

**MOORE PUBLIC SCHOOLS -
MPS CHILD DEVELOPMENT CENTER**
Moore Public Schools - Moore, Oklahoma
AGP - Moore, Oklahoma

CONSTRUCTION BULLETIN NO. 8
April 25, 2025

1. UPDATED FLOOR PLAN SHEETS TO MATCH EXISTING CONDITIONS.
2. ENLARGED CUSTODIAN ROOM #433 TO RECEIVE NEW WASHERS AND DRYERS AS INDICATED ON ATTACHED ARCHITECTURE AND MEP SHEETS.

END OF CONSTRUCTION BULLETIN NO. 8



| | |
|--------------|------------------|
| CG | drawn by |
| MA | checked by |
| OCTOBER 2024 | date |
| revisions | |
| 1 | ADDENDUM #1 |
| 2 | RFI #10, 11 & 12 |
| 3 | CB-3 |
| 4 | CB-8 |

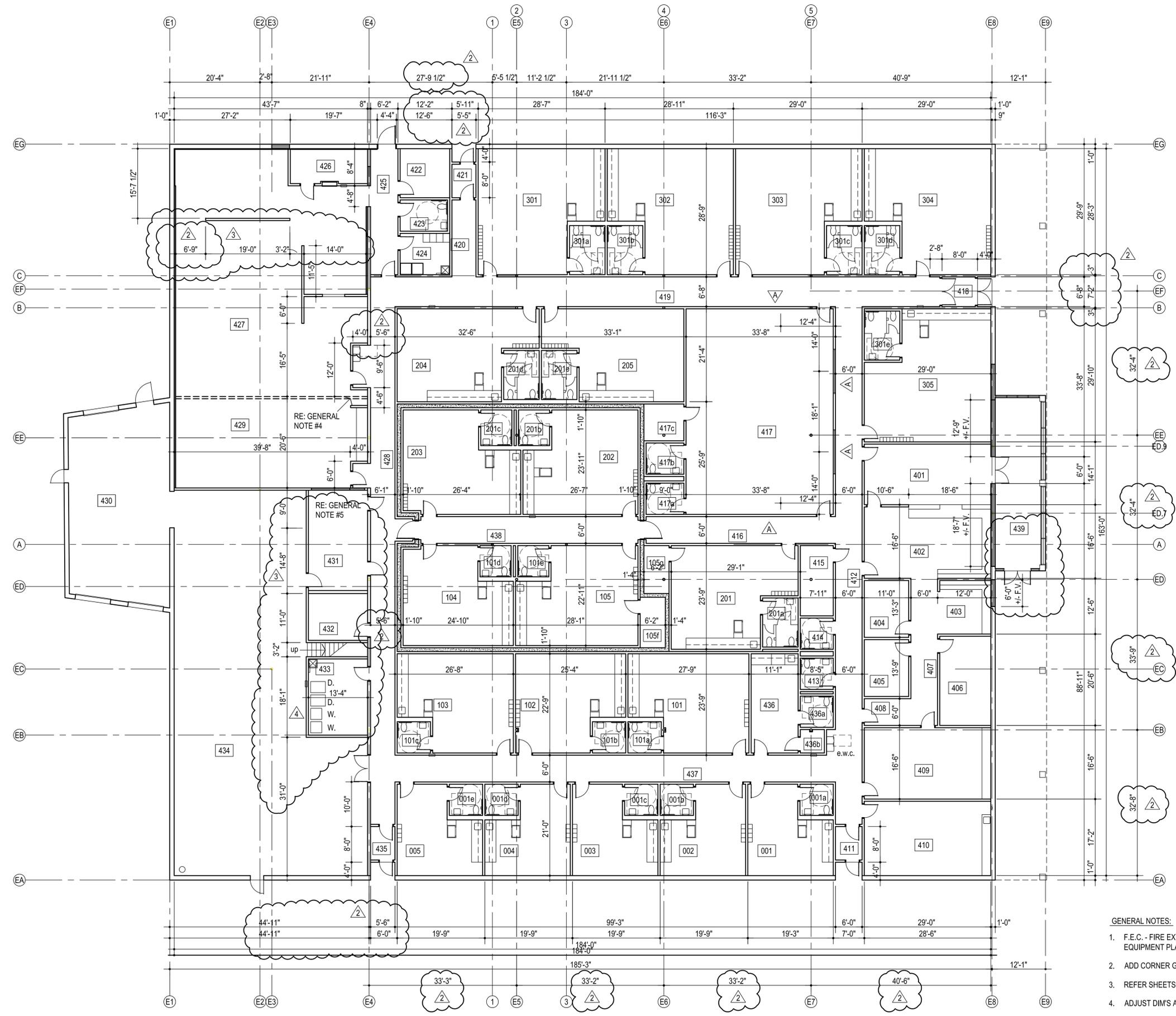


CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

A100a

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- GENERAL NOTES:**
- F.E.C. - FIRE EXTINGUISHER AND CABINET - REFER EQUIPMENT PLAN FOR LOCATIONS
 - ADD CORNER GUARDS (C.G.) AT ALL INTERIOR LOCATIONS
 - REFER SHEETS A103, A104 & A105 FOR ENLARGED PLANS
 - ADJUST DIM'S AS REQUIRED FOR MOVEABLE PARTITION SUPPLIED
 - EXISTING SPACE WITH NEW 6" STUD IN FILL WITH 5/8" GYP. BD. EACH SIDE. COORDINATE DOOR LOCATION WITH ARCHITECT. PROVIDE FLOOR LEVELING MATERIAL



1 DIMENSION PLAN
3/32" = 1'-0"

Construction Bulletin # 08

Client: Abla Griffin Partnership
 Project Name: MPS Daycare
 Project Number: 2450-70304-00

April 24, 2025

Requested by: Owner
 Contractor:
 Salas O'Brien:

To: Mike Abla, Clay Griffin



This Construction Bulletin is issued to:

- Offer additional information for clarification or supplemental drawings for layout assistance.
- Request cost and time impact to initiate a change to the Contract Documents. Owner approval is required, do not commence with revisions unless directed in writing. Avoid Work in areas that may be affected by proposed change until approved or rejected. Once approved, forward Change Order documentation as required by the Contract Documents.
- Direct a required change in the Contract Documents. Proceed with change(s) as indicated. Forward Change Order documentation as required by the Contract Documents.
- Response to RFI ____.

| Item No. | Description | Attachment |
|----------|-----------------------------|------------|
| 1 | Refer to clouds and deltas. | M101 |
| 2 | Refer to clouds and deltas. | M201 |
| 2 | Refer to clouds and deltas. | P101 |
| 3 | Refer to clouds and deltas. | P110 |
| 4 | Refer to clouds and deltas. | T201 |
| 5 | Refer to clouds and deltas. | T304 |
| 6 | Refer to clouds and deltas. | E101 |
| 7 | Refer to clouds and deltas. | E201 |
| 8 | Refer to clouds and deltas. | E502 |
| 9 | Refer to clouds and deltas. | E601 |



END OF CB-08



drawn by

checked by
KF
OCTOBER 2024
date
DG

revisions
1 11/22/2024 AD 02
2 12/12/2024 AD 03
3 03/17/2025 CB 03
4 03/24/2025 CB 05
5 04/02/2025 CB 07
6 04/24/2025 CB 08

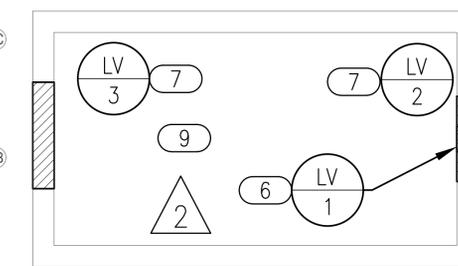
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GENERAL NOTES

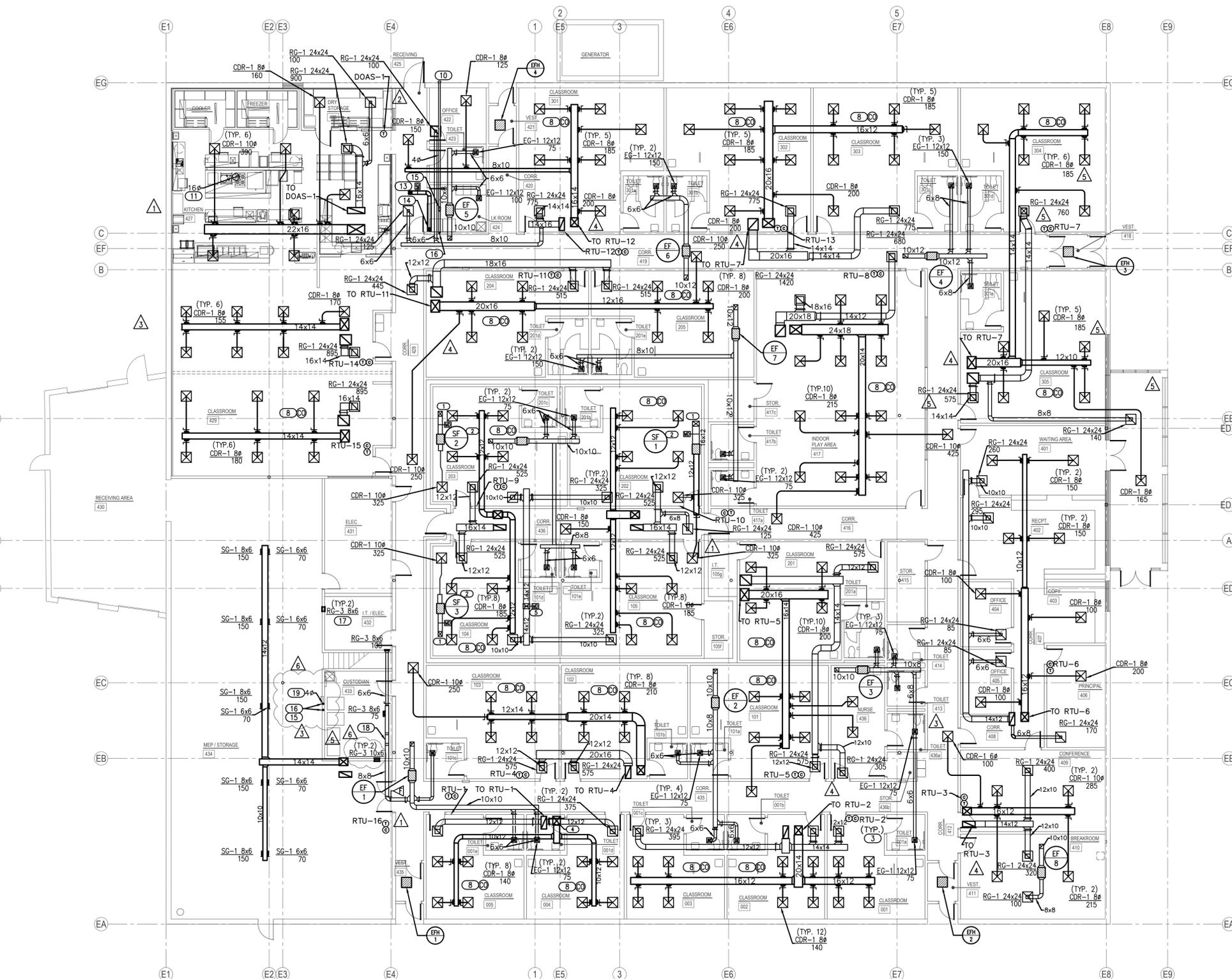
- COORDINATE INSTALLATION OF EQUIPMENT AND DUCTWORK WITH ALL TRADES.
- COORDINATE LOCATION OF THERMOSTATS WITH E.C. ROUGH-IN BY E.C.
- ALL PENETRATIONS OVER 3 1/2 SQUARE INCHES OR 2 1/16 INCHES IN DIAMETER IN/OUT OF SHELTER REQUIRE SHROUD. REFER TO STRUCTURAL FOR ALL SHROUD DETAILS.
- M.C. IS RESPONSIBLE TO ALL STRUCTURAL REQUIRED PENETRATION PROTECTION ITEMS FOR ALL MECHANICAL SYSTEMS PENETRATING THE SHELTER.
- E.C. TO PROVIDE, LOCATE, AND INSTALL SWITCH FOR EMERGENCY VENTILATION FAN. M.C. SHALL PROVIDE CALL OUT LETTERING "EMERGENCY VENTILATION" ON PLACARD ABOVE SWITCH WITH 3/4" LETTERING FOR INSTALLATION BY GC. COORDINATE WITH GC AND EC.

KEYED NOTES

- ROOF HOOD IS PART OF EMERGENCY VENTILATION SYSTEM. DUCT UP 16X12 TO TRANSITION INTO ROOF HOOD OPENING 18X16.
- MOTORIZED DAMPER TO BE 120V CONNECTED TO EMERGENCY POWER. DAMPER SHALL OPEN WHEN SUPPLY FAN TURNS ON.
- PROVIDE LOCKABLE COVER FOR THERMOSTAT.
- DUCT 18X20 SUPPLY AND 12X28 RETURN UP TO RTU.
- ROOF HOOD PART OF THE EMERGENCY VENTILATION SYSTEM TO PROVIDE RELIEF AIR. MOTORIZED DAMPER SHALL OPERATE ON INVERTER. INTERLOCK WITH SF-1. DUCT DOWN TO 16X12.
- MOUNT BOTTOM OF LOUVER MINIMUM 60" ABOVE LV-2. LOUVER CONNECTION FOR ENGINE EXHAUST.
- MOUNT BOTTOM OF LOUVER MINIMUM 18" AFF. LOUVER CONNECTION FOR RADIATOR EXHAUST.
- CARBON MONOXIDE DETECTOR TO BE INSTALLED ACCORDING TO ALL APPLICABLE CODES. DETECTOR SHALL BE INSTALLED CENTRALLY ON CEILING. ALSO INCLUDE BATTERY BACKUP IN EVENT PRIMARY POWER IS INTERRUPTED. ALARM SIGNAL SHALL BE ROUTED TO ADMINISTRATION OFFICE. COORDINATE WITH E.C. WITH PRIMARY POWER CONNECTION AND SYSTEM CONNECTION.
- PROVIDE EXHAUST DUCT TO GENERATOR RADIATOR CONNECTION. COORDINATE DUCT SIZE WITH GENERATOR MANUFACTURER DRAWINGS.
- PROVIDE DRYER VENT EXHAUST HOOD TERMINATION AT EXTERIOR WALL IN ACCORDANCE WITH DRYER MANUFACTURER'S REQUIREMENTS. PROVIDE WALL CAP WITH BIRD FILTER.
- DUCT 14" DIA. UP TO ROOF EXHAUST FAN OPENING. TRANSITION TO HOOD COLLAR PER KITCHEN SPECIFICATIONS.
- DOAS UNIT SHALL CYCLE DOWN TO TEMPER KITCHEN WHILE HOODS ARE OFF.
- DUCT 8"x8" MAKEUP AIR DUCT TO ROOF HOOD. INTERLOCK MOTORIZED DAMPER WITH POWER OF DRYER.
- MAKEUP AIR DUCT TO BE DUCTED DOWN BEHIND DRYERS TO 20" AFF. COVER DUCT OPENING WITH 1/4" WIRE MESH.
- PROVIDE UL-705 LISTED DRYER BOOSTER FAN OF FANTECH DBF 110 OR APPROVED EQUIVALENT. FAN SHALL PROVIDE MINIMUM OF 160 CFM. INTERLOCK FAN WITH POWER OF DRYER.
- PROVIDE EXTERNAL LINT TRAP OF FANTECH DBLT 4W OR EQUIVALENT AT DRYER EXHAUST CONNECTION.
- MOUNT GRILLES ABOVE DOOR AND BELOW CEILING.
- DROP DUCT DOWN TO 8'-0" AFF TO ROUTE BELOW JANITOR CEILING AND UPPER STAIRCASE LANDING.
- ROUTE DRYER EXHAUST DUCT UP THRU ROOF. TERMINATE AS GOOSENECK. PROVIDE BIRDSCREEN AND BACK DRAFT DAMPER.



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



1 MECHANICAL FLOOR PLAN
SCALE: 3/32" = 1'-0"



Salas O'Brien
2900 S. Telephone Road, Suite 120
Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date: 6/30/2025
Salas O'Brien Project Number: 2450-70304-00

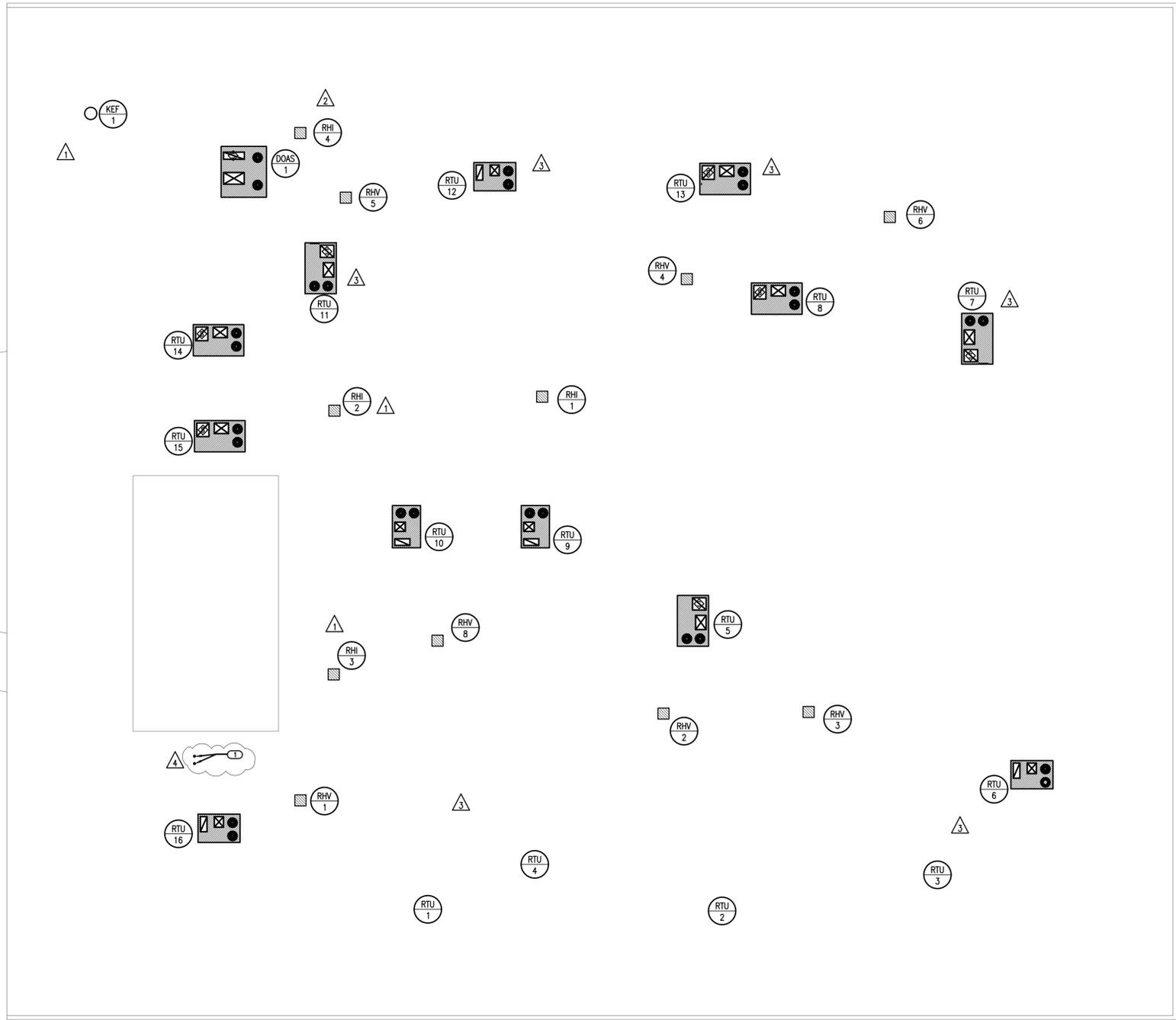


GENERAL NOTES

- ALL ROOF TOP EQUIPMENT TO BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ROOF EDGE.
- MAINTAIN A MINIMUM OF 10'-0" HORIZONTAL CLEARANCE BETWEEN ALL EXHAUST OUTLETS AND ANY FRESH AIR INTAKES.
- MOUNT ROOF CURBS LEVEL ON PITCHED ROOF.
- ALL ROOF SUPPORT SYSTEMS ARE TO BE MANUFACTURED FOR THE ROOF MATERIAL/SYSTEM TO BE INSTALLED. REFER TO ARCH PLANS FOR THE ROOF SYSTEM. CURB INSTALLATION TO BE WARRANTED BY ROOFING CONTRACTOR.
- ALL PENETRATIONS OVER 3 1/2 SQUARE INCHES OR 2 1/16 INCHES IN DIAMETER IN/OUT OF THE SHELTER REQUIRE SHROUD. REFER TO STRUCTURAL FOR ALL SHROUD DETAILS.
- MC IS RESPONSIBLE FOR ALL STRUCTURAL REQUIRED PENETRATION PROTECTION ITEMS FOR ALL MECHANICAL SYSTEMS PENETRATING THE SHELTER.
- ROUTE ALL CONDENSATE TO NEAREST OPEN SITE DRAIN.

KEYED NOTES

DRYER EXHAUST GOOSENECK TERMINATION.



drawn by

checked by

KF

OCTOBER 2024

date

DG

revisions

11/22/2024 AD 02

12/12/2024 AD 03

03/24/25 CB 05

04/24/25 CB 08



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M201

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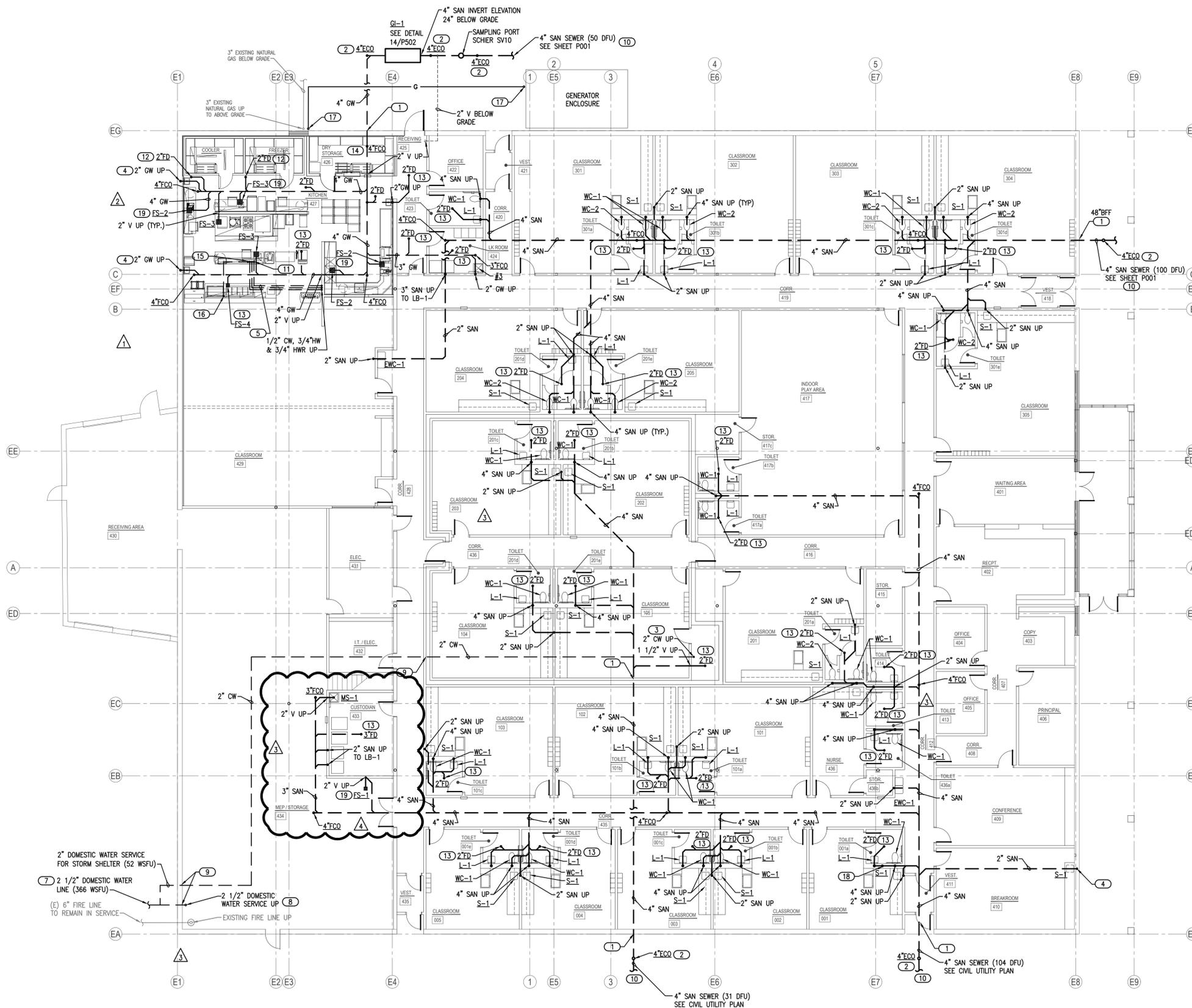


GENERAL NOTES

- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
- COORDINATE ALL BELOW GRADE PIPE ROUTING WITH STRUCTURAL FOUNDATIONS AND REQUIRED PIPE SLEEVES THRU FOUNDATION PENETRATIONS.
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- PRIOR TO COMMENCING WORK, COORDINATE WITH SITE CONTRACTOR FOR SANITARY SEWER AND WATER INVERT ELEVATIONS.
- REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES. REFER TO ISOMETRIC SHEETS P301 AND P302 FOR ADDITIONAL PIPE SIZES.
- PIPE TRENCHES SHALL HAVE SAND BEDDING TO A MINIMUM POINT 6" ABOVE THE TOP OF PIPE. REFER TO SPECIFICATIONS.
- TRAP PRIMER LINES SHALL BE COPPER TYPE "K" OR PEX-a TUBING WITH CONTINUOUS SLOPE TOWARDS DRAIN CONNECTION.
- COORDINATE WITH GENERAL CONTRACTOR FOR ALL REQUIRED FLOOR CUTTING AND PATCHING TO INSTALL NEW BELOW GRADE/FLOOR PIPING.
- INSTALL TRAP PRIMER LINES TO ALL FLOOR DRAINS AND FLOOR SINKS. SEE DETAIL 1/P501.

KEYED NOTES

- PROVIDE CAST IRON PIPE SLEEVE FOR SANITARY OR GREASE WASTE PIPE BELOW OR THRU FOUNDATION WALL OR GRADE BEAM. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
- INSTALL 4" EXTERIOR CLEANOUT IN CONCRETE PAD AT GRADE. COORDINATE INVERT ELEVATION WITH CIVIL. SEE DETAIL 4/P501.
- INSTALL PVC PIPE SLEEVE THRU CONCRETE FLOOR AND STUB UP 2" AFF FOR WATER LINE. INSTALL FOAM PIPE INSULATION ON WATER LINE IN SLEEVE. SEAL SLEEVE OPENINGS WATERTIGHT.
- ROUTE 2" SANITARY OR GREASE WASTE UP INTO FUR OUT OF EXISTING CMU WALL. COORDINATE PIPE ROUTING WITH EXISTING WALL FOOTING.
- ROUTE 1/2" CW, 3/4" HW AND 3/4" HWR (PEX-a TUBING) BELOW FLOOR TO COOK'S TABLE PREP SINK.
- REMOVE EXISTING BELOW GRADE 1 1/2" DOMESTIC WATER SERVICE PIPE FROM BUILDING OUT TO WATER METER CONNECTION. REPLACE WITH 2 1/2" PIPE. COORDINATE WORK WITH SITE CONTRACTOR AND CITY WATER UTILITY DEPARTMENT. SEE SHEET P001 FOR CONTINUATION.
- REMOVE EXISTING 1 1/2" DOMESTIC WATER SERVICE PIPE AND REPLACE WITH 2 1/2" PIPE. INSTALL PIPE IN PVC PIPE SLEEVE THRU CONCRETE FLOOR. INSULATE PIPE IN SLEEVE WITH CELLULAR FOAM INSULATION.
- COORDINATE WITH STRUCTURAL FOR ROUTING WATER LINE IN PIPE SLEEVE THRU FOOTING OR FOUNDATION WALL IN THIS AREA.
- COORDINATE 4" SANITARY SEWER CONNECTION TO EXISTING SEWER MANHOLE WITH SITE CONTRACTOR.
- ROUTE 1/2" CW, 3/4" HW AND 3/4" HWR (PEX-a TUBING) FROM BELOW FLOOR UP TO SERVE COOK'S TABLE PREP SINK. INSTALL PIPE SLEEVE AT FLOOR PENETRATION FOR WATER LINES. INSULATE WATER LINES WITH FOAM INSULATION IN SLEEVE. SEE SHEET P110 FOR CONTINUATION.
- INSTALL FUNNEL FASTENED TO STRAINER FOR CONDENSATE DRAIN LINES FROM FREEZER AND COOLER. MINIMUM FUNNEL HEIGHT 3" AND TOP DIAMETER 4". PROVIDE TRAP PRIMER LINE TO FLOOR DRAIN.
- INSTALL TRAP PRIMER LINE TO FLOOR DRAIN. SEE DETAIL 1/P501.
- INSTALL 4" FLOOR CLEANOUT AND ROUTE 4" GREASE WASTE DOWN AND THRU EXISTING WALL FOOTING. COORDINATE ROUTING WITH STRUCTURAL.
- ROUTE 1/2" HW (PEX-a TUBING) FROM BELOW FLOOR UP TO HW LINE SERVING SINK. INSTALL PIPE SLEEVE AT FLOOR PENETRATION FOR WATER LINES. INSULATE WATER LINE WITH FOAM INSULATION IN SLEEVE.
- ROUTE 1/2" HW (PEX-a TUBING) FROM BELOW FLOOR UP SERVING FOOD WELL FAUCET. INSTALL PIPE SLEEVE AT FLOOR PENETRATION FOR WATER LINES. INSULATE WATER LINE WITH FOAM INSULATION IN SLEEVE. SEE SHEET P110 FOR CONTINUATION.
- INSTALL 1" NATURAL GAS (2 PSI) ANODELESS GAS RISER FOR TRANSITION FROM BELOW GRADE MOPE TUBING TO ABOVE GRADE BLACK IRON PIPE. COORDINATE LOCATION ON SITE.
- ROUTE 3" SANITARY UP TO OPEN SITE DRAIN IN CHASE FOR CONDENSATE DRAIN LINES.
- ROUTE TRAP PRIMER LINE ABOVE FLOOR AND OVER FLOOR SINK WITH AIR GAP. SEE DETAIL 1/P501.



1 PLUMBING PLAN - BELOW GRADE
 SCALE: 3/32" = 1'-0"

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- KEYED NOTES**
- 36 INSTALL 120 GALLON VERTICAL PROPANE TANK WITH SUPPORT STRAP FASTENED TO WALL. INSTALL 2-STAGE PRESSURE REGULATOR WITH VENT PIPED TO ROOF WITH GOOSENECK. ROUTE 1" PROPANE GAS LINE WITH FLEXIBLE CONNECTION TO GENERATOR. (355 MBH, 10" W.C. PRESSURE). COORDINATE CONNECTION WITH GENERATOR SUPPLIER ON SITE. PRESSURE REGULATOR LOCATED 10'-0" FROM GENERATOR CONNECTION.
 - 37 DUAL FUEL GENERATOR WITH AUTOMATIC SWITCH OVER TO PROPANE WHEN UNIT SENSORS LOSS OF NATURAL GAS PRESSURE IN FUEL INLET 1.
 - 38 INSTALL 2" OPEN SITE DRAIN IN CHASE FOR CONDENSATE DRAIN LINES FROM RTU'S. CONNECT TO SANITARY SERVING LAVATORY. COORDINATE ROUTING WITH MC. COORDINATE WALL ACCESS PANEL WITH GC.
 - 39 INSTALL 1 1/2" OPEN SITE DRAIN IN SINK CABINET FOR CONDENSATE DRAIN LINES FROM RTU'S. CONNECT TO SANITARY SERVING SINK. COORDINATE ROUTING WITH MC.

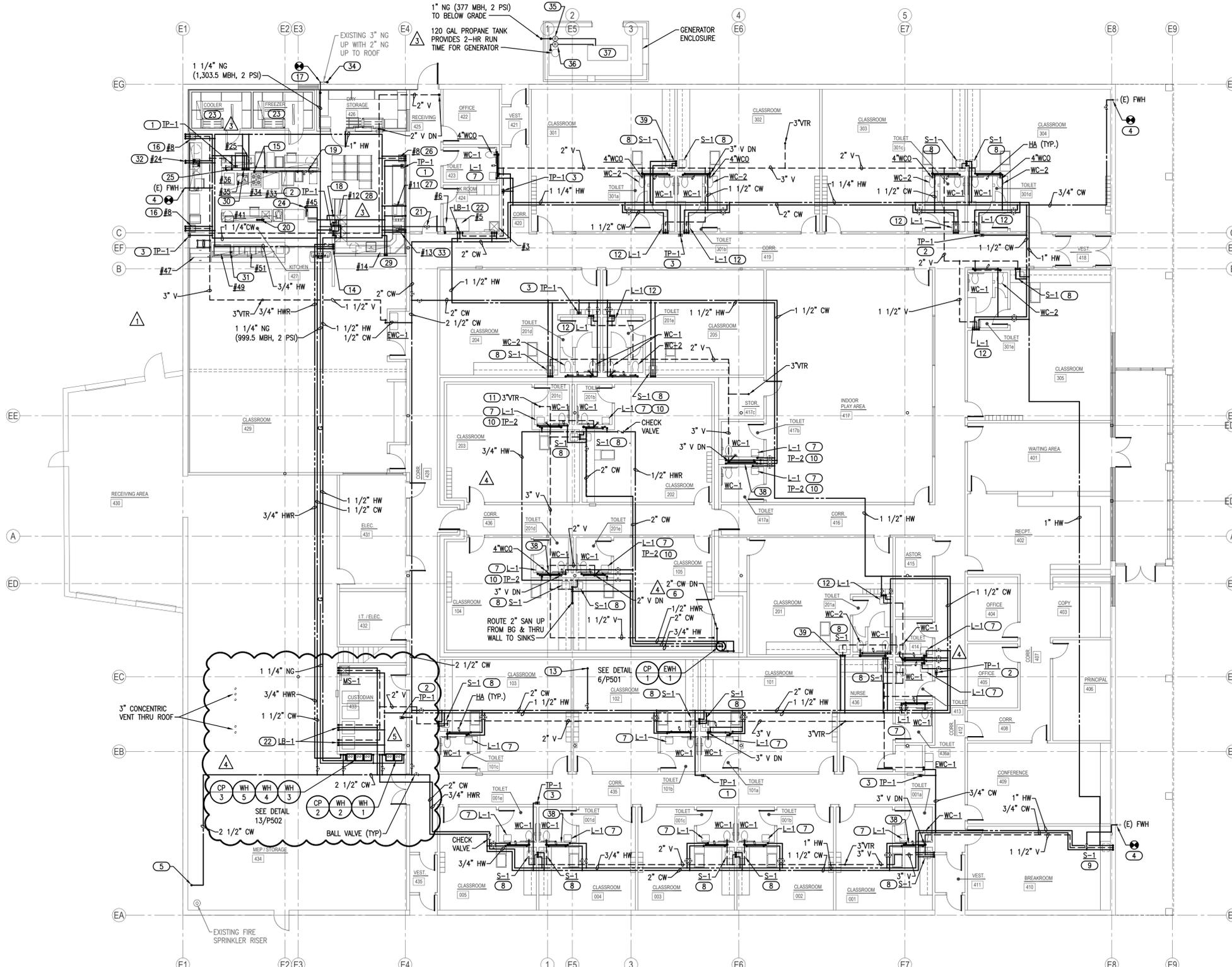
- KEYED NOTES**
- 32 ROUTE 1/2" CW AND 1/2" HW DOWN IN FUR OUT OF EXISTING CMU WALL TO SERVE PREP SINK #24 PROVIDED BY FSC. COORDINATE PIPE ROUTING WITH GC. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
 - 33 3/4" CW AND 3/4" HW DROPS IN WALL TO SERVE FAUCET AND HOSE REEL #13 PROVIDED BY FSC. ROUTE DRAIN LINE TO FLOOR SINK WITH AIR GAP. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
 - 34 CONNECT NEW 1" NATURAL GAS LINE (2 PSI) WITH LOCKABLE SHUT-OFF VALVE TO EXISTING 3" NATURAL GAS RISER AND ROUTE DOWN TO BELOW GRADE TO SERVE GENERATOR.
 - 35 INSTALL 1" NATURAL GAS (2 PSI) BALL VALVE, DRIP LEG, PRESSURE REGULATOR, UNION AND FINAL 1" CONNECTION (10" W.C. PRESSURE) WITH FLEXIBLE CONNECTION TO GENERATOR. COORDINATE CONNECTION WITH GENERATOR SUPPLIER ON SITE. PRESSURE REGULATOR LOCATED 10'-0" FROM GENERATOR CONNECTION.

- KEYED NOTES**
- 28 3/4" CW AND 3/4" HW DROPS IN WALL TO SERVE 2 FAUCETS AT #12 3-COMPARTMENT SINK PROVIDED BY FSC. ROUTE DRAIN LINES TO FLOOR SINK WITH AIR GAP. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION. SEE DETAIL 15/P502.
 - 29 ROUTE 3/4" CW AND 3/4" HW DOWN IN WALL TO BELOW COUNTERTOP. STUB OUT, INSTALL BALL VALVES AND CONNECT TO WATER TROUGH MIXING VALVE FURNISHED BY FSC. SEE FSC SHEET FS301.
 - 30 1/2" CW AND 1/2" HW DOWN IN WALL TO SERVE KETTLE #35 FAUCET PROVIDED BY FSC. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
 - 31 CONNECT 1/2" HW TO FAUCET AT SERVING COUNTER FOOD WELL. ROUTE 1/2" HW LINE DOWN WITH TRANSITION TO PEX TUBING TO BELOW FLOOR. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTIONS.

- KEYED NOTES**
- 24 ROUTE 1/2" CW DOWN TO WATER FILTER AND CONNECT TO ICE MAKER #45. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION. ICE MAKER PROVIDED BY KEC. ROUTE DRAIN LINE TO FLOOR DRAIN.
 - 25 INSTALL 3/4" CW DROP IN WALL TO SERVE CONVENTION STEAMER PROVIDED BY KEC. ROUTE DRAIN LINE TO FLOOR SINK WITH AIR GAP. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
 - 26 ROUTE 1/2" CW, 1/2" HW AND 2" VENT DOWN IN WALL TO SERVE HAND SINK PROVIDED BY KEC. PROVIDE THERMOSTATIC MIXING VALVE TMV-1 AND PIPE WRAP UNDER FIXTURE. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
 - 27 1/2" CW AND 3/4" HW DROPS IN WALL TO SERVE DISHWASHER #11 PROVIDED BY KEC. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION. PROVIDE WATER ARRESTORS, PRVs AND BALL VALVES ON WATER LINES IN ACCESSIBLE LOCATION. ROUTE DRAIN LINE TO FLOOR SINK.

- GENERAL NOTES**
- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
 - PROVIDE WATER HAMMER ARRESTORS (HA) ON WATER LINES TO FLUSH VALVES, AND QUICK CLOSING VALVES. LOCATE UNITS IN ACCESSIBLE LOCATIONS.
 - SINK AND LAVATORY WATER SUPPLY STUB OUTS SHALL BE COPPER PIPE WITH SUPPORT BRACKET FASTENED IN WALL CAVITY.
 - FIRE SEAL ALL PENETRATIONS THRU RATED STRUCTURES TO MAINTAIN FIRE RATING.
 - REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES. REFER TO ISOMETRIC SHEETS P301 AND P302 FOR ADDITIONAL PIPE SIZES.
 - PROVIDE ACCESS PANELS FOR ALL VALVES/DEVICES ABOVE HARD CEILINGS AND BEHIND WALLS.
 - ALL GAS PIPE SHALL COMPLY WITH IFCC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.
 - TRAP PRIMER LINES SHALL BE COPPER TYPE "K" OR PEX-a TUBING WITH CONTINUOUS SLOPE TOWARDS DRAIN CONNECTION.
 - FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

- KEYED NOTES**
- INSTALL ELECTRIC TRAP PRIMER ASSEMBLY (TP-1) ABOVE LAY-IN CEILING IN ACCESSIBLE LOCATION. ROUTE (4) 1/2" DISCHARGE LINES TO FLOOR DRAINS IN THIS AREA. COORDINATE POWER WITH EC. SEE DETAIL 1/P501.
 - INSTALL ELECTRIC TRAP PRIMER ASSEMBLY (TP-1) ABOVE LAY-IN CEILING IN ACCESSIBLE LOCATION. ROUTE (3) 1/2" DISCHARGE LINES TO FLOOR DRAINS OR FLOOR SINKS IN THIS AREA. COORDINATE POWER WITH EC. SEE DETAIL 1/P501.
 - INSTALL ELECTRIC TRAP PRIMER ASSEMBLY (TP-1) ABOVE LAY-IN CEILING IN ACCESSIBLE LOCATION. ROUTE (2) 1/2" DISCHARGE LINES TO FLOOR DRAINS IN THIS AREA. COORDINATE POWER WITH EC. SEE DETAIL 1/P501.
 - FIELD VERIFY LOCATION OF EXISTING WALL HYDRANT AND CONNECT NEW 3/4" CW TO EXISTING PIPE SERVING WALL HYDRANT.
 - ROUTE INSULATED 2 1/2" CW PIPE DOWN WITH BALL VALVE AT 24" AFF. AND CONNECT TO NEW WATER SERVICE.
 - ROUTE 2" CW PIPE DOWN TO BELOW FLOOR. INSTALL ACCESS PANEL IN BACK OF CABINET FOR BALL VALVE. SEE SHEET P101 FOR CONTINUATION.
 - ROUTE 1/2" CW, 1/2" HW AND 1 1/2" VENT IN CHASE TO SERVE LAVATORY. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW FIXTURE. SEE DETAIL 5/P501.
 - 1/2" CW, 1/2" HW AND 1 1/2" VENT DOWN IN WALL TO SERVE SINK. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW FIXTURE. SEE DETAIL 5/P501.
 - 1/2" CW, 1/2" HW AND 1 1/2" VENT DOWN INTO FUR OUT OF EXISTING CMU WALL TO SERVE SINK. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW FIXTURE. SEE DETAIL 5/P501. COORDINATE PIPE ROUTING WITH ARCHITECT AND GC.
 - INSTALL TRAP PRIMER (TP-2) UNDER LAVATORY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL 11/P501.
 - COORDINATE WITH STRUCTURAL FOR DEBRIS GUARD BELOW SHELTER ROOF FOR PLUMBING VENT ROOF PENETRATION.
 - 1/2" CW, 1/2" HW AND 1 1/2" VENT DOWN IN WALL TO SERVE LAVATORY. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW FIXTURE. SEE DETAIL 5/P501.
 - 3/4" CW UP TO ROOF HYDRANT. SEE SHEET P201 FOR CONTINUATION.
 - ROUTE 1/2" CW, 3/4" HW AND 3/4" HWR DOWN IN WALL WITH PEX TUBING TO BELOW FLOOR TO SERVE ISLAND PREP SINK.
 - ROUTE 1" NG (LOW PRESS) BEHIND EQUIPMENT AND PROVIDE 3/4" GAS TO KITCHEN EQUIPMENT (33 & 34) PROVIDED BY KEC. PROVIDE SHUT-OFF VALVE AND FINAL UNIT CONNECTION. SEE DETAIL 9/P501.
 - ROUTE 1/2" CW, 1/2" HW AND 2" VENT IN FUR OUT OF EXISTING CMU WALL TO SERVE HAND SINK (#8) PROVIDED BY KEC. PROVIDE THERMOSTATIC MIXING VALVE TMV-1 AND PIPE WRAP UNDER FIXTURE. COORDINATE PIPE ROUTING WITH GC.
 - CONNECT NEW 1 1/4" NATURAL GAS LINE (2 PSI) TO EXISTING 3" NATURAL GAS RISER AND ROUTE NEW LINE INTO BUILDING.
 - ROUTE 3/4" CW DOWN IN WALL WITH TRANSITION TO PEX TUBING TO BELOW FLOOR TO SERVE ICE MAKER PROVIDED BY KEC. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
 - INSTALL 3/4" NATURAL GAS (2 PSI) BALL VALVE AND PRESSURE REGULATOR (KITCHEN EQUIP). INSTALL GAS SOLENOID VALVE FURNISHED BY KITCHEN EQUIPMENT SUPPLIER AND COORDINATE POWER WITH EC TO INTERLOCK WITH EXHAUST HOOD FIRE SUPPRESSION SYSTEM. ROUTE 1" NG (LOW PRESS) TO KITCHEN EQUIPMENT.
 - ROUTE 1/2" CW, 3/4" HW AND 3/4" HWR UP FROM BELOW FLOOR, TRANSITION TO COPPER PIPE AND CONNECT TO COOK'S TABLE SINK PROVIDED BY KEC. ROUGH-IN AND PROVIDE FINAL UNIT CONNECTION.
 - INSTALL 1/2" BALL VALVE AND PRESSURE REGULATOR IN NATURAL GAS LINE SUPPLYING DRYER #6. PROVIDE 1/2" LOW PRESSURE GAS DOWN IN WALL TO GAS VALVE BOX (GVB-1) AND FLEXIBLE CONNECTION TO UNIT.
 - CLOTHES WASHER FURNISHED BY OTHERS. ROUGH-IN AND MAKE FINAL CONNECTION. PROVIDE 1/2" CW AND 1/2" HW LINES DOWN IN WALL TO LAUNDRY BOX. CONNECT FLEXIBLE SUPPLY LINES TO WASHER. ROUTE WASHER DRAIN LINE INTO WALL BOX DRAIN FITTING AND SECURE. COORDINATE WITH EQUIPMENT SUPPLIER.
 - COORDINATE WITH FOOD SERVICE CONTRACTOR FOR ROUTING CONDENSATE DRAIN LINES TO FLOOR DRAIN FROM FREEZER OR COOLER. SEE SHEET FS301.



1 PLUMBING PLAN - ABOVE GRADE
SCALE: 3/32" = 1'-0"



KS
drawn by
KP
checked by
OCTOBER 2024
date

revisions

- 11/22/2024 AD 02
- 12/12/2024 AD 03
- 01/14/2025 CB01
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CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:
P110

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Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date: 6/30/2025
Salas O'Brien Project Number: 2450-70304-00

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DWG
drawn by
TVO
checked by
OCTOBER 2024
date

- revisions
- 11/22/2024 AD 02
 - 12/12/2024 AD 03
 - 1/3/2025 AD 06
 - 3/17/2025 CB 03
 - 04/24/2025 CB 08



CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

E101

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GENERAL NOTES

- OCCUPANCY SENSOR LOCATIONS SHOWN ARE FOR DESIGN INTENT ONLY. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- CONNECT BATTERY PACKS TO UNSWITCHED HOT OF LOCAL LIGHTING CIRCUIT.
- COORDINATE WITH ALL ASSOCIATED TRADES FOR THE EXACT LOCATIONS OF LIGHT FIXTURES WITH HVAC EQUIPMENT AND OTHER DEVICES/EQUIPMENT.
- COORDINATE WITH THE ARCHITECT, OWNER, AND ASSOCIATED TRADES FOR THE EXACT HEIGHT/LOCATION OF EXTERIOR MOUNTED LIGHTING FIXTURES PRIOR TO ROUGH-IN.
- LABEL SWITCH PLATES AND J-BOXES WITH CIRCUIT PER SPECS.
- COORDINATE LIGHT SWITCHES WITH THERMOSTATS AND OTHER WALL MOUNT DEVICES.

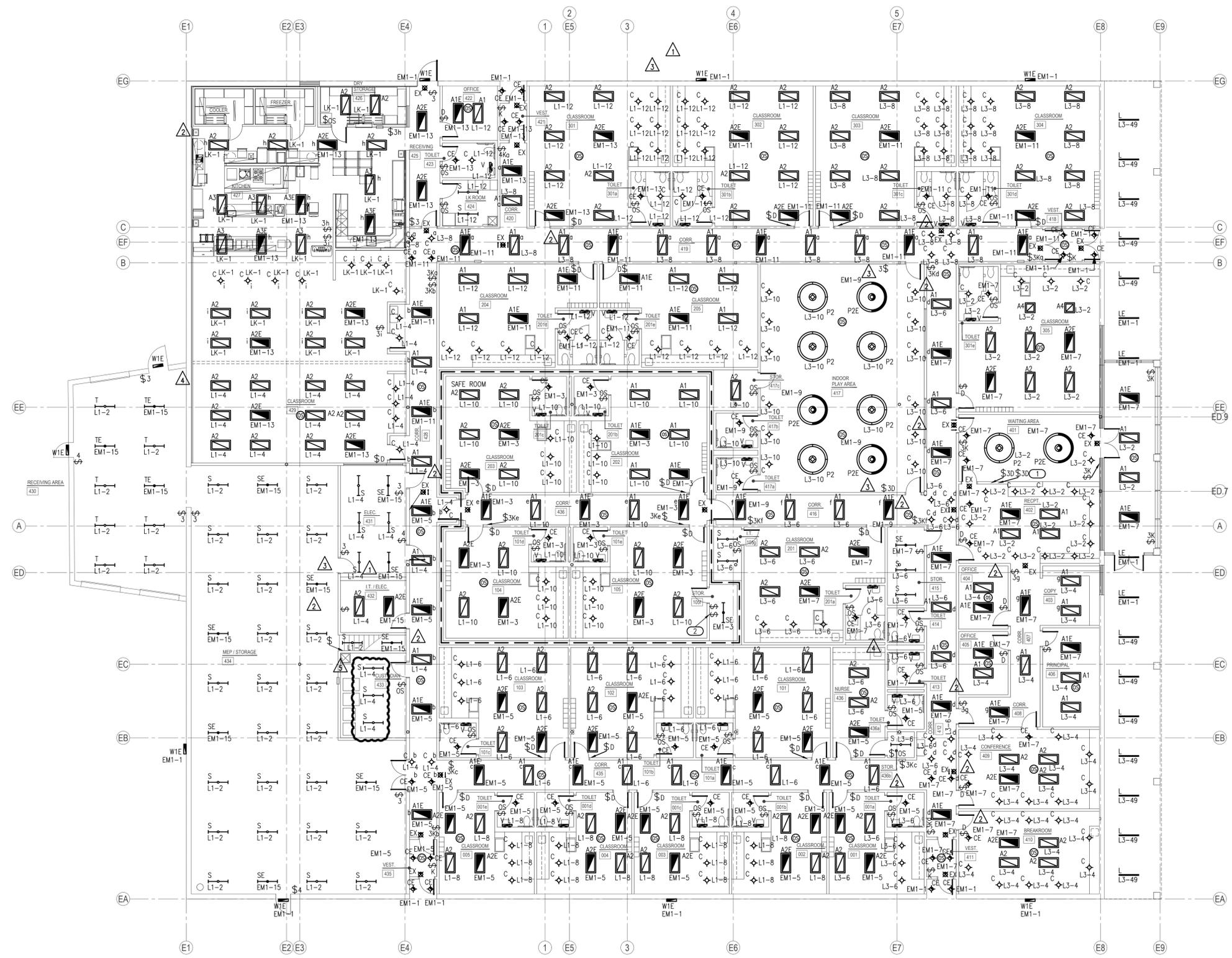


SAFEROOM GENERAL NOTES

- PER ICC 500-2014, 309.1:
PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
1. 3.5" SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
2. 2 1/16" IN DIAMETER
SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL. THIS INCLUDES PENETRATIONS FOR BUNDLES OF CONDUIT.

KEYED NOTES

- 1 LIGHT SWITCH FOR 'WAITING AREA 401' LIGHT FIXTURES.
 - 2 SUPPLY VENTILATION FAN SWITCH. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 3
-



1 ELECTRICAL LIGHTING PLAN
SCALE: 3/32" = 1'-0"



Salas O'Brien
2900 S. Telephone Road, Suite 120
Moore, OK 73160
Salas O'Brien Registration: CA# 7058
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GENERAL NOTES

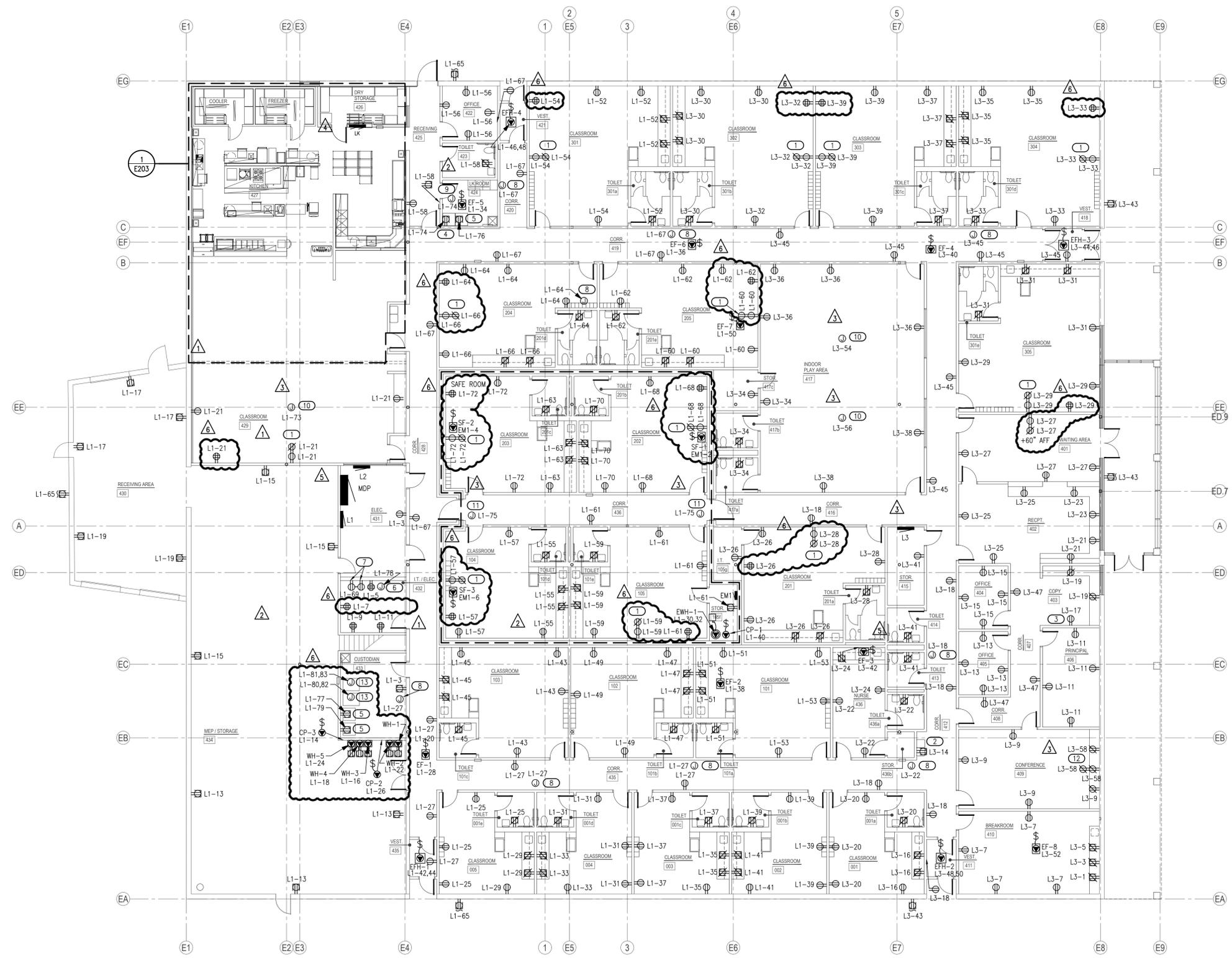
- COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATION OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.
- COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES.
- COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
- COORDINATE EXACT LOCATION OF PLUMBING EQUIPMENT WITH PLUMBING CONTRACTOR. REFER TO PLUMBING PLANS AND MANUFACTURER FOR ADDITIONAL INFORMATION.
- ALL RECEPTACLES LOCATED AT COUNTERTOP HEIGHT SHALL BE ORIENTED HORIZONTALLY.
- FIRE STOP ALL PENETRATIONS IN FIRE AND SMOKE RATED WALLS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND ADDITIONAL INFORMATION

SAFEROOM GENERAL NOTES

- PER ICC 500-2014, 309.1:
PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
1. 3.5" SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
2. 2 1/16" IN DIAMETER
SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL. THIS INCLUDES PENETRATIONS FOR BUNDLES OF CONDUIT.

KEYED NOTES

- PROVIDE 120V CONNECTION FOR SMARTBOARD. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH IN. REFER TO DETAIL '1/E502' FOR ADDITIONAL INFORMATION.
- PROVIDE 120V WATER COOLER DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, PLUMBING CONTRACTOR, AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
- PROVIDE 120V COPY MACHINE DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, OWNER, AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
- PROVIDE 120V GAS DRYER DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, OWNER AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH IN.
- PROVIDE 120V WASHER DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, OWNER AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH IN.
- PROVIDE 120V FIRE ALARM CONTROL PANEL. DEDICATED CONNECTION. COORDINATE RECEPTACLE TYPE AND LOCATION WITH FIRE ALARM CONTRACTOR.
- PROVIDE 120V TELECOM EQUIPMENT CONNECTION. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
- PROVIDE 120V CONNECTION FOR TRAP PRIMER. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE 120V CONNECTION FOR DRYER BOOSTER FAN. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR ON SITE.
- PROVIDE 120V CONNECTION FOR CEILING-MOUNTED PROJECTOR. COORDINATE EXACT LOCATION WITH LOW VOLTAGE CONTRACTOR.
- PROVIDE 120V CONNECTION FOR DOOR HOLD-OPEN SYSTEM. COORDINATE EXACT LOCATION WITH LOW VOLTAGE CONTRACTOR.
- PROVIDE 120V CONNECTION FOR TV. COORDINATE MOUNTING HEIGHT WITH ARCHITECT/OWNER.
- PROVIDE 208V ELECTRIC DRYER DEDICATED CONNECTION. COORDINATE WITH THE ARCHITECT, OWNER AND MANUFACTURER FOR THE EXACT LOCATION AND CONNECTION REQUIREMENTS PRIOR TO ROUGH IN.



1 ELECTRICAL POWER PLAN
SCALE: 3/32" = 1'-0"



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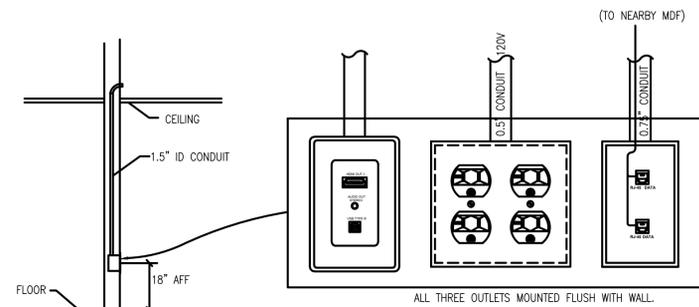
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| DWG | |
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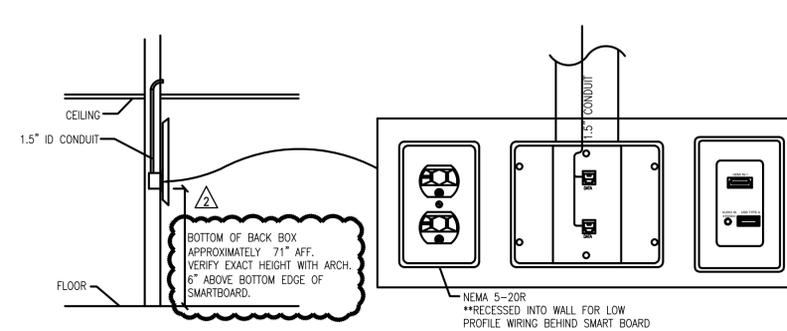
Salas O'Brien
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DATA & POWER OUTLET NEAR TEACHERS DESK

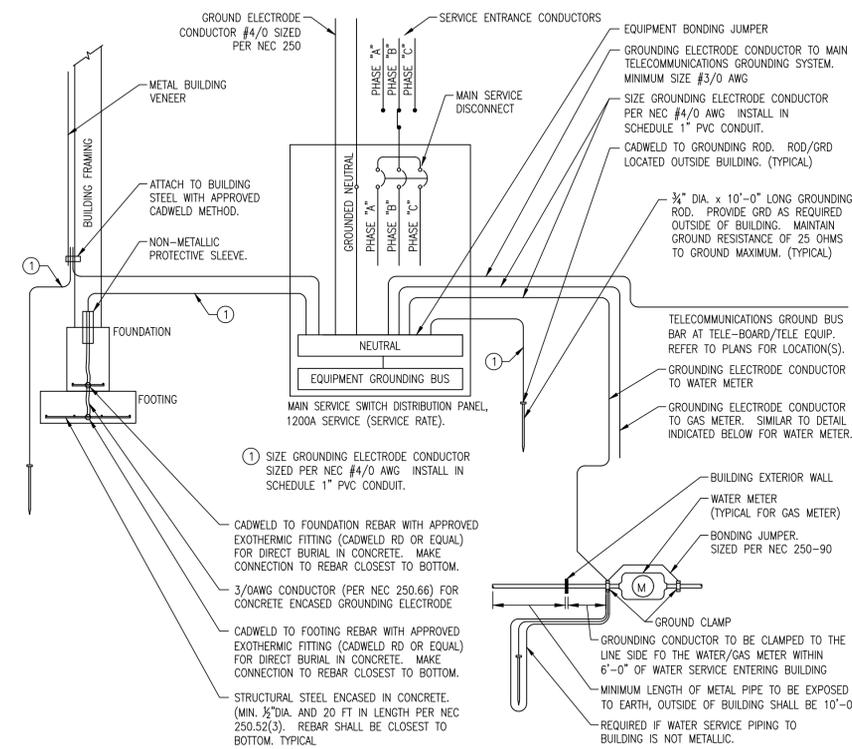


POWER OUTLET BEHIND SMARTBOARD



1 TEACHERS DESK & SMART BOARD WIRING DETAIL

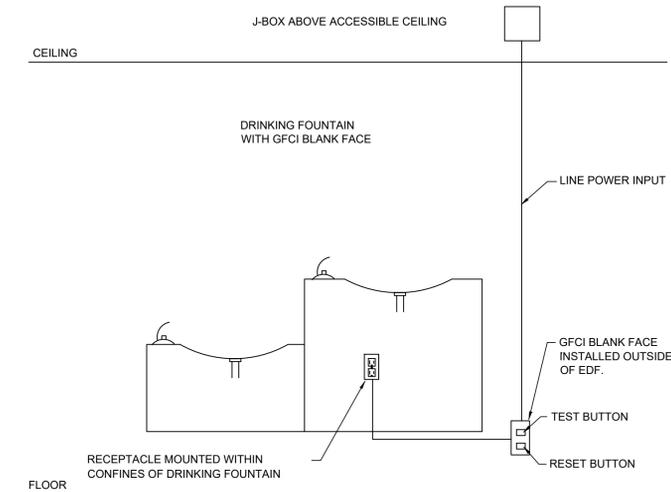
NO SCALE



NOTE:
ALL GROUNDING TO BE PROVIDED IN ACCORDANCE WITH NEC ARTICLE 250

3 MAIN ELECTRICAL GROUNDING DETAIL

NO SCALE



2 TYP. ELECTRICAL DRINKING FOUNTAIN DETAIL

NO SCALE



DWG _____
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checked by _____
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1 11/22/2024 AD 02
2 12/12/2024 AD 03
3 1/3/2025 AD 06
4 01/29/2025 CB 02
5 04/24/2025 CB 08



CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

E601

| Panel L3 | | ROOM MOUNTING SURFACE | VOLTS 208Y/120V 3P 4W | AIC 65,000 | BUS AMPS 225 | | MAIN BKR 225 | | LUGS STANDARD | | |
|---------------|---------|-----------------------|--|------------|-----------------------|----------|---|----------------------|---------------|--|--|
| CKT # | CKT BKR | LOAD KVA | CIRCUIT DESCRIPTION | CKT # | CKT BKR | LOAD KVA | CIRCUIT DESCRIPTION | NOTE [DOUBLE TUB 6"] | | | |
| 1 | 20/1 | 0.18 | RM 410 RECEPTACLE | a 2 | 20/1 | 0.73 | LIGHTING | | | | |
| 3 | 20/1 | 0.18 | RM 410 RECEPTACLE | b 4 | 20/1 | 0.619 | LIGHTING | | | | |
| 5 | 20/1 | 0.18 | RM 410 RECEPTACLE | c 6 | 20/1 | 0.838 | LIGHTING | | | | |
| 7 | 20/1 | 0.72 | RM 410 RECEPTACLE | a 8 | 20/1 | 0.918 | LIGHTING | | | | |
| 9 | 20/1 | 0.72 | RM 409 RECEPTACLE | b 10 | 20/1 | 0.99 | LIGHTING | | | | |
| 11 | 20/1 | 0.72 | RM 406 RECEPTACLE | c 12 | 20/1 | 0.72 | ROOFTOP RECEPTACLE | | | | |
| 13 | 20/1 | 0.72 | RM 405 RECEPTACLE | a 14 | 20/1 | 0.37 | WATER COOLER RECEPTACLE | | | | |
| 15 | 20/1 | 0.72 | RM 404 RECEPTACLE | b 16 | 20/1 | 0.54 | RM 1 RECEPTACLE | | | | |
| 17 | 20/1 | 1.2 | COPY MACHINE | c 18 | 20/1 | 1.09 | CORRIDOR 412 RECEPTACLE, CORRIDOR 416 RECEPTACLE, CORRIDOR 435 RECEPTACLE, RM 411 RECEPTACLE, TRAP PRIMER | | | | |
| 19 | 20/1 | 0.36 | RM 403 RECEPTACLE | a 20 | 20/1 | 0.72 | RM 1A RECEPTACLE, RM 1 RECEPTACLE | | | | |
| 21 | 20/1 | 0.36 | RM 402 RECEPTACLE | b 22 | 20/1 | 0.55 | RM 436 RECEPTACLE, RM 436 RECEPTACLE, TRAP PRIMER | | | | |
| 23 | 20/1 | 0.36 | RM 402 RECEPTACLE | c 24 | 20/1 | 0.36 | RM 436 RECEPTACLE | | | | |
| 25 | 20/1 | 0.54 | RM 402 RECEPTACLE | a 26 | 20/1 | 1.26 | RECEPTACLE, RM 105G RECEPTACLE, RM 201 RECEPTACLE | | | | |
| 27 | 20/1 | 0.9 | RM 401 RECEPTACLE | b 28 | 20/1 | 0.72 | RM 201A RECEPTACLE, RM 201 RECEPTACLE | | | | |
| 29 | 20/1 | 0.9 | RM 305 RECEPTACLE, SMARTBOARD | c 30 | 20/1 | 0.9 | RM 301B RECEPTACLE, RM 302 RECEPTACLE | | | | |
| 31 | 20/1 | 0.72 | RM 301E RECEPTACLE, RM 305 RECEPTACLE | a 32 | 20/1 | 0.72 | RM 302 RECEPTACLE, SMARTBOARD | | | | |
| 33 | 20/1 | 0.9 | RM 301D RECEPTACLE, RM 304 RECEPTACLE, SMARTBOARD | b 34 | 20/1 | 0.72 | RM 417A RECEPTACLE, RM 417B RECEPTACLE, RM 417C RECEPTACLE, RM 417 RECEPTACLE | | | | |
| 35 | 20/1 | 0.72 | RM 304 RECEPTACLE | c 36 | 20/1 | 0.72 | RM 417 RECEPTACLE | | | | |
| 37 | 20/1 | 0.72 | RM 301C RECEPTACLE, RM 303 RECEPTACLE | a 38 | 20/1 | 0.36 | RM 417 RECEPTACLE | | | | |
| 39 | 20/1 | 0.9 | RM 303 RECEPTACLE, SMARTBOARD | b 40 | 15/1 | 0.696 | EF-4 | | | | |
| 41 | 20/1 | 0.54 | RM 413 RECEPTACLE, RM 414 RECEPTACLE, RM 415 RECEPTACLE | c 42 | 15/1 | 0.696 | EF-3 | | | | |
| 43 | 20/1 | 0.54 | EXTERIOR RECEPTACLE, RECEPTACLE | a 44 | 20/2 | 2 | EFH-3 | | | | |
| 45 | 20/1 | 1.09 | CORRIDOR 412 RECEPTACLE, CORRIDOR 419 RECEPTACLE, RM 418 RECEPTACLE, TRAP PRIMER | b 46 | | | | | | | |
| 47 | 20/1 | 0.54 | CORRIDOR 407 RECEPTACLE, CORRIDOR 408 RECEPTACLE | c 48 | 20/2 | 2 | EFH-2 | | | | |
| 49 | 20/1 | 0.48 | LIGHTING | a 50 | | | | | | | |
| 51 | 20/2 | 1.12 | LIGHTING | b 52 | 15/1 | 0.696 | EF-8 | | | | |
| 53 | | | | c 54 | 20/1 | 0.5 | RM 417 PROJECTOR | | | | |
| 55 | 20/1 | 0 | SPACE | a 56 | 20/1 | 0.5 | RM 417 PROJECTOR | | | | |
| 57 | 20/1 | 0 | SPACE | b 58 | 20/1 | 0.54 | RM 409 RECEPTACLE | | | | |
| 59 | 20/1 | 0 | SPACE | c 60 | 20/1 | 0 | SPACE | | | | |
| 61 | 20/1 | 0 | SPACE | a 62 | 20/1 | 0 | SPACE | | | | |
| 63 | 20/1 | 0 | SPACE | b 64 | 20/1 | 0 | SPACE | | | | |
| 65 | 20/1 | 0 | SPACE | c 66 | 20/1 | 0 | SPACE | | | | |
| 67 | 20/1 | 0 | SPACE | a 68 | 20/1 | 0 | SPACE | | | | |
| 69 | 20/1 | 0 | SPACE | b 70 | 20/1 | 0 | SPACE | | | | |
| 71 | 20/1 | 0 | SPACE | c 72 | 20/1 | 0 | SPACE | | | | |
| 73 | 20/1 | 0 | SPACE | a 74 | 20/1 | 0 | SPACE | | | | |
| 75 | 20/1 | 0 | SPACE | b 76 | 20/1 | 0 | SPACE | | | | |
| 77 | 20/1 | 0 | SPACE | c 78 | 20/1 | 0 | SPACE | | | | |
| 79 | 20/1 | 0 | SPACE | a 80 | 20/1 | 0 | SPACE | | | | |
| 81 | 20/1 | 0 | SPACE | b 82 | 20/1 | 0 | SPACE | | | | |
| 83 | 20/1 | 0 | SPACE | c 84 | 20/1 | 0 | SPACE | | | | |
| | | CONN KVA | CALC KVA | | | CONN KVA | CALC KVA | | | | |
| LIGHTING | | 5.7 | 7.12 | (125%) | MOTORS | | 2.09 | 2.09 | (100%) | | |
| LARGEST MOTOR | | 0.696 | 0.174 | (25%) | RECEPTACLES | | 26.7 | 18.4 | (50%>10) | | |
| | | | | | HEATING | | 4 | 4 | (100%) | | |
| | | | | | TOTAL LOAD | | 31.7 | | | | |
| | | | | | BALANCED 3-PHASE LOAD | | 88.1 A | | | | |
| | | | | | PHASE A | | 97.8% | | | | |
| | | | | | PHASE B | | 104% | | | | |
| | | | | | PHASE C | | 97.7% | | | | |

| Panel L1 | | ROOM MOUNTING SURFACE | VOLTS 208Y/120V 3P 4W | AIC 65,000 | BUS AMPS 225 | | MAIN BKR MLO | | LUGS STANDARD | | |
|---------------|---------|-----------------------|---|------------|-----------------------|----------|--|------|---------------|--|--|
| CKT # | CKT BKR | LOAD KVA | CIRCUIT DESCRIPTION | CKT # | CKT BKR | LOAD KVA | CIRCUIT DESCRIPTION | NOTE | | | |
| 1 | 20/1 | 0.9 | ROOFTOP RECEPTACLE | a 2 | 20/1 | 1.28 | LIGHTING | | | | |
| 3 | 20/1 | 0.36 | RM 431 RECEPTACLE, RM 433 RECEPTACLE | b 4 | 20/1 | 1.04 | LIGHTING | | | | |
| 5 | 20/1 | 0.36 | I.T. RECEPTACLE | c 6 | 20/1 | 0.706 | LIGHTING | | | | |
| 7 | 20/1 | 0.36 | I.T. RECEPTACLE | a 8 | 20/1 | 0.48 | LIGHTING | | | | |
| 9 | 20/1 | 0.36 | I.T. RECEPTACLE | b 10 | 20/1 | 0.636 | LIGHTING | | | | |
| 11 | 20/1 | 0.36 | I.T. RECEPTACLE | c 12 | 20/1 | 1.06 | LIGHTING | | | | |
| 13 | 20/1 | 0.54 | RM 434 RECEPTACLE | a 14 | 20/1 | 0.528 | CP-3 | | | | |
| 15 | 20/1 | 0.54 | RM 434 RECEPTACLE | b 16 | 20/1 | 0.1 | WH-3 | | | | |
| 17 | 20/1 | 0.54 | RM 430 RECEPTACLE | c 18 | 20/1 | 0.1 | WH-4 | | | | |
| 19 | 20/1 | 0.36 | RM 430 RECEPTACLE | a 20 | 20/1 | 0.1 | WH-1 | | | | |
| 21 | 20/1 | 0.9 | RM 429 RECEPTACLE, SMARTBOARD | b 22 | 20/1 | 0.1 | WH-2 | | | | |
| 23 | 20/1 | 0 | SPACE | c 24 | 20/1 | 0.1 | WH-5 | | | | |
| 25 | 20/1 | 0.72 | RM 1E RECEPTACLE, RM 5 RECEPTACLE | a 26 | 20/1 | 0.528 | CP-2 | | | | |
| 27 | 20/1 | 0.93 | CORRIDOR 428 RECEPTACLE, CORRIDOR 435 RECEPTACLE, RM 435 RECEPTACLE, TRAP PRIMER | b 28 | 15/1 | 0.696 | EF-1 | | | | |
| 29 | 20/1 | 0.54 | RM 5 RECEPTACLE | c 30 | 30/2 | 4.5 | EFH-1 | | | | |
| 31 | 20/1 | 0.72 | RM 1D RECEPTACLE, RM 4 RECEPTACLE | a 32 | | | | | | | |
| 33 | 20/1 | 0.54 | RM 4 RECEPTACLE | b 34 | 15/1 | 0.696 | EF-5 | | | | |
| 35 | 20/1 | 0.54 | RM 3 RECEPTACLE | c 36 | 15/1 | 0.696 | EF-6 | | | | |
| 37 | 20/1 | 0.72 | RM 1C RECEPTACLE, RM 3 RECEPTACLE | a 38 | 15/1 | 0.696 | EF-2 | | | | |
| 39 | 20/1 | 0.72 | RM 1B RECEPTACLE, RM 2 RECEPTACLE | b 40 | 20/1 | 0.528 | CP-1 | | | | |
| 41 | 20/1 | 0.54 | RM 2 RECEPTACLE | c 42 | 20/2 | 2 | EFH-1 | | | | |
| 43 | 20/1 | 0.54 | RM 103 RECEPTACLE | a 44 | | | | | | | |
| 45 | 20/1 | 0.72 | RM 101C RECEPTACLE, RM 103 RECEPTACLE | b 46 | 20/2 | 2 | EFH-4 | | | | |
| 47 | 20/1 | 0.72 | RM 101B RECEPTACLE, RM 102 RECEPTACLE | c 48 | | | | | | | |
| 49 | 20/1 | 0.54 | RM 102 RECEPTACLE | a 50 | 15/1 | 0.696 | EF-7 | | | | |
| 51 | 20/1 | 0.72 | RM 101A RECEPTACLE, RM 101 RECEPTACLE | b 52 | 20/1 | 0.9 | RM 301A RECEPTACLE, RM 301 RECEPTACLE, RM 303 RECEPTACLE | | | | |
| 53 | 20/1 | 0.54 | RM 101 RECEPTACLE | c 54 | 20/1 | 0.72 | RM 301 RECEPTACLE, SMARTBOARD | | | | |
| 55 | 20/1 | 0.72 | RM 101D RECEPTACLE, RM 104 RECEPTACLE | a 56 | 20/1 | 0.72 | RM 422 RECEPTACLE | | | | |
| 57 | 20/1 | 0.72 | RM 104 RECEPTACLE | b 58 | 20/1 | 0.54 | RM 423 RECEPTACLE, RM 424 RECEPTACLE, RM 425 RECEPTACLE | | | | |
| 59 | 20/1 | 1.08 | RM 101E RECEPTACLE, RM 105 RECEPTACLE | c 60 | 20/1 | 0.9 | RM 205 RECEPTACLE | | | | |
| 61 | 20/1 | 0.9 | CORRIDOR 436 RECEPTACLE, RM 105F RECEPTACLE, RM 105 RECEPTACLE | a 62 | 20/1 | 0.9 | RM 201E RECEPTACLE, RM 205 RECEPTACLE | | | | |
| 63 | 20/1 | 0.72 | RM 201C RECEPTACLE, RM 203 RECEPTACLE | b 64 | 20/1 | 1.09 | RECEPTACLE, RM 201D RECEPTACLE, RM 204 RECEPTACLE, TRAP PRIMER | | | | |
| 65 | 20/1 | 0.54 | EXTERIOR RECEPTACLE | c 66 | 20/1 | 0.9 | RECEPTACLE, RM 204 RECEPTACLE | | | | |
| 67 | 20/1 | 1.1 | CORRIDOR 419 RECEPTACLE, CORRIDOR 428 RECEPTACLE, CORRIDOR 428 RECEPTACLE, RM 421 RECEPTACLE, TRAP PRIMER | a 68 | 20/1 | 0.9 | RM 202 RECEPTACLE | | | | |
| 69 | 20/1 | 0.36 | TELECOM EQ | b 70 | 20/1 | 0.72 | RM 201B RECEPTACLE, RM 202 RECEPTACLE | | | | |
| 71 | 20/1 | 0.72 | MEZZANINE RECEPTACLE | c 72 | 20/1 | 0.9 | RM 203 RECEPTACLE | | | | |
| 73 | 20/1 | 0.5 | RM 429 PROJECTOR | a 74 | 20/1 | 0.415 | DRYER, DRYER BOOSTER FAN | | | | |
| 75 | 20/1 | 0.02 | DOOR HOLD-OPEN SYSTEM, DOOR SPEAKER SYSTEM | b 76 | 20/1 | 0.84 | WASHER | | | | |
| 77 | 20/1 | 0.84 | WASHER | c 78 | 20/1 | 0.18 | FACP | | | | |
| 79 | 20/1 | 0.84 | WASHER | a 80 | 30/2 | 4.6 | DRYER | | | | |
| 81 | 30/2 | 4.6 | DRYER | b 82 | | | | | | | |
| 83 | | | | c 84 | 20/1 | 0 | SPACE | | | | |
| | | CONN KVA | CALC KVA | | | CONN KVA | CALC KVA | | | | |
| LIGHTING | | 5.2 | 6.5 | (125%) | MOTORS | | 5.56 | 5.56 | (100%) | | |
| LARGEST MOTOR | | 0.696 | 0.174 | (25%) | RECEPTACLES | | 44.2 | 27.1 | (50%>10) | | |
| | | | | | HEATING | | 8.5 | 8.5 | (100%) | | |
| | | | | | TOTAL LOAD | | 47.8 | | | | |
| | | | | | BALANCED 3-PHASE LOAD | | 133 A | | | | |
| | | | | | PHASE A | | 105% | | | | |
| | | | | | PHASE B | | 99.7% | | | | |
| | | | | | PHASE C | | 95.1% | | | | |

| Panel MDP | | ROOM MOUNTING SURFACE | VOLTS 208Y/120V 3P 4W | AIC 65,000 | BUS AMPS 1200 | | MAIN BKR 1200 | | LUGS STANDARD | | |
|---------------|---------|-----------------------|-----------------------|------------|-----------------------|----------|---------------------|--|---------------|--|--|
| CKT # | CKT BKR | LOAD KVA | CIRCUIT DESCRIPTION | CKT # | CKT BKR | LOAD KVA | CIRCUIT DESCRIPTION | NOTE PROVIDE INTEGRAL SPD, SHUNT TRIP MAIN BREAKER | | | |
| 1 | 225/3 | 63.5 | PANEL L1 | a 2 | 600/3 | 138 | PANEL L2 | | | | |
| 3 | | | | b 4 | | | | | | | |
| 5 | | | | c 6 | | | | | | | |
| 7 | 225/3 | 38.5 | PANEL L3 | a 8 | 400/3 | 93.3 | PANEL LK | | | | |
| 9 | | | | b 10 | | | | | | | |
| 11 | | | | c 12 | | | | | | | |
| 13 | 20/1 | 0 | SPACE | a 14 | 60/3 | 9.38 | TRANSFER SWITCH ATS | | | | |
| 15 | 20/1 | 0 | SPACE | b 16 | | | | | | | |
| 17 | 20/1 | 0 | SPACE | c 18 | | | | | | | |
| 19 | 20/1 | 0 | SPACE | a 20 | 20/1 | 0 | SPACE | | | | |
| 21 | 20/1 | 0 | SPACE | b 22 | 20/1 | 0 | SPACE | | | | |
| 23 | 20/1 | 0 | SPACE | c 24 | 20/1 | 0 | SPACE | | | | |
| 25 | 20/1 | 0 | SPACE | a 26 | 20/1 | 0 | SPACE | | | | |
| 27 | 20/1 | 0 | SPACE | b 28 | 20/1 | 0 | SPACE | | | | |
| 29 | 20/1 | 0 | SPACE | c 30 | 20/1 | 0 | SPACE | | | | |
| | | CONN KVA | CALC KVA | | | CONN KVA | CALC KVA | | | | |
| LIGHTING | | 16.7 | 20.9 | (125%) | MOTORS | | 236 | 236 | (100%) | | |
| LARGEST MOTOR | | 18 | 4.5 | (25%) | RECEPTACLES | | 75.3 | 42.7 | (50%>10) | | |
| | | | | | HEATING | | 15.3 | 15.3 | (100%) | | |
| | | | | | TOTAL LOAD | | 319 | | | | |
| | | | | | BALANCED 3-PHASE LOAD | | 885 A | | | | |
| | | | | | PHASE A | | 103% | | | | |
| | | | | | PHASE B | | 101% | | | | |
| | | | | | PHASE C | | 95.8% | | | | |

| Panel L2 | | ROOM MOUNTING SURFACE | VOLTS 208Y/120V 3P 4W | AIC 65,000 | BUS AMPS 600 | | MAIN BKR MLO | | LUGS STANDARD | | |
|----------|---------|-----------------------|-----------------------|------------|--------------|----------|---------------------|------|---------------|--|--|
| CKT # | CKT BKR | LOAD KVA | CIRCUIT DESCRIPTION | CKT # | CKT BKR | LOAD KVA | CIRCUIT DESCRIPTION | NOTE | | | |
| 1 | 25/3 | 5.48 | RTU-1 | a 2 | 35/3 | 7.21 | RTU-9 | | | | |
| 3 | | | | b 4 | | | | | | | |
| 5 | | | | c 6 | | | | | | | |
| 7 | 40/3 | 7.49 | RTU-2 | a 8 | 40/3 | 7.49 | RTU-10 | | | | |
| 9 | | | | b 10 | | | | | | | |
| 11 | | | | c 12 | | | | | | | |
| 13 | 25/3 | 5.48 | RTU-3 | a 14 | 50/3 | 13.3 | RTU-11 | | | | |
| 15 | | | | b 16 | | | | | | | |

drawn by

checked by

NY

OCTOBER 2024

gbs

NY

revisions

5 04/24/2025 CB08

4 03/17/2025 CB03

3 01/03/2025 AD 06

2 12/12/2024 AD 03

1 11/22/2024 AD 02



sheet no:

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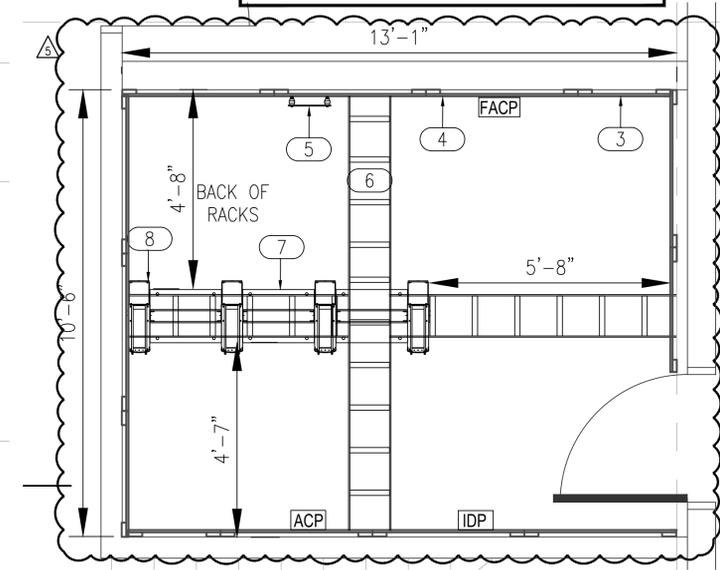
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GENERAL NOTES

- A. FIRE ALARM: CONNECT NEW FIRE ALARM DEVICES TO NEW SILENT KNIGHT 6820XL SUPPLY 6820XL PANEL AND ALL NAC PANELS, POWER SUPPLIES, ETC. NEEDED TO MAKE A COMPLETE AN CODE COMPLIANT SYSTEM. SYSTEM SHALL USE SK PROTOCOL DEVICES ONLY. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.
- B. SECURITY ALARM: CONNECT ALL NEW SECURITY ALARM DEVICES TO NEW DMP SECURITY ALARM PANEL. SUPPLY DMP PANEL AND ALL ZONE EXPANDERS, POWER SUPPLIES, ETC. NEEDED TO MAKE A COMPLETE SYSTEM. SYSTEM SHALL BE WIRED WITH 2 ZONES PER SINGLE DOOR OR DOUBLE DOOR. ONE ZONE FOR SECURITY ALARM AND ONE ZONE FOR DOOR HOLD OPEN ALERTS. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.
- C. INTERCOM: INTERCOM DEVICES SHALL BE RAULAND. CONNECT ALL NEW INTERCOM DEVICES TO EXISTING RAULAND TELECENTER U.I.P. SUPPLY ALL MASTER CONSOLES, AMPLIFIERS, POWER SUPPLIES, MODULES, CALL BUTTONS, ETC. NEEDED TO MAKE A COMPLETE SYSTEM. ROOM SPEAKERS AND RESTROOM SPEAKERS SHALL BE TIED TOGETHER ON ONE TALK ZONE PER ROOM CALL BUTTON. EACH ROOM WITH A CALL BUTTON SHALL HAVE A STATUS LIGHT INSTALLED ABOVE ROOM DOOR ON HALLWAY SIDES. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.
- D. CLOCKS: CLOCKS SHALL BE RAULAND. SEE SHEET SPECIFICATIONS FOR APPROVED PART NUMBERS.
- E. ACCESS CONTROL: CONNECT ALL NEW ACCESS CONTROL DEVICES TO NEW KEYSKAN CONTROLLERS. SUPPLY KEYSKAN CONTROLLERS AND ALL POWER SUPPLIES, READERS, STRIKES, ETC. NEEDED TO FURNISH A COMPLETE SYSTEM. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.
- F. CAMERA: CONNECT ALL NEW CAMERAS TO NEW MDF. CAMERA SYSTEM IS AVIGILON. CONTRACTOR TO PROVIDE DELL AVIGILON SERVER IN MDF ROOM LOCATED ON 2 POST RACK. CONTACT JACK PHILLIPS WITH MOORE PUBLIC SCHOOLS @ 405-473-5225 FOR EXACT CAMERA MOUNTING LOCATIONS AND SPECIFICATIONS. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.
- G. DATA: CONNECT NEW DATA, WIFI AND CAMERA NETWORK DROPS TO NEW MDF. CONNECT NEW DATA/MDF TO EXISTING IDF LOCATED IN MOORE HIGH SCHOOL CDD VIA FIBER AND CAT 6 CABLE. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.

KEYED NOTES

- 1 EXISTING LOCATION OF INCOMING SERVICE. EXISTING EQUIPMENT LOCATED ON WALL THAT WILL BE DEMOLISHED. EXISTING EQUIPMENT TO BE RELOCATED. REFERENCE ENLARGED PLAN FOR NEW LOCATION.
- 2 NOT USED.
- 3 INDICATES NEW DEMARC LOCATION. PLYWOOD IS RESERVED FOR SERVICE PROVIDER EQUIPMENT.
- 4 INDICATES THE LOCATION OF A 8" TALL, 3/4" FIRE RATED PLYWOOD CONTRACTOR TO PROVIDE AND INSTALL PLYWOOD AND ALL REQUIRED MOUNTING HARDWARE. PLYWOOD SHALL BE PAINTED WHITE WITH FIRE RATED PAINT. TYPICAL FOR ALL SHOWN ON DRAWING.
- 5 INDICATES THE LOCATION OF A NEW WALL MOUNTED TELECOMMUNICATION GROUND BUS BAR (TGBB). CABLING CONTRACTOR TO PROVIDE BUS BAR AND ALL REQUIRED MATERIAL TO MOUNT AT THE LOCATION SHOWN. TGBB TO BE MOUNTED AT +93" A.F.F.
- 6 PROVIDE AND INSTALL A 12" WIDE, UNIVERSAL LADDER TRAY AND ALL REQUIRED MOUNTING HARDWARE. LADDER TRAY SHALL BE BLACK IN COLOR. TYPICAL FOR ALL SHOWN ON ENTIRE PROJECT.
- 7 PROVIDE AND INSTALL ONE (1) 2-POST, FLOOR MOUNTED, 7' RELAY RACK (BLACK IN COLOR). PROVIDE BONDING WASHERS, BOLTS, AND NUTS AT ALL MECHANICALLY CONNECTED LOCATIONS OF THE RACK TO ENSURE THAT ALL PIECES OF THE RACK ARE COMPLETELY BONDED. SCRAPING PAINT FROM RACKS TO MAKE A BOND WILL NOT BE ACCEPTED. ALL RACK MOUNTED COMPONENTS SHALL BE MOUNTED WITH BONDING SCREWS AND THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (50) ADDITIONAL BONDING SCREWS FOR THE INSTALLATION OF OWNER EQUIPMENT. NO DASHY CHAINING GROUNDS FROM RACKS TO CABLE TRAY OR TO OTHER RACKS WILL BE ACCEPTED. ALL GROUNDS SHALL BE HOME RUN TO THE TELECOMMUNICATIONS GROUND BUS BAR (TGBB). TYPICAL FOR ALL SHOWN ON THE ENTIRE PROJECT.
- 8 PROVIDE AND INSTALL ONE (1) 7'X6", FRONT AND REAR MANAGED, VERTICAL CABLE MANAGER (BLACK IN COLOR). CABLE MANAGERS SHALL BE INSTALLED ON EACH END OF THE RACK SYSTEMS AND BETWEEN EACH RACK. CABLE MANAGERS SHALL HAVE A SINGLE, SOLID, FULL HEIGHT HINGED DOOR IN THE FRONT AND WIDE SPACED CABLE RINGS WITH SPIN-OPEN LATCHES IN THE REAR. TYPICAL FOR ALL SHOWN IN THE ENTIRE PROJECT.
- 9 DOOR HARDWARE SPECIFIED FOR INDICATED DOORS SHOULD HAVE KEY ACCESS FROM BOTH SIDES ALLOWING EACH SIDE TO BE LOCKED AND UNLOCKED INDEPENDENTLY.
- 10 CONTRACTOR TO PROVIDE AND INSTALL A DMP WIRELESS HOLD UP BUTTON AT EACH LOCATION INDICATED.



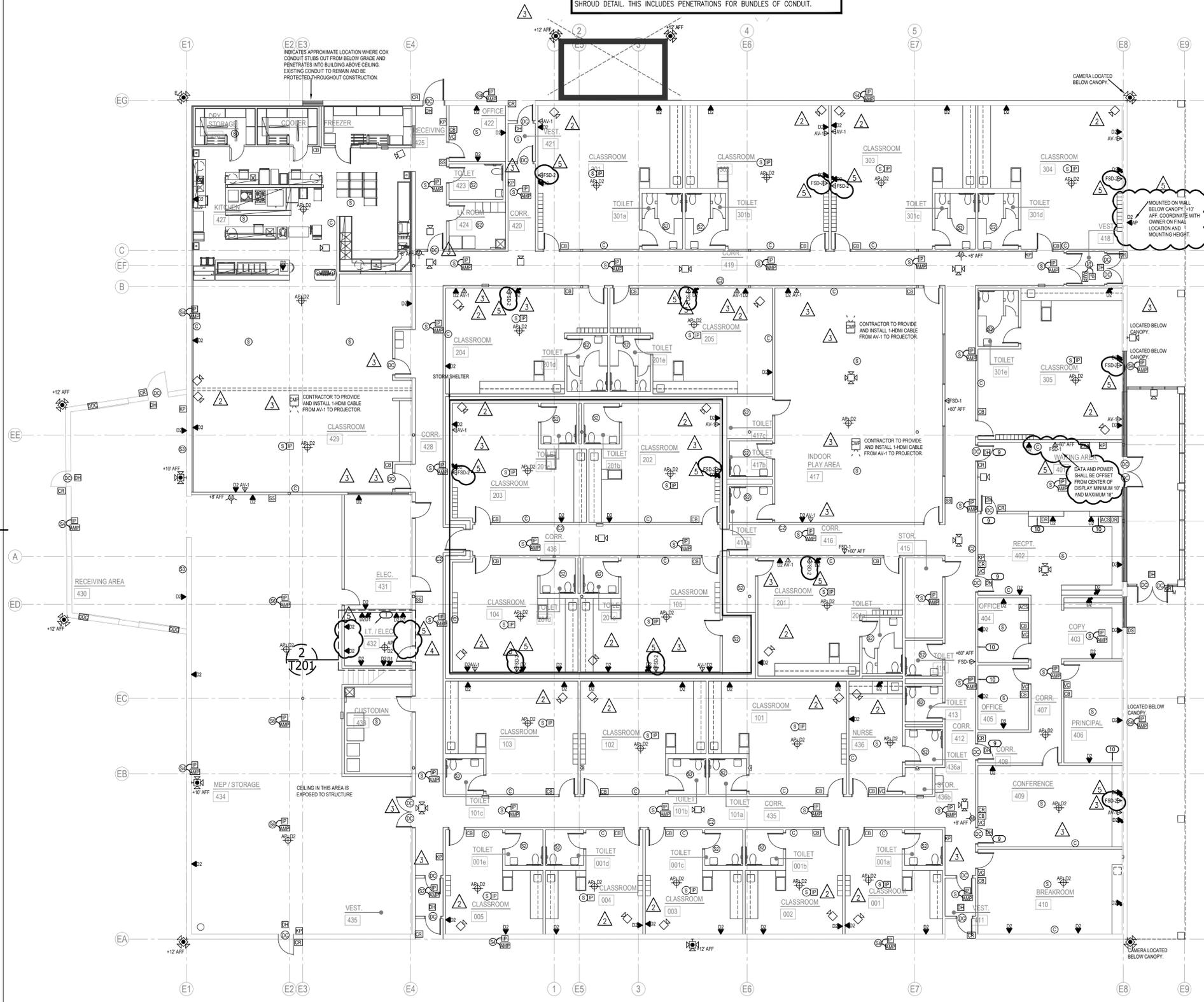
2 TECHNOLOGY ENLARGED PLAN - I.T./ELEC. 432
SCALE: 1/2" = 1'-0"

SAFEROOM NOTE

PER ICC 500-2014, 309.1:
PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
1. 3.5" SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
2. 2 1/16" IN DIAMETER
SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL. THIS INCLUDES PENETRATIONS FOR BUNDLES OF CONDUIT.

ACTIVE DAS HYBRID SYSTEM NOTE

CONTRACTOR TO PROVIDE AND INSTALL A COMPLETE AND FUNCTIONING DAS SYSTEM IN THE STORM SHELTER PORTION OF THE BUILDING.
CONTRACTOR SHALL PROVIDE AND INSTALL A CEL-FI QUATRA 4000c SYSTEM BY NEXITY.



1 TECHNOLOGY FLOOR PLANS
SCALE: 3/32" = 1'-0"



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Moore, OK 73160
Salas O'Brien Registration: CA# 7058
Expiration Date: 6/30/2025
Salas O'Brien Project Number: 2450-70304-00

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checked by
NY
OCTOBER 2024
date
NY

revisions
04/24/2025 CB08



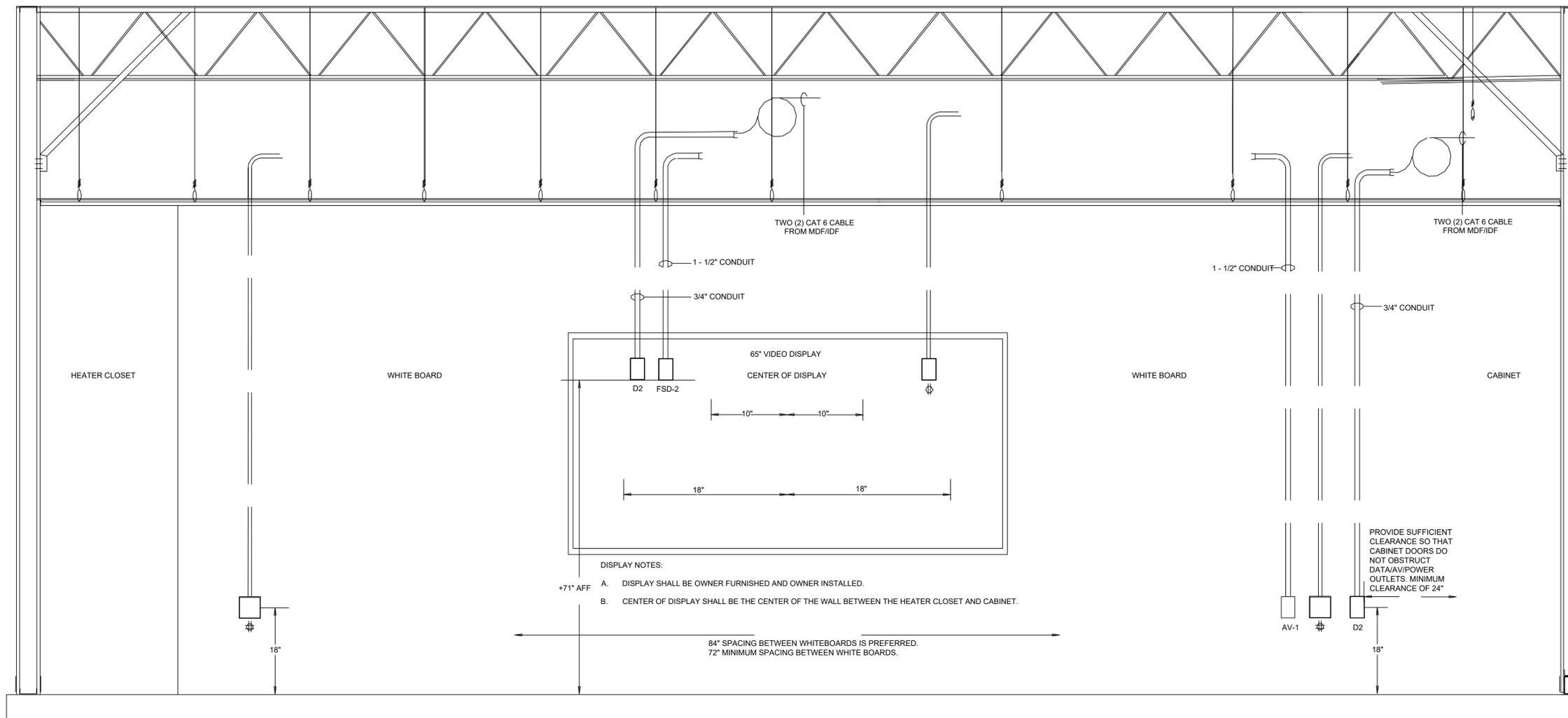
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201 N. EASTERN AVE.

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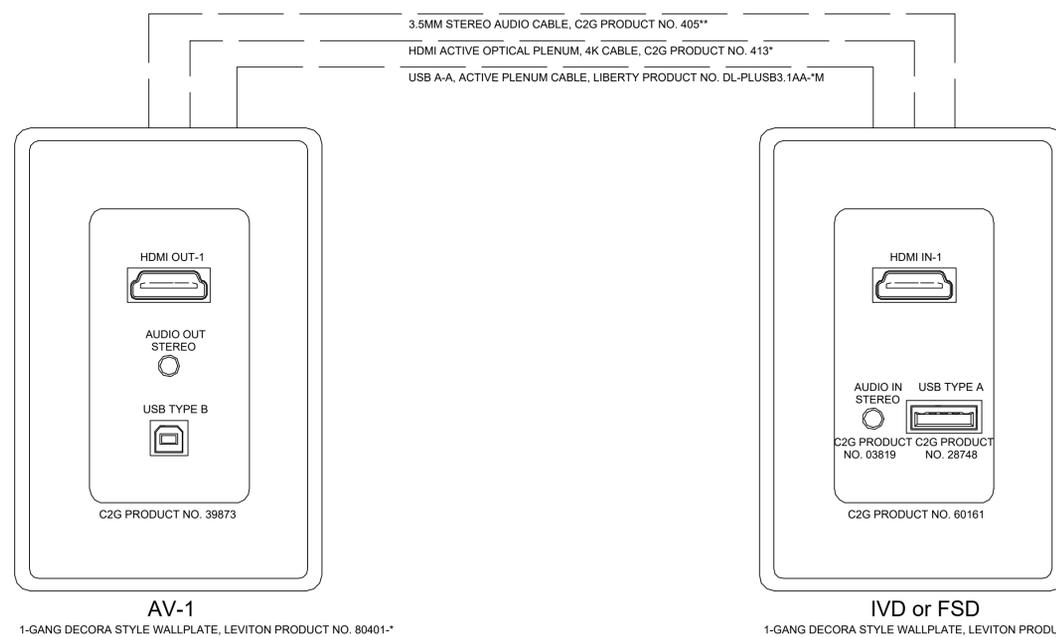
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Expiration Date: 09/30/2025
Salas O'Brien Project Number: 2450-70304-00



01 TYPICAL TECHNOLOGY WALL PRESENTATION

NOT TO SCALE



02 TYPICAL 'IVD' 'AV-1' OUTLET DETAIL

NOT TO SCALE