



## **Addendum No. 1**

To: **All Contractors**  
Date: May 10, 2022  
Re: **Lincoln County Ambulance District**  
Base Station 2  
28 Walter Court  
Moscow Mills, Missouri 63362

The following Drawing and/or Project Manual Specification clarifications, additions or alterations modify and supersede previously issued documents in reference to the above project. Acknowledge receipt of this Addendum on your Bid Form.

**IMPORTANT: This addendum and all bidding construction documents represent a comprehensive scope of work. It is each contractor's responsibility to reference all drawings, specifications and addendums to verify their respective scope of work.**

### **CLARIFICATIONS & SPECIFICATIONS:**

1. The bid due date remains as **Wednesday, May 18, 2022 no later than 2:00pm.**
2. Last day for submitting RFI's is Friday, May 13, 2022 no later than 12:00pm.
3. Contractor to include and secure Builder's Risk Insurance.
4. Sprinkler Contractor to provide signed/sealed drawings to the city of Moscow Mills and to Lincoln County Fire Prevention District. LCAD will pay for the permit fees.
5. LCAD will pay for any special inspections required by the city of Moscow Mills, Missouri.
6. Contractor to provide a one-year warranty for all workmanship on the project and provide warranties per manufacturer products.
7. Invitation to Bids Section, Page 5, XX. Skilled Workers, Deleted Items a., b. and c. We deleted the requirements for collective bargaining agreements for bidders and/or subcontractors.

### **DRAWINGS:**

1. Sheet A2.4, Finish Plan & Room Schedule – No revised drawing issued.
  - a. Revised SS-1, Solid Surface Description to read "Kitchen" in lieu of Transaction Countertop.
  - b. Added Tnemec Epoxy System as an approved equivalent product for the RES-1 Alternate Flooring for the Apparatus Bay Room.
2. Sheet A3.1 and A3.2, Exterior Elevations – No revised drawing issued.
  - a. Exterior Materials and Finish Specifications – Added Castle Stone as an equivalent product for the Stone Veneer System. Castle Stone, Mountain Ledge, Canyon Grey. Contact: Castle Stone Products, Tom O'Neal. Ph: 314-997-1600 [Tom@CastleStoneProducts.com](mailto:Tom@CastleStoneProducts.com).

3. Sheet A3.3, Building Sections – No revised drawing issued.
  - a. Revise Keyed Note 4. Revised painted wood window trim to “Stained” wood window trim, sill and apron.
4. Sheet A4.1, Wall Sections – No revised drawing issued.
  - a. Wall Sections 1 and 3, revised solid surface window stool and trim to “Wood window, trim, sills and apron”, stained.
5. Sheet A4.2, Wall Sections – No revised drawing issued.
  - a. Wall Sections 1 and 2. Added Porcelain Wall Tile on the inside of the Apparatus Bay wall to 8'-1" including a bullnose cap. Also refer to sheet A5.3.
6. Sheet A5.1, Interior Elevations
  - a. Revised all Toilet Room Elevations with Porcelain Tile walls from 3'-4" a.f.f. to 4'-0" a.f.f. height.
  - b. All Kitchen cabinets and Bathroom vanities to be manufactured by Merillat. Disregard notes stating plastic laminate.
  - c. The Laundry Room cabinets and countertop are plastic laminate and are identified as PL-1 and PL-2 on the Interior Materials, Finishes & Color Sections Schedule on Sheet A2.4.
7. Sheet A6.1, Door & Window Types & Schedule – No revised drawing issued.
  - a. Door Schedule, Revised Door 118 to be 45-Minute Fire Rated.
  - b. General Door & Window Notes, Note 9. Wood window trim, sills and apron to be stained.
8. Sheet M1.0, Mechanical Schedules – Revised drawing issued.
  - a. Updated the DLSS HP-Fan coil unit schedule.
  - b. Revised the Air Hood Schedule.
9. Sheet M2.1, Mechanical Plan – Revised drawing issued.
  - a. Added sensor to Room 104
  - b. Added thermostat to Room 117
10. Sheet P101, Water and Gas Plan – Revised drawing issued.
  - a. Revised domestic water lines to below grade.
  - b. Added Domestic Water Manifold Detail.
11. Sheet P300, Plumbing Isometrics – Revised drawing issued.
  - a. Domestic Water Isometric Plan - Revised domestic water lines to below grade.
12. Sheet E1.0, Power One-Line and Panel Schedules – Revised drawing issued.
  - a. Revised the Panels to accommodate the voltage change of the split system unit.
13. Sheet E3.0, Electrical Power Plan – Revised drawing issued.
  - a. Revised the split system Keyed Note 12 and home run to match unit.
  - b. Revised the homerun for the bay heater to make room for the split system change in the panel schedule.

**End of Addendum No. 1**

**XV. SALES TAXES**

1. The Owner intends to use the tax exempt purchase procedure authorized by Section 144.062, Missouri Revised Statutes. The procedure includes, among other requirements, the issuance of project exemption certificates to all contractors and subcontractors, who use those certificates to effect tax exempt purchases. As a result of this procedure described above, Bidders are instructed that they are not required to, and should not, include Missouri state sales taxes in their bids.

**XVI. PRECONSTRUCTION CONFERENCE**

1. After the award of the contract, a Preconstruction Conference shall be scheduled and conducted by the Architect to review the requirements of the Project. The Contractor shall be required to attend this Conference.

**XVII. OTHER CONSTRUCTION PHASES**

1. Contracts for other work at the Project Site may be awarded to other Contractors and/or undertaken by personnel employed by the Owner. The Contractor shall be required to coordinate its work harmoniously with the other Contractors or Owner personnel.

**XVIII. ESCALATOR CLAUSE**

1. Bidders are hereby informed that the Owner can accept firm bids only. Proposals submitted containing an escalator clause will be considered irregular and void.

**XX. SKILLED WORKERS**

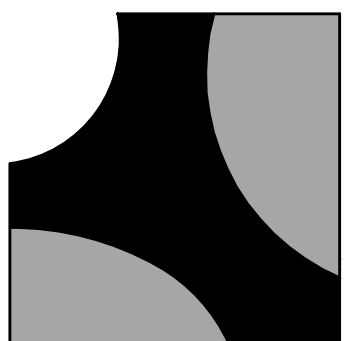
1. The Owner seeks to ensure a ready and adequate supply of highly trained and skilled craft persons to perform work on this Project. The Owner further seeks to ensure the establishment of working conditions for the Project, the provision of negotiated commitments between employers and employees that are legally enforceable and the assurance of labor stability and labor peace over the life of the Project. The Owner further desires to avoid expensive and time-consuming work disruptions, jurisdictional disputes, and interference with work, picket lines, and strikes. The goal of the Owner is workplace harmony with prompt, timely and economical completion of this Project. It is further a preference of the Owner that all bidders and subcontractors use workers on this Project that have completed an apprenticeship program approved by the U.S. Department of Labor.

Deleted

- a.
- b.
- c.

END OF SECTION





**BAALMAN ARCHITECTS**

#2 Daniel Drive  
O'Fallon, MO 63366  
ph: 314.640.6212

Michael J. Baalman  
ARCHITECT  
License#: A-2012004035  
Certificate of Authority:  
2014003655

CIVIL ENGINEER  
BAX ENGINEERING CO., INC.  
221 Point West Blvd.  
St. Charles, Missouri 63301  
Phone: 636-928-6562  
Contact: Mark Struckhoff, P.E.  
mstruckhoff@baxengineering.com

STRUCTURAL, MECHANICAL,  
PLUMBING & ELECTRICAL  
CASE ENGINEERING, INC.  
796 Merus Court  
St. Louis, Missouri 63026

Structural Contact:  
Ardie Mansouri, P.E.  
Phone: 636-349-1600 ext 291  
amansour@caseengineeringinc.com

Mechanical, Plumbing, Electrical  
Contact: Jim Eyre, P.E.  
jeyre@caseengineeringinc.com  
Phone: 636-349-1600 ext 258

New Base Station #2 Facility for:  
**Lincoln County  
Ambulance District**  
28 Walter Court  
Moscow Mills, Missouri 63362

DATE	ISSUE
4-15-2022	BID & PERMIT SET
5-5-2022	ADDENDUM 1

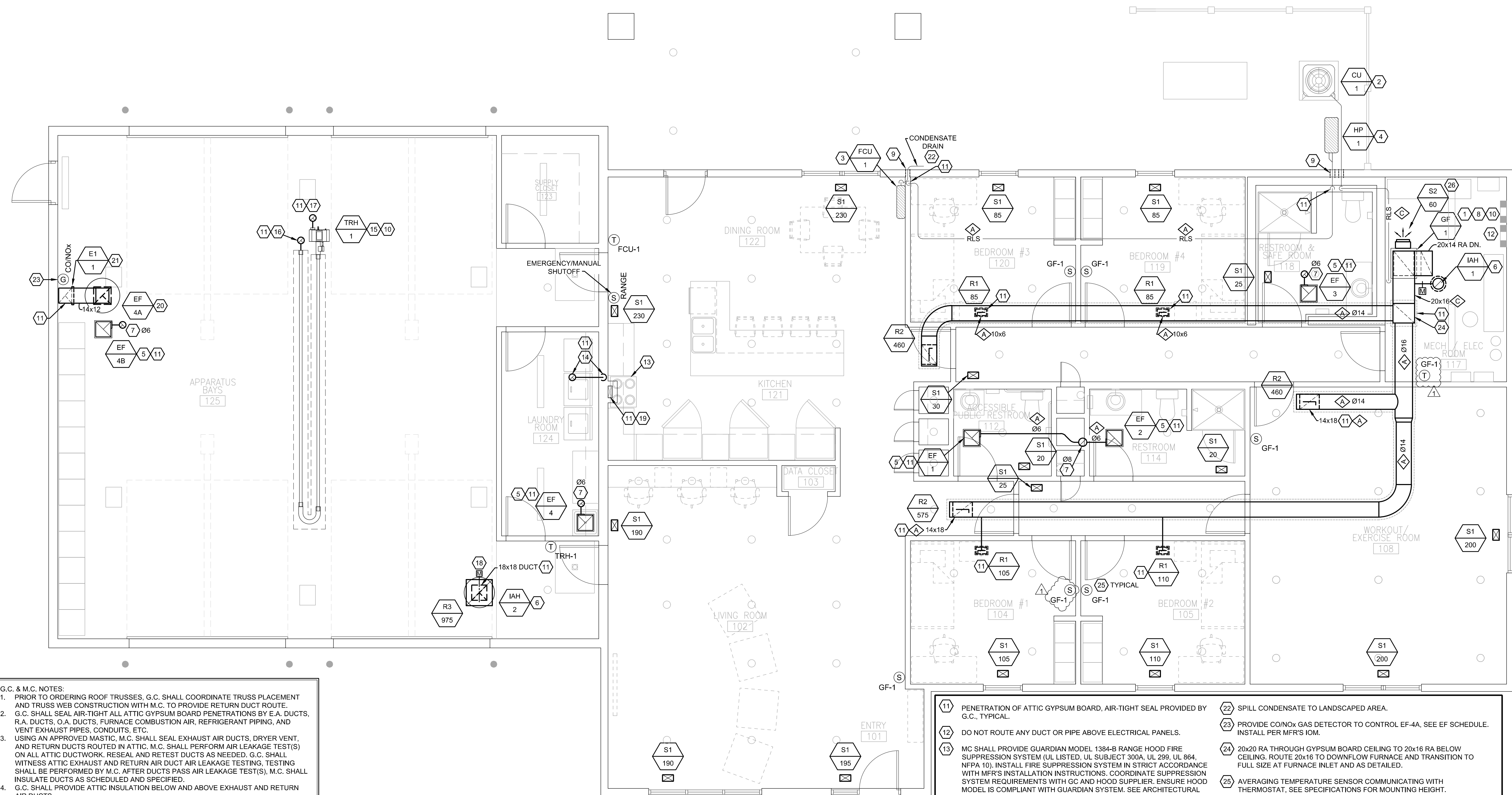


Darrell R Case  
ENGINEER  
MO# E-23303

PROJECT MANAGER: JE  
DRAWN BY: CK

PROJECT NUMBER  
21-079  
DATE  
April 15, 2022

SHEET  
**M2.1**  
MECHANICAL PLAN

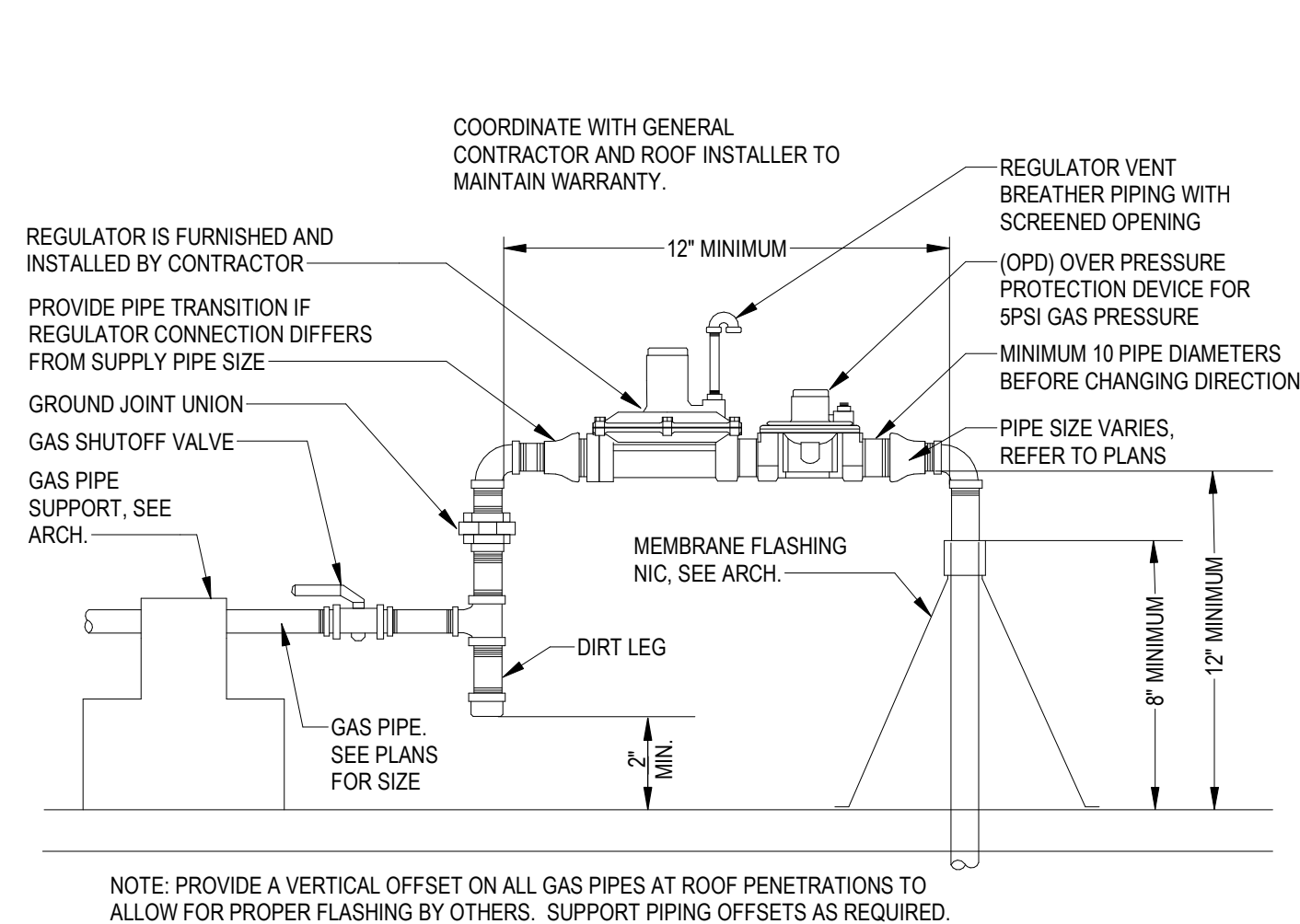


- G.C. & M.C. NOTES:**
1. PRIOR TO ORDERING ROOF TRUSSES, G.C. SHALL COORDINATE TRUSS PLACEMENT AND TRUSS WEB CONSTRUCTION WITH M.C. TO PROVIDE RETURN DUCT ROUTE.
  2. G.C. SHALL SEAL AIR-TIGHT ALL ATTIC GYPSUM BOARD PENETRATIONS BY E.A. DUCTS, R.A. DUCTS, O.A. DUCTS, FURNACE COMBUSTION AIR, REFRIGERANT PIPING, AND VENT EXHAUST PIPES, CONDUITS, ETC.
  3. USING AN APPROVED MASTIC, M.C. SHALL SEAL EXHAUST AIR DUCTS, DRYER VENT, AND RETURN DUCTS ROUTED IN ATTIC. M.C. SHALL PERFORM AIR LEAKAGE TEST(S) ON ALL ATTIC DUCTWORK, RESEAL AND RETEST DUCTS AS NEEDED. G.C. SHALL WITNESS ATTIC EXHAUST AND RETURN AIR DUCT AIR LEAKAGE TESTING. TESTING SHALL BE PERFORMED BY M.C. AFTER DUCTS PASS AIR LEAKAGE TEST(S). M.C. SHALL INSULATE DUCTS AS SCHEDULED AND SPECIFIED.
  4. G.C. SHALL PROVIDE ATTIC INSULATION BELOW AND ABOVE EXHAUST AND RETURN AIR DUCTS.

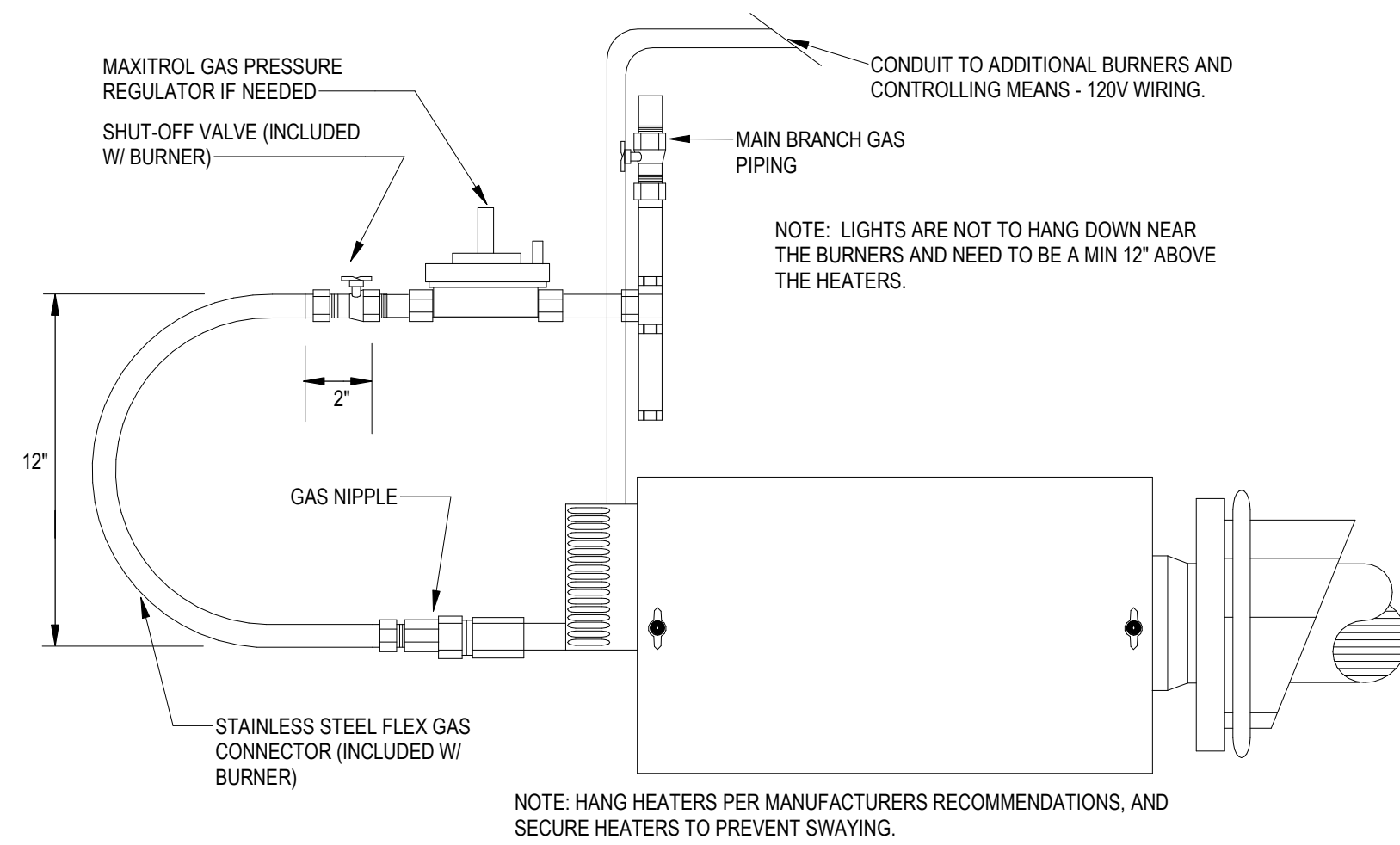
- TYPICAL ATTIC DUCT NOTES:**
- ALL DUCT INSTALLED IN ATTIC SHALL BE GALVANIZED SHEET METAL, FLEX DUCT IS NOT ACCEPTABLE.
  - SEAL ALL DUCT JOINTS AND SEAMS WITH AN APPROVED DUCT SEALANT.
  - AFTER ATTIC DUCT ROUGH IN, TEMPORARILY CAP OPENINGS AND LEAK TEST DUCT. LEAKAGE MAY NOT EXCEED 5%. G.C. MUST WITNESS TESTING.
  - AFTER SUCCESSFUL LEAKAGE TEST, INSULATE ATTIC RETURN AIR DUCT TO MINIMUM R-12.8.
  - G.C. SHALL SEAL EACH ANNULAR SPACE OF ALL PENETRATIONS THROUGH GYPSUM BOARD CEILING AIR-TIGHT.

**1 MECHANICAL PLAN**  
SCALE: 1/4" = 1'-0"

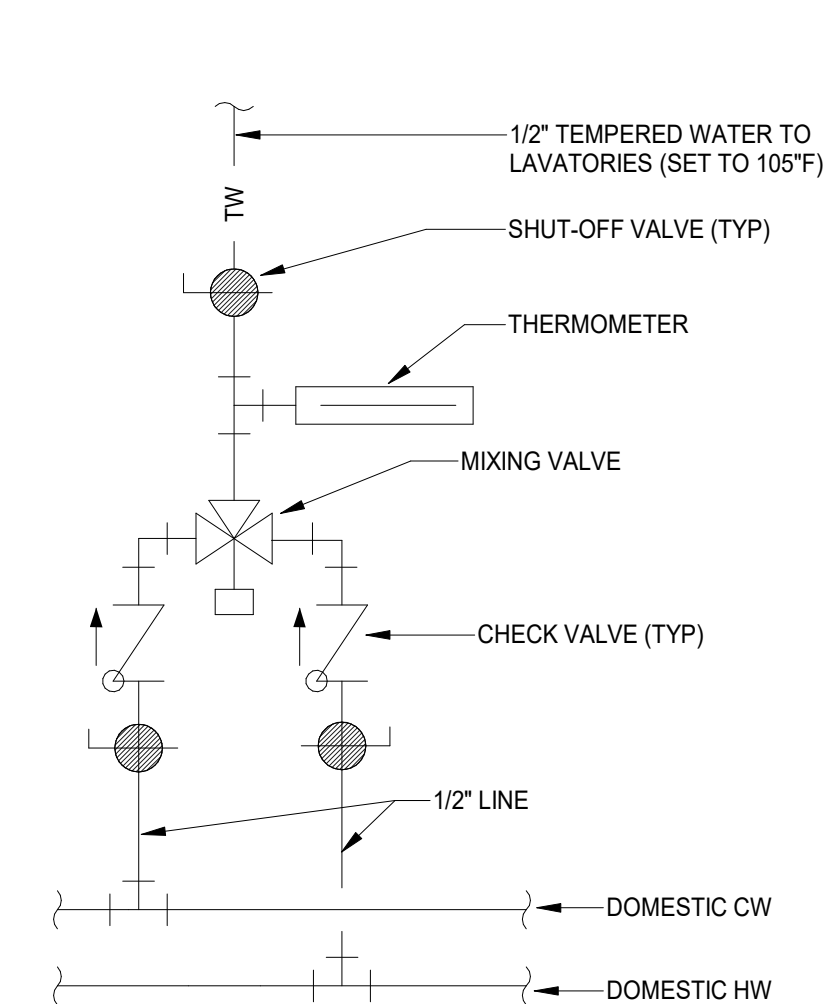
- KEYED NOTES**
- 1 PROVIDE DOWN DISCHARGE NATURAL GAS FURNACE WITH DX COOLING EVAPORATOR COIL, AS SCHEDULED. SET UNIT DEAD LEVEL ON VIBRATION ISOLATION PADS. INSTALL PER MFR'S I.O.M. TRANSITION FROM FULL SIZE S.A. AND R.A. DUCTS AT UNIT TO DUCT SIZES SHOWN, WITH FLEXIBLE CONNECTIONS AT UNIT. PROVIDE FULL SIZE CONDENSATE DRAINS FROM UNIT AND TERMINATE VIA INDIRECT CONNECTION TO FLOOR DRAIN. EXTEND AND CONNECT RUS PIPING TO CU.
  - 2 PROVIDE AIR COOLED CONDENSING UNIT. SET UNIT DEAD LEVEL ON CONCRETE PAD, PAD BY G.C. INSTALL UNIT PER MFR'S I.O.M. INCLUDING REQUIRED CLEARANCES. INSTALL, SIZE, AND INSULATE REFRIGERANT PIPING PER EQUIPMENT MFR'S I.O.M. INSULATION THICKNESS PER 2015 IECC. COVER INSULATION ON BUILDING EXTERIOR WITH 30 MIL PVC JACKET. COORDINATE UNIT LOCATION WITH WINDOWS, MAXIMIZE CLEARANCE FROM WINDOWS.
  - 3 PROVIDE WALL MOUNTED FCU AS SCHEDULED. MOUNT UNIT DEAD LEVEL FROM FACTORY BRACKET. INSTALL PER MFR'S I.O.M. AND WITH FACTORY CONDENSATE PUMP. CONCEAL ALL PIPING. PROVIDE WIRELESS PROGRAMMABLE THERMOSTAT CONTROL. INSTALL, INSULATE, AND SIZE REFRIGERANT PIPING PER EQUIPMENT MFR'S I.O.M. PROVIDE FULL DIAMETER CONDENSATE DRAIN PIPE INSULATED PER SCHEDULE, EXTEND AND TERMINATE VIA INDIRECT CONNECTION TO LANDSCAPED AREA.
  - 4 PROVIDE AIR SOURCE HEAT PUMP AS SCHEDULED. SHIM UNIT TO SET DEAD LEVEL ON CONCRETE PAD. ANCHOR TO PAD WITH CONCRETE SCREWS. INSTALL UNIT PER MFR'S I.O.M. INCLUDING REQUIRED CLEARANCES. INSTALL, INSULATE, AND SIZE REFRIGERANT PIPING PER EQUIPMENT MANUFACTURER'S I.O.M. PROVIDE 30 MIL PVC JACKET ON PIPE INSULATION EXPOSED TO AMBIENT CONDITIONS.
  - 5 PROVIDE CEILING MOUNTED EXHAUST FAN, AS SCHEDULED AND SPECIFIED. MOUNT FAN DEAD LEVEL IN GYPSUM BOARD CEILING. TRANSITION FROM FULL SIZE DUCT CONNECTION AT FAN TO DUCT SIZE SHOWN AND, AS DETAILED WITH FLEXIBLE CONNECTIONS. PROVIDE CONTROL PER SCHEDULE.
  - 6 PROVIDE ROOF MOUNTED OUTSIDE AIR INTAKE HOOD (IAH-1.2), AS SCHEDULED AND SPECIFIED. PROVIDE SLOPED CURB TO MATCH ROOF PITCH. SET HOOD DEAD LEVEL. PROVIDE O.A. DUCT DROP FULL SIZE FROM UNIT CONNECTION, TRANSITION TO DUCT SIZED, AS SHOWN. PAINT HOOD AND CURB TO MATCH ROOF COLOR. MAINTAIN MINIMUM 10'-0" HORIZONTAL DISTANCE BETWEEN OUTSIDE AIR INTAKES AND PLUMBING VENTS, FURNACE VENTS, AND EXHAUST AIR VENT.
  - 7 PROVIDE ROOF MOUNTED EXHAUST AIR ROOF JACK (ERJ-1), AS SCHEDULED AND SPECIFIED. PROVIDE E.A. DUCT DROP FULL SIZE FROM CONNECTION, TRANSITION TO DUCT SIZED, AS SHOWN. PAINT ROOF JACK TO MATCH ROOF COLOR. MAINTAIN MINIMUM 10'-0" HORIZONTAL DISTANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST ROOF JACK.
  - 8 PROVIDE FACTORY CONCENTRIC VENT KIT FOR GAS FURNACE COMBUSTION AIR AND VENT EXHAUST PIPING. PAINT VENT KIT ABOVE ROOF TO MATCH ROOF COLOR. COORDINATE FLASHING WITH GC.
  - 9 TYPICAL. PROVIDE PIPE SLEEVE AT WALL. SEAL ANNULAR SPACE WEATHER TIGHT.
  - 10 SEE PLUMBING DRAWINGS FOR GAS PIPING AND PIPE SIZES.
  - 11 PENETRATION OF ATTIC GYPSUM BOARD. AIR-TIGHT SEAL PROVIDED BY G.C., TYPICAL.
  - 12 DO NOT ROUTE ANY DUCT OR PIPE ABOVE ELECTRICAL PANELS.
  - 13 MC SHALL PROVIDE GUARDIAN MODEL 1384-B RANGE HOOD FIRE SUPPRESSION SYSTEM (UL LISTED, UL SUBJECT 300A, UL 299, UL 864, NFPA 10). INSTALL FIRE SUPPRESSION SYSTEM IN STRICT ACCORDANCE WITH MFR'S INSTALLATION INSTRUCTIONS. COORDINATE SUPPRESSION SYSTEM REQUIREMENTS WITH GC AND HOOD SUPPLIER. ENSURE HOOD MODEL IS COMPLIANT WITH GUARDIAN SYSTEM. SEE ARCHITECTURAL DRAWINGS FOR RANGE HOOD.
  - 14 CLOTHES DRYER PROVIDED BY OTHER. MC SHALL PROVIDE "DRYER BOX MODEL 425", RECESS BOX IN WALL BEHIND DRYER. COORDINATE LOCATION WITH APPLIANCE SUPPLIER PRIOR TO INSTALLATION. EXTEND AND CONNECT FULL SIZE DRYER VENT FROM DRYER BOX THROUGH ROOF. MC SHALL SEAL ENTIRE LENGTH OF DRYER VENT WATER-TIGHT. TERMINATE THROUGH ROOF WITH ROOFGOOSEVENT WITH INTEGRAL BACK DRAFT DAMPER. PAINT GOOSE NECK VENT, COLOR TO MATCH ROOF.
  - 15 PROVIDE GAS FIRED INFRARED TUBE HEATER (TRH), MOUNT UNIT DEAD LEVEL FROM ROOF STRUCTURE. PROVIDE ALL ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION AND, AS SCHEDULED. MC SHALL PROVIDE 24V THERMOSTAT CONTROL. PLUMBING CONTRACTOR SHALL PROVIDE APPROVED CSST FLEXIBLE GAS CONNECTION AT ITI, SEE PLUMBING DRAWINGS FOR GAS PIPING. INSTALL UNIT PER MANUFACTURER'S I.O.M. WITH REQUIRED CLEARANCES. COORDINATE UNIT MOUNTING WITH FIXTURES, OVERHEAD DOORS, AND EQUIPMENT. MOUNT AS HIGH AS POSSIBLE.
  - 16 PROVIDE TYPE B VENT THROUGH ROOF WITH WEATHER CAP, FLASH TO ROOF. SIZE PER EQUIPMENT MANUFACTURER'S I.O.M.
  - 17 ITH COMBUSTION AIR INTAKE THROUGH ROOF, PROVIDE WEATHER CAP.
  - 18 PROVIDE LOW LEAK DAMPER WITH 24V ACTUATOR. MOUNT ACTUATOR ACCESSIBLE FROM GYPSUM BOARD CEILING. PROVIDE CEILING ACCESS PANEL. DAMPER INTERLOCKED WITH EF-4A, OPEN WHEN FAN IS ENERGIZED, CLOSED WHEN FAN IS DEENERGIZED.
  - 19 10x3-1/2 GALVANIZED SHEET METAL DUCT IN WALL UP TO ALUMINUM ROOF JACK. PAINT ROOF JACK TO MATCH ROOF COLOR.
  - 20 PROVIDE ROOF MOUNTED EXHAUST FAN, AS SCHEDULED AND SPECIFIED. PROVIDE SLOPED CURB TO MATCH ROOF PITCH. SET EF DEAD LEVEL. PROVIDE E.A. DUCT DROP FULL SIZE FROM UNIT CONNECTION, TRANSITION TO DUCT SIZED, AS SHOWN. PAINT FAN AND CURB TO MATCH ROOF COLOR. MAINTAIN MINIMUM 10'-0" HORIZONTAL DISTANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST FAN.
  - 21 ROUTE E.A. DUCT SIZED AS SHOWN TIGHT TO WALL. EXTEND TO 12" AFF. PROVIDE E.A. GRILLE AT BOTTOM OF DUCT.
  - 22 SPILL CONDENSATE TO LANDSCAPED AREA.
  - 23 PROVIDE CO/NOX GAS DETECTOR TO CONTROL EF-4A, SEE EF SCHEDULE. INSTALL PER MFR'S I.O.M.
  - 24 20x20 RA THROUGH GYPSUM BOARD CEILING TO 20x16 RA BELOW CEILING. ROUTE 20x16 TO DOWNFLOW FURNACE AND TRANSITION TO FULL SIZE AT FURNACE INLET AND AS DETAILED.
  - 25 AVERAGING TEMPERATURE SENSOR COMMUNICATING WITH THERMOSTAT. SEE SPECIFICATIONS FOR MOUNTING HEIGHT.
  - 26 ON DOWNFLOW FURNACE, MOUNT S2 GRILLE IN VERTICAL FACE OF SUPPLY AIR PLENUM. MOUNT GRILLE ON 6" DEEP GALVANIZED SHEET METAL BOOT ATTACHED TO PLENUM. PROVIDE GRILLE WITH FACTORY OBD IN GRILLE NECK.



2 GAS PIPE ROOF PENETRATION DETAIL  
SCALE: 1/8" = 1'-0"

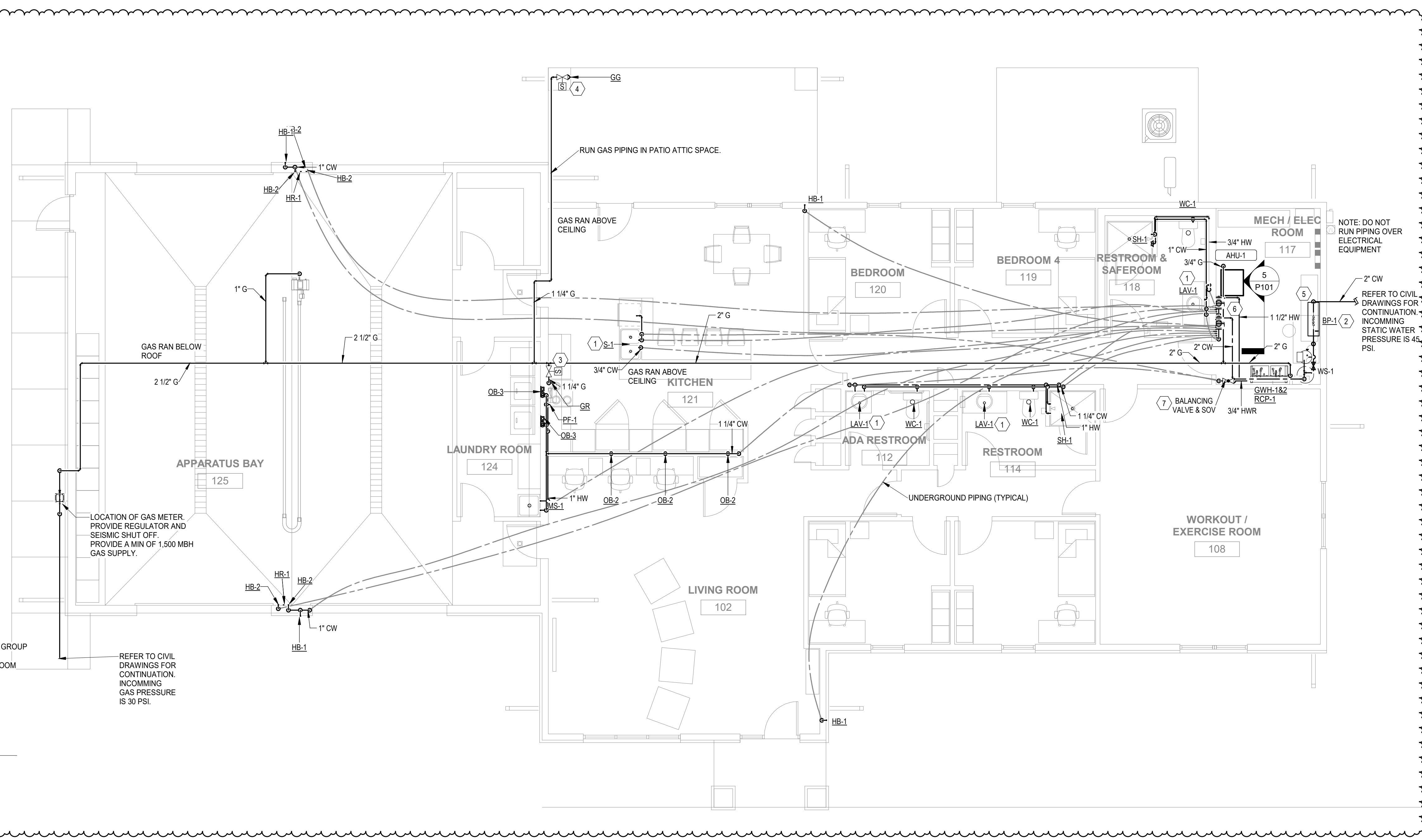


3 GAS HEATER DETAIL  
SCALE: NO SCALE



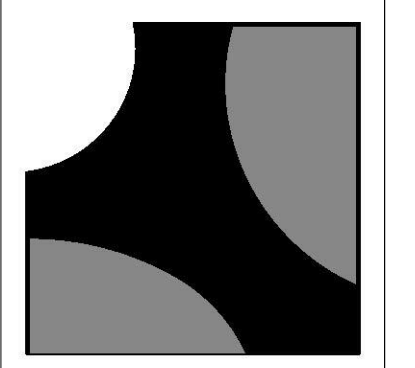
4 TEMPERING VALVE DETAIL  
SCALE: 1/8" = 1'-0"

- # KEYNOTES
- 1 PROVIDE POINT OF USE MIXING VALVE MV-1 TO PROVIDE 105 DEG. MAX TEMP. WATER
  - 2 PROVIDE BYPASS FOR BOOSTER PUMP FOR WHEN CITY'S WATER LINES ARE REDONE. INSTALL PER MANUFACTURERS INSTRUCTIONS.
  - 3 CONTRACTOR TO INSTALL NATURAL GAS SOLENOID VALVE TO SHUT OFF THE GAS LINE TO KITCHEN EQUIPMENT WHEN FIRE ALARM AND ALARM CALL IS ACTIVATED. PROVIDE A PUSH BUTTON CONTROLLER (ISMET) BY EQUIPMENT THAT WILL ACT AS AN EMERGENCY SHUT OFF AND VALVE RESET. THIS IS TO ENSURE GAS COOKING APPLIANCES TO BE SHUT OFF WHEN FIRE ALARM IS ACTIVATED AND WILL ALLOW MANUAL RESET IF COOK WILL NOT NEED TO GO TO FIRE ALARM CALL. COORDINATE INSTALLATION AND CONTROLS WITH ELECTRICAL AND FIRE ALARM CONTRACTOR.
  - 4 CONTRACTOR TO INSTALL NATURAL GAS SOLENOID VALVE TO SHUT OFF THE GAS LINE TO GRILL EQUIPMENT WHEN FIRE ALARM AND ALARM CALL IS ACTIVATED. PROVIDE A PUSH BUTTON BY EQUIPMENT THAT WILL ACT AS AN EMERGENCY SHUT OFF AND VALVE RESET. THIS IS TO ENSURE GAS COOKING APPLIANCES TO BE SHUT OFF WHEN FIRE ALARM IS ACTIVATED AND WILL ALLOW MANUAL RESET IF COOK WILL NOT NEED TO GO TO FIRE ALARM CALL. COORDINATE INSTALLATION AND CONTROLS WITH ELECTRICAL AND FIRE ALARM CONTRACTOR. PROVIDE FLEX CONNECT IN WALL BOX FOR FUTURE OUTSIDE GRILL.
  - 5 PROVIDE WATER PRESSURE REGULATOR SET TO 75 PSI ON THE INCOMING WATER SERVICE EVEN IF WATER PRESSURE DOES NOT MEET THIS CRITERIA. CITY WILL BE UPDATING WATER LINES IN THIS AREA IN THE FUTURE.
  - 6 PROVIDE DOMESTIC WATER MANIFOLD FOR INSULATED COPPER OR PEX PIPING TO FIXTURE GROUPS. PROVIDE SHUT OFF VALVES PRIOR TO GOING BELOW SLAB. COORDINATE ROUTING WITH SANITARY LINES. DOMESTIC WATER SHALL BE ABOVE ALL SANITARY LINES.
  - 7 PROVIDE HOT WATER RETURN MANIFOLD FOR INSULATED COPPER OR PEX PIPING TO FIXTURE GROUPS. PROVIDE BALANCING VALVE AND SHUT OFF VALVES PRIOR TO GOING BELOW SLAB. COORDINATE ROUTING WITH SANITARY LINES. DOMESTIC WATER SHALL BE ABOVE ALL SANITARY LINES.



5 DOMESTIC WATER MANIFOLD  
SCALE: 3/4" = 1'-0"

1 WATER & GAS PLUMBING PLAN  
SCALE: 3/16" = 1'-0"



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ph: 636.294.9811

**CASE Engineering Inc.**  
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Contact: Mark Struckhoff, P.E.  
mstruckhoff@caseengineeringinc.com

CIVIL ENGINEER  
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mstruckhoff@baxengineering.com

STRUCTURAL, MECHANICAL, PLUMBING & ELECTRICAL  
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Structural Contact: Ardie Mansour, P.E.  
Phone: 636-349-1600 ext 291  
amansour@caseengineeringinc.com  
Mechanical, Plumbing, Electrical Contact: Jim Eyre, P.E.  
jeyre@caseengineeringinc.com  
Phone: 636-349-1600 ext 299

New Base Station #2 Facility for:  
**Lincoln County Ambulance District**  
28 Walter Court  
Moscow Mills, Missouri 63362

R#	ISSUE	DATE
0	BID & PERMIT SET	04/15/2022
1	ADDENDUM 1	05/05/2022

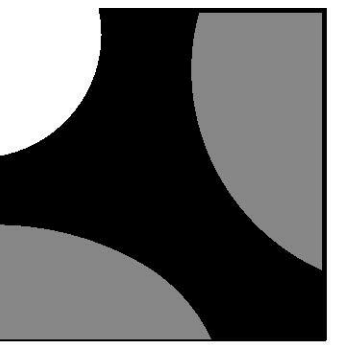


DARRELL R. CASE  
PE-23303

PROJECT MANAGER: JKL  
DRAWN BY: CLK

PROJECT NUMBER: 21-079  
DATE: APRIL 15, 2022

SHEET  
**P101**  
WATER AND GAS PLAN



**BAALMAN ARCHITECTS**

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O'Fallon, MO 63366  
ph: 636.294.9811

**CASE Engineering Inc.**

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St. Louis, MO 63102  
P: 636.591.0000  
F: 636.591.0700  
CERTIFICATE OF AUTHORITY NO. 061694

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mstruckhoff@baxengineering.com

STRUCTURAL,  
MECHANICAL, PLUMBING &  
ELECTRICAL  
CASE ENGINEERING, INC.

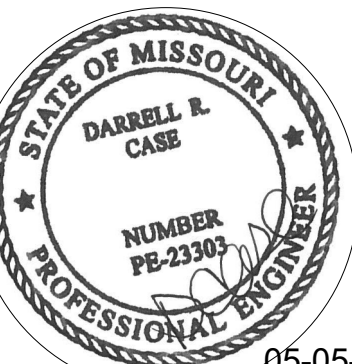
796 Merus Court  
St. Louis, Missouri 63102

Structural Contact:  
Ardie Mansour, P.E.  
Phone: 636-349-1600 ext 291  
amansour@caseengineeringinc.com

Mechanical, Plumbing, Electrical  
Contact: Jim Eyre, P.E.  
jeyre@caseengineeringinc.com  
Phone: 636-349-1600 ext 293

New Base Station #2 Facility for:  
**Lincoln County Ambulance District**  
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Moscow Mills, Missouri 63362

DATE	ISSUE	R#
04/15/2022 <td>BID &amp; PERMIT SET <td>0</td> </td>	BID & PERMIT SET <td>0</td>	0
05/05/2022 <td>ADDENDUM 1 <td>1</td> </td>	ADDENDUM 1 <td>1</td>	1



05-05-2022

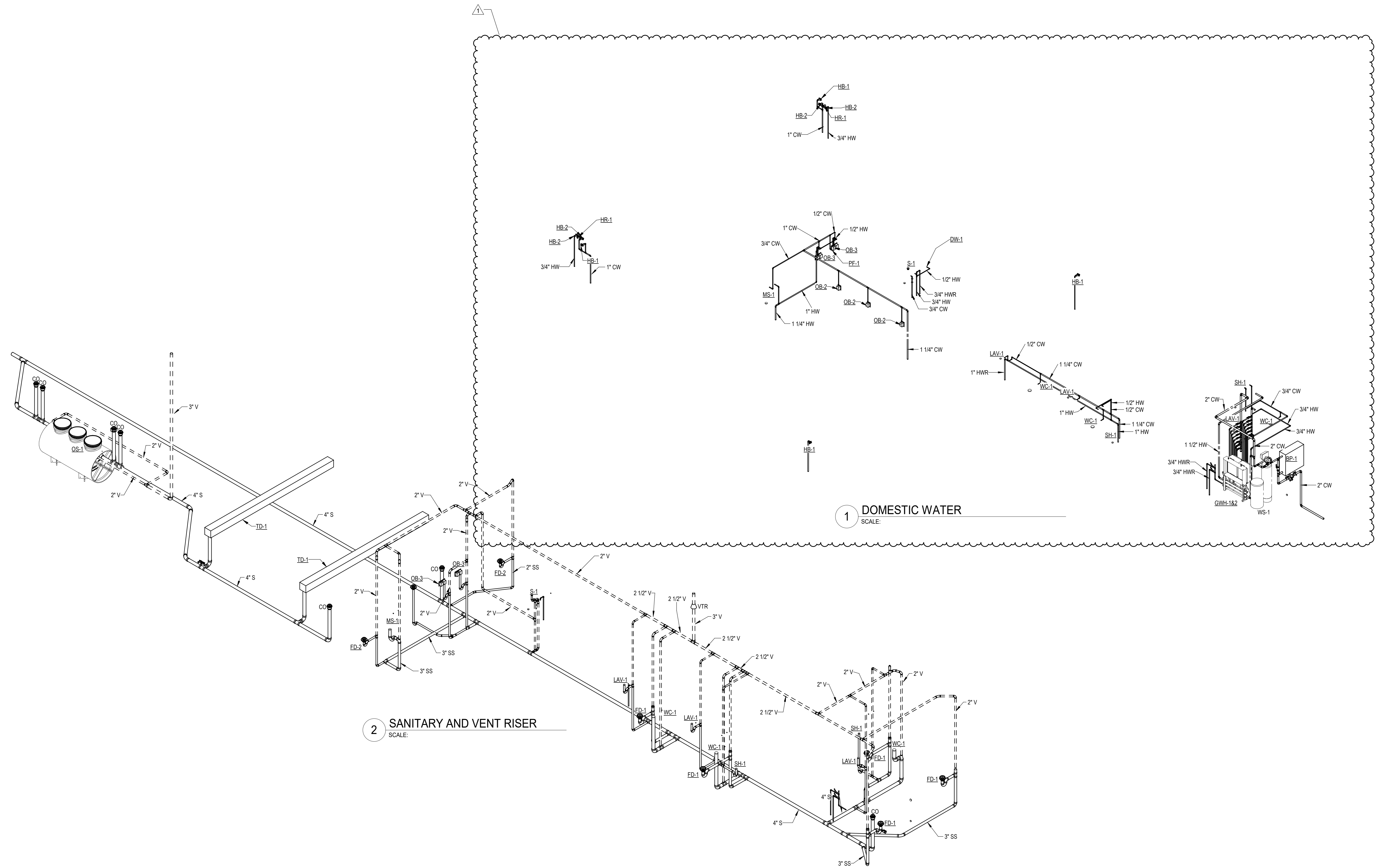
DARRELL R. CASE  
PE-23303

PROJECT MANAGER: JKL  
DRAWN BY: CLK

PROJECT NUMBER  
21-079  
DATE  
APRIL 15, 2022

SHEET  
**P300**  
PLUMBING  
ISOMETRICS

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**1 DOMESTIC WATER**  
SCALE:

**2 SANITARY AND VENT RISER**  
SCALE:

NEW PANEL BOARD MP				SURFACE MOUNTED			
120/240VOLTS 1 PHASE 3 WIRE 400 AMP. BUS				22,000 A.I.C. RATED			
400 AMP. MAIN LUGS AND FEED THRU LUGS				FED FROM			
CKT. NO.	TRIP AMP.	NO. POLES	LOAD SERVED	LOAD - V. A.	NO. POLES	TRIP AMP.	CKT. NO.
1	20	1	BAY EXIT SIDE RECEPTACLES	500	1	20	2
3	20	1	LIVING ROOM AREA RECEPTACLES	800	1	20	4
5	20	1	WORK COUNTER RECEPTACLES	900	1	20	6
7	20	1	LIVING ROOM TV AREA RECEPT.	900	1	20	8
9	20	1	KITCHEN COUNTER RECEPTACLES	400	1	20	10
11	20	1	KITCHEN REFRIGERATOR	1000	1	20	12
13	20	1	KITCHEN REFRIGERATOR	1000	1	20	14
15	20	1	KITCHEN REFRIGERATOR	1000	1	20	16
17	20	1	DISHWASHER	1200	1	20	18
19	20	1	DISPOSAL	1180	1	20	20
21	20	1	UNDER SINK WATER CHILLER	600	1	20	22
23	20	1	SUPPLY CLOSET RECEPTACLES	400	1	20	24
25	20	1	EXTERIOR BUILDING LIGHTS	600	1	20	26
27	20	2	SITE POLE LIGHTS	1800	2	20	28
29	20	2	DRY PIPE COMPRESSOR	1200	2	20	30
31	20	1	WATER SYSTEM BOOSTER PUMP	3750	1	20	36
37	40	2	TYSS MODULE	3750	2	40	40
41	30	2	TYSS MODULE	3750	2	40	42

LOAD DESCRIPTION	DEMAND FACTOR	VOLT - AMPS	
	D.F.	CONNECTED	DEMAND
LIGHTING & FRONT SIGN RECEPTACLES	1.25	5570	6965
MOTORS	1st 10kVA @ 100% REMAINDER @ 50%	9080	9080
MISC. EQUIPMENT	ALL @ 100% PLUS 25% OF LARGEST	22920	22920
KITCHEN EQUIPMENT	1.00	30780	30780
HVAC EQUIPMENT	NEC TABLE (220.56) 0.65	8840	8840
<b>TOTAL</b>	<b>1.00</b>	<b>77190</b>	<b>78585</b>

PANELBOARD LOAD = 78585 V.A.  
 FULL LOAD AMPS = 327.4 A.  
 (LO PROVIDE LOCK-ON DEVICE) (TS CIRCUIT VIA TIMERSWITCH) (GF1 GFCI TYPE CIRCUIT BREAKER)  
 \* HVAC LOAD BASED ON UNIT MCA WHICH INCLUDES 25% OF LARGEST MOTOR

NEW PANEL BOARD A				SURFACE MOUNTED			
120/240VOLTS 1 PHASE 3 WIRE 400 AMP. BUS				22,000 A.I.C. RATED			
400 AMP. MAIN LUGS AND FEED THRU LUGS				FED FROM			
CKT. NO.	TRIP AMP.	NO. POLES	LOAD SERVED	LOAD - V. A.	NO. POLES	TRIP AMP.	CKT. NO.
1	20	1	RESTROOM 118 RECEPTACLE	180	1	20	2
3	20	1	RESTROOM 114 RECEPTACLE	180	1	20	4
5	20	1	GENERAL RECEPTACLES	540	1	20	6
7	20	1	GENERAL DINING AREA RECEPT.	540	1	20	8
9	20	1	EXTERIOR PATIO RECEPTACLES	540	1	20	10
11	20	1	GAS SOLENOID CONTROL	200	1	20	12
13	20	1	STOVE ELECTRICAL CONNECTION	200	1	20	14
15	20	1	KITCHEN COUNTER RECEPTACLES	600	1	20	16
17	20	1	KITCHEN COUNTER RECEPTACLES	600	1	20	18
19	20	1	KITCHEN ISLAND RECEPTACLES	600	1	20	20
21	20	1	SPARE	600	1	20	22
23	20	1	SPARE	600	1	20	24
25	20	1	SPARE	600	1	20	26
27	20	1	TRUCK BAY TUBULAR HEATER	1200	1	20	28
29	20	1	BAY ENTRANCE RECEPTACLES	900	1	20	30
31	20	1	LAUNDRY/BAY RECEPTACLES	540	1	20	32
33	20	1	SPARE	1000	1	20	34
35	20	1	PUBLIC AREA LIGHTING	830	1	20	36
37	20	1	BAY LIGHTING	710	1	20	38
39	20	1	BEDROOM AREA LIGHTING	790	1	20	40
41	20	1	BEDROOM AREA LIGHTING	640	1	20	42

LOAD DESCRIPTION	DEMAND FACTOR	VOLT - AMPS	
	D.F.	CONNECTED	DEMAND
LIGHTING & FRONT SIGN RECEPTACLES	1.25	2970	3715
MOTORS	1st 10kVA @ 100% REMAINDER @ 50%	5280	5280
MISC. EQUIPMENT	ALL @ 100% PLUS 25% OF LARGEST	1200	1500
KITCHEN EQUIPMENT	1.00	17280	17280
HVAC EQUIPMENT	NEC TABLE (220.56) 0.65	830	830
<b>TOTAL</b>	<b>1.00</b>	<b>26730</b>	<b>27775</b>

PANELBOARD LOAD = 27775 V.A.  
 FULL LOAD AMPS = 113.7 A.  
 (LO PROVIDE LOCK-ON DEVICE) (TS CIRCUIT VIA TIMERSWITCH) (GF1 GFCI TYPE CIRCUIT BREAKER)  
 \* HVAC LOAD BASED ON UNIT MCA WHICH INCLUDES 25% OF LARGEST MOTOR

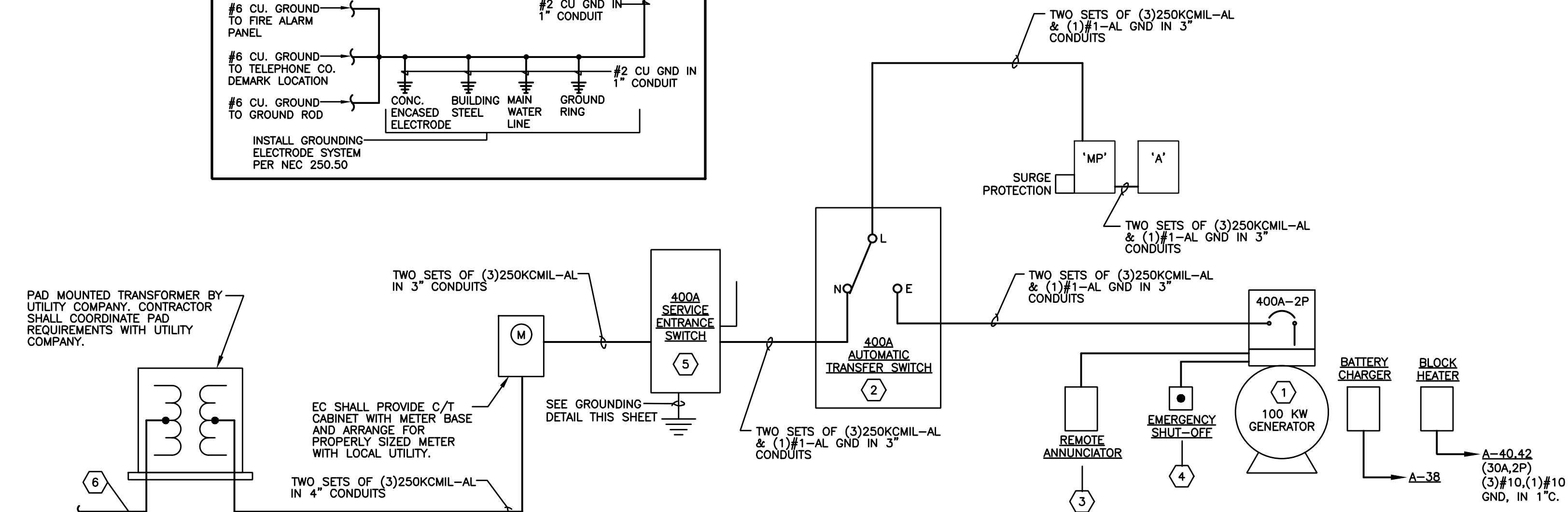
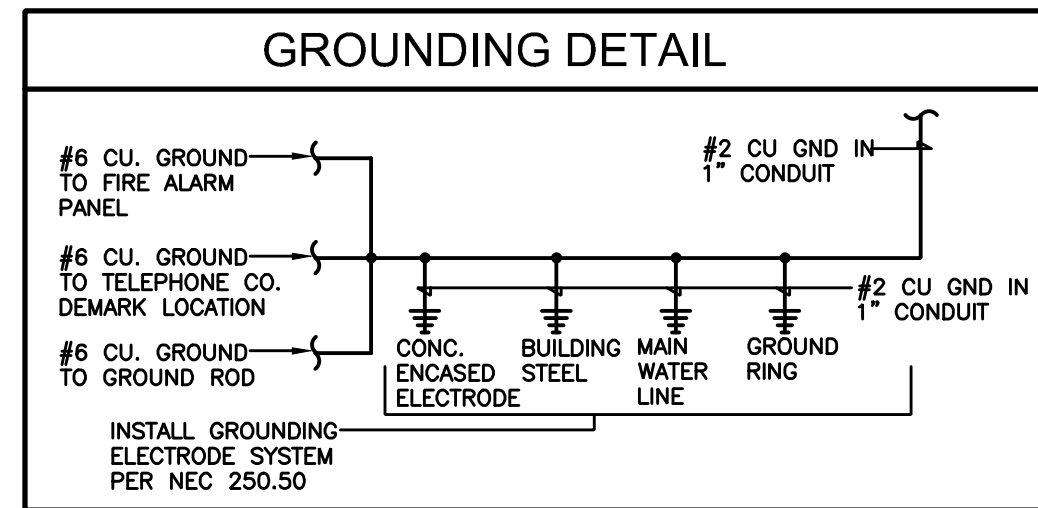
FIRE ALARM SYSTEM SYMBOLS	
[F]	FIRE ALARM SYSTEM MANUAL STATION
[FH]	FIRE ALARM SYSTEM HEAT DETECTOR
[FCM]	FIRE ALARM SYSTEM COMBINATION SMOKE DETECTOR/CARBON MONOXIDE DETECTOR
[FSD]	FIRE ALARM SYSTEM SMOKE DETECTOR
[FSD]	FIRE ALARM SYSTEM DUCT SMOKE DETECTOR
[FV]	FIRE ALARM SYSTEM AUDIO/VISUAL ALARM
[FVWP]	FIRE ALARM SYSTEM WEATHERPROOF AUDIO/VISUAL ALARM
[FV]	FIRE ALARM SYSTEM VISUAL ALARM
[FRM]	FIRE ALARM SYSTEM RELAY MODULE
[FMM]	FIRE ALARM SYSTEM MONITOR MODULE
[FFS]	FIRE ALARM SYSTEM SPRINKLER FLOW SWITCH MONITOR
[FPM]	FIRE ALARM SYSTEM SPRINKLER TAMPER SWITCH MONITOR
[FACP]	FIRE ALARM SYSTEM CONTROL PANEL
[FVWP]	SPRINKLER SYSTEM EXTERIOR AUDIO/VISUAL DEVICE

OWNER PROVIDED VENDOR EQUIPMENT	
GC TO COORDINATE WITH OWNER'S VENDORS FOR ANY CONTRACTOR ITEMS NEEDED (I.E.: EMPTY CONDUITS, JUNCTION BOXES, CABLING, ETC.) AND FOR COORDINATION WITH INSTALLATION TIMEFRAME FOR THE ITEMS LISTED BELOW	
1) DISPATCH/ALERT SYSTEMS	
2) SPEAKER SYSTEMS FOR NOTIFICATION	
3) VOICE AND DATA SYSTEMS	
4) BUILDING ACCESS CONTROLS	
5) BUILDING SECURITY SYSTEMS	
VERIFY ADDITIONAL ITEMS WITH OWNER PRIOR TO BIDDING.	

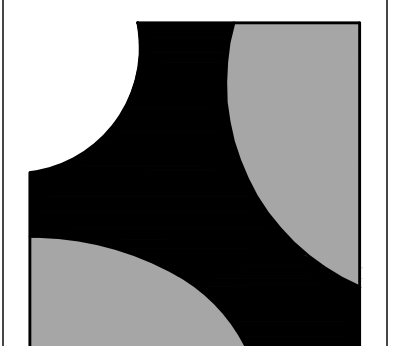
ELECTRICAL SYMBOLS	
WP	WEATHERPROOF
RT	RAINTIGHT
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
GC	GENERAL CONTRACTOR
PC	PLUMBING CONTRACTOR
AF	ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE
PROVIDE	FURNISH AND INSTALL COMPLETE
[Symbol]	CONDUIT RUN CONCEALED IN CEILING OR WALL. NUMBER OF HASH MARKS INDICATE NUMBER OF #12 WIRES WHEN MORE THAN TWO ARE REQUIRED UNLESS NOTED OTHERWISE. ALL CIRCUITS SHALL INCLUDE EQUIPMENT GROUND SIZED PER NEC. CURLED HASH MARK INDICATES DEDICATED GROUND WIRE REQUIRED.
[Symbol]	CONDUIT RUN CONCEALED IN FLOOR OR EARTH.
[Symbol]	CONDUIT RUN EXPOSED.
[A]	LIGHTING FIXTURE: "A" INDICATES FIXTURE TYPE (SEE "LIGHTING FIXTURE SCHEDULE"); "1" INDICATES CIRCUIT NUMBER; "A" INDICATES CONTROL BY SWITCH "A".
[Symbol]	S.P.S.T. TOGGLE SWITCH: "1A" INDICATES OUTLETS CONTROLLED.
[Symbol]	THREE WAY TOGGLE SWITCH: "1A" INDICATES OUTLETS CONTROLLED.
[Symbol]	FOUR WAY TOGGLE SWITCH: "1A" INDICATES OUTLETS CONTROLLED.
[Symbol]	WALL MOUNTED OCCUPANCY SENSOR SWITCH WITH OVERRIDE: "1A" INDICATES OUTLETS CONTROLLED.
[Symbol]	FLUSH WALL 20A, 125V, DUPLEX RECEPTACLE: "+24" INDICATES MOUNTING HEIGHT TO CENTERLINE. MOUNT DEVICE AT +18" AFF UNLESS NOTED OTHERWISE.
[Symbol]	FLUSH WALL 20A, 125V, DOUBLE DUPLEX RECEPTACLE: MOUNT DEVICE AT +18" AFF UNLESS NOTED OTHERWISE.
[Symbol]	FLUSH WALL 20A, 125V, GFCI TYPE DUPLEX RECEPTACLE: MOUNT DEVICE AT +18" AFF UNLESS NOTED OTHERWISE.
[Symbol]	FLUSH WALL 20A, 125V, DUPLEX RECEPTACLE WITH TWO USB CHARGING PORTS: MOUNT DEVICE AT +18" AFF UNLESS NOTED OTHERWISE.
[Symbol]	JUNCTION BOX SIZE AS REQUIRED.
[Symbol]	DISCONNECT SWITCH: SWITCH SIZE (30 AMP), NON-FUSED (NF) OR FUSE SIZE (30AF), 2 POLE, NEMA 3R, VERIFY VOLTAGE (PROVIDED BY EC UNLESS NOTED OTHERWISE)
[Symbol]	DISCONNECT SWITCH: 30 AMP, NON-FUSED, 1 POLE, VERIFY VOLTAGE (PROVIDED BY EC UNLESS NOTED OTHERWISE)
[Symbol]	KEYED NOTE - SEE NOTES, THAT SHEET ONLY UNLESS NOTED OTHERWISE.
[Symbol]	JUNCTION BOX, 2 GANG MINIMUM FOR TV CONNECTION AND ONE DATA CONNECTION. EC TO ROUTE 1" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING. EC TO PROVIDE PLASTIC BUSHING ON END OF CONDUIT.
[Symbol]	SPECIAL OUTLET BY EC, SEE NOTES FOR TYPE, ETC..

- GENERAL NOTES**
- EC TO PROVIDE HANDLE TIE ON ALL MULTIWIRE BRANCH CIRCUITS PER NEC 210.4(B).
  - ALL SPARE CIRCUIT BREAKERS AND DISCONNECT SWITCHES SHALL BE LEFT IN THE OFF POSITION.
  - EC SHALL VERIFY THE VOLTAGE AND AMPERAGE REQUIREMENTS OF ALL EQUIPMENT DELIVERED TO THE SITE PRIOR TO CONNECTION. EC SHALL NOTIFY OWNER OF ANY DIFFERENCE.

- KEYED NOTES**
- REFER TO SITE PLAN ON SHEET, E4.0 FOR LOCATION OF EMERGENCY GENERATOR.
  - EC TO PROVIDE AUTOMATIC TRANSFER SWITCH - 120/240V, 400 AMP, TWO-POLE, THREE-WIRE, WITH A SOLID NEUTRAL, NEMA 1 ENCLOSURE.
  - REFER TO SHEET E3.0 FOR LOCATION OF GENERATOR ANNUNCIATOR.
  - FIELD VERIFY WITH OWNER LOCATION OF GENERATOR EMERGENCY SHUT-OFF.
  - EC TO PROVIDE SERVICE ENTRANCE RATED, 240 VOLT, 1 PHASE, 3 WIRE, NEMA 3R, DISCONNECT SWITCH WITH 400 AMP FUSES.
  - EC TO PROVIDE (1) 4" SCHED 40 PVC CONDUIT WITH PULL WIRE FROM TRANSFORMER TO UTILITY POLE FOR UTILITY COMPANY CABLES. COORDINATE FULL REQUIREMENTS WITH UTILITY COMPANY PRIOR TO INSTALLATION.



1 RISER DIAGRAM  
 E1.0 SCALE: NONE



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 jeyre@caseengineeringinc.com  
 Phone: 636-349-1600 ext 258

New Base Station #2 Facility for:  
**Lincoln County Ambulance District**  
 28 Walter Court  
 Moscow Mills, Missouri 63362

DATE	ISSUE	DESCRIPTION
4-15-2022	BID & PERMIT SET	
5-5-2022	ADDENDUM 1	



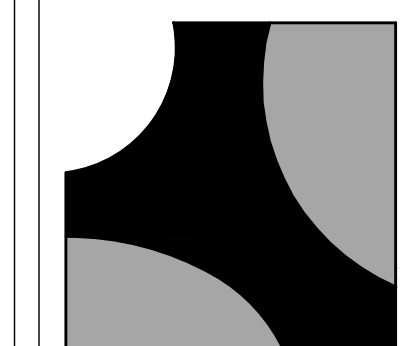
Darrell R. Case  
 ENGINEER  
 MO# E-23303

PROJECT MANAGER: JE  
 DRAWN BY: CK

PROJECT NUMBER  
 21-079  
 DATE  
 April 15, 2022

SHEET  
**E1.0**  
 POWER ONE-LINE  
 & PANEL SCHEDULES





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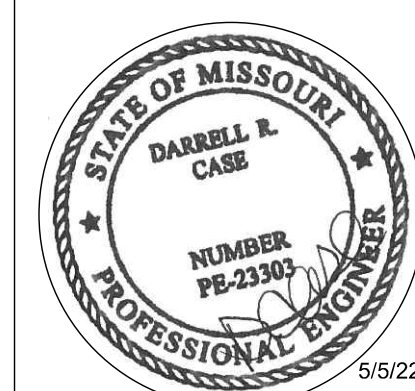
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New Base Station #2 Facility for:  
**Lincoln County  
Ambulance District**  
28 Walter Court  
Moscow Mills, Missouri 63362

DATE	ISSUE	RF#
4-15-2022	BID & PERMIT SET	1
5-5-2022	ADDENDUM 1	

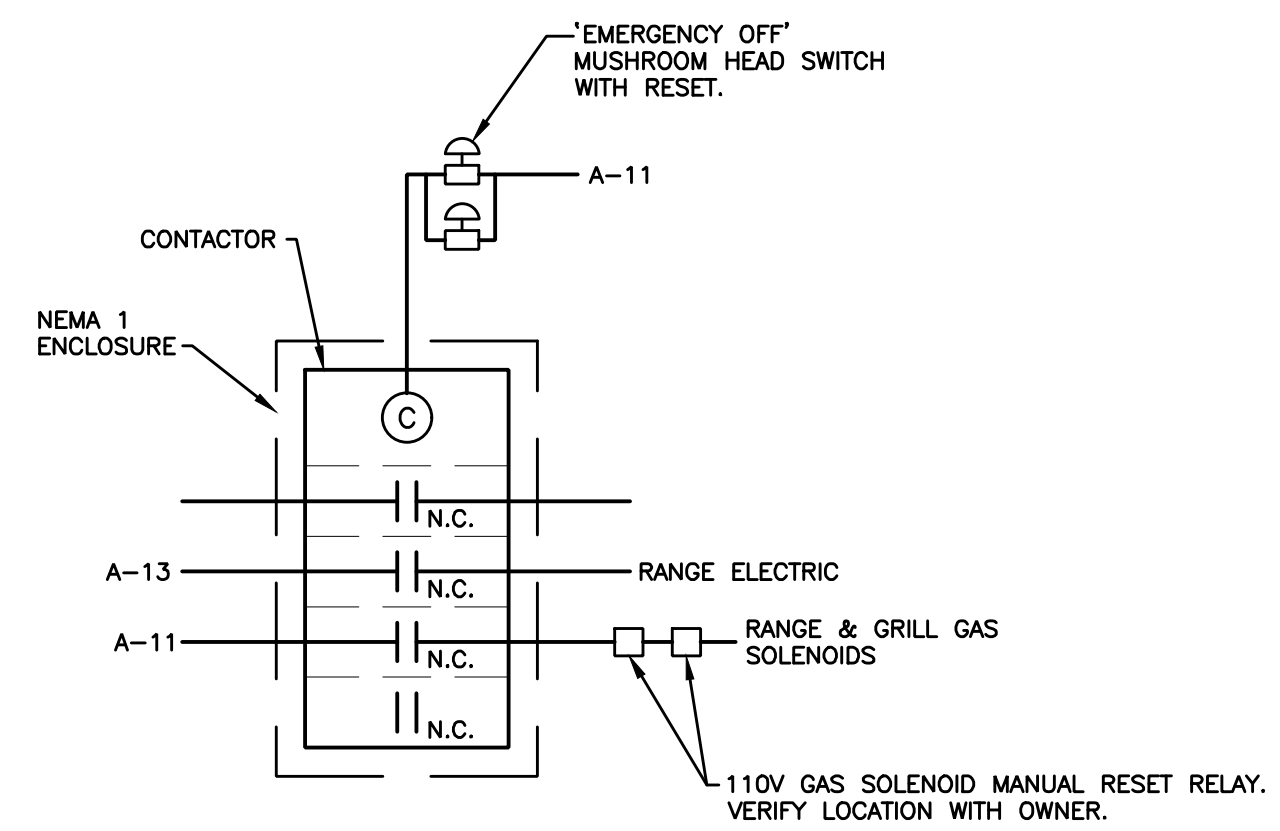
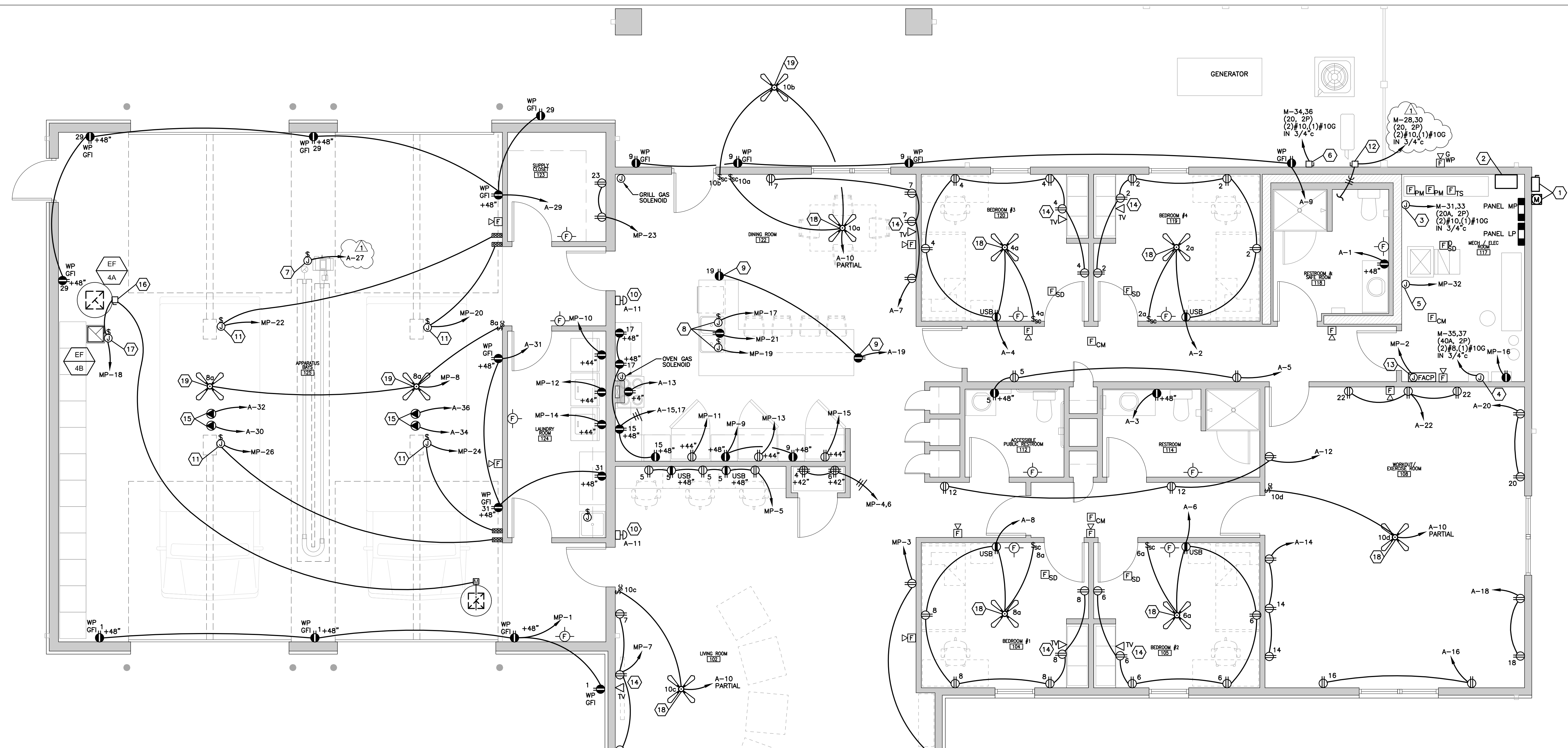


Darrell R. Case  
ENGINEER  
MO# E-23303

PROJECT MANAGER: JE  
DRAWN BY: CK

PROJECT NUMBER  
21-079  
DATE  
April 15, 2022

SHEET  
**E3.0**  
ELECTRICAL POWER PLAN



COORDINATE THIS SCHEMATIC WITH OWNER'S ALERT/TONE SYSTEM PRIOR TO ORDERING AND INSTALLATION AS IT MAY BE CONTROLLED BY ALERT/TONE SYSTEM.

**2 EMERGENCY SHUT OFF DETAIL**  
E3.0 SCALE: NONE

**1 ELECTRICAL POWER PLAN**  
E3.0 SCALE: 1/4" = 1'-0"

- KEYED NOTES**
- NEW C/T, METER AND SERVICE ENTRANCE SWITCH. SEE SHEET E1.0 FOR ADDITIONAL DETAILS.
  - NEW AUTOMATIC TRANSFER SWITCH. EC SHALL VERIFY ALL EQUIPMENT IN ROOM WITH OTHER TRADES PRIOR TO START OF PROJECT.
  - EC TO MAKE ELECTRICAL CONNECTION TO SPRINKLER DRY PIPE COMPRESSOR.
  - EC TO MAKE FINAL ELECTRICAL CONNECTION TO DOMESTIC WATER SERVICE PUMP.
  - EC TO MAKE FINAL ELECTRICAL CONNECTION TO GAS FURNACE.
  - EC TO PROVIDE NEMA 3R, 30 AMP, 240 VOLT, 2 POLE, NON-FUSED ELECTRICAL CONNECTION AS DIRECTED BY HVAC CONTRACTOR.
  - EC TO PROVIDE 20 AMP, 120 VOLT, DISCONNECT IN BAY JOIST SPACE FOR TUBULAR RADIANT HEATER FAN MOTOR AND MAKE FINAL ELECTRICAL CONNECTION AS DIRECTED BY HVAC CONTRACTOR.
  - EC TO PROVIDE DISCONNECT/GFCI RECEPTACLE BELOW SINK FOR CHILLED WATER, DISHWASHER AND GARBAGE DISPOSAL. COORDINATE FINAL CONNECTIONS WITH PLUMBING CONTRACTOR.
  - COORDINATE ELECTRICAL WORK AT CABINERY WITH CABINERY INSTALLER.
  - EC TO PROVIDE 'EMERGENCY OFF' SWITCH TO SHUT DOWN GAS IN THE EVENT OF DISPATCH. REFER TO EMERGENCY SHUT OFF WIRING DIAGRAM ON THIS SHEET FOR ADDITIONAL INFORMATION.
  - EC TO PROVIDE CONNECTION TO DOOR MOTOR. PROVIDE WIRING WITHIN 3/4" CONDUIT DOWN TO TIMER DOOR CONTROLLER LOCATION. PROVIDE 3/4" WIRING WITHIN CONDUIT TO WALL MOUNTED DOOR OPEN CONTROL BUTTON. PROVIDE 3/4" WIRING WITHIN CONDUIT TO DOOR OPEN SIGNAL LIGHT LOCATION AND THROUGH WALL TO EXTERIOR SIGNAL DEVICE. PROVIDE 3/4" WIRING WITHIN CONDUIT TO STATION CONTROLLER AT IT CLOSET FOR FUTURE DOOR TIMER CONTROL WIRING. VERIFY INSTALLATION REQUIREMENTS WITH MANUFACTURER AND LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
  - EC TO PROVIDE NEMA 3R, 30 AMP, 240 VOLT, 2 POLE, NON-FUSED DISCONNECT SWITCH, INDOOR AIR HANDLING UNIT POWERED OFF OUTDOOR CONDENSING UNIT. EC TO PROVIDE ALL INTERCONNECT WIRING AS REQUIRED AND MAKE FINAL ELECTRICAL CONNECTIONS. VERIFY EXACT LOCATION WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN.
  - EC TO PROVIDE HARD WIRED CONNECTION TO FIRE ALARM PANEL. VERIFY LOCATION OF PANEL WITH OWNER'S REPRESENTATIVE.
  - EC TO MOUNT RECEPTACLE AND TV JACK HIGH ON WALL. SEE ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHT.
  - PROVIDE RECEPTACLE MOUNTED IN JOIST SPACE FOR CONNECTION OF A CORD REEL FOR AMBULANCE AND SHORELINE POWER. PROVIDE UNISTRUT FRAME IN JOIST SPACE FOR MOUNTING. COORDINATE LOCATION WITH HVAC EQUIPMENT AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
  - EC TO PROVIDE 20 AMP, 120 VOLT, 1 PHASE, COMBINATION, NON-FUSED, NEMA 3R, DISCONNECT SWITCH AND MOTOR STARTER FOR CONNECTION TO EXHAUST FAN AND MAKE FINAL ELECTRICAL CONNECTION. UNIT TO BE INTERLOCKED WITH MOTORIZED DAMPER BY HVAC CONTRACTOR. VERIFY EXACT LOCATION AND REQUIREMENTS WITH HVAC CONTRACTOR PRIOR TO ANY ROUGH-IN.
  - 20 AMP, 120 VOLT, 1 PHASE, NON-FUSED, DISCONNECT SWITCH FURNISHED WITH EXHAUST FAN. EC TO MAKE FINAL ELECTRICAL CONNECTION. FAN SHALL OPERATE CONTIGUOUSLY.
  - EC TO PROVIDE MODERN FORMS WYND CEILING FAN WITHOUT LIGHT KIT AND WALL MOUNTED CONTROLLER.
  - EC TO PROVIDE MODERN FORMS ROBOTO CEILING FAN WITHOUT LIGHT KIT AND WALL MOUNTED CONTROLLER.