2
LVS0	DIMMER SWITCH	WATTSTOPPER	LMSW-211	1,2,3

**Distribution Panel: MDP**

Location: EXTERIOR MAINT. ANNEX  
Supply From: UTILITY TRANSFORMER  
Mounting: SURFACE  
Enclosure: NEMA 3R

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating: 22 KAIC  
Mains Type: 800A MLO  
Mains Rating: 800A

CKT	CIRCUIT DESCRIPTION	TRIP	ACCESSORIES	POLES	A	B	C	NOTES	
1	LP01	400 A		3	11449 VA	16258 VA	16574 VA		
2	LP02	225 A		3	24560 VA	27202 VA	22370 VA		
3	Pressure Washer	150 A		3	7133 VA	7133 VA	7133 VA		
4	Compressor	40 A		3	2005 VA	2005 VA	2005 VA		
5	EUH02	50 A		3	5000 VA	5000 VA	5000 VA		
6	Heat Pump 1	15 A		2	1248 VA	1248 VA	1248 VA		
7	Heat Pump 2	60 A		2	2912 VA	2912 VA	2912 VA		
8									
9									
10									
11									
12									
13									
14									
15									
					<b>Total Load:</b>	53054 VA	61758 VA	54319 VA	
					<b>Total Amps:</b>	442 A	516 A	454 A	

**Legend:**  
1. HACR = HACR RATED, 2. HLD = HAND LOCK-OFF, 3. GFCI = GROUND FAULT CIRCUIT INTERRUPTER, 4. EXISTING = EXISTING TO MAINTAIN

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	37524 VA	100.00%	37524 VA	
Lighting	5903 VA	100.00%	5903 VA	
Motor	34735 VA	115.40%	40085 VA	<b>Total Conn. Load:</b> 169129 VA
Other	0 VA	0.00%	0 VA	<b>Total Conn.:</b> 469 A
Power	69622 VA	100.00%	69622 VA	<b>Total Est. Demand:</b> 468 A
Receptacle	21425 VA	73.34%	15712 VA	

**Notes:**



MISSOURI STATE CERTIFICATE OF AUTHORITY #E-2016000752

DESIGN, SPECIFY, AND/OR CONSTRUCT THE WORK SHOWN ON THIS SHEET AND THE SPECIFICATIONS PERTAINING TO THIS SHEET. RESPONSIBILITY SHALL BE ASSUMED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES.