

# LEXINGTON FAYETTE URBAN COUNTY GOVERNMENT

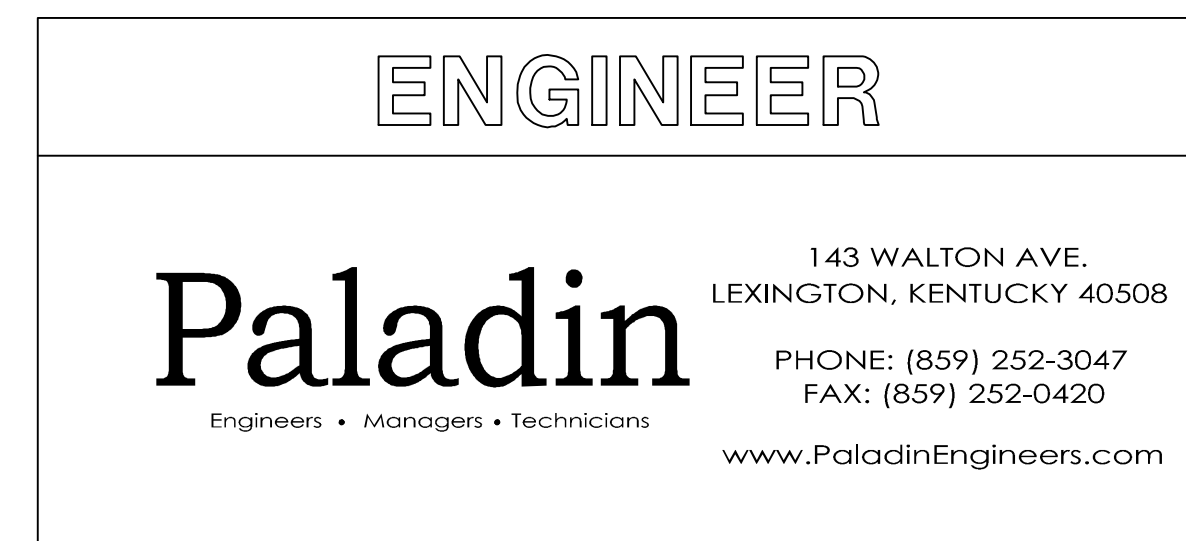
## BLACK & WILLIAMS COMMUNITY CENTER

### ADULT SERVICES DIVISION

498 GEORGETOWN ST.

LEXINGTON, KENTUCKY

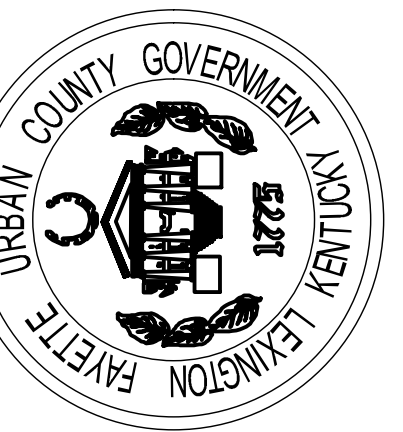
SEPTEMBER, 2011



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**Lexington Fayette Urban County Government**  
**Black and Williams**  
**Adult Services Division**  
**498 Georgetown Street**

**Cover Sheet**

APPROVED BY:  
MRB

DATE:  
1-10-2011

DRAWN BY:  
CLR

CHECKED BY:  
MRB

REVISION:  
9/1/11 BID DOCUMENT

WORK ORDER NO.

**SHEET NO:**

**G1.0**



**BASEMENT MECHANICAL DEMO PLAN**  
SCALE: 3/16" = 1'-0"

**Sheet Tagged Notes**

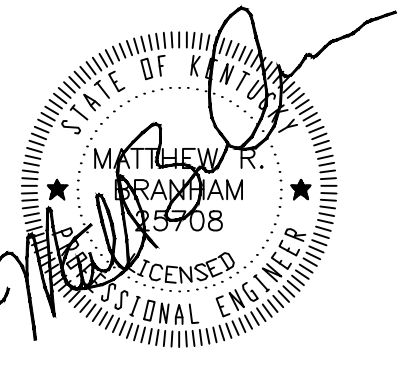
1. DEMO WATER TANK AND ASSOCIATED PIPING IN THIS AREA. DOMESTIC HOT WATER HEATER, SUMP PUMP, AND ASSOCIATED PIPING TO REMAIN.
2. DEMO LOW VOLTAGE PANEL IN THIS LOCATION. DEMO ELECTRICAL CIRCUITS BACK TO FEED PANEL.
3. DEMO STEAM UNIT HEATER, ASSOCIATED PIPING AND ELECTRICAL CIRCUIT. WIRING AND CONDUIT SHALL BE DEMO'D TO SOURCE.
4. DEMO THERMOSTAT AND CONTROLS WIRING BACK TO SOURCE.
5. DEMO STEAM BOILER, PIPING, FITTINGS AND ELECTRICAL CIRCUITS. SALVAGE WATER TREATMENT SYSTEM AND RETURN TO OWNER. OFFER STEAM BOILER TO OWNER FOR REUSE.
6. DEMO STEAM HEAT EXCHANGERS, PIPING AND FITTING AT THIS LOCATION. LIMIT WORK TO ACCESSIBLE AREAS. CAP ANY OPEN PIPE. SUMP PUMP AND PIPING TO REMAIN.
7. LOUVER AT THIS LOCATION TO REMAIN. SEAL FROM INTERIOR WITH 3/4" MOD EXTERIOR PLYWOOD (PAINTED TO MATCH), 8" BATT INSULATION, AND 3/4" MOD INTERIOR PLYWOOD.
8. DEMO WINDOW MOUNTED PTAC UNIT. OFFER UNIT TO OWNER FOR REUSE. REMOVE THE COMPLETE PANES OF GLASS THAT CONTAINED THE A/C UNITS. REPLACE THE GLASS PANES WITH MATCHING SAFETY WIRE GLASS OF SAME THICKNESS AND TINT AS THAT REMOVED.
9. DEMO CONDUIT & WIRING ON THIS WALL TO MAKE SPACE FOR NEW ELECTRICAL PANEL. ALSO REFERENCE NOTE ON SHEET E1.0.

**General Notes**

- A. PIPING, FITTINGS AND CONTROL WIRING ASSOCIATED WITH EQUIPMENT TO BE DEMO'D SHALL ALSO BE DEMO'D IF ACCESSIBLE. INACCESSIBLE PIPING SHALL BE DRAINED AND CAPPED.
- B. COORDINATE DEMO WORK WITH NEW WORK.
- C. ALL WORK SHALL COMPLY WITH LOCAL CODES.
- D. WHERE ELECTRICAL IS TO BE USED IN NEW WORK, DEMO BACK TO JUNCTION BOX AND SECURE IN SAFE MANNER. WHERE ELECTRICAL IS NOT TO BE REUSED, DEMO BACK TO SOURCE AND UPDATE PANEL DIRECTORIES.
- E. FIELD VERIFY ALL EXISTING CONDITIONS BEFORE BID DATE.
- F. WHERE CEILING GRID MUST BE REMOVED OR IS DAMAGED AS A RESULT OF DEMO OR NEW WORK (IN PART OR IN FULL) THE ENTIRETY OF THE GRID IN THAT ROOM SHALL BE REPLACED INCLUDING NEW TILES TO MATCH EXISTING. WHERE EXISTING TILES MUST BE REMOVED TO ALLOW FOR DEMO OR NEW WORK, CONTRACTOR SHALL STORE AND PROTECT TILES, OR WHEN DAMAGED REPLACE WITH NEW TILES TO MATCH EXISTING.
- G. AREAS WITH HAZARDOUS MATERIALS HAVE BEEN INDICATED BY OWNER ON SIGHT WITH SIGNAGE. DO NOT ENTER THESE AREAS WITH OUT AUTHORIZATION FROM THE OWNER AND PROPER WORKER PROTECTION EQUIPMENT. CONTRACTORS WHO DO ENTER THESE AREAS SHALL BE ASBESTOS CERTIFIED.

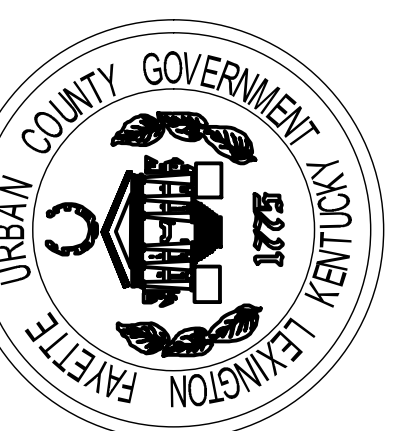
**Architectural Notes**

- RADIANT HEATER REMOVAL** REPAIR HOLES IN CONCRETE FLOORS WITH 4,000 PSI CONCRETE PLUS. GRIND SURFACE SMOOTH TO MATCH LEVEL OF SURROUNDING CONCRETE. PATCH FLOOR TILE TO CLOSELY MATCH EXISTING BY REPLACING WHOLE TILES.
- REPAIR HOLES IN WOOD FLOORS AS FOLLOWS.** REMOVE SECTIONS FINISH FLOOR AND SUBSTRATE FROM JOIST CENTERLINE TO JOIST CENTERLINE. REPLACE SUBSTRATE WITH INTERIOR A/B GRADE PLYWOOD. FINISH FINISH WOOD FLOORING WITH SPECIES, GRADE, AND WIDTH TO CLOSELY MATCH EXISTING. FINISH WOOD FLOORING TO BE REPLACED IN STRIPS NOT SHORTER THAN 16". SAND SMOOTH, AND THEN STAIN AND FINISH AS NECESSARY TO CLOSELY MATCH THE EXISTING FLOORING.
- REPAIR HOLES IN CONCRETE BLOCK WALLS AS FOLLOWS.** SAW-CUT ENTIRE BLOCK UNIT, CONTAINING THE HOLE, AT THE JOINTS AND REPLACE THE UNIT WITH A MATCHING STANDARD WEIGHT CONCRETE BLOCK OF SAME SIZE AND SIMILAR FINISH. TOOL JOINTS TO MATCH EXISTING. REPAINT COMPLETE AREA BEHIND REMOVED RADIANT HEATERS WITH LATEX PAINT TO MATCH EXISTING IN COLOR AND FINISH. FEATHER EDGES TO AVOID LINES BETWEEN NEW AND OLD PAINT.



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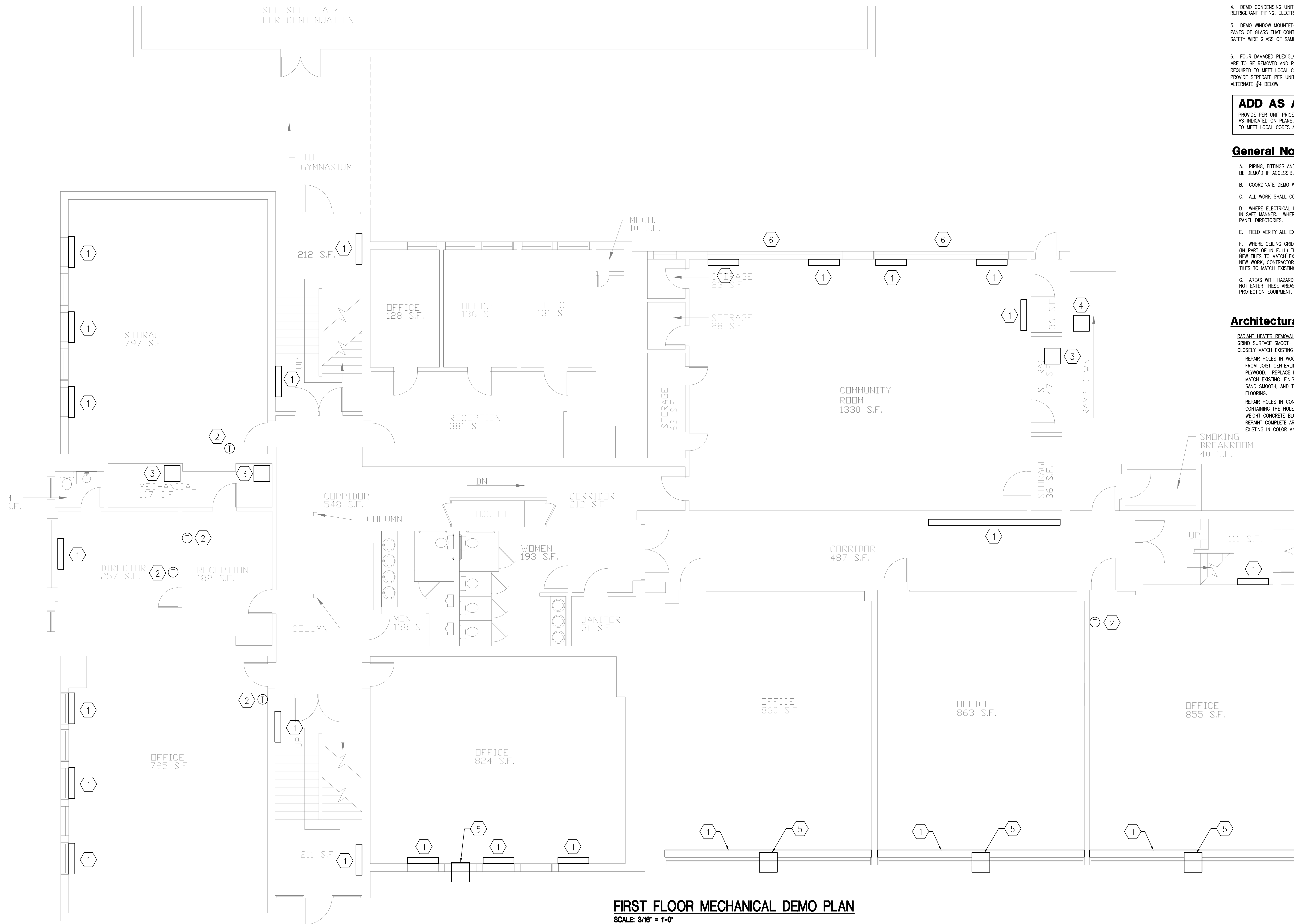


**Lexington Fayette Urban County Government**  
**Black and Williams**  
**Adult Services Division**  
**498 Georgetown Street**  
**Basement Mechanical Demo Plan**

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MRB  
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**SHEET NO:**  
**D1.0**





**FIRST FLOOR MECHANICAL DEMO PLAN**  
SCALE: 3/16" = 1'-0"

**Sheet Tagged Notes**

1. DEMO STEAM RADIATOR AND ASSOCIATED PIPING / FITTINGS THIS LOCATION. (REFER TO ARCH REPAIR NOTE BELOW)
2. DEMO THERMOSTAT AND CONTROLS WIRING THIS LOCATION.
3. DEMO INDOOR SPLIT SYSTEM UNIT. DEMO ASSOCIATED REFRIGERANT PIPING AND CONDENSER ON ROOF. OFFER MECHANICAL EQUIPMENT TO OWNER FOR REUSE. ELECTRICAL CIRCUIT, CONDENSATE PIPING, AND DUCTWORK TO REMAIN FOR FUTURE USE.
4. DEMO CONDENSING UNIT THIS LOCATION (APPROXIMATELY 10' ABOVE GRADE). DEMO ASSOCIATED REFRIGERANT PIPING, ELECTRICAL CIRCUIT, AND EQUIPMENT STAND.
5. DEMO WINDOW MOUNTED PTAC UNIT AND OFFER TO OWNER FOR REUSE. REMOVE THE COMPLETE PANES OF GLASS THAT CONTAINED THE A/C UNITS. REPLACE THE GLASS PANES WITH MATCHING SAFETY WIRE GLASS OF SAME THICKNESS AND TINT AS THAT REMOVED.
6. FOUR DAMAGED PLEXIGLASS WINDOW PANES AS DESIGNATED IN FIRST FLOOR COMMUNITY ROOM ARE TO BE REMOVED AND REPLACED. REPLACEMENT PANES TO BE CLEAR PLEXIGLASS OF THICKNESS REQUIRED TO MEET LOCAL CODES AND THE 2007 EDITION OF THE KENTUCKY BUILDING CODE (KBC). PROVIDE SEPARATE PER UNIT PRICE FOR REPLACEMENT OF REMAINING WINDOWS PANES. REFER TO ALTERNATE #4 BELOW.

**ADD AS ALTERNATE #4**

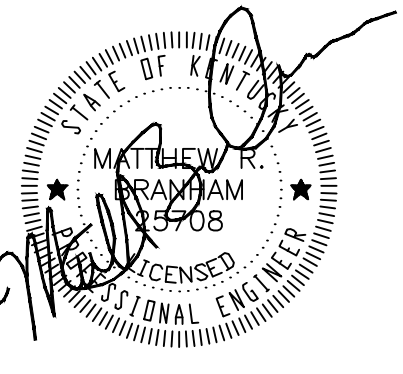
PROVIDE PER UNIT PRICE TO REPLACE UNDEGRADED WINDOW PANES IN FIRST FLOOR COMMUNITY ROOM AS INDICATED ON PLANS. REPLACEMENT PANES TO BE CLEAR PLEXIGLASS OF THICKNESS REQUIRED TO MEET LOCAL CODES AND THE 2007 EDITION OF THE KENTUCKY BUILDING CODE (KBC).

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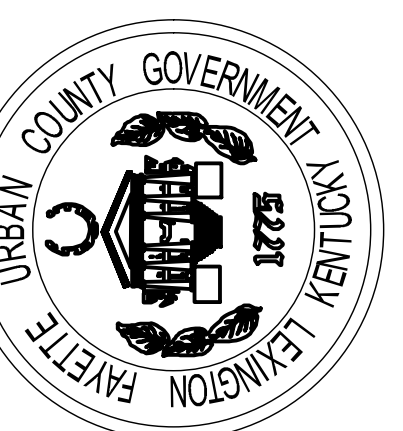
**Architectural Notes**

- RADIANT HEATER REMOVAL: REPAIR HOLES IN CONCRETE FLOORS WITH 4,000 PSI CONCRETE PLUGS. GRIND SURFACE SMOOTH TO MATCH LEVEL OF SURROUNDING CONCRETE. PATCH FLOOR TILE TO CLOSELY MATCH EXISTING BY REPLACING WHOLE TILES.
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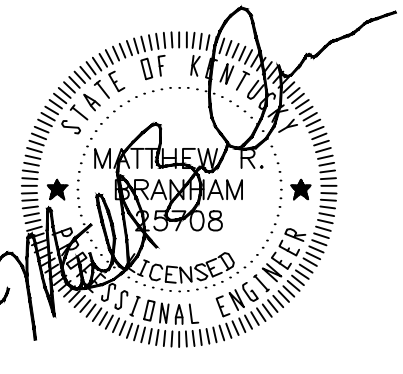


**Lexington Fayette Urban County Government**  
**Black and Williams**  
**Adult Services Division**  
**498 Georgetown Street**  
**First Floor Mechanical Demo Plan**

APPROVED BY:  
MRB  
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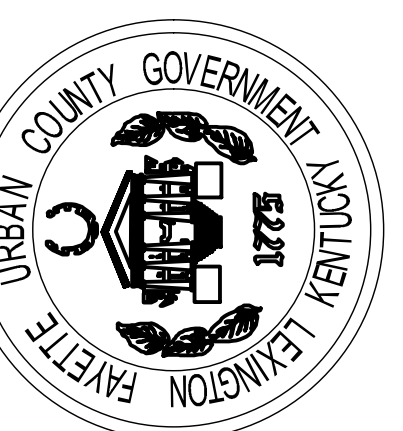
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**Second Floor Mechanical Demo Plan**

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**Sheet Tagged Notes**

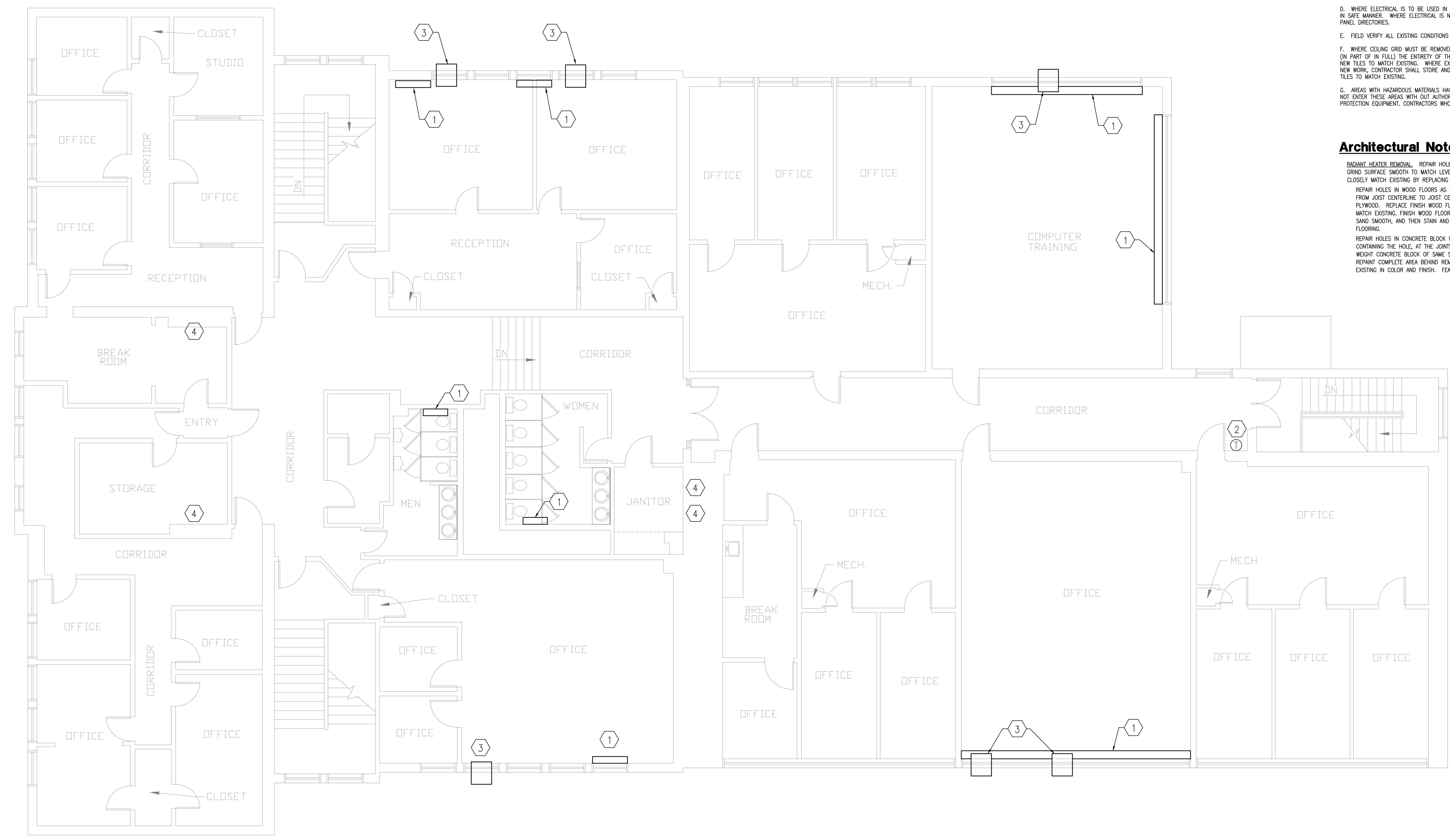
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4. CAP CHIMNEY ON ROOF ABOVE PER CHIMNEY CAP DETAIL ON SHEET M6.1.

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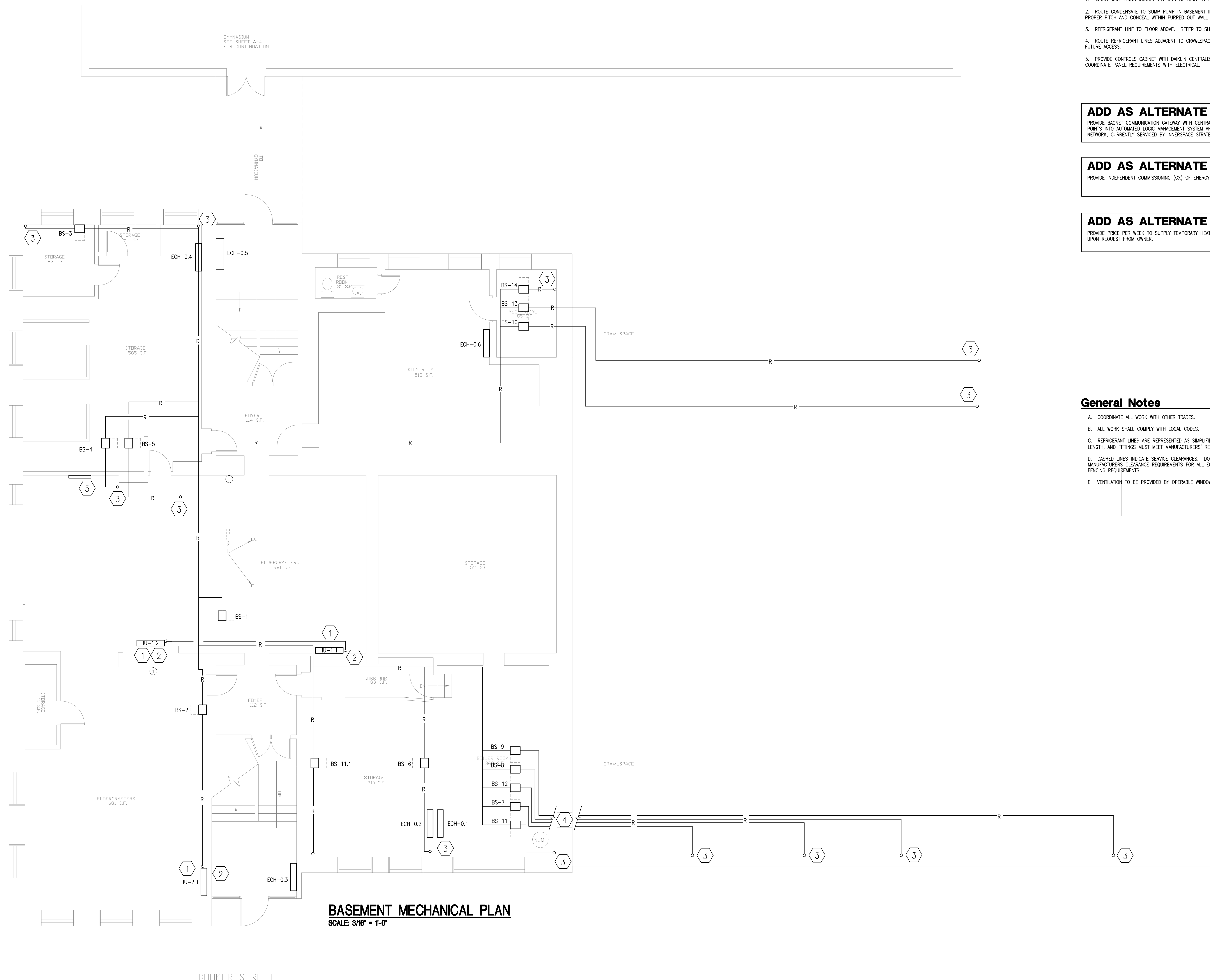
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- RADIANT HEATER REMOVAL.** REPAIR HOLES IN CONCRETE FLOORS WITH 4,000 PSI CONCRETE PLUGS. GRIND SURFACE SMOOTH TO MATCH LEVEL OF SURROUNDING CONCRETE. PATCH FLOOR TILE TO CLOSELY MATCH EXISTING BY REPLACING WHOLE TILES.
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**SECOND FLOOR MECHANICAL DEMO PLAN**  
SCALE 3/16" = 1'-0"





**BASEMENT MECHANICAL PLAN**  
SCALE 3/16" = 1'-0"

**Sheet Tagged Notes**

1. MOUNT WALL HUNG INDOOR VRF UNIT AS HIGH AS POSSIBLE.
2. ROUTE CONDENSATE TO SUMP PUMP IN BASEMENT IN INSULATED 3/4" COPPER PIPE. MAINTAIN PROPER PITCH AND CONCEAL WITHIN FURRED OUT WALL IF POSSIBLE. PAINT EXPOSED TO MATCH.
3. REFRIGERANT LINE TO FLOOR ABOVE. REFER TO SHEET M1.1 FOR CONTINUATION.
4. ROUTE REFRIGERANT LINES ADJACENT TO CRAWLSPACE ACCESS DOOR. MAINTAIN SPACE FOR FUTURE ACCESS.
5. PROVIDE CONTROLS CABINET WITH DAKLIN CENTRALIZED R/C DSC302C71 OR APPROVED EQUAL. COORDINATE PANEL REQUIREMENTS WITH ELECTRICAL.

**ADD AS ALTERNATE #1**

PROVIDE CABINET COMMUNICATION GATEWAY WITH CENTRALIZED CONTROLLER. INTEGRATE ALL CONTROL POINTS INTO AUTOMATED LOGIC MANAGEMENT SYSTEM AND TIE INTO EXISTING LFUCC AUTOMATED LOGIC NETWORK, CURRENTLY SERVICED BY INNERSPACE STRATEGIES, 859-266-5300.

**ADD AS ALTERNATE #2**

PROVIDE INDEPENDENT COMMISSIONING (CX) OF ENERGY RETROFIT INSTALLATION.

**ADD AS ALTERNATE #3**

PROVIDE PRICE PER WEEK TO SUPPLY TEMPORARY HEAT TO AFFECTED AREAS (NOT INCLUDING GYM) UPON REQUEST FROM OWNER.

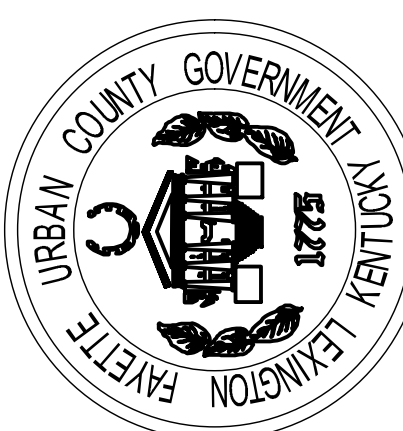
**General Notes**

- A. COORDINATE ALL WORK WITH OTHER TRADES.
- B. ALL WORK SHALL COMPLY WITH LOCAL CODES.
- C. REFRIGERANT LINES ARE REPRESENTED AS SIMPLIFIED FOR ROUTING PURPOSES ONLY. LINE SIZE, LENGTH, AND FITTINGS MUST MEET MANUFACTURERS' REQUIREMENTS.
- D. DASHED LINES INDICATE SERVICE CLEARANCES. DO NOT ENCROACH. PROVIDE FOR MANUFACTURERS' CLEARANCE REQUIREMENTS FOR ALL EQUIPMENT LOCATIONS INCLUDING PAD AND FENCING REQUIREMENTS.
- E. VENTILATION TO BE PROVIDED BY OPERABLE WINDOWS IN EACH SPACE.



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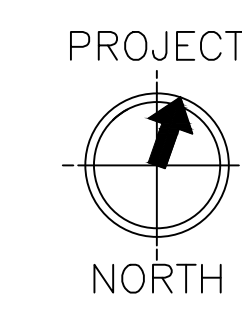
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**Basement Floor Plan**

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PROJECT  
NORTH  
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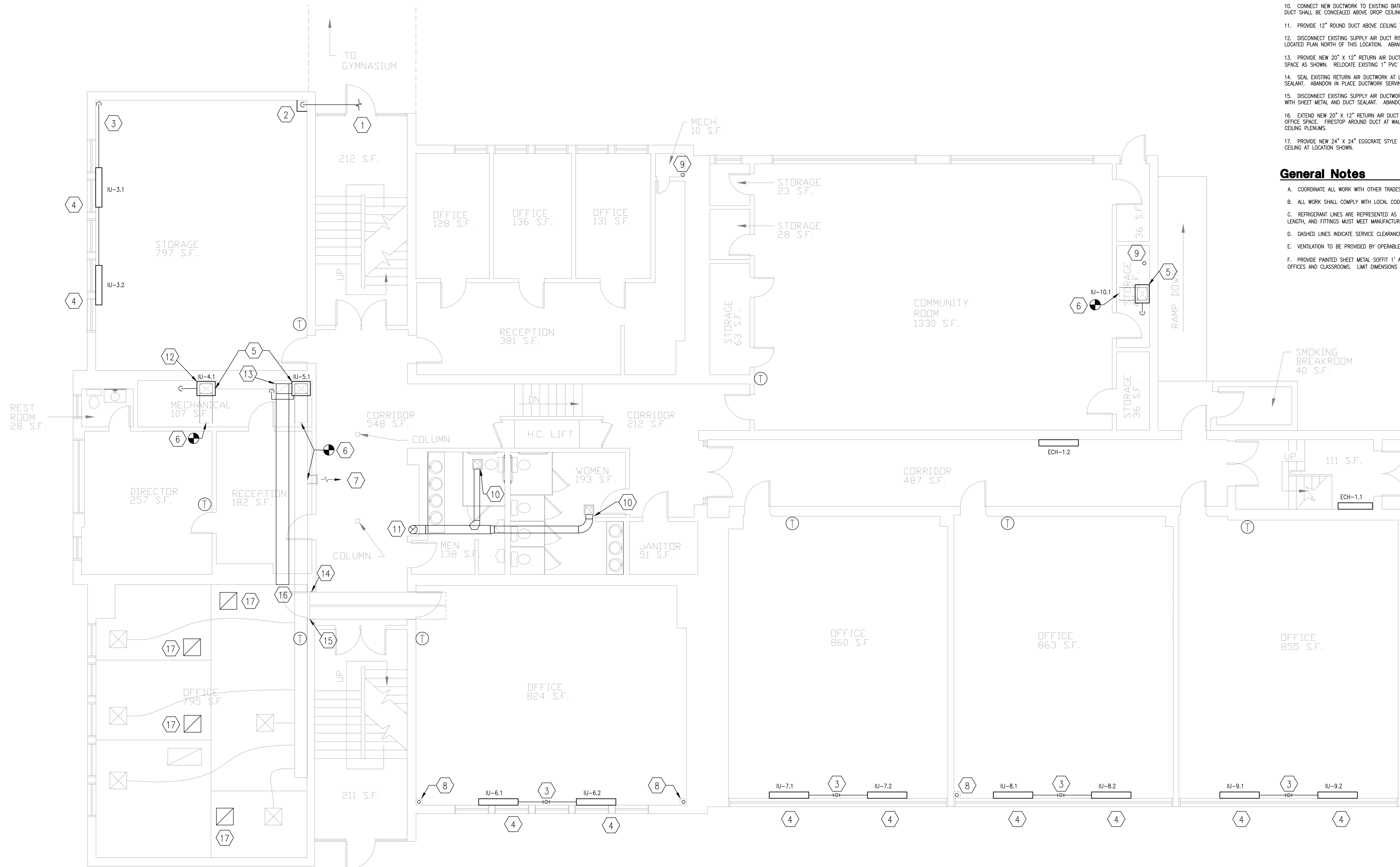


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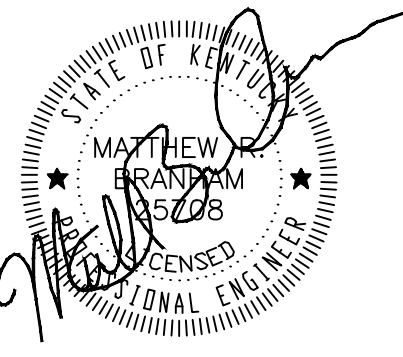
1. REFER TO SHEET M1.3 FOR CONTINUATION.
2. PENETRATE BUILDING ENVELOPE WITH REFRIGERANT LINES AT LOCATION SHOWN. SEAL PENETRATION TO MATCH EXISTING. ROUTE REFRIGERANT LINES DOWN TO BASEMENT, REFER TO SHEET M1.0. CONCEAL IN SHEET METAL ENCLOSURE PER GENERAL NOTE F.
3. REFRIGERANT LINE FROM BASEMENT BELOW, REFER TO SHEET M1.0. REFER TO GENERAL NOTE F FOR EXPOSED REFRIGERANT LINE.
4. ROUTE CONDENSATE TO GRADE PER DETAIL ON SHEET M6.1. MAINTAIN PROPER PITCH AND CONCEAL WITHIN FURRED OUT WALL IF POSSIBLE. PAINT EXPOSED PIPE TO MATCH WALL COLOR.
5. PROVIDE NEW VERTICAL INDOOR VRRV AHU AT LOCATION OF DEMO'D AHU. SET UNIT ON TOP OF EXISTING RETURN AIR FLOOR. PROVIDE NEW REFRIGERANT LINES TO BRANCH SELECTOR UNIT IN BASEMENT. UTILIZE EXISTING ELECTRICAL CIRCUIT AND CONDENSATE DRAIN.
6. CONNECT NEW DUCTWORK TO EXISTING DUCTWORK WHERE SHOWN.
7. TAP INTO EXISTING DUCTWORK. PROVIDE NEW 16"x8" SIDEWALL DIFFUSER WITH INTEGRAL BALANCING DAMPER EQUAL TO PRICE EQUAL MODEL.
8. ROUTE REFRIGERANT LINES FROM BASEMENT TO SECOND FLOOR. CONCEAL IN SHEET METAL CHASE PER GENERAL NOTE F. REFER TO SHEETS M1.0 AND M1.2 FOR CONTINUATION.
9. ROUTE REFRIGERANT LINES FROM BASEMENT TO SECOND FLOOR IN HVAC CLOSET. REFER TO SHEETS M1.0 AND M1.2 FOR CONTINUATION.
10. CONNECT NEW DUCTWORK TO EXISTING BATHROOM EXHAUST FAN AT LOCATION SHOWN. ALL DUCT SHALL BE CONCEALED ABOVE DROP CEILING.
11. PROVIDE 12" ROUND DUCT ABOVE CEILING TO SECOND FLOOR. REFER TO SHEET M1.2.
12. DISCONNECT EXISTING SUPPLY AIR DUCT RISER FROM DUCTWORK SERVING STORAGE SPACE, LOCATED PLAN NORTH OF THIS LOCATION. ABANDON UN-USED DUCTWORK IN PLACE.
13. PROVIDE NEW 20" X 12" RETURN AIR DUCT FROM EXISTING RA PLENUM AT LOCATION SHOWN. RELOCATE EXISTING 1" PVC CONDENSATE LINE AS SHOWN.
14. SEAL EXISTING RETURN AIR DUCTWORK AT LOCATION SHOWN WITH SHEET METAL AND DUCT SEALANT. ABANDON IN PLACE DUCTWORK SERVING PLAN EAST OFFICE.
15. DISCONNECT EXISTING SUPPLY AIR DUCTWORK FROM MAIN TRUNK AND SEAL BOTH PENETRATIONS WITH SHEET METAL AND DUCT SEALANT. ABANDON IN PLACE DUCTWORK SERVING PLAN EAST OFFICE.
16. EXTEND NEW 20" X 12" RETURN AIR DUCT THRU WALL AND LEAVE OPEN TO PLENUM ABOVE OFFICE SPACE. FIRESTOP AROUND DUCT AT WALL PENETRATION TO PREVENT AIR TRANSFER BETWEEN CEILING PLENUMS.
17. PROVIDE NEW 24" X 24" EGGRATE STYLE RETURN AIR GRILLE EQUAL TO PRICE SERIES 80 IN CEILING AT LOCATION SHOWN.

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- D. DASHED LINES INDICATE SERVICE CLEARANCES. DO NOT ENCRUST.
- E. VENTILATION TO BE PROVIDED BY OPERABLE WINDOWS IN EACH SPACE.
- F. PROVIDE PAINTED SHEET METAL SOFFIT 1" AFF TO CONCEAL EXPOSED REFRIGERANT LINES IN OFFICES AND CLASSROOMS. LIMIT DIMENSIONS TO 1" X 6".

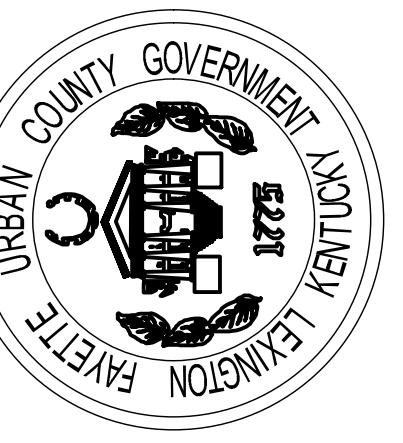


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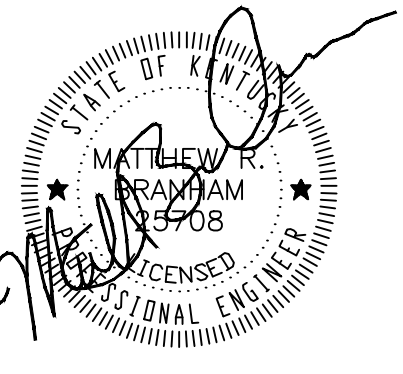


**Lexington Fayette Urban County Government**  
**Black and Williams**  
**Adult Services Division**  
**498 Georgetown Street**  
**First Floor Mechanical Plan**

APPROVED BY:  
MRB  
DATE:  
1-10-2011  
DRAWN BY:  
CLR  
CHECKED BY:  
MRB  
REVISION:  
9/1/11 BID DOCUMENT  
WORK ORDER NO.

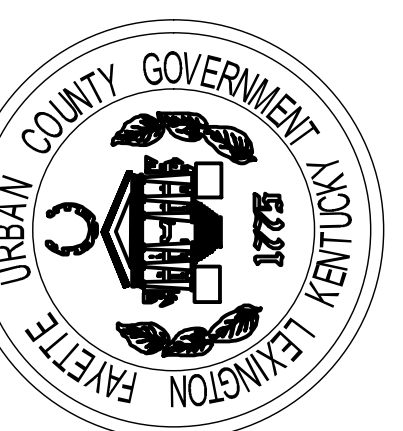
**SHEET NO:**  
**M1.1**





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**Black and Williams**  
**Adult Services Division**  
**498 Georgetown Street**  
**Second Floor Mechanical Plan**

APPROVED BY:  
 MRB  
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 1-10-2011  
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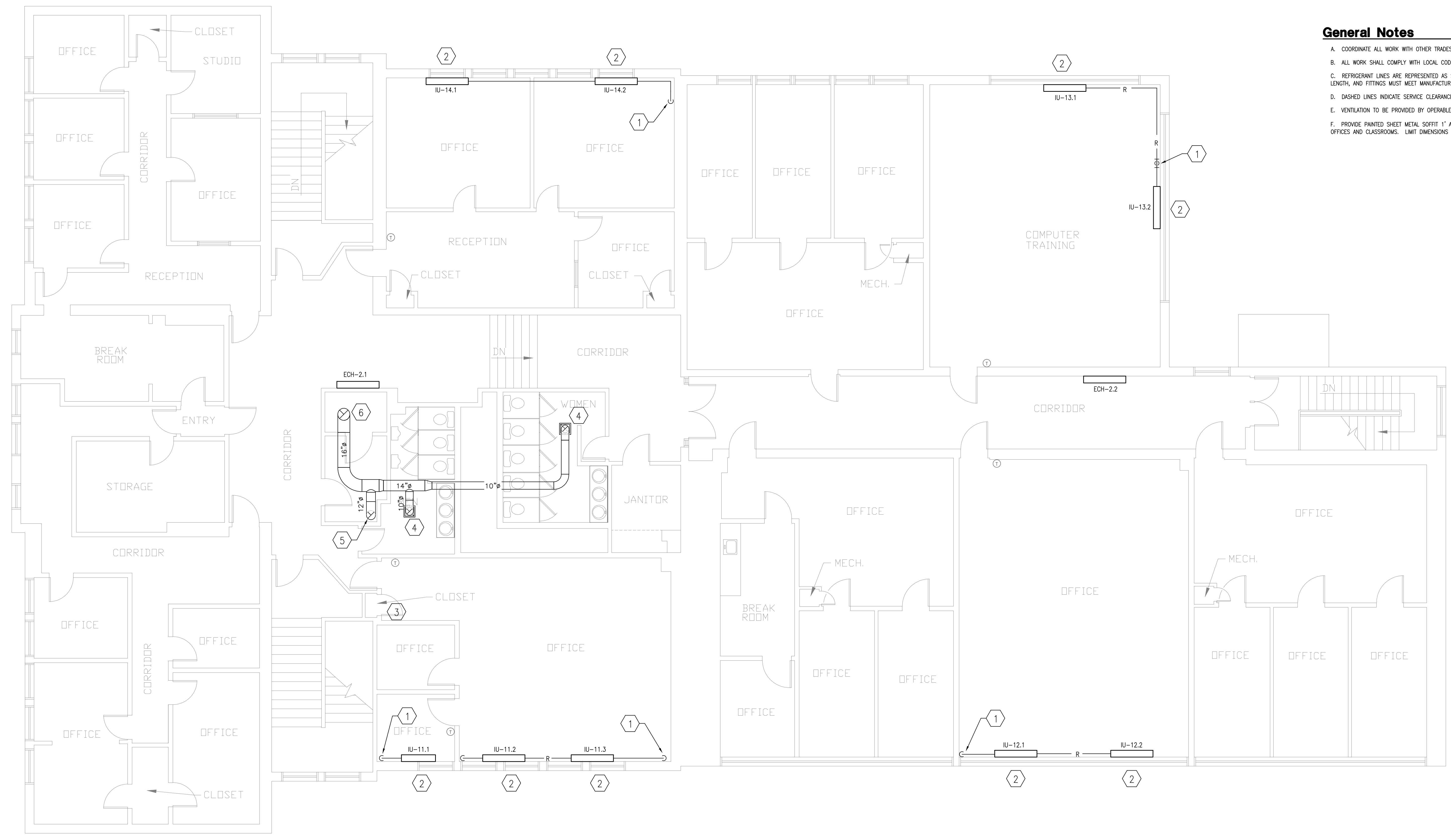
**SHEET NO:**  
**M1.2**

**Sheet Tagged Notes**

1. ROUTE REFRIGERANT LINE DOWN TO FLOOR BELOW IN CONCEALED SHEET METAL CHASE. REFER TO SHEET M1.1 FOR CONTINUATION.
2. ROUTE CONDENSATE PER DETAIL ON SHEET M6.1. MAINTAIN PROPER PITCH AND CONCEAL WITHIN FURRED OUT WALL IF POSSIBLE. IF EXPOSED, PAINT TO MATCH.
3. PROVIDE TWO (2) 10"x4" TRANSFER GRILLES IN EXISTING SOLID DOOR, ONE HIGH ONE LOW, EQUAL TO PRICE STG SERIES. INTENDED TO PROVIDE AIR CIRCULATION THROUGH SERVER CLOSET.
4. CONNECT NEW DUCTWORK TO EXISTING BATHROOM EXHAUST FAN AT LOCATION SHOWN. ALL DUCT SHALL BE CONCEALED ABOVE DROP CEILING.
5. PROVIDE 12" ROUND DUCT FROM FIRST FLOOR. REFER TO SHEET M1.1.
6. PROVIDE 16" ROUND DUCT TO EXISTING GENERAL EXHAUST HOOD ABOVE THIS LOCATION ON ROOF.

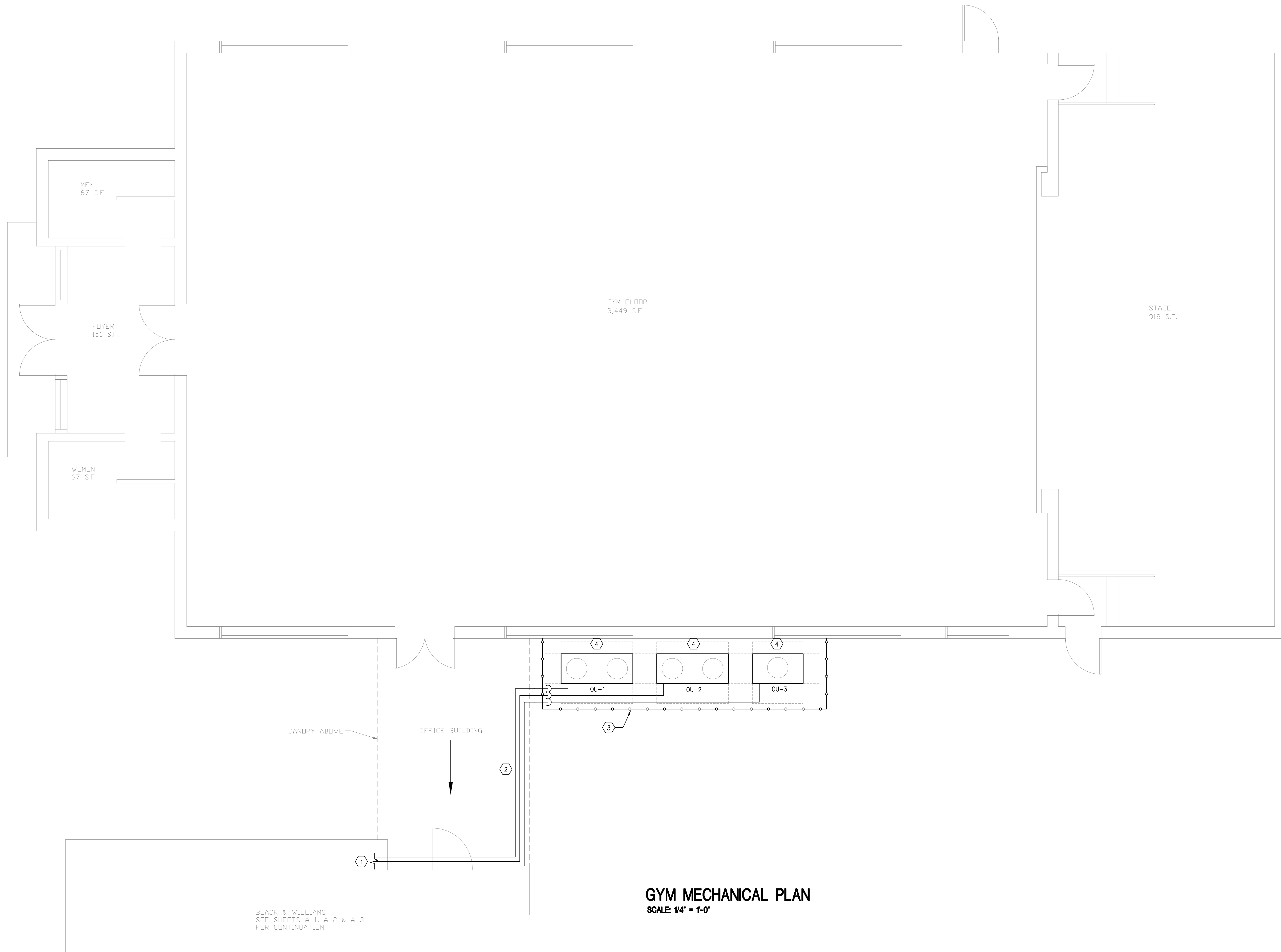
**General Notes**

- A. COORDINATE ALL WORK WITH OTHER TRADES.
- B. ALL WORK SHALL COMPLY WITH LOCAL CODES.
- C. REFRIGERANT LINES ARE REPRESENTED AS SIMPLIFIED FOR ROUTING PURPOSES ONLY. LINE SIZE, LENGTH, AND FITTINGS MUST MEET MANUFACTURERS' REQUIREMENTS.
- D. DASHED LINES INDICATE SERVICE CLEARANCES. DO NOT ENCROACH.
- E. VENTILATION TO BE PROVIDED BY OPERABLE WINDOWS IN EACH SPACE.
- F. PROVIDE PAINTED SHEET METAL SLOTTED 1" AFF TO CONCEAL EXPOSED REFRIGERANT LINES IN OFFICES AND CLASSROOMS. LIMIT DIMENSIONS TO 1" X 6".



**SECOND FLOOR MECHANICAL PLAN**  
 SCALE 3/16" = 1'-0"



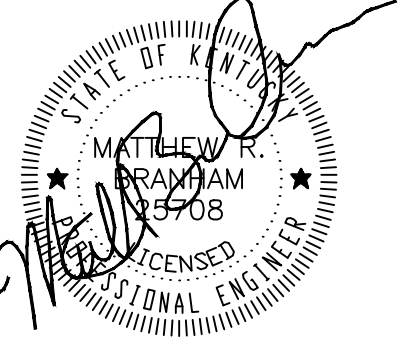


**Sheet Tagged Notes**

1. REFER TO SHEET M1.1 FOR CONTINUATION
2. RUN REFRIGERANT LINES ABOVE ROOF OF BREEZEWAY CONNECTING MAIN BUILDING AND GYM. PROVIDE 12"X4" 10GA STAINLESS STEEL ENCLOSURE AROUND INSULATED REFRIGERANT LINES. ENCLOSURE SHALL BE SECURED TO ROOF OF BREEZEWAY AND SHALL BE CONTINUOUS FROM CHAIN-LINK CONDENSER ENCLOSURE TO WALL PENETRATION.
3. PROVIDE CHAIN LINK ENCLOSURE COMPLETE WITH CHAIN LINK COVER TO PROTECT CONDENSING UNITS PER MANUFACTURERS CLEARANCE REQUIREMENTS. ENCLOSURE SHALL BE 8' TALL. PROVIDE LOCKABLE GATE ADEQUATELY SIZED FOR SERVICE AND REMOVAL, ON PLAN EAST SECTION OF FENCING. MAINTAIN PROPER SERVICE CLEARANCES AND AVOID BLOCKING RAMP TO BASEMENT MECHANICAL ROOM. SUBMIT SHOP DRAWINGS FOR APPROVAL. PROTECT REFRIGERANT LINES AT GROUND LEVEL WITH ENCLOSURE.
4. OUTDOOR CONDENSING UNITS SHALL BE INSTALLED ON 4" CONCRETE PADS. COORDINATE EXACT LOCATION AND DIMENSIONS WITH MANUFACTURERS REQUIREMENTS.

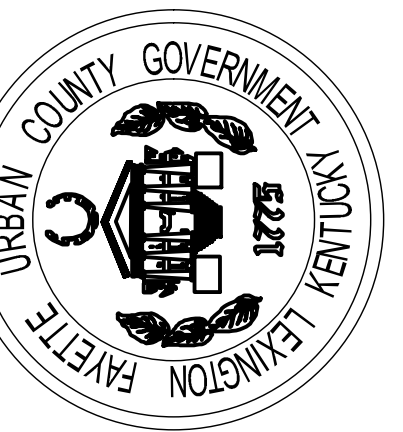
**General Notes**

- A. COORDINATE ALL WORK WITH OTHER TRADES.
- B. ALL WORK SHALL COMPLY WITH LOCAL CODES.
- C. REFRIGERANT LINES ARE REPRESENTED AS SIMPLIFIED FOR ROUTING PURPOSES ONLY. LINE SIZE, LENGTH, AND FITTINGS MUST MEET MANUFACTURERS' REQUIREMENTS.
- D. DASHED LINES INDICATE SERVICE CLEARANCES. DO NOT ENCROACH.



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**Gym Floor Plan**

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**SHEET NO:**  
**M1.3**





CABINET UNIT HEATER SCHEDULE							
MARK	MANUFACTURER	MODEL	LENGTH	KW	V / φ / Hz	FLA / MCA	NOTES
ECH-0.1	QMARK	AWH-3150	-	1.5	120/1/60	12.5	1,3,4,5
ECH-0.2	QMARK	AWH-3150	-	1.5	120/1/60	12.5	1,3,4,5
ECH-0.3	QMARK	AWH-4404	-	4	240/1/60	16.7	1,2,3,4,5
ECH-0.4	QMARK	AWH-4404	-	2	240/1/60	8.3	1,2,3,4,5
ECH-0.5	QMARK	AWH-4404	-	4	240/1/60	16.7	1,2,3,4,5
ECH-0.6	QMARK	AWH-4404	-	2	240/1/60	8.3	1,2,3,4,5
ECH-1.1	QMARK	AWH-4404	-	4	240/1/60	16.7	1,2,3,4,5
ECH-1.2	QMARK	AWH-3150	-	1.5	120/1/60	12.5	3,4,5
ECH-2.1	QMARK	AWH-3150	-	1.5	120/1/60	12.5	3,4,5
ECH-2.2	QMARK	AWH-3150	-	1.5	120/1/60	12.5	3,4,5

- NOTES:
1. SURFACE MOUNTING FRAME.
  2. 14 GA SECURITY FRONT COVER.
  3. BUILT IN 24 VAC ENERGY MANAGEMENT RELAY.
  4. BUILT IN DISCONNECT SWITCH.
  5. BUILT IN THERMOSTAT.

VRV HEAT PUMP OUTDOOR UNIT SCHEDULE									
MARK	MANUFACTURER	MODEL	NOMINAL CAPACITY	COOLING CAPACITY	HEATING CAPACITY	V / Ø / Hz	FLA	MCA	NOTES
OU-1	DAIKIN	REYQ240PTJUR	240,000	201,727	162,165	208/3/60	41.3/41.3	60/60	1,2,3,4,5,6
OU-2	DAIKIN	REYQ240PTJUR	240,000	201,727	162,165	208/3/60	41.3/41.3	60/60	1,2,3,4,5,6
OU-3	DAIKIN	REYQ120PATJ	120,000	111,568	81,538	208/3/60	25.6	50	1,2,3,4,5,6

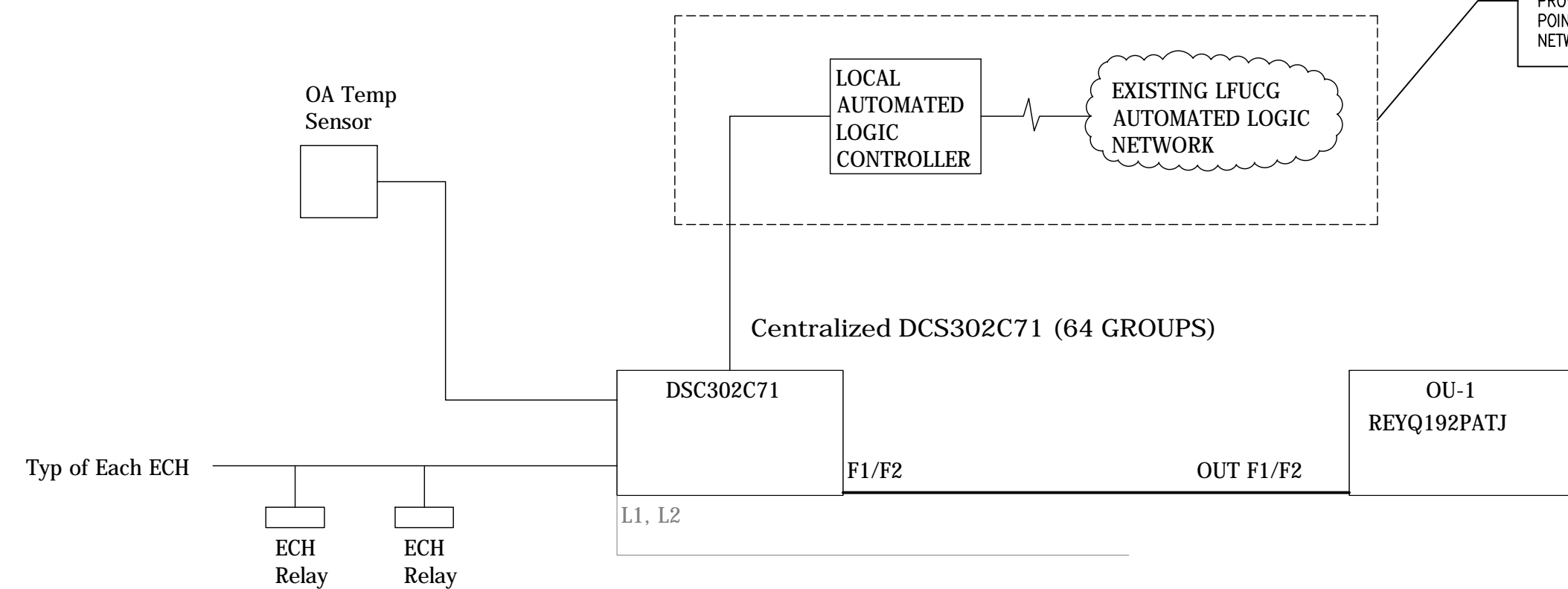
- NOTES:
1. COOLING PERFORMANCE BASED ON THE FOLLOWING CONDITIONS; INDOOR DB/WB: 72F/62.6F, OUTDOOR DB: 95F, PIPE LENGTH: 25FT, LEVEL DIFFERENCE: 0FT
  2. HEATING PERFORMANCE BASED ON THE FOLLOWING CONDITIONS; INDOOR DB: 68F, OUTDOOR DB: 6.1F, PIPE LENGTH: 25FT, LEVEL DIFFERENCE: 0FT
  3. PROVIDE COATED CORROSION RESISTANT CONDENSER COILS.
  4. PROVIDE INTERNAL GROUND-FAULT CIRCUIT BREAKER.
  5. PROVIDE VFD CONTROLLED OUTDOOR FAN MOTORS AND VARIABLE SPEED COMPRESSORS.
  6. PROVIDE OUTDOOR UNIT MULTI-CONNECTION PIPE KIT MANIFOLD.

VRV HEAT PUMP INDOOR UNIT SCHEDULE											
MARK	MANUFACTURER	MODEL	STYLE	COOLING CAPACITY		HEATING CAPACITY (BTUH)	CFM	V / Ø / Hz	FLA	MCA	NOTES
				TOTAL (BTUH)	SENSIBLE (BTUH)						
IU-1.1	DAIKIN	FXQ18MVKU	WALL MOUNT	13766	9844	12162	400-500	230/1/60	15	0.4	1,2,3,4,5,6,7
IU-1.2	DAIKIN	FXQ18MVKU	WALL MOUNT	13617	9780	12162	400-500	230/1/60	15	0.4	1,2,3,4,5,6,7
IU-2.1	DAIKIN	FXQ24MVKU	WALL MOUNT	18004	12668	16217	470-634	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-3.1	DAIKIN	FXLQ18MVKU	FLOOR CONSOLE	14186	9411	12162	380-490	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-3.2	DAIKIN	FXLQ18MVKU	FLOOR CONSOLE	14133	9387	12162	380-490	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-4.1	DAIKIN	FXTO48PAVKU	VERTICAL AHU	37260	24627	32433	1120-1600	230/1/60	15	5	1,2,3,4,5,6,7
IU-5.1	DAIKIN	FXTO48PAVKU	VERTICAL AHU	37616	24782	32433	1120-1600	230/1/60	15	5	1,2,3,4,5,6,7
IU-6.1	DAIKIN	FXLQ24MVKU	FLOOR CONSOLE	18199	11936	14825	420-560	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-6.2	DAIKIN	FXLQ24MVKU	FLOOR CONSOLE	18199	11936	14825	420-560	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-7.1	DAIKIN	FXLQ24MVKU	FLOOR CONSOLE	17938	11821	14825	420-560	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-7.2	DAIKIN	FXLQ24MVKU	FLOOR CONSOLE	17938	11821	14825	420-560	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-8.1	DAIKIN	FXLQ24MVKU	FLOOR CONSOLE	17377	11576	16217	420-560	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-8.2	DAIKIN	FXLQ24MVKU	FLOOR CONSOLE	17377	11576	16217	420-560	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-9.1	DAIKIN	FXLQ24MVKU	FLOOR CONSOLE	17147	11474	16217	420-560	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-9.2	DAIKIN	FXLQ24MVKU	FLOOR CONSOLE	17147	11474	16217	420-560	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-10.1	DAIKIN	FXTO48PAVKU	VERTICAL AHU	34445	23393	32433	1120-1600	230/1/60	15	5	1,2,3,4,5,6,7
IU-11.1	DAIKIN	FXLQ18MVKU	FLOOR CONSOLE	8732	5871	8108	210-280	230/1/60	15	0.5	1,2,3,4,5,6,7
IU-11.2	DAIKIN	FXLQ18MVKU	FLOOR CONSOLE	13055	8917	12162	380-490	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-11.3	DAIKIN	FXLQ18MVKU	FLOOR CONSOLE	13033	8907	12162	380-490	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-12.1	DAIKIN	FXLQ24MVKU	FLOOR CONSOLE	17349	11562	16217	420-560	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-12.2	DAIKIN	FXLQ24MVKU	FLOOR CONSOLE	17781	11752	16217	420-560	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-13.1	DAIKIN	FXLQ24MVKU	FLOOR CONSOLE	16945	11386	16217	420-560	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-13.2	DAIKIN	FXLQ24MVKU	FLOOR CONSOLE	16970	11397	16217	420-560	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-14.1	DAIKIN	FXLQ18MVKU	FLOOR CONSOLE	13562	9139	11119	380-490	230/1/60	15	0.6	1,2,3,4,5,6,7
IU-14.2	DAIKIN	FXLQ18MVKU	FLOOR CONSOLE	13649	9176	11119	380-490	230/1/60	15	0.6	1,2,3,4,5,6,7

- NOTES:
1. COOLING PERFORMANCE BASED ON THE FOLLOWING CONDITIONS; INDOOR DB/WB: 72F/62.6F, OUTDOOR DB: 95F, PIPE LENGTH: 25FT, LEVEL DIFFERENCE: 0FT
  2. HEATING PERFORMANCE BASED ON THE FOLLOWING CONDITIONS; INDOOR DB: 68F, OUTDOOR DB: 6.1F, PIPE LENGTH: 25FT, LEVEL DIFFERENCE: 0FT
  3. COORDINATE INSTALLATION WITH MANUFACTURERS REQUIREMENTS.
  4. REFER TO PIPING SCHEMATIC, WIRING SCHEMATIC AND PLANS FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
  5. PROVIDE SIMPLIFIED WIRED THERMOSTAT MOUNTED WHERE INDICATED ON PLANS.
  6. PROVIDE CENTRALIZED MULTI-ZONE CONTROLLER WHERE INDICATED ON PLANS. REFER TO CONTROLS WIRING DIAGRAM THIS SHEET.
  7. PROVIDE FILTER CHAMBER KIT.
  8. PROVIDE SELF CONTAINED CONDENSATE PUMP KIT.

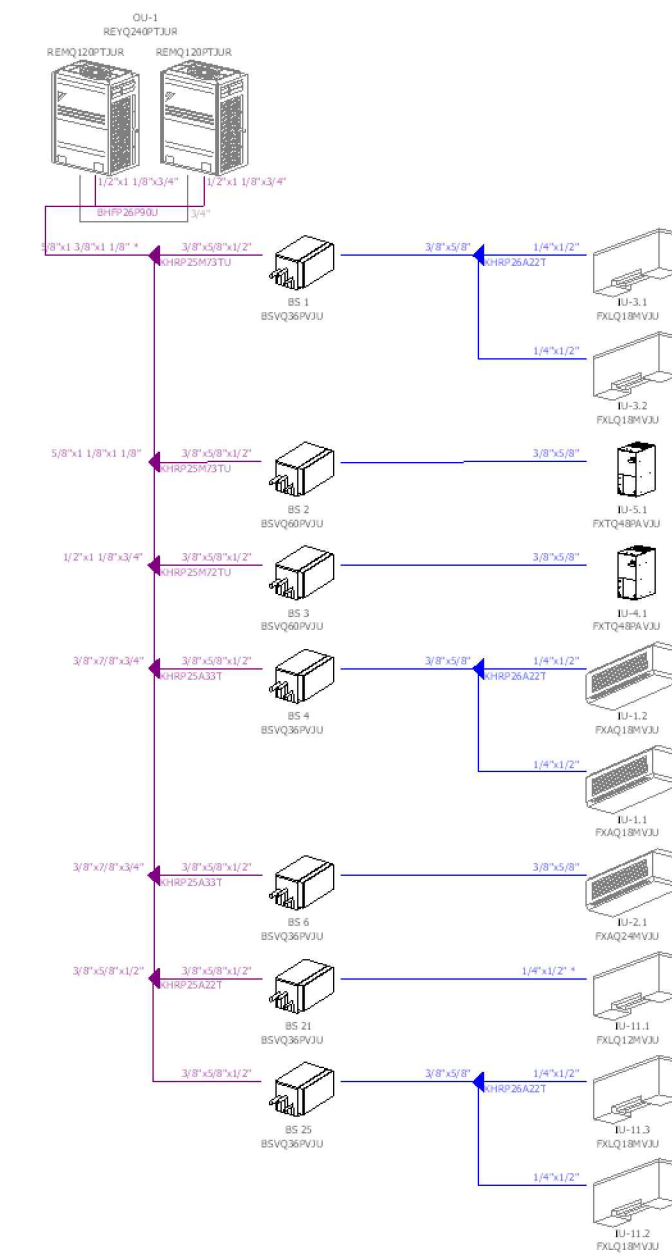
**ADD AS ALTERNATE #1**

PROVIDE CABINET COMMUNICATION GATEWAY WITH CENTRALIZED CONTROLLER. INTEGRATE ALL CONTROL POINTS INTO AUTOMATED LOGIC MANAGEMENT SYSTEM AND TIE INTO EXISTING LFUCG AUTOMATED LOGIC NETWORK, CURRENTLY SERVICED BY INNSPACE STRATEGIES, 859-266-5300.



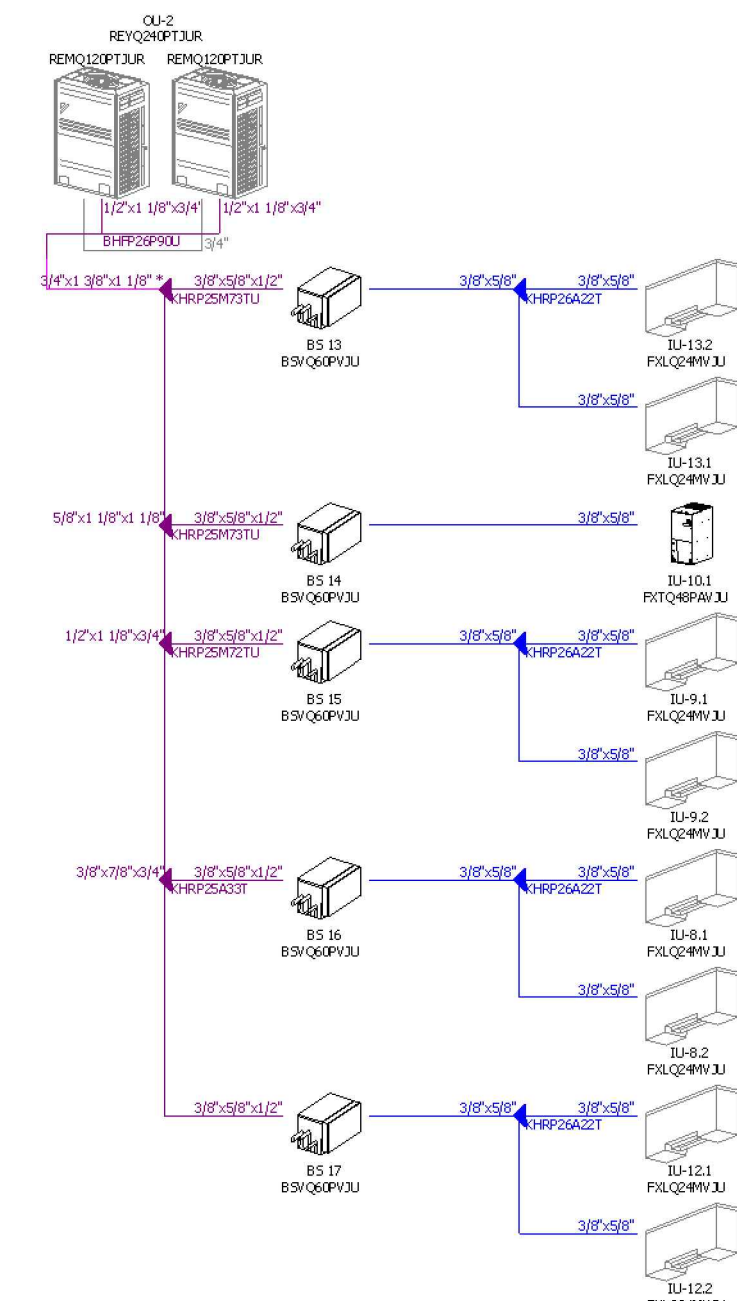
**VRV SYSTEM CENTRALIZED CONTROLLER**

BASIS OF DESIGN	
ITEM DESCRIPTION	VALUE
LATITUDE / LONGITUDE	38.0/84.7
ELEVATION	979'-0"
CLEARNESS NUMBER	0.95
SUMMER O.A. DESIGN DRY BULB	93.0/72.0
WINTER O.A. DESIGN DRY BULB	8
COOLING LOAD METHODOLOGY	TETD-TA1
COOLING SETPOINT	75
HEATING SETPOINT	70
COOLING/HEATING SETBACK	81/64
ROOF U-VALUE	0.199
WALL U-VALUE	0.184
GLASS U-VALUE	0.95
GLASS SHADING COEFFICIENT	0.95
OUTDOOR AIR VENTILATION RATE	PER ASHRAE 62.1



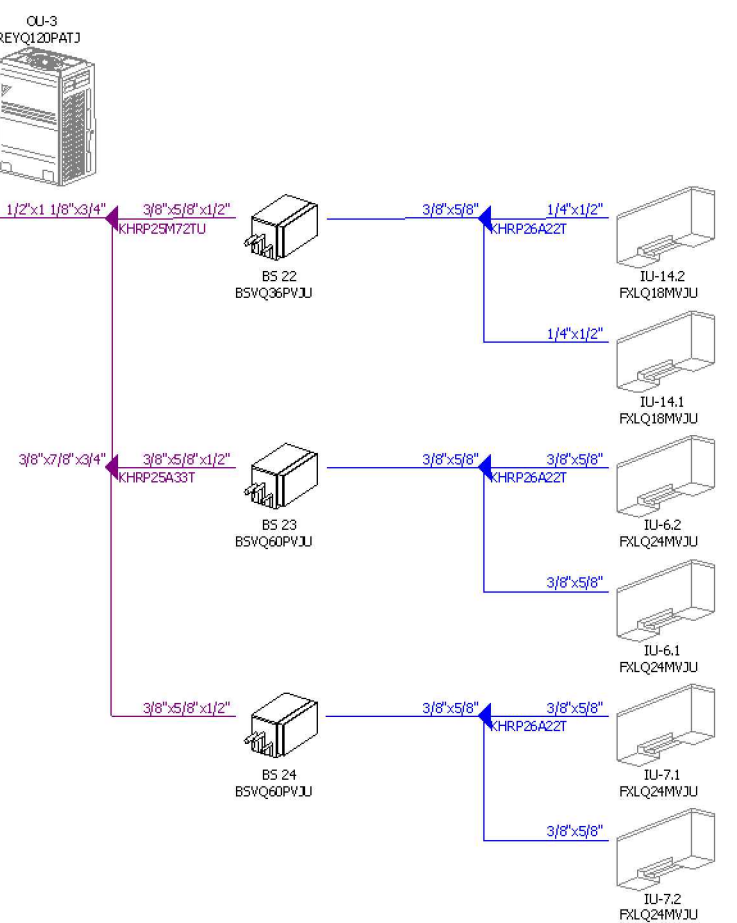
**REFRIGERANT PIPING SCHEMATIC OU-1**

- NOTES:
1. PROVIDE REFINET ENGINEERED FITTINGS (KHFP) AT EACH PIPING BRANCH.
  2. SIZED IS BASED ON CONFIGURATION / ROUTING AS DEPICTED IN PLANS. ANY DEVIATION FROM DESIGN WILL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH LINE SIZES.
  3. PROVIDE REFRIGERANT ISOLATION VALVES AT EACH INDOOR UNIT TO PERMIT SERVICES OF EQUIPMENT.



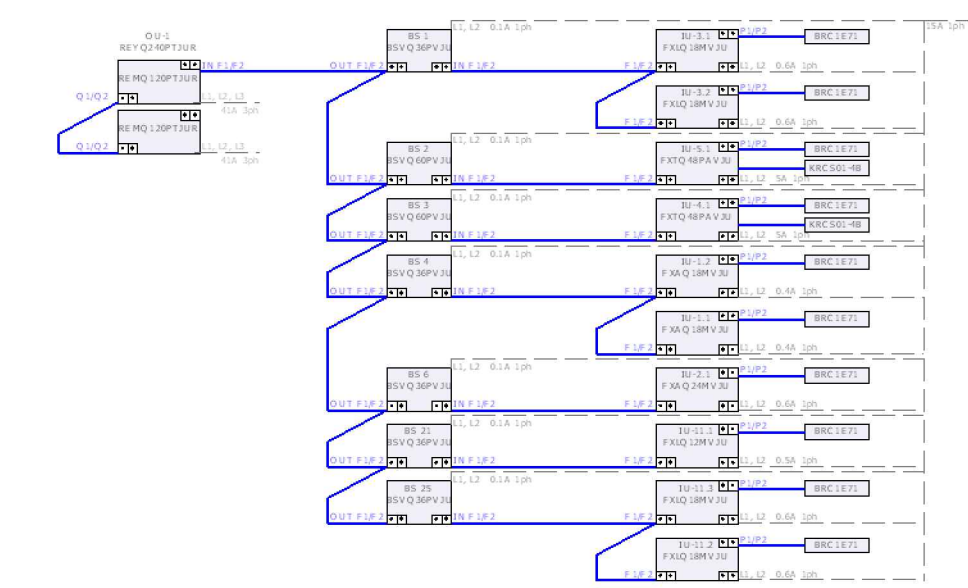
**REFRIGERANT PIPING SCHEMATIC OU-2**

- NOTES:
1. PROVIDE REFINET ENGINEERED FITTINGS (KHFP) AT EACH PIPING BRANCH.
  2. SIZED IS BASED ON CONFIGURATION / ROUTING AS DEPICTED IN PLANS. ANY DEVIATION FROM DESIGN WILL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH LINE SIZES.
  3. PROVIDE REFRIGERANT ISOLATION VALVES AT EACH INDOOR UNIT TO PERMIT SERVICES OF EQUIPMENT.

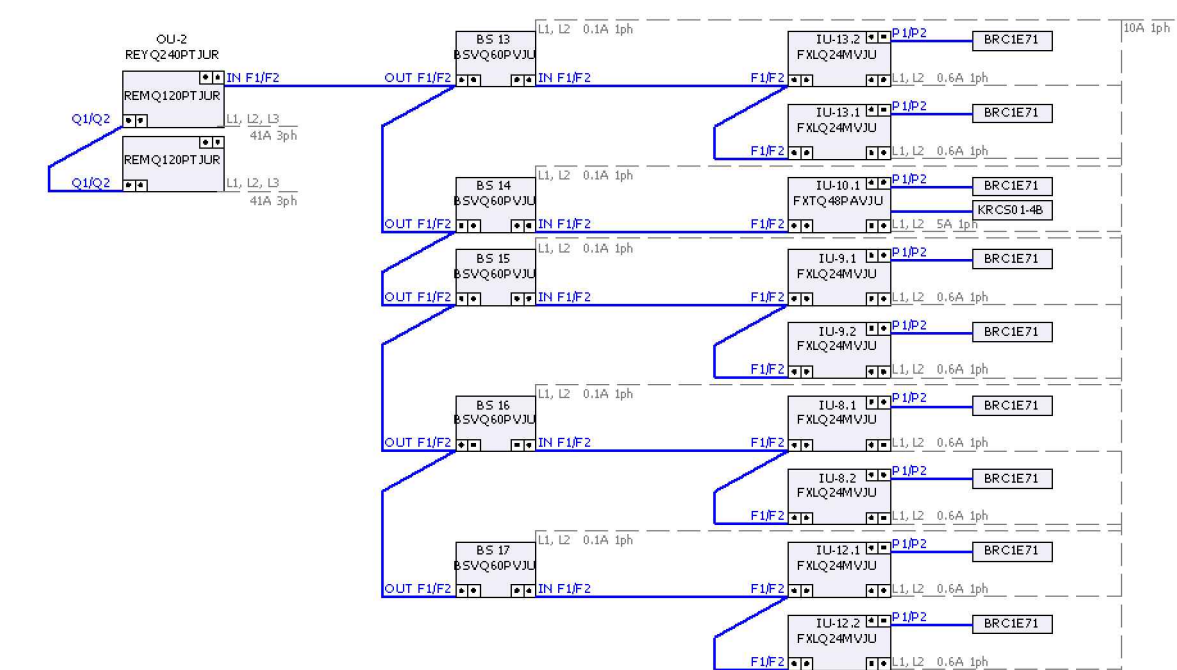


**REFRIGERANT PIPING SCHEMATIC OU-3**

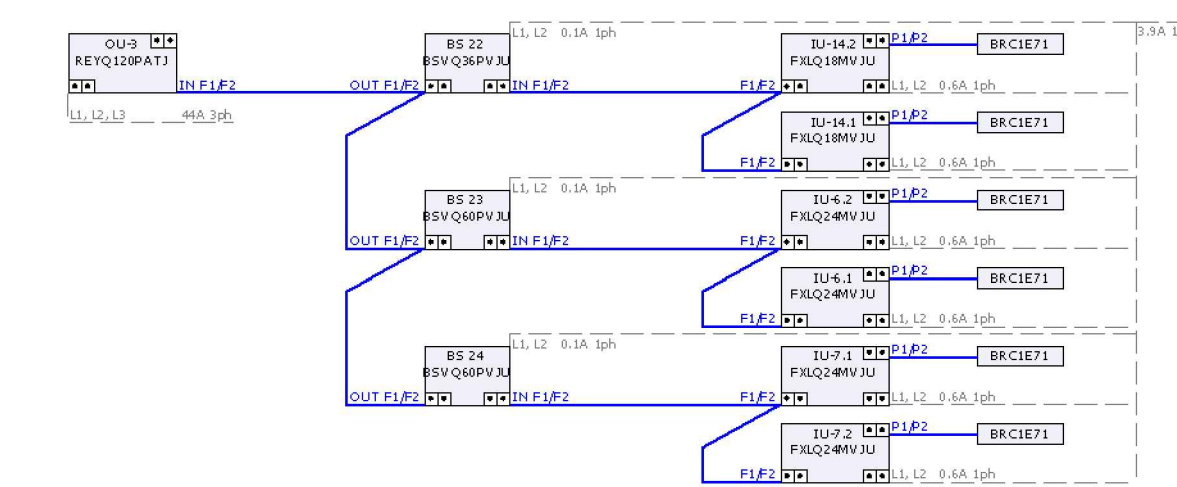
- NOTES:
1. PROVIDE REFINET ENGINEERED FITTINGS (KHFP) AT EACH PIPING BRANCH.
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  3. PROVIDE REFRIGERANT ISOLATION VALVES AT EACH INDOOR UNIT TO PERMIT SERVICES OF EQUIPMENT.



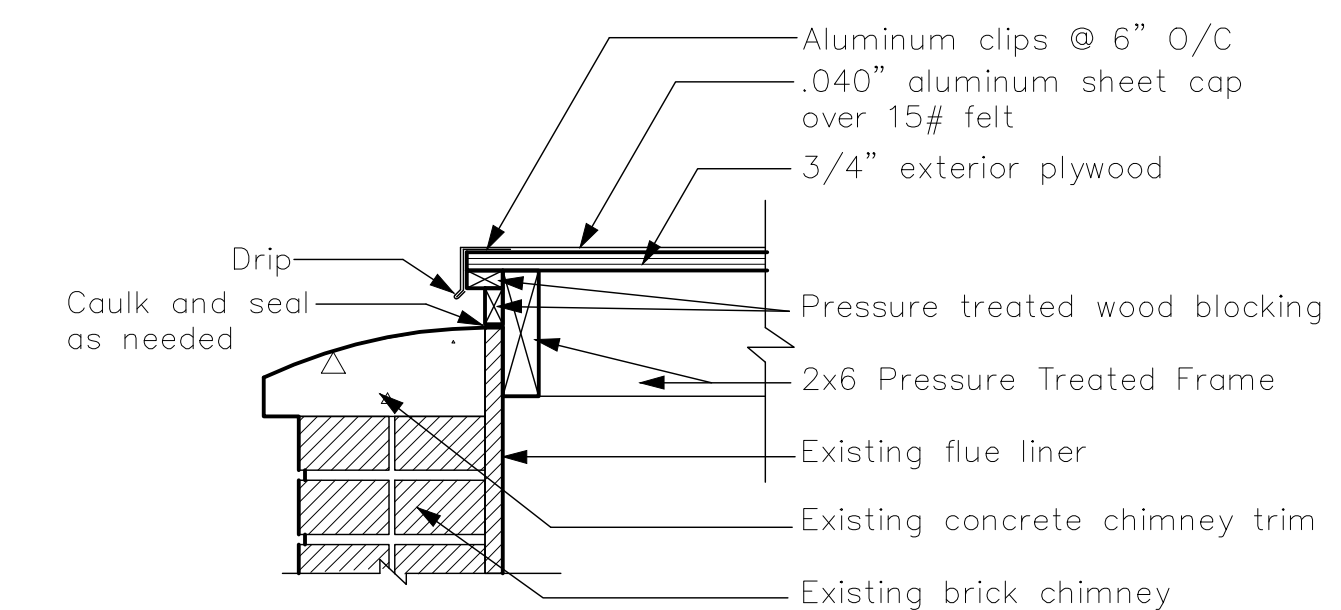
**CONTROL WIRING SCHEMATIC OU-1**



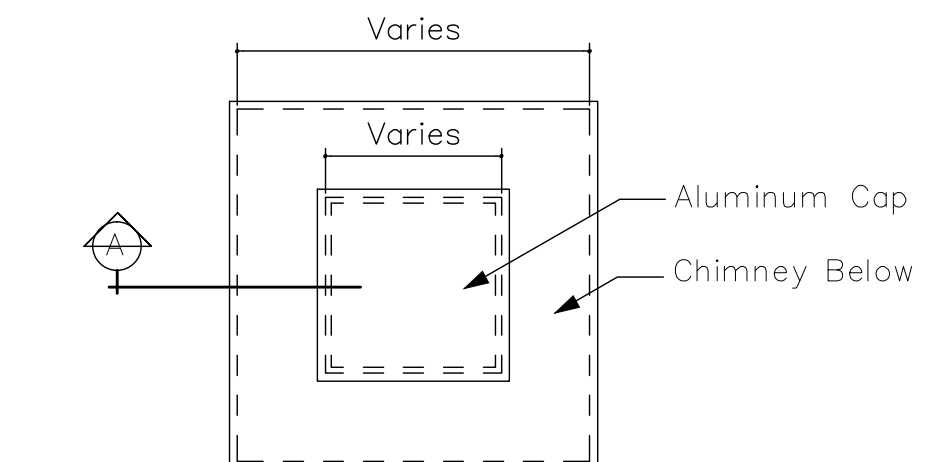
**CONTROL WIRING SCHEMATIC OU-2**



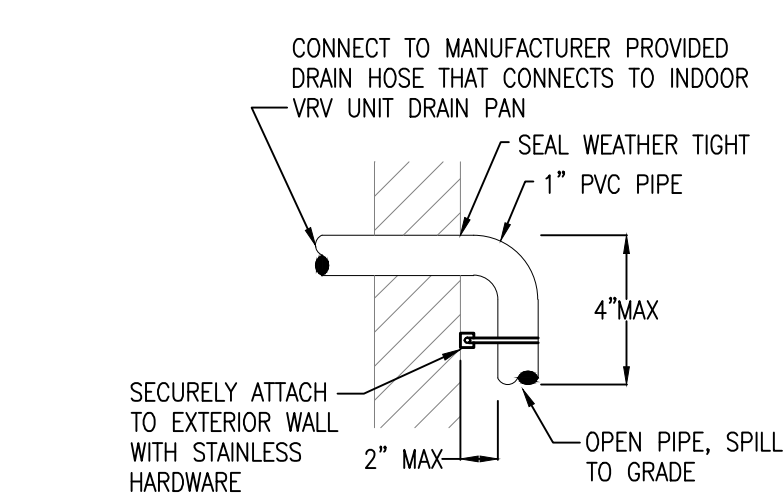
**CONTROL WIRING SCHEMATIC OU-3**



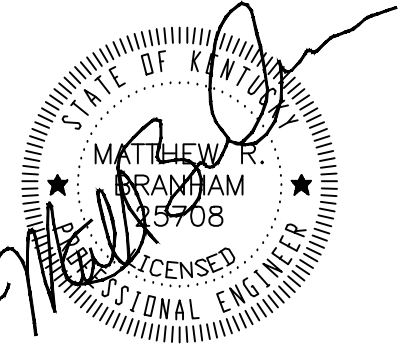
CHIMNEY CAP DETAIL  
Scale: 1 1/2" = 1'-0"



PLAN - CHIMNEY TOP  
Scale: 1/2" = 1'-0"

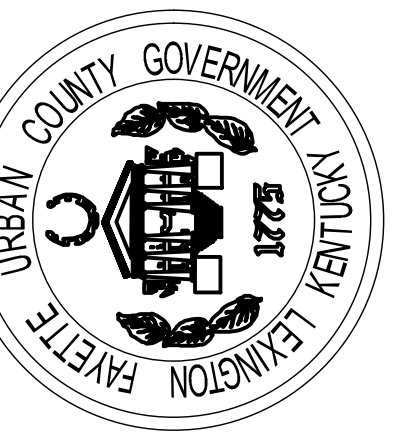


CONDENSATE DRAIN DETAIL  
SCALE: NTS



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**Adult Services Division**  
**498 Georgetown Street**  
**Mechanical Schedules**

APPROVED BY:  
MRB

DATE:  
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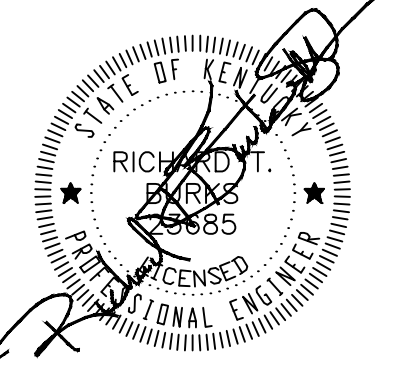
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WORK ORDER NO.

SHEET NO:

**M6.1**





**Sheet Tagged Notes**

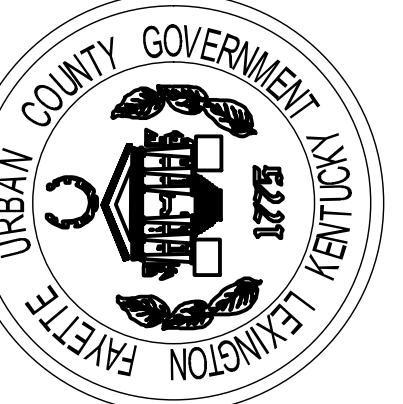
1. TAP BUS OF EXISTING BODA MAIN SUB PANEL. WIRE TO BE LESS THAN 25 FEET IN LENGTH.
2. (2) 500 KCMIL CONDUCTORS (1) 500 KCMIL NEUTRAL (1) #2 GROUND; THHN 90°C INSULATION/3.5" CONDUIT.
3. RESTORE GROUND CONDUCTORS TO EXISTING SUB-PANELS. REMOVE UNUTILIZED WIRE AND COVER EXPOSED COMPONENTS AND OPENINGS IN PANEL.
4. COORDINATE DISCONNECT REQUIREMENTS WITH EQUIPMENT MANUFACTURER. REFERENCE MECHANICAL SCHEDULES FOR FACTORY MOUNTED DISCONNECT DEVICES.
5. CIRCUIT CONTINUES TO OTHER FLOORS.
6. DEMO EXISTING CONDUIT/CIRCUITS SERVING WALL CLOCK. VERIFY CIRCUITS DO NOT FEED OTHER DEVICES PRIOR TO DEMOLITION. CONTACT ENGINEER IF CIRCUITS FEED OTHER DEVICES.

**General Notes**

- A. ELECTRICAL EQUIPMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE.
- B. PROVIDE LOCAL DISCONNECTING MEANS AS SHOWN AND/OR REQUIRED BY THE N.E.C.
- C. ALL EXPOSED WIRING SHALL BE IN EMT CONDUIT.
- D. ALL MATERIALS SHALL BE UL LISTED AND LABELED AND IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, OTHER APPLICABLE CODES AND STANDARDS.
- E. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE MANUFACTURER'S CURRENT OFFERING.
- F.
  - 1) WIRE FOR 15 OR 20 AMP CIRCUITS TO BE #12 THIN UNLESS OTHERWISE NOTED.
  - 2) WIRE FOR 30 AMP CIRCUITS TO BE #10 THIN UNLESS OTHERWISE NOTED.
  - 3) ALL 20 OR 30 AMP CIRCUITS GREATER THAN 100 FEET IN LENGTH SHALL BE INCREASED TO NEXT STANDARD WIRE SIZE.

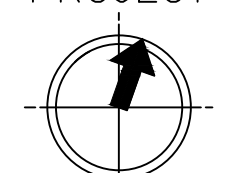
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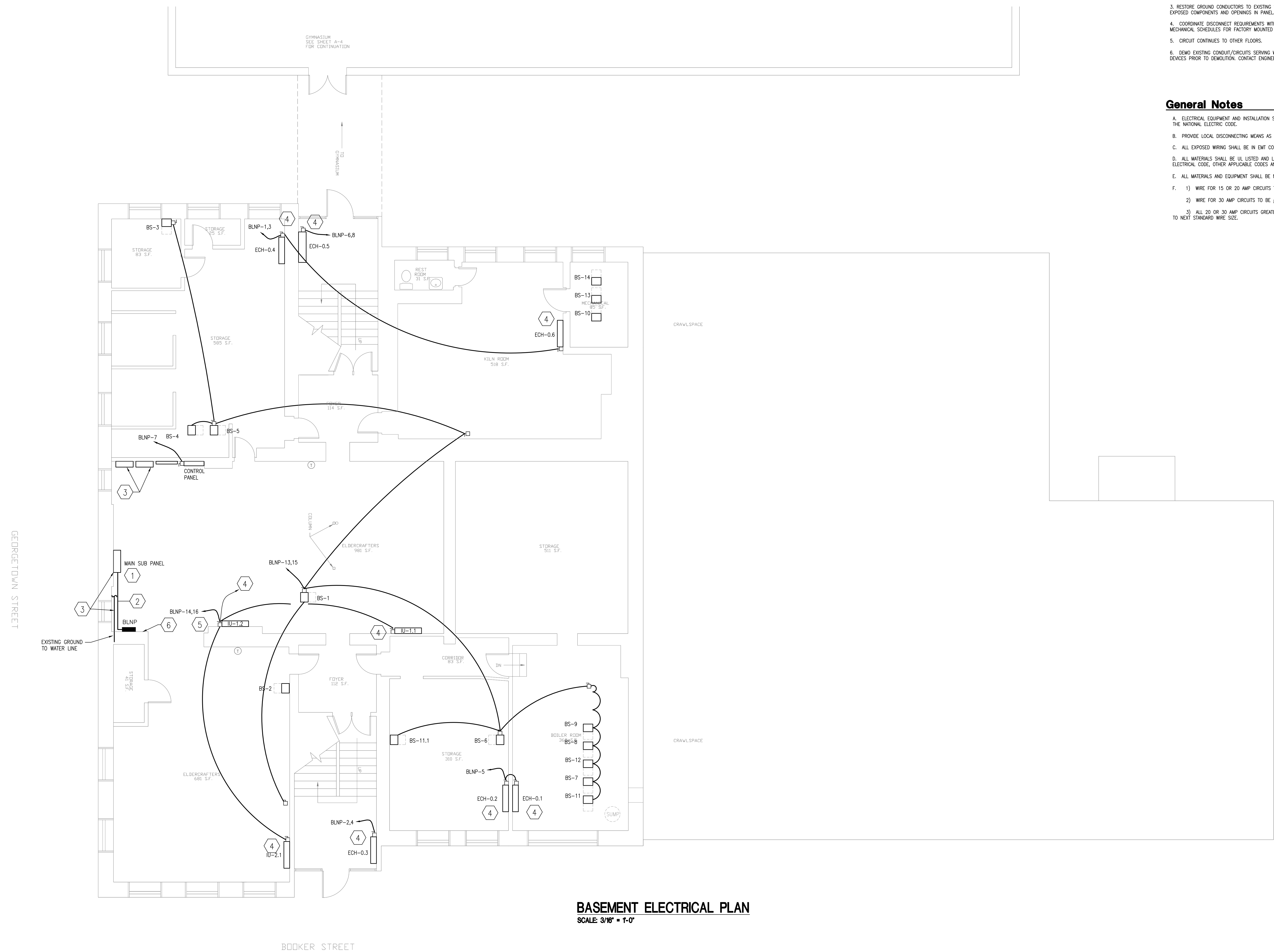
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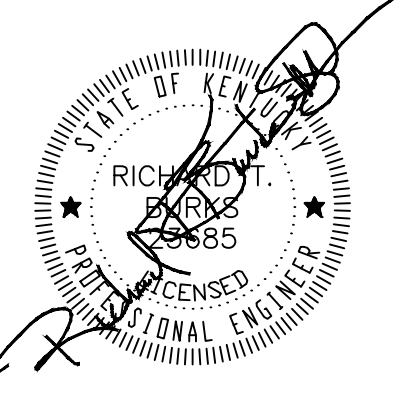
**Lexington Fayette Urban County Government**  
**Black and Williams**  
**Adult Services Division**  
**498 Georgetown Street**  
**Basement Electrical Plan**

APPROVED BY:  
MRB  
 DATE:  
1-10-2011  
 DRAWN BY:  
CLR  
 CHECKED BY:  
MRB  
 REVISION:  
9/1/11 BID DOCUMENT  
 WORK ORDER NO.

PROJECT  
  
 NORTH  
**SHEET NO:**  
**E1.0**

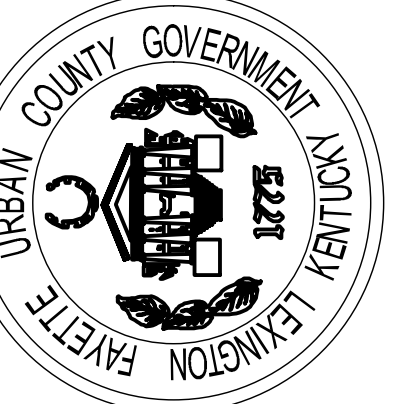


**BASEMENT ELECTRICAL PLAN**  
 SCALE 3/16" = 1'-0"



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**Lexington Fayette Urban County Government**  
**Black and Williams**  
**Adult Services Division**  
**498 Georgetown Street**  
**First Floor Electrical Plan**

APPROVED BY:  
MRB  
DATE:  
1-19-2011  
DRAWN BY:  
CLR  
CHECKED BY:  
RTB  
REVISION:  
9/1/11 BID DOCUMENT  
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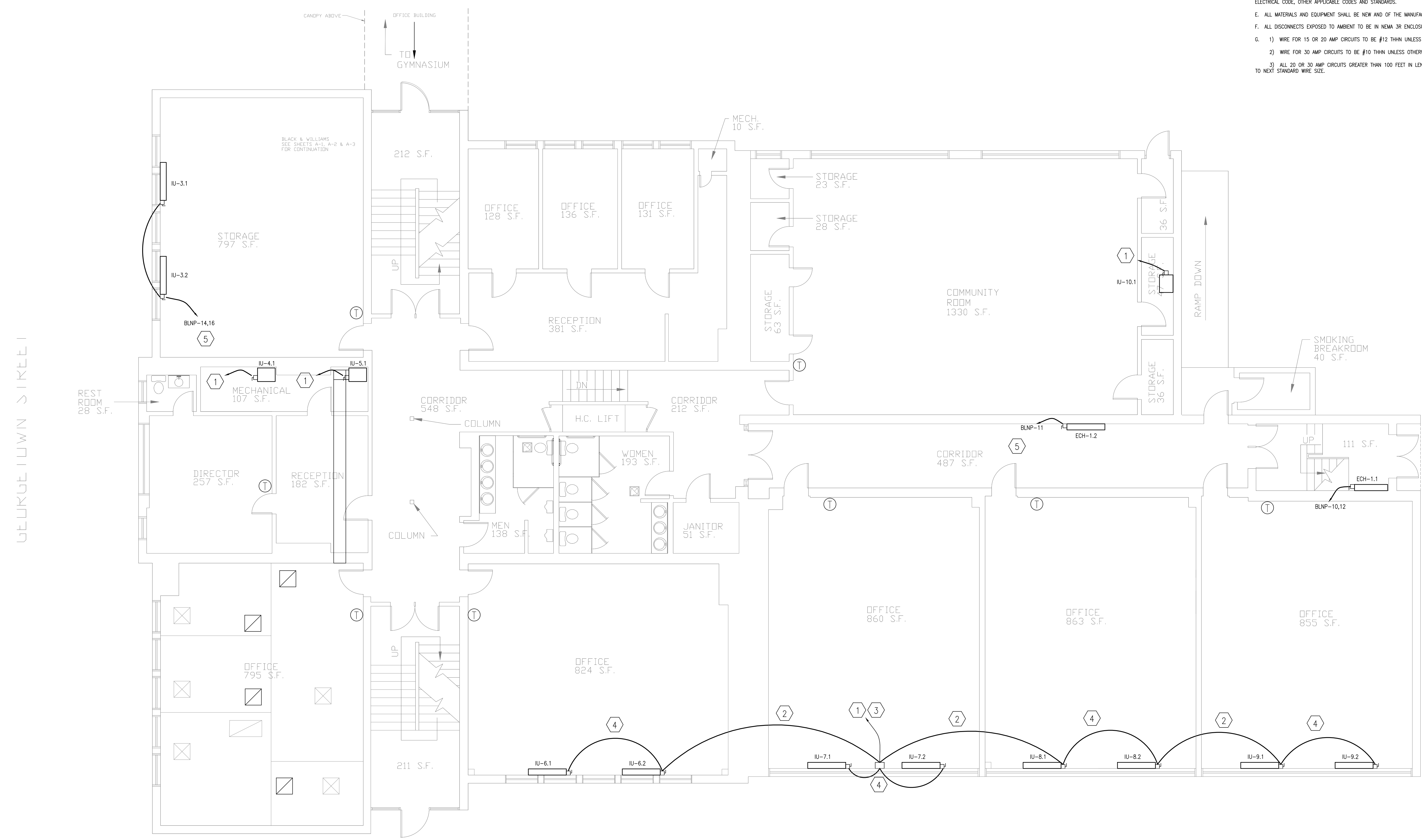
**SHEET NO:**  
**E1.1**

**Sheet Tagged Notes**

1. REUSE EXISTING 230V CIRCUIT. VERIFY CIRCUIT IS DEDICATED TO THIS EXISTING OUTLET. IF NOT CONTACT ENGINEER.
2. EXTEND RACEWAY TO ADJOINING ROOM UNITS.
3. IDENTIFY PANEL & BREAKER ON JUNCTION BOX W/PERMANENT LABEL.
4. COORDINATE DISCONNECT REQUIREMENTS WITH EQUIPMENT MANUFACTURER. REFERENCE MECHANICAL SCHEDULES FOR FACTORY MOUNTED DISCONNECT DEVICES.
5. CIRCUIT CONTINUED TO OTHER FLOORS.

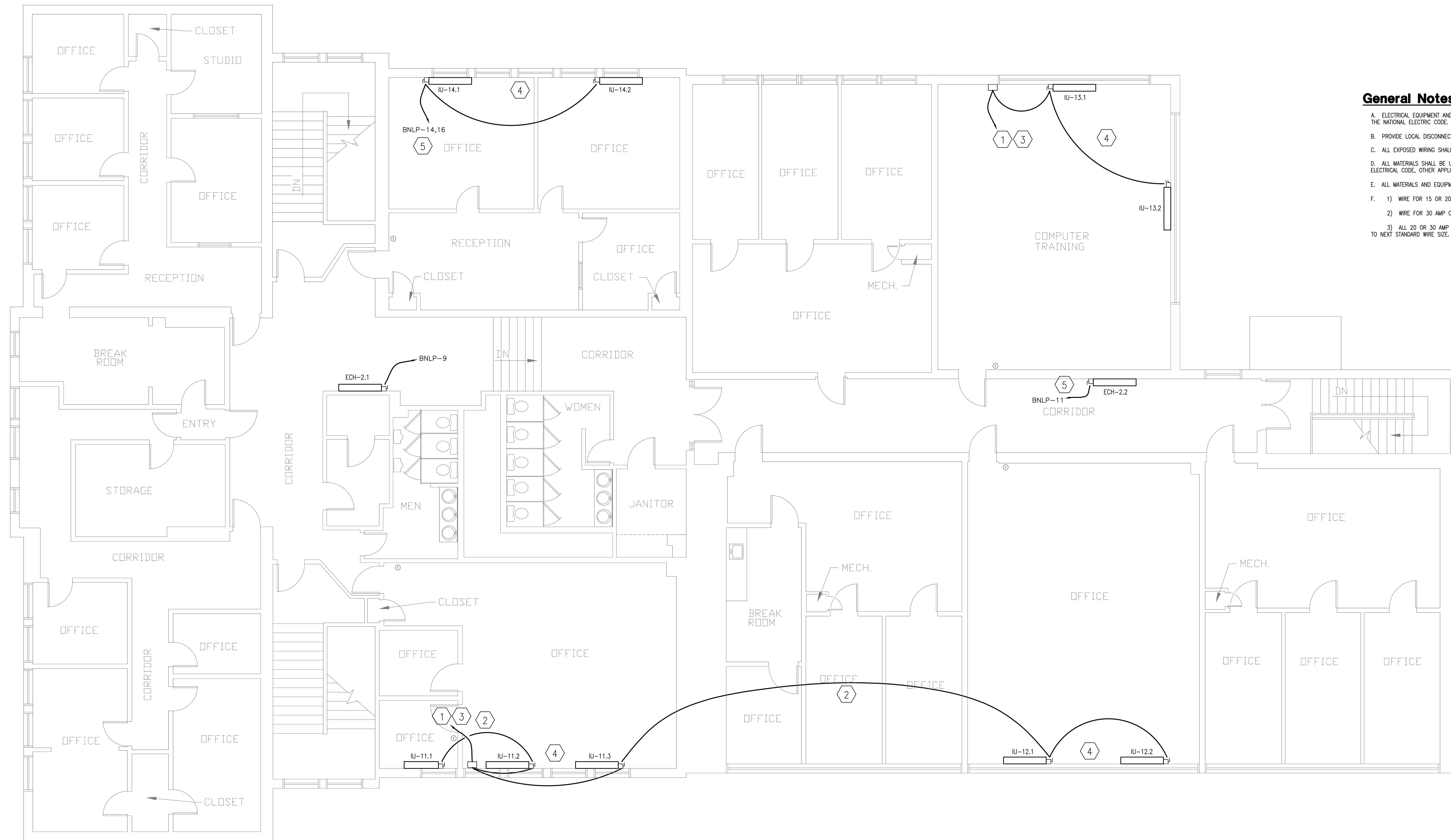
**General Notes**

- A. ELECTRICAL EQUIPMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE.
  - B. PROVIDE LOCAL DISCONNECTING MEANS AS SHOWN AND/OR REQUIRED BY THE N.E.C.
  - C. ALL EXPOSED WIRING SHALL BE IN METAL CONDUIT.
  - D. ALL MATERIALS SHALL BE LISTED AND LABELED AND IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, OTHER APPLICABLE CODES AND STANDARDS.
  - E. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE MANUFACTURER'S CURRENT OFFERING.
  - F. ALL DISCONNECTS EXPOSED TO AMBIENT TO BE IN NEMA 3R ENCLOSURE.
- 1) WIRE FOR 15 OR 20 AMP CIRCUITS TO BE #12 THIN UNLESS OTHERWISE NOTED.
  - 2) WIRE FOR 30 AMP CIRCUITS TO BE #10 THIN UNLESS OTHERWISE NOTED.
  - 3) ALL 20 OR 30 AMP CIRCUITS GREATER THAN 100 FEET IN LENGTH SHALL BE INCREASED TO NEXT STANDARD WIRE SIZE.



**FIRST FLOOR ELECTRICAL PLAN**  
SCALE: 3/16" = 1'-0"





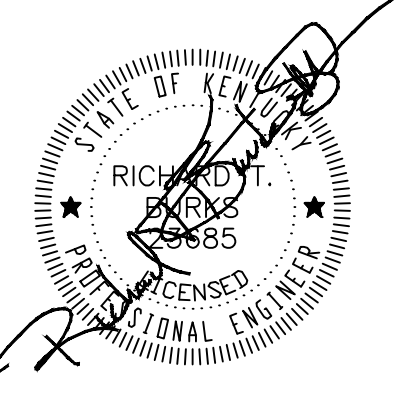
**SECOND FLOOR ELECTRICAL PLAN**  
SCALE: 3/16" = 1'-0"

**Sheet Tagged Notes**

1. REUSE EXISTING 230V CIRCUIT. VERIFY CIRCUIT IS DEDICATED TO THIS EXISTING OUTLET.
2. EXTEND RACEWAY TO ADJOINING ROOM UNITS.
3. IDENTIFY PANEL & BREAKER ON JUNCTION BOX W/PERMANENT LABEL.
4. COORDINATE DISCONNECT REQUIREMENTS WITH EQUIPMENT MANUFACTURER. REFERENCE MECHANICAL SCHEDULES FOR FACTORY MOUNTED DISCONNECT DEVICES.
5. CIRCUIT CONTINUED TO OTHER FLOORS.

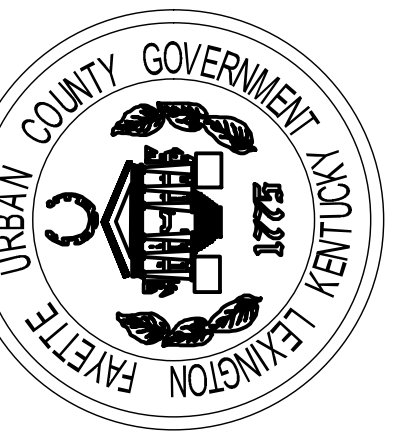
**General Notes**

- A. ELECTRICAL EQUIPMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE.
- B. PROVIDE LOCAL DISCONNECTING MEANS AS SHOWN AND/OR REQUIRED BY THE N.E.C.
- C. ALL EXPOSED WIRING SHALL BE IN METAL CONDUIT.
- D. ALL MATERIALS SHALL BE UL LISTED AND LABELED AND IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, OTHER APPLICABLE CODES AND STANDARDS.
- E. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE MANUFACTURER'S CURRENT OFFERING.
- F. 1) WIRE FOR 15 OR 20 AMP CIRCUITS TO BE #12 THIN UNLESS OTHERWISE NOTED.  
2) WIRE FOR 30 AMP CIRCUITS TO BE #10 THIN UNLESS OTHERWISE NOTED.  
3) ALL 20 OR 30 AMP CIRCUITS GREATER THAN 100 FEET IN LENGTH SHALL BE INCREASED TO NEXT STANDARD WIRE SIZE.



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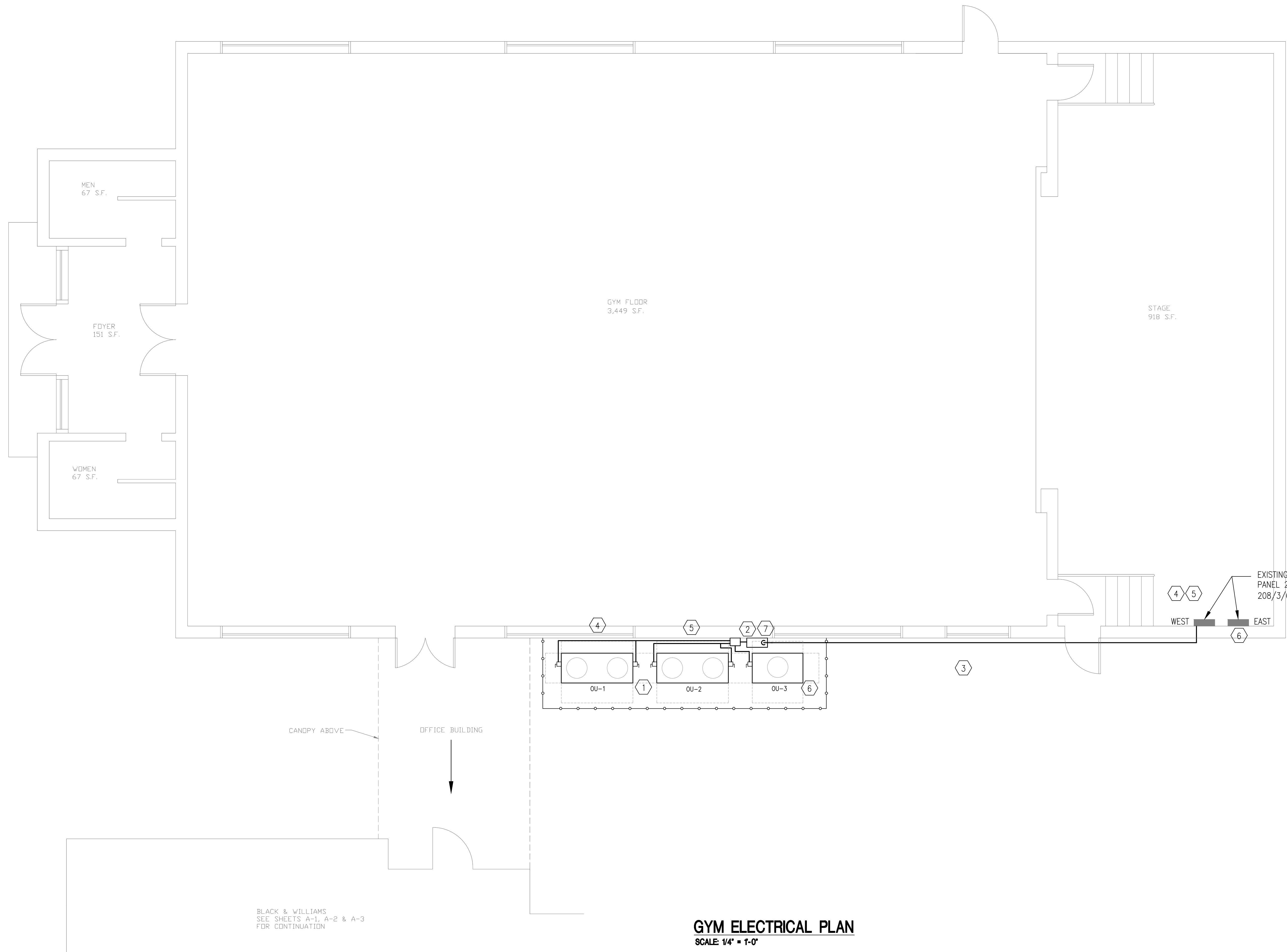


**Lexington Fayette Urban County Government**  
**Black and Williams**  
**Adult Services Division**  
**498 Georgetown Street**  
**Second Floor Electrical Plan**

APPROVED BY:  
MRB  
DATE:  
1-10-2011  
DRAWN BY:  
CLR  
CHECKED BY:  
MRB  
REVISION:  
9/1/11 BID DOCUMENT  
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**SHEET NO:**  
**E1.2**





BLACK & WILLIAMS  
SEE SHEETS A-1, A-2 & A-3  
FOR CONTINUATION

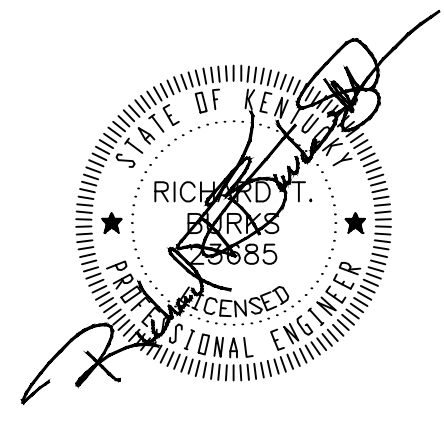
**GYM ELECTRICAL PLAN**  
SCALE 1/4" = 1'-0"

**Sheet Tagged Notes**

1. COORDINATE DISCONNECT REQUIREMENTS WITH EQUIPMENT MANUFACTURER. REFERENCE MECHANICAL SCHEDULES FOR FACTORY MOUNTED DISCONNECT DEVICES.
2. PROVIDE NEMA 4 ENCLOSURE WITH SUB-METER FOR COMBINED OU-1,2,3 POWER. COORDINATE WITH CONTROLS CONTRACTOR. BASE BID TO BE STAND ALONE METER. ALTERNATE #1 SHALL BE INTEGRATED WITH BUILDING AUTOMATION SYSTEM.
3. 2" EMT CONDUIT EXPOSED TO AMBIENT; ALL WALL PENETRATIONS, JOINTS AND PANEL CONNECTIONS TO BE WATER TIGHT.
4. OU-1: PROVIDE TWO 60A THREE POLE BREAKERS IN EXISTING WEST PANEL. PROVIDE (3) #8 AWG THIN COPPER CONDUCTORS WITH #10 GROUND TO EACH COMPRESSOR CIRCUIT - TWO CIRCUITS PER UNIT.
5. OU-2: PROVIDE TWO 60A THREE POLE BREAKERS IN EXISTING WEST PANEL. PROVIDE (3) #8 AWG THIN COPPER CONDUCTORS WITH #10 GROUND TO EACH COMPRESSOR CIRCUIT - TWO CIRCUITS PER UNIT.
6. OU-3: PROVIDE ONE 50A THREE POLE BREAKER IN EITHER EXISTING EAST OR WEST PANEL DEPENDING ON SPACE AVAILABILITY. PROVIDE (3) #8 THIN COPPER CONDUCTORS WITH #10 GROUND.
7. PROVIDE 20 AMP 120V GFI CONVENIENCE OUTLET IN RAIN TIGHT RECEPTACLE COVER FOR SERVICE OF EQUIPMENT.

**General Notes**

- A. ELECTRICAL EQUIPMENT AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE.
- B. PROVIDE LOCAL DISCONNECTING MEANS AS SHOWN AND/OR REQUIRED BY THE N.E.C.
- C. ALL EXPOSED WIRING SHALL BE IN METAL CONDUIT.
- D. ALL MATERIALS SHALL BE UL LISTED AND LABELED AND IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, OTHER APPLICABLE CODES AND STANDARDS.
- E. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE MANUFACTURER'S CURRENT OFFERING.
- F. 1) WIRE FOR 15 OR 20 AMP CIRCUITS TO BE #12 THIN UNLESS OTHERWISE NOTED.  
2) WIRE FOR 30 AMP CIRCUITS TO BE #10 THIN UNLESS OTHERWISE NOTED.  
3) ALL 20 OR 30 AMP CIRCUITS GREATER THAN 100 FEET IN LENGTH SHALL BE INCREASED TO NEXT STANDARD WIRE SIZE.



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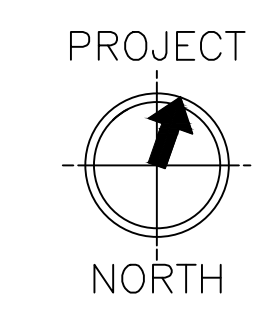
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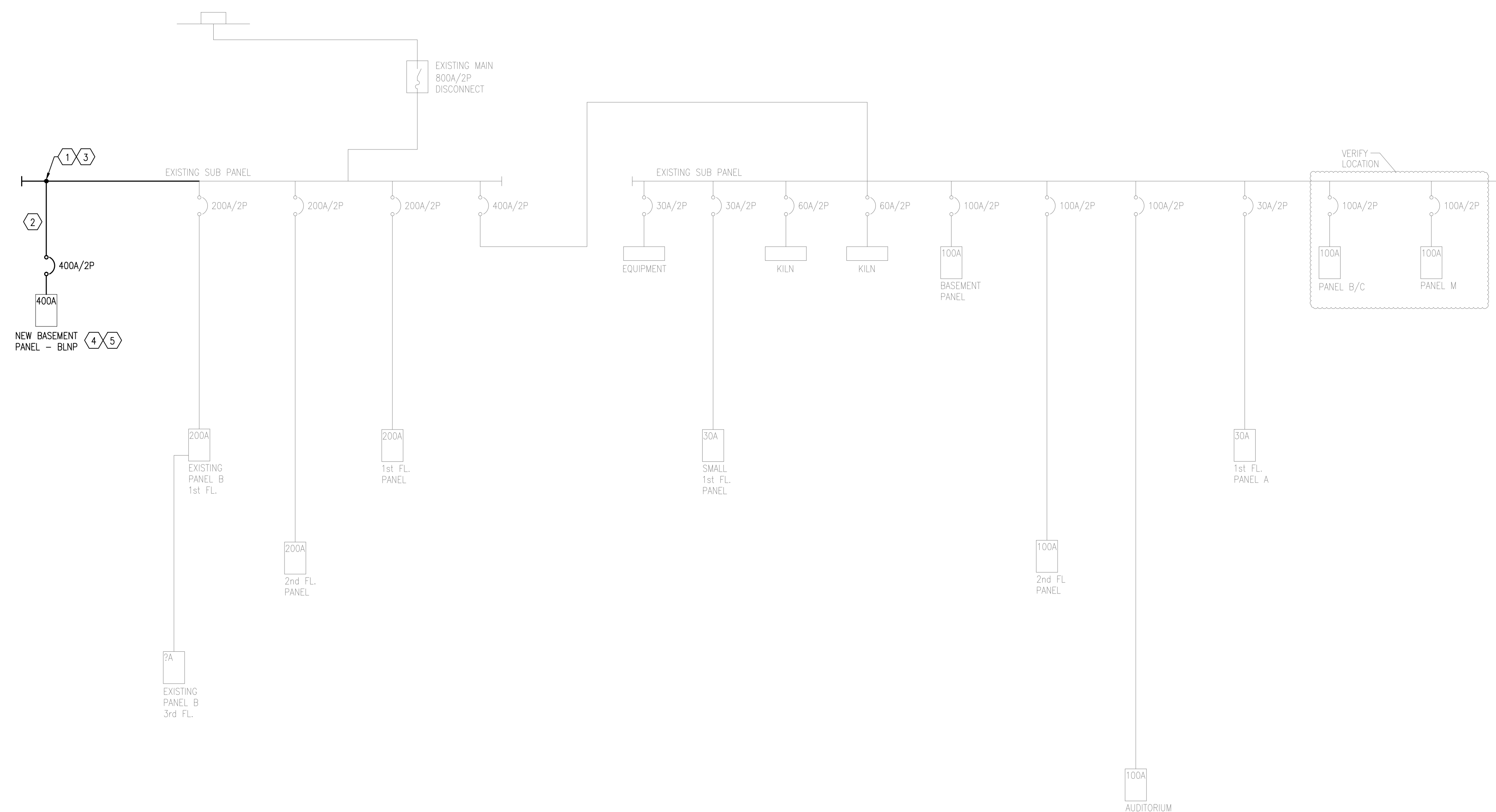


**Lexington Fayette Urban County Government**  
**Black and Williams**  
**Adult Services Division**  
**498 Georgetown Street**  
**Gym Electrical Plan**

APPROVED BY: MRB
DATE: 1-10-2011
DRAWN BY: CLR
CHECKED BY: MRB
REVISION: 9/1/11 BID DOCUMENT
WORK ORDER NO.

**SHEET NO:**  
**E1.3**





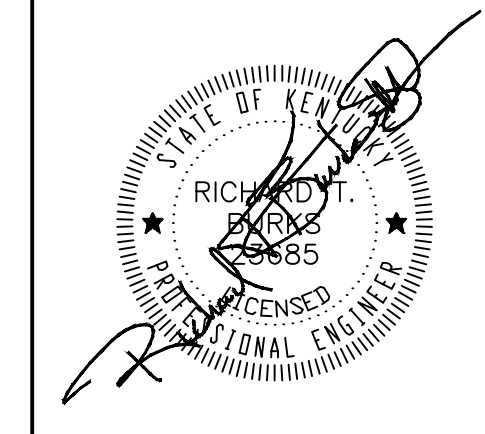
**Sheet Tagged Notes** XX

1. CONDUCTOR LENGTH SHALL NOT EXCEED 25 FEET.
2. TAP BUS OF EXISTING 800A SUB PANEL.
3. PANEL LABELING IS BASED ON EXISTING LABELING. NO VERIFICATION OF CIRCUITS HAS BEEN CONDUCTED AND THERE IS NO REPRESENTATION AS TO THE PANEL LABELING ACCURACY. VERIFY ALL CIRCUITS ARE DISCONNECTED PRIOR TO SERVICING.
4. REVISE PANEL SCHEDULE AND LABEL CIRCUITS IN PANEL INSERT AND ON RECORD DRAWING.
5. REFERENCE PANEL SCHEDULE FOR ADDITIONAL CIRCUITS & WIRE/CONDUIT SCHEDULE NOTES FOR WIRE SIZING INFORMATION. ALL CONDUITS TO BE SIZED PER LATEST VERSION OF NATIONAL ELECTRIC CODE.

**General Notes**

A

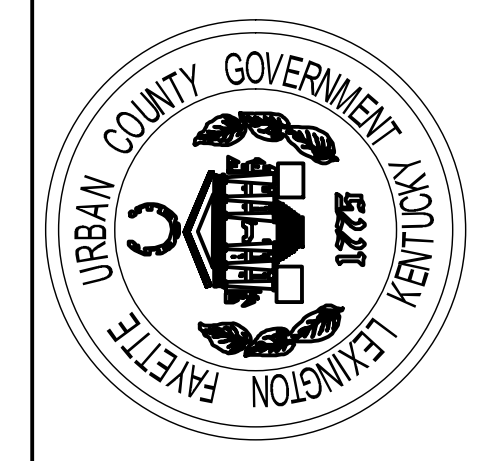
Electrical BLNP Schedule										
VOLTS/PHASE/WIRE: 120/240/1/3		PANEL SIZE: SOD NQOD		MAIN TYPE & SIZE: 400 A MB			CABINET: NEMA 1 SURFACE		MIN SCC: 42KA	FED FROM: EXISTING SUB PANEL
CIRCUIT NO.	AREA SERVED	TRIP AMPS	NO. POLES	PHASE LOAD VA			NO. POLES	TRIP AMPS	AREA SERVED	CIRCUIT NO.
				A	B	C				
1, 3	BASEMENT HEATERS ECH-0.4, 0.6	20	2	3984			2	20	SOUTH FOYER HEATER ECH-0.3	2, 4
				4008						
				3984						
				4008						
5	STORAGE HEATERS ECH-0.1, 0.2	30	1	3000			2	20	NORTH FOYER HEATER ECH-0.5	6, 8
				4008						
7	HVAC SYSTEM CONTROL PANEL	20	1	1200						
				4008						
9	CORRIDOR HEATER ECH-2.1	20	1	1500			2	20	EAST FOYER HEATER ECH-1.1	10, 12
				4008						
11	CORRIDOR HEATERS ECH-1.2, 2.2	30	1	3000						
				4008						
13, 15	VRV CONTROL VALVES BS-1 THRU 14	20	2	336			2	20	INDOOR UNITS IU-1.1, 1.2, 2.1, 3-1, 3.2, 14.1, 14.2	14, 16
				1008						
				336						
				1008						
17, 19	SPARE	30	2	0			1	20	SPARE	18
				0			1	20	SPARE	20
21	SPACE		1	0			1		SPACE	22
23	SPACE		1	0			1		SPACE	23
25	SPACE		1				1		SPACE	26
27	SPACE		1				1		SPACE	28
29	SPACE		1				1		SPACE	30
31	SPACE		1				1		SPACE	32
33	SPACE		1				1		SPACE	34
35	SPACE		1				1		SPACE	36
37	SPACE		1	0			1		SPACE	38
39	SPACE		1				1		SPACE	40
41	SPACE		1	0			1		SPACE	42
CONNECTED LOAD				21852	21552	0	0.0 KVA			



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**Black and Williams**  
**Adult Services Division**  
**498 Georgetown Street**  
**Electrical One Line Diagram**

APPROVED BY:  
 MRB  
 DATE:  
 1-10-2011  
 DRAWN BY:  
 CLR  
 CHECKED BY:  
 MRB  
 REVISION:  
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E7.1