# 2024 HVAC Improvements Medora Community Schools

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# TowerPinkster Architecture · Engineering · Interiors

# DRAWING SHEET INDEX

ARCHITECTU	RAL DRAWIN
۵401	FIRST

MECHANICAL	DRAWINGS
-	

A402

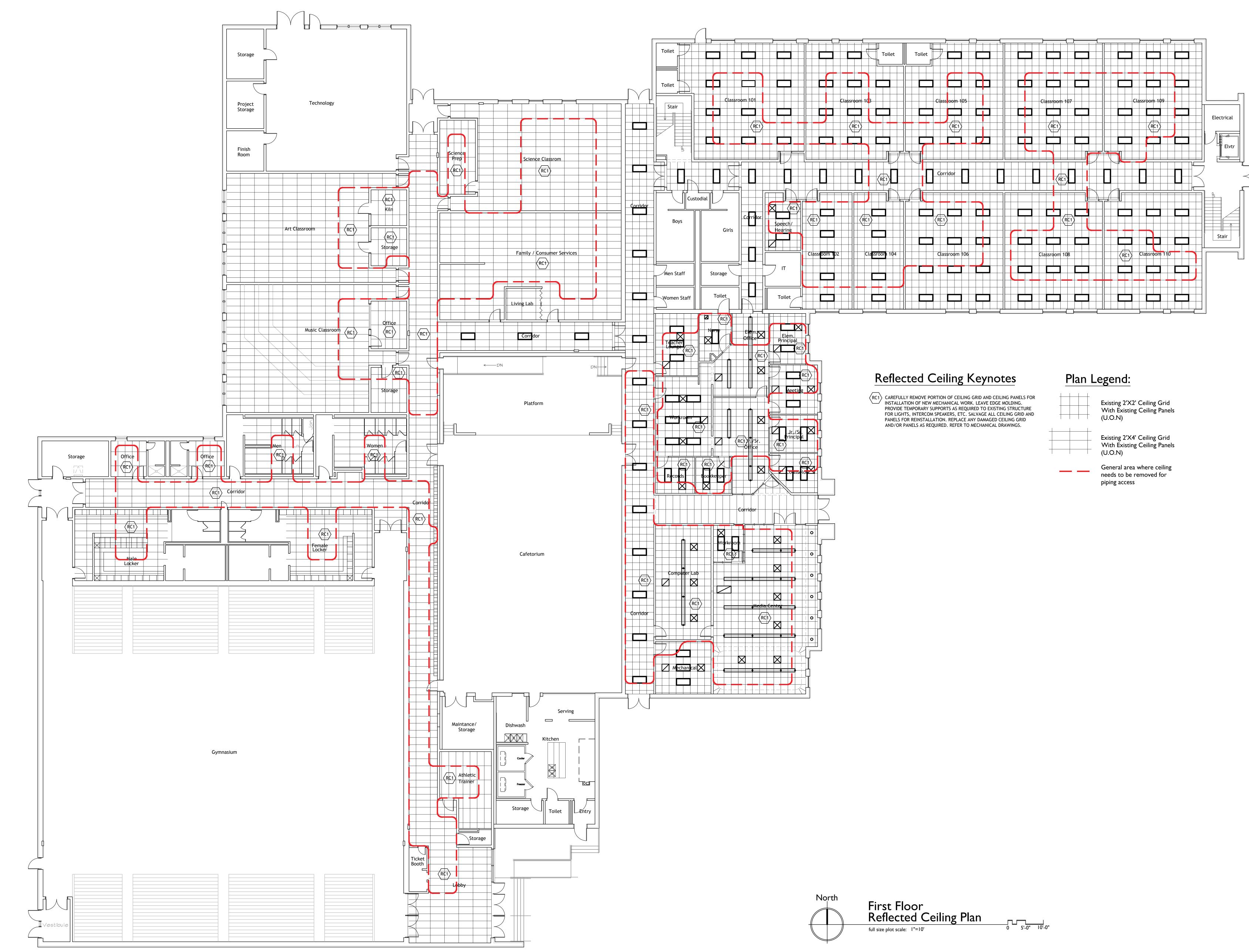
M100	<b>GENERAL</b>	<b>MECHANICAL</b>	LEGEND	AND	NOTES

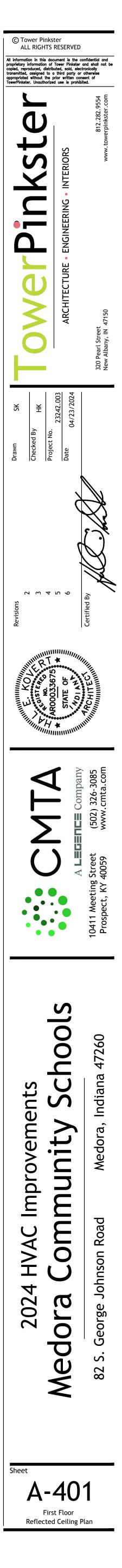
MIUU	GENERAL MECHANICAL LEGEND AND NOTES
M200 M201	AIR DISTRIBUTION PLAN - FIRST FLOOR - AREA 'A' - DEMOLITION AIR DISTRIBUTION PLAN - FIRST FLOOR - AREA 'B' - DEMOLITION
M202	AIR DISTRIBUTION PLAN - FIRST FLOOR - AREA 'C' - DEMOLITION
M203	AIR DISTRIBUTION PLAN - SECOND FLOOR - DEMOLITION
M204	MECHANICAL PLAN - ROOF - DEMOLITION
M300	HYDRONICS - FIRST FLOOR - AREA 'A' - DEMOLITION
M301	HYDRONICS - FIRST FLOOR - AREA 'B' - DEMOLITION
M302	HYDRONICS - FIRST FLOOR - AREA 'C' - DEMOLITION
M303	HYDRONICS - SECOND FLOOR - DEMOLITION
M400	AIR DISTRIBUTION - FIRST FLOOR - AREA 'A' - NEW WORK
M401	AIR DISTRIBUTION - FIRST FLOOR - AREA 'B' - NEW WORK
M402	AIR DISTRIBUTION - FIRST FLOOR - AREA 'C' - NEW WORK
M403	AIR DISTRIBUTION - SECOND FLOOR - NEW WORK
M404	MECHANICAL PLAN - ROOF - NEW WORK
M500	HYDRONICS - FIRST FLOOR - AREA 'A' - NEW WORK
M501	HYDRONICS - FIRST FLOOR - AREA 'B' - NEW WORK
M502	HYDRONICS - FIRST FLOOR - AREA 'C' - NEW WORK
M503	HYDRONICS - SECOND FLOOR - NEW WORK
M600	MECHANICAL EQUIPMENT SCHEDULES
M700	MECHANICAL DETAILS
ELECTRICAL DRAW	INGS
E001	ELECTRICAL LEGEND AND NOTES
	ELECTRICAL LEGEND AND NOTES
E101	ELECTRICAL PLAN - FIRST FLOOR - AREA 'A' - DEMOLITION
-102	FLECTRICAL PLAN - FIRST FLOOR - AREA 'B' - DEMOLITION

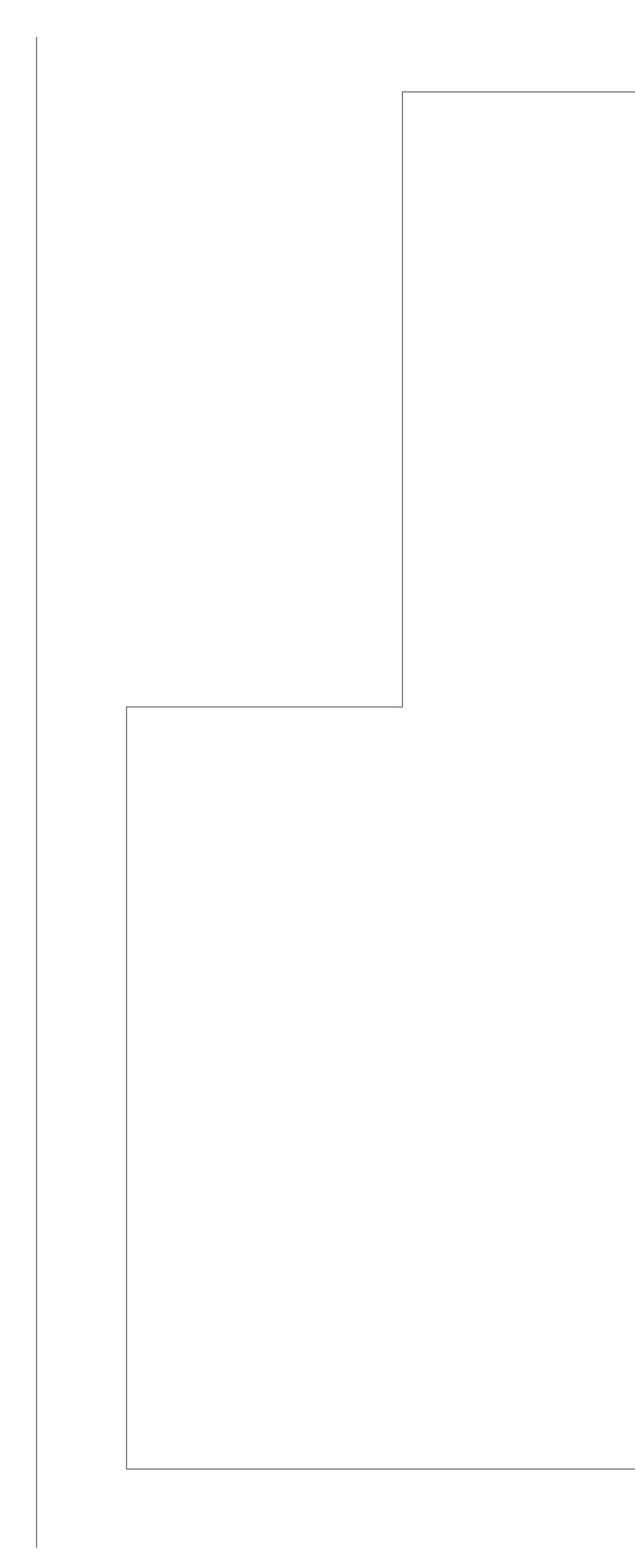
E101	ELECTRICAL PLAN - FIRST FLOOR - AREA 'A' - DEMOLITION
E102	ELECTRICAL PLAN - FIRST FLOOR - AREA 'B' - DEMOLITION
E103	ELECTRICAL PLAN - FIRST FLOOR - AREA 'C' - DEMOLITION
E104	ELECTRICAL PLAN - SECOND FLOOR - AREA 'C' - DEMOLITION
E105	ELECTRICAL PLAN - ROOF - DEMOLITION
E201	ELECTRICAL PLAN - FIRST FLOOR - AREA 'A' - NEW WORK
E202	ELECTRICAL PLAN - FIRST FLOOR - AREA 'B' - NEW WORK
E203	ELECTRICAL PLAN - FIRST FLOOR - AREA 'C' - NEW WORK
E204	ELECTRICAL PLAN - SECOND FLOOR - AREA 'C' - NEW WORK
E205	ELECTRICAL PLAN - ROOF - NEW WORK
<b>F</b> 300	
E300	ELECTRICAL DETAILS

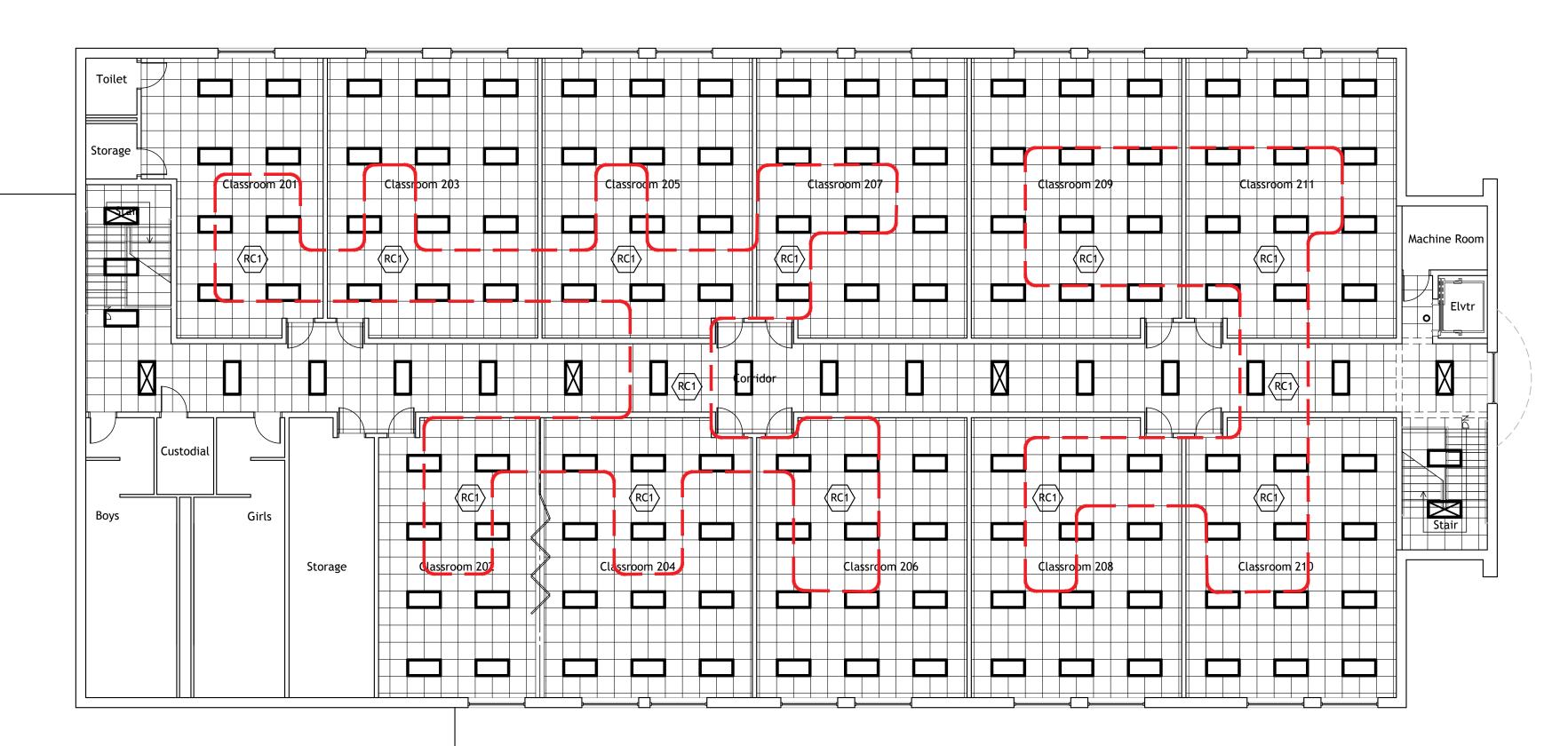
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# Reflected Ceiling Keynotes

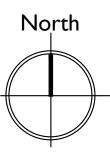
RC1 CAREFULLY REMOVE PORTION OF CEILING GRID AND CEILING PANELS FOR INSTALLATION OF NEW MECHANICAL WORK. LEAVE EDGE MOLDING. PROVIDE TEMPORARY SUPPORTS AS REQUIRED TO EXISTING STRUCTURE FOR LIGHTS, INTERCOM SPEAKERS, ETC. SALVAGE ALL CEILING GRID AND PANELS FOR REINSTALLATION. REPLACE ANY DAMAGED CEILING GRID AND/OR PANELS AS REQUIRED. REFER TO MECHANICAL DRAWINGS.



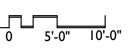


Existing 2'X2' Ceiling Grid With Existing Ceiling Panels (U.O.N)

General area where ceiling needs to be removed for piping access



Second Floor Reflected Ceiling Plan





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# MECHANICAL LEGEND

DIAL THERMOMETER

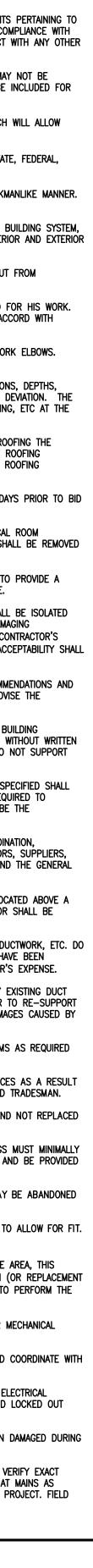
AFC	ABOVE FINISHED CEILING		CONCENTRIC REDUCER
AFF	ABOVE FINISHED FLOOR	N	BUTTERFLY VALVE
TYP	TYPICAL		
NTS	NOT TO SCALE		CHECK VALVE
NO	NORMALLY OPEN		GLOBE VALVE
NC	NORMALLY CLOSED		GATE VALVE (NORMALLY OPEN)
	CONNECT TO EXISTING		GATE VALVE (NORMALLY CLOSED)
V			PETE'S PLUG OR EQUIVALENT
$\bigcirc \bullet$	TAGGED NOTE	<del></del>	STRAINER
	DEMOLISH TO THIS POINT	₹	GAS COCK
	DEMOLISH TO THIS POINT AND CAP		BALANCING COCK
► E(NAME)	EXISTING PIPING (THIN SOLID LINE)	Ō	BALL VALVE
E(NAME)	REMOVE EXISTING PIPING (THIN BROKEN	<b></b>	SAFETY OR RELIEF VALVE
	LINE)		PRESSURE REDUCING VALVE (WATER)
CD	CONDENSATE DRAIN LINE		
CWS	CHILLED WATER SUPPLY		REDUCED PRESSURE BACKFLOW PREVENTER
CWR	CHILLED WATER RETURN		CONTROL VALVE (2-WAY)
HWS	HOT WATER SUPPLY		CONTROL VALVE (3-WAY)
HWR	HOT WATER RETURN		TRIPLE DUTY VALVE
DWS	DUAL TEMP (HOT/COLD) SUPPLY	Ф	DIGITAL THERMOMETER
DWR	DUAL TEMP (HOT/COLD) RETURN		DIGITAL THERMOMETER
REFRIG	REFRIGERANT PIPING, SIZE PER MANUFACTURER RECOMMENDATIONS		MANUAL AIR VENT
$\bigcirc$	MECHANICAL EQUIPMENT DESIGNATOR	`````````````````````````````````	AUTOMATIC AIR VENT
$\bigcirc$		——O ——Э	PIPING ELBOW (TURNED UP/DOWN)
$\bigcirc$	INDICATES AIR DISTRIBUTION DEVICE SPECIFICATION (L=LOUVER, T=TRANSFER	——————————————————————————————————————	PIPING TEE (TURNED UP/DOWN)
	GRILLE, S=SUPPLY DIFFUSER OR REGISTER, R=RETURN GRILLE OR REGISTER, E=		FLEXIBLE CONNECTOR
	EXHAUST GRILLE OR REGISTER)		FLANGE
			UNION
		S	FAN SWITCH
		BS	EMERGENCY BOILER SHUT-OFF SWITCH

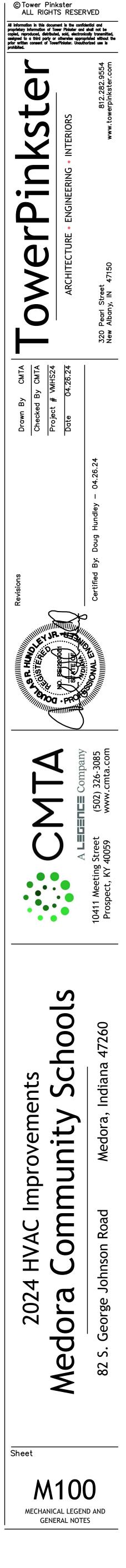
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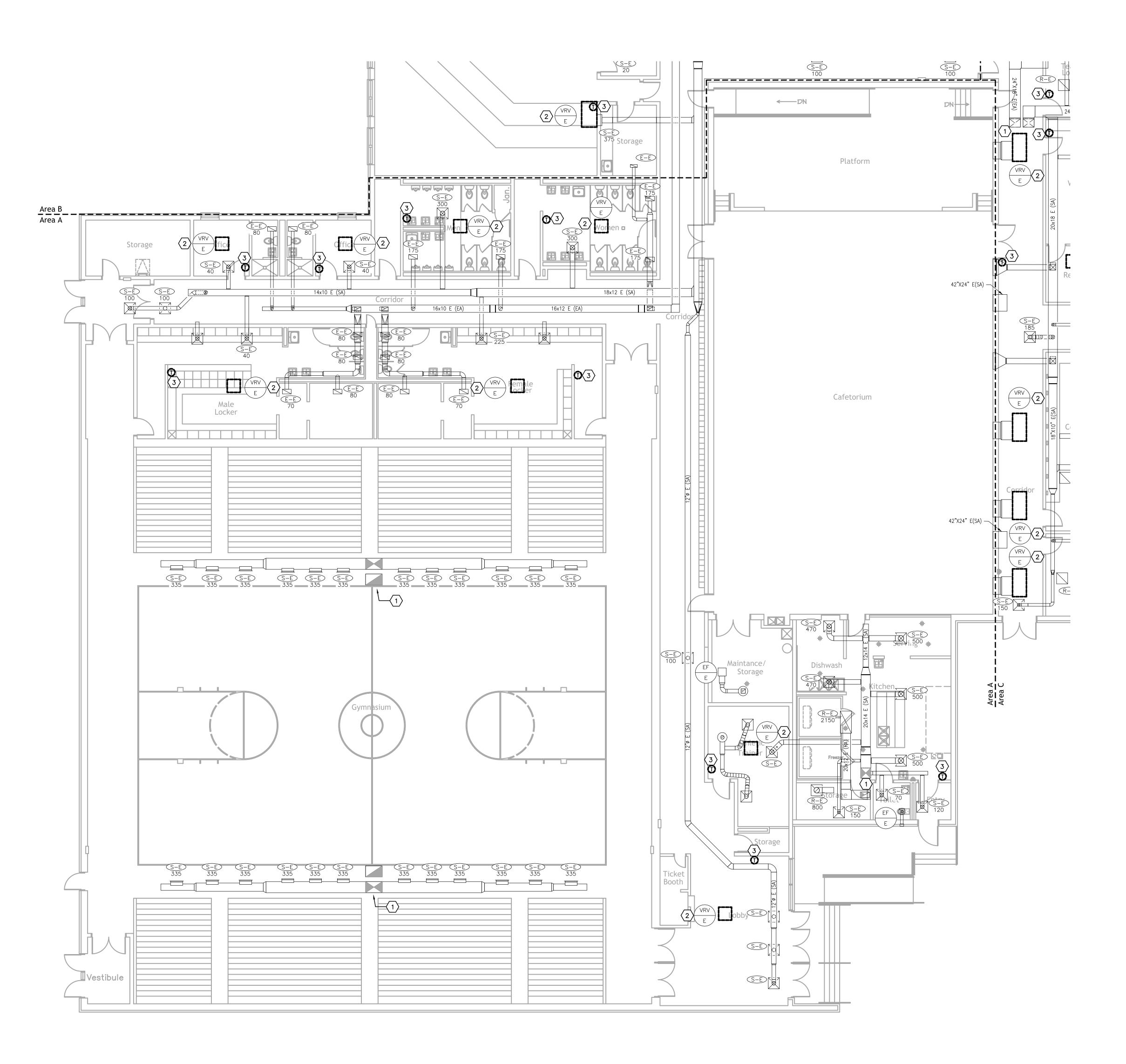
	DUCTWORK DEMOLITION
	EXISTING DUCTWORK TO REMAIN
20X12 SA 🔀	SUPPLY AIR DUCT – INSIDE DIMENSION – 20"HORZ.X12"VERT. (TURNED UP/DOWN)
20X12 RA	RETURN AIR DUCT – INSIDE DIMENSION – (TURNED UP/DOWN)
20X12 EA	EXHAUST AIR DUCT – INSIDE DIMENSION – (TURNED UP/DOWN)
20X12 OA 🔀	OUTSIDE AIR DUCT - INSIDE DIMENSION - (TURNED UP/DOWN)
20X12 REA	RELIEF AIR DUCT - INSIDE DIMENSION - (TURNED UP/DOWN)
	FLEXIBLE DUCT
AD	ACCESS DOOR IN BOTTOM OF DUCT
	ACCESS DOOR IN SIDE OF DUCT
	OPPOSED BLADE DAMPER (MOTORIZED)
	VOLUME DAMPER (MANUAL)
	FIRE DAMPER
₩FD	TURNING VANES
	DEFLECTOR (AT REGISTER OR BRANCH)
<b></b>	TRANSITION – PIPING
$\rightarrow$	DIRECTION OF FLOW (PIPING)
Ts	TEMPERATURE SENSOR WITH STAINLESS STELL COVER PLATE
T	THERMOSTAT
DP	DIFFERENTIAL PRESSURE SENSOR (HYDRONIC)
®−	PRESSURE GAUGE & COCK
Ps	DUCT-MOUNTED STATIC PRESSURE SENSOR
DS	DUCT-MOUNTED SMOKE DETECTOR
602	CARBON DIOXIDE SENSOR
Hs	HUMIDITY SENSOR

GENERAL NOTES (APPLICABLE TO ALL DRAWINGS): EACH CONTRACTOR, SUPPLIER AND OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS AND AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS. PLANS ARE DIAGRAMMATIC, NOT ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSERS' DISCRETION. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC., IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING AND/OR THE COLLECTION OF CONDENSATION THEREON. 4. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.). 5. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT DONE SO SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS. DO NOT SCALE FROM DRAWINGS, PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR. . THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL MATCH EXISTING ADJACENT SURFACES AND BE IN ACCORD WITH OWNER STANDARDS FOR SUCH WORK. . TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCT WORK ELBOWS. REFER TO SPECIFICATION SECTION 15810 FOR MORE DETAIL. 10. THESE DRAWINGS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE, HOWEVER LOCATIONS, DEPTHS, ELEVATIONS AND SIZES WERE TAKEN FROM DIFFERENT SOURCES AND ARE SUBJECT TO DEVIATION. THE CONTRACTOR SHALL ASSUME SOME DEVIATIONS AND INCLUDE OFFSETS, ADDITIONAL PIPING, ETC AT THE TIME OF BID. 11. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATIONS IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANY WAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING INSTALLER. 12. ADVISE THE ENGINEERS OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM. 13. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, ETC. WITH ALL MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S). 14. THE PURPOSE AND INTENT OF ALL THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE. 15. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER. 16. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. 17. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING. DO NOT SUPPORT EQUIPMENT FROM WALLS OR PARTITIONS 18. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER. 19. THE GENERAL CONTRACTOR FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. EACH TRADE SHALL COORDINATE THEIR WORK WITH OTHER TRADES AND THE GENERAL CONTRACTOR. 20. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. 21. ENSURE PROPER COORDINATION BETWEEN ALL TRADES SUCH THAT CONDUITS, PIPING, DUCTWORK, ETC. DO NOT BLOCK ACCESS TO VALVES, EQUIPMENT, DUCT ACCESS DOORS, ETC. ITEMS THAT HAVE BEEN INSTALLED WHERE ACCESS IS COMPROMISED SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE. 22. EXISTING CONDUIT AND WIRING: EXISTING CONDUIT AND WIRING MAY BE SUPPORTED BY EXISTING DUCT AND PIPING HANGERS. COORDINATE WORK WITH ELECTRICAL AND GENERAL CONTRACTOR TO RE-SUPPORT WIRING BEFORE CUTTING HANGERS. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY NOT COORDINATING WORK. 23. INCLUDE IN BID ALL COST ASSOCIATED WITH DRAINING AND FILLING ALL PIPING SYSTEMS AS REQUIRED TO INSTALL WORK. 24. PATCH HOLES IN WALLS, FLOORS, CEILINGS, ROOFS, ETC. TO MATCH ADJACENT SURFACES AS A RESULT OF REMOVAL OF MECHANICAL SYSTEMS. PATCHING SHALL BE PERFORMED BY QUALIFIED TRADESMAN. 25. WHERE THERMOSTATS AND OTHER WALL-MOUNTED CONTROL DEVICES ARE REMOVED AND NOT REPLACED PATCH WALL TO MATCH EXISTING CONDITIONS. 26. ANY VALVES USED FOR TESTING PURPOSES THAT ARE NOT SHOWN ON THESE DRAWINGS MUST MINIMALLY MEET THE QUALITY AND PERFORMANCE OF THE VALVES LISTED IN THE SPECIFICATIONS AND BE PROVIDED AT THE EXPENSE OF THE CONTRACTOR. 27. INACCESSIBLE PIPING BURIED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE ABANDONED IN PLACE. CAP ABANDONED PIPING AND DUCTWORK. 28. EQUIVALENT DUCT SIZES ARE ALLOWED. DUCTWORK MAY BE FLATTENED AS REQUIRED TO ALLOW FOR FIT. DUCT MAY NOT BE FLATTENED LESS THEN (1) IN HEIGHT TO (4) IN WIDTH. 29. WHERE WORK IS REQUIRED ABOVE EXISTING CEILINGS AND/OR OUTSIDE OF WORKSCOPE AREA, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CUT, PATCH, REMOVAL, AND REINSTALLATION (OR REPLACEMENT IF DAMAGED) OF ALL CEILING TILES, HARD CEILINGS, AND GRID MEMBERS NECESSARY TO PERFORM THE WORK. THIS SHALL BE PERFORMED AT THIS CONTRACTOR'S EXPENSE. 30. MECHANICAL CONTRACTOR SHALL CLEAN UP CONSTRUCTION DEBRIS DURING AND AFTER MECHANICAL EQUIPMENT DEMOLITION. 31. MECHANICAL CONTRACTOR SHALL DISPOSE OF DEMOLISHED MECHANICAL EQUIPMENT AND COORDINATE WITH THE CONSTRUCTION MANAGER. 32. PRIOR TO START OF DEMOLITION WORK, MECHANICAL CONTRACTOR SHALL VERIFY WITH ELECTRICAL

- CONTRACTOR THAT POWER FEEDS AND CONTROL WIRING HAVE BEEN DISCONNECTED AND LOCKED OUT FROM MECHANICAL EQUIPMENT WHICH IS TO BE REMOVED. 33. MECHANICAL CONTRACTOR SHALL REPAIR OR REPLACE ANY DUCT OR PIPING INSULATION DAMAGED DURING
- DEMOLITION WORK. 34. WHERE DUCT WORK OR PIPING IS REMOVED TO A MAIN, CAP AT MAIN AIRTIGHT. FIELD VERIFY EXACT CONDITIONS. PROVIDE ALL MATERIALS AS REQUIRED. PROVIDE NEW ISOLATIONS VALVES AT MAINS AS REQUIRED, OR EVERYWHERE NEW WORK TIES INTO EXISTING, AS A STANDARD FOR THE PROJECT. FIELD VERIFY EXACT EXTENT OF WORK PRIOR TO BID.

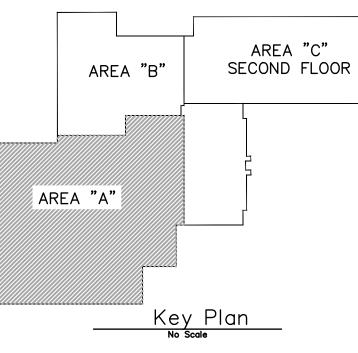




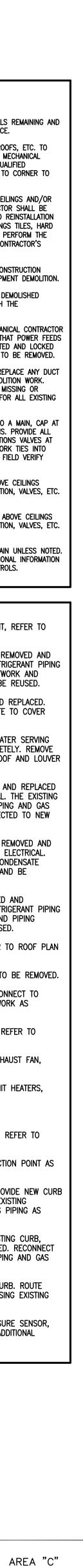


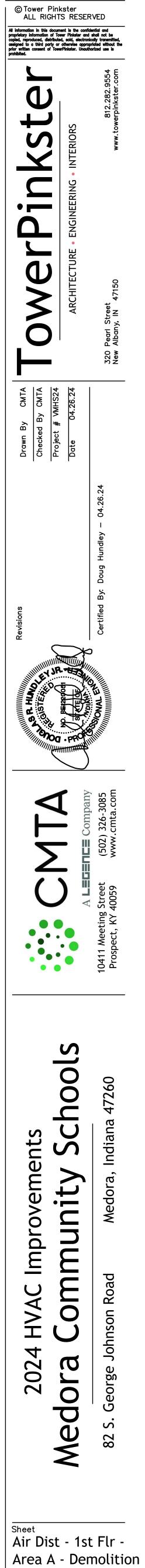
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# Air Distribution Plan - First Floor - Area A - Demolition Scale: 1/8" = 1'0"

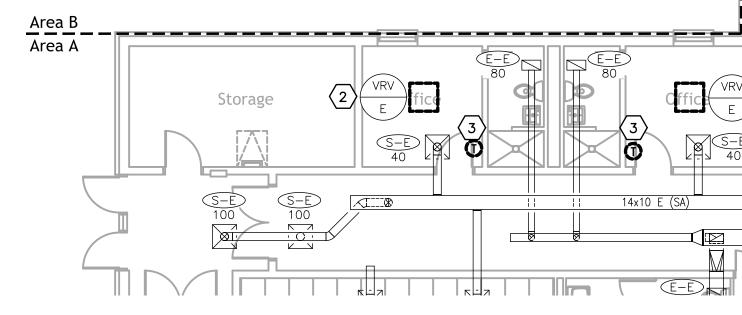


<u>GEN</u>	IERAL NOTES - MECHANICAL DEMOLITION:
A.	INACCESSIBLE PIPING BURIED IN EXISTING WALLS REM CONCRETE SLABS MAY BE ABANDONED IN PLACE.
В.	PATCH HOLES IN WALLS, FLOORS, CEILINGS, ROOFS, MATCH ADJACENT SURFACES AS A RESULT OF MECHA SYSTEMS. PATCH SHALL BE PERFORMED BY QUALIFIEN TRADESMAN. PAINT ALL WALLS FROM CORNER TO COM MATCH ADJACENT CONDITIONS.
C.	WHERE WORK IS REQUIRED ABOVE EXISTING CEILINGS OUTSIDE OF WORKSCOPE AREA, THIS CONTRACTOR SH RESPONSIBLE FOR CUT, PATCH, REMOVAL, AND REINS (OR REPLACEMENT IF DAMAGED) OF ALL CEILINGS TIL CEILINGS, AND GRID MEMBERS NECESSARY TO PERFO WORK. THIS SHALL BE PERFORMED AT THIS CONTRAC EXPENSE.
D.	MECHANICAL CONTRACTOR SHALL CLEAN UP CONSTRU DEBRIS DURING AND AFTER MECHANICAL EQUIPMENT
E.	MECHANICAL CONTRACTOR SHALL DISPOSE OF DEMOLI MECHANICAL EQUIPMENT AND COORDINATE WITH THE CONSTRUCTION MANAGER.
F.	PRIOR TO START OF DEMOLITION WORK, MECHANICAL SHALL VERIFY WITH ELECTRICAL CONTRACTOR THAT PO AND CONTROL WIRING HAVE BEEN DISCONNECTED AN OUT FROM MECHANICAL EQUIPMENT WHICH IS TO BE
G.	MECHANICAL CONTRACTOR SHALL REPAIR OR REPLACE OR PIPING INSULATION DAMAGED DURING DEMOLITION WITHIN ALL AREAS OF WORK, ALL INSULATION MISSING DAMAGED SHALL BE REPAIRED OR REPLACED FOR ALL SYSTEMS.
H.	WHERE DUCT WORK OR PIPING IS REMOVED TO A MA MAIN AIRTIGHT. FIELD VERIFY EXACT CONDITIONS. PRO MATERIALS AS REQUIRED. PROVIDE NEW ISOLATIONS V MAINS AS REQUIRED, OR EVERYWHERE NEW WORK THE EXISTING, AS A STANDARD FOR THE PROJECT. FIELD EXACT EXTENT OF WORK PRIOR TO BID.
I.	REMOVE ALL EXISTING ABANDONED PIPING ABOVE CEIL COMPLETELY INCLUDING ALL HANGERS, INSULATION, V CAP ALL AT MAINS AS REQUIRED.
J.	REMOVE ALL EXISTING ABANDONED DUCTWORK ABOVE COMPLETELY INCLUDING ALL HANGERS, INSULATION, V CAP ALL AT MAINS AS REQUIRED.
К.	ALL EXISTING EQUIPMENT IS EXISTING TO REMAIN UNI REFER TO CONTROL SPECIFICATION FOR ADDITIONAL II ABOUT ADDING AND MODIFYING EXISTING CONTROLS.
	<u>NOTES</u> EXISTING DUCTWORK UP TO ROOFTOP UNIT, REF ROOF PLAN FOR CONTINUATION.
2.	EXISTING VRF INDOOR SPLIT UNIT TO BE REMOV REPLACED INCLUDING ALL CONTROLS, REFRIGER/ AND ELECTRICAL CONNECTIONS. ALL DUCTWORK CONDENSATE PIPING IS TO REMAIN AND BE REL
3.	EXITING THERMOSTAT TO BE REMOVED AND REP PROVIDE BRUSHED STAINLESS STEEL PLATE TO EXISTING WALL OPENING.
4.	EXISTING EXHAUST FAN AND ELECTRIC HEATER S BATHROOMS ARE TO BE REMOVED COMPLETELY. DUCTWORK AS INDICATED TO RISER AT ROOF AN AND CAP WITH INSULATED PANEL.
5.	EXISTING ROOFTOP UNIT TO BE REMOVED AND I INCLUDING ALL CONTROLS AND ELECTRICAL. THE DUCTWORK, ROOF CURB, CONDENSATE PIPING A PIPING ARE TO REMAIN AND BE RECONNECTED UNIT.
6.	EXISTING ENERGY RECOVERY UNIT TO BE REMOVE REPLACED INCLUDING ALL CONTROLS AND ELECT THE EXISTING DUCTWORK, ROOF CURB, CONDEN PIPING AND GAS PIPING ARE TO REMAIN AND B RECONNECTED TO NEW UNIT.
7.	EXISTING HEAT PUMP UNIT IS BE REMOVED AND REPLACED INCLUDING ALL CONTROLS, REFRIGER/ AND ELECTRICAL. THE EXISTING CURB AND PIP PENETRATION IS TO REMAIN AND BE REUSED.
	REFRIGERANT PIPING UP TO ROOF, REFER TO R FOR CONTINUATION.
	EXISTING TEMPERATURE CONTROL PANEL TO BE INSTALL NEW VRF INDOOR UNIT AND RECONNEC
	EXISTING CONDENSATE PIPING AND DUCTWORK A REQUIRED.
	PROVIDE AND INSTALL NEW THERMOSTAT, REFER
	PROVIDE NEW CONTROLS ON EXISTING EXHAUST REFER TO CONTROL SPECIFICATIONS.
	PROVIDE NEW CONTROLS ON EXISTING UNIT HEAREFER TO CONTROL SPECIFICATIONS.
	PROVIDE NEW DAMPER IN DUCT. PROVIDE OCCUPANCY SENSOR IN CEILING, REFE
16.	CONTROL SPECIFICATIONS. TRANSITION TO EXITING DIFFUSER CONNECTION I
17.	REQUIRED. INSTALL ROOFTOP ON EXISTING CURB, PROVIDE ADAPTER AS REQUIRED. RECONNECT TO EXISTIN DUCTWORK, CONDENSATE PIPING AND GAS PIPIN REQUIRED.
18.	REQUIRED. INSTALL ENERGY RECOVERY UNIT ON EXISTING O PROVIDE NEW CURB ADAPTER AS REQUIRED. RE TO EXISTING DUCTWORK, CONDENSATE PIPING AI PIPING AS REQUIRED.
19.	INSTALL HEAT PUMP UNIT ON EXISTING CURB. F REFRIGERANT PIPING TO INDOOR UNITS USING E
20.	ROOF PENETRATION. PROVIDE AND INSTALL NEW DUCT PRESSURE S REFER TO CONTROL SPECIFICATION FOR ADDITIO INFORMATION.

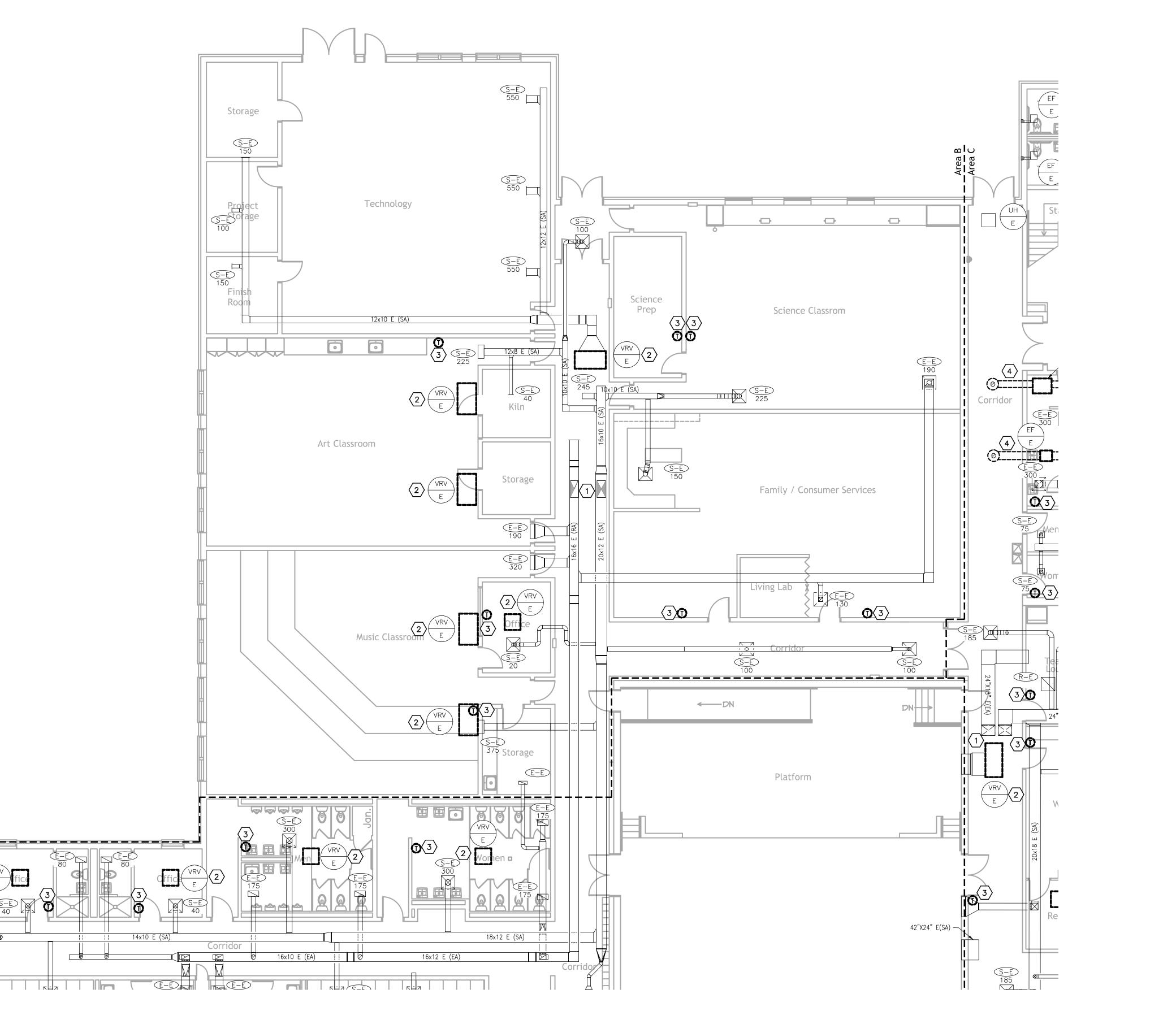




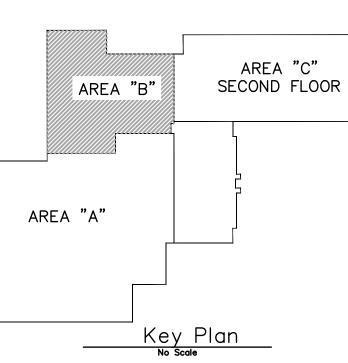
M200



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#### Air Distribution Plan - First Floor - Area B - Demolition Scale: 1⁄8" = 1'0"



#### TAG NOTES 1. EXISTING DUCTWORK UP TO ROOFTOP UNIT, REFER TO

ABOUT ADDING AND MODIFYING EXISTING CONTROLS.

EXACT EXTENT OF WORK PRIOR TO BID.

CAP ALL AT MAINS AS REQUIRED.

CAP ALL AT MAINS AS REQUIRED.

<u>GENERAL NOTES - MECHANICAL DEMOLITION:</u>

MATCH ADJACENT CONDITIONS.

CONSTRUCTION MANAGER.

EXPENSE.

SYSTEMS.

CONCRETE SLABS MAY BE ABANDONED IN PLACE.

SYSTEMS. PATCH SHALL BE PERFORMED BY QUALIFIED

MECHANICAL EQUIPMENT AND COORDINATE WITH THE

- REPLACED INCLUDING ALL CONTROLS, REFRIGERANT PIPING
- 2. EXISTING VRF INDOOR SPLIT UNIT TO BE REMOVED AND
- ROOF PLAN FOR CONTINUATION. AND ELECTRICAL CONNECTIONS. ALL DUCTWORK AND
- CONDENSATE PIPING IS TO REMAIN AND BE REUSED.
- 5. EXITING THERMOSTAT TO BE REMOVED AND REPLACED. PROVIDE BRUSHED STAINLESS STEEL PLATE TO COVER EXISTING WALL OPENING.
- EXISTING EXHAUST FAN AND ELECTRIC HEATER SERVING BATHROOMS ARE TO BE REMOVED COMPLETELY. REMOVE
- DUCTWORK AS INDICATED TO RISER AT ROOF AND LOUVER AND CAP WITH INSULATED PANEL.
- EXISTING ROOFTOP UNIT TO BE REMOVED AND REPLACED INCLUDING ALL CONTROLS AND ELECTRICAL. THE EXISTING DUCTWORK, ROOF CURB, CONDENSATE PIPING AND GAS
- PIPING ARE TO REMAIN AND BE RECONNECTED TO NEW UNIT EXISTING ENERGY RECOVERY UNIT TO BE REMOVED AND REPLACED INCLUDING ALL CONTROLS AND ELECTRICAL.
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- B. REFRIGERANT PIPING UP TO ROOF, REFER TO ROOF PLAN
- FOR CONTINUATION.
- 9. EXISTING TEMPERATURE CONTROL PANEL TO BE REMOVED. 10. INSTALL NEW VRF INDOOR UNIT AND RECONNECT TO
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- 1. PROVIDE AND INSTALL NEW THERMOSTAT, REFER TO CONTROL SPECIFICATIONS.
- 2. PROVIDE NEW CONTROLS ON EXISTING EXHAUST FAN,
- REFER TO CONTROL SPECIFICATIONS. 13. PROVIDE NEW CONTROLS ON EXISTING UNIT HEATERS,
- REFER TO CONTROL SPECIFICATIONS.
- 14. PROVIDE NEW DAMPER IN DUCT.
- 15. PROVIDE OCCUPANCY SENSOR IN CEILING, REFER TO CONTROL SPECIFICATIONS.

REQUIRED.

PIPING AS REQUIRED.

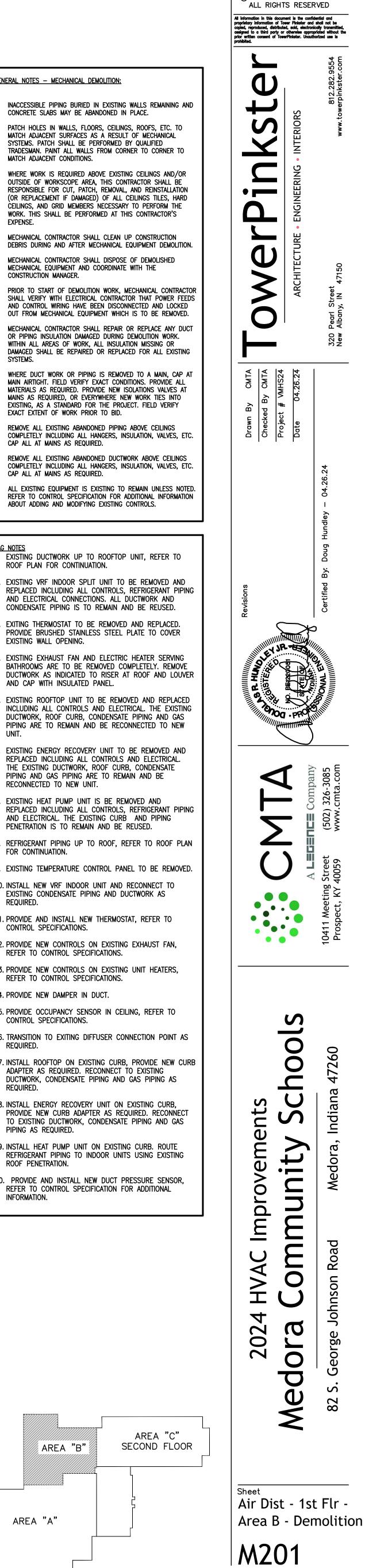
ROOF PENETRATION.

INFORMATION.

- REQUIRED.

- 7. INSTALL ROOFTOP ON EXISTING CURB, PROVIDE NEW CURB

- 6. TRANSITION TO EXITING DIFFUSER CONNECTION POINT AS



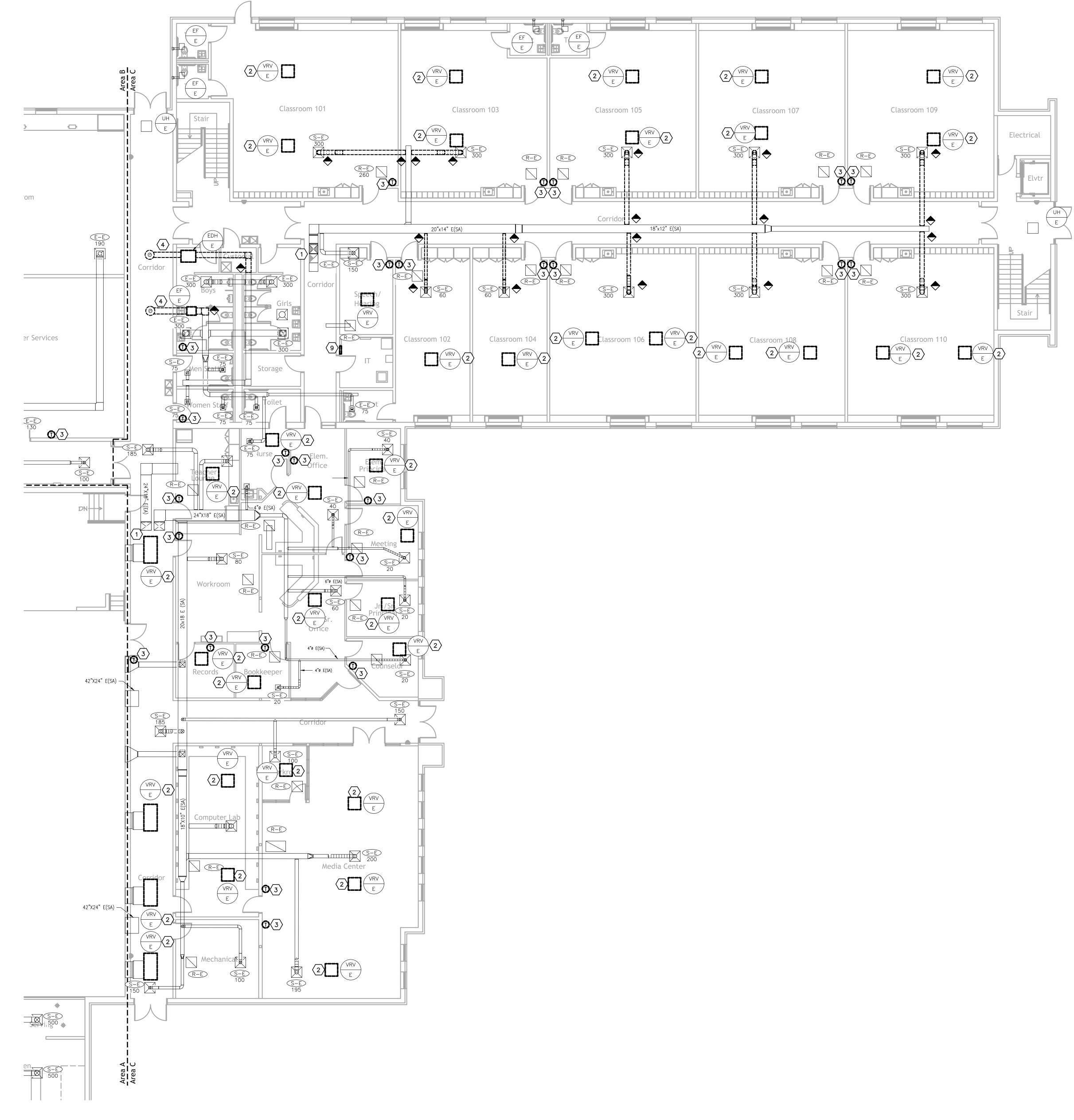
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ADAPTER AS REQUIRED. RECONNECT TO EXISTING DUCTWORK, CONDENSATE PIPING AND GAS PIPING AS

18. INSTALL ENERGY RECOVERY UNIT ON EXISTING CURB, PROVIDE NEW CURB ADAPTER AS REQUIRED. RECONNECT TO EXISTING DUCTWORK, CONDENSATE PIPING AND GAS

19. INSTALL HEAT PUMP UNIT ON EXISTING CURB. ROUTE REFRIGERANT PIPING TO INDOOR UNITS USING EXISTING

0. PROVIDE AND INSTALL NEW DUCT PRESSURE SENSOR, REFER TO CONTROL SPECIFICATION FOR ADDITIONAL



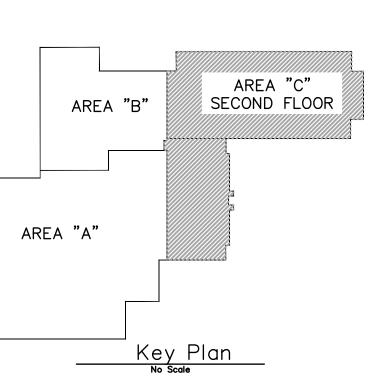
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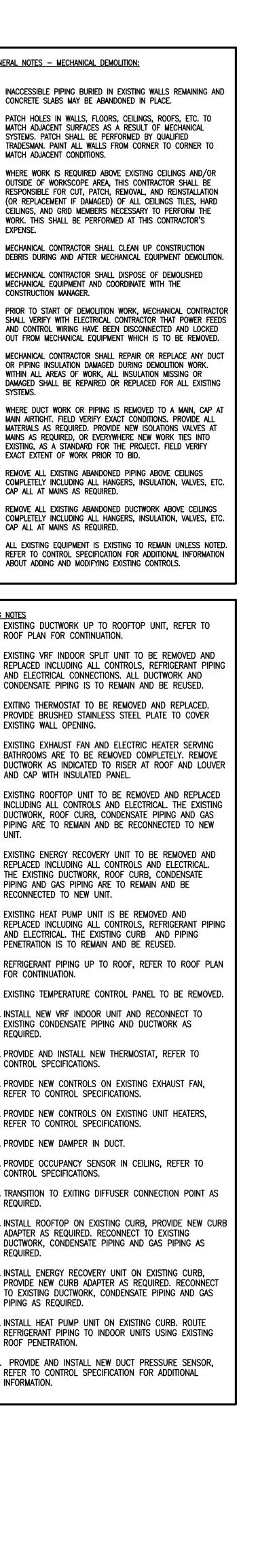
#### <u>GENERAL NOTES - MECHANICAL DEMOLITION:</u>

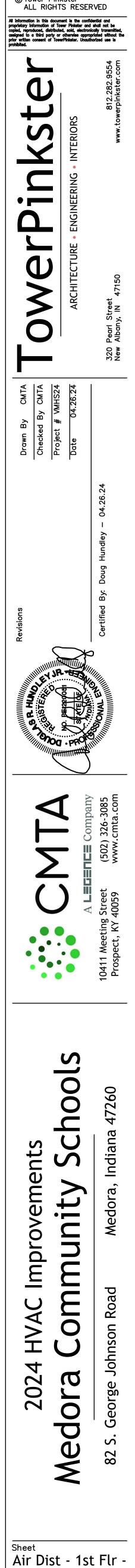
- . INACCESSIBLE PIPING BURIED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE ABANDONED IN PLACE.
- PATCH HOLES IN WALLS, FLOORS, CEILINGS, ROOFS, ETC. TO MATCH ADJACENT SURFACES AS A RESULT OF MECHANICAL SYSTEMS. PATCH SHALL BE PERFORMED BY QUALIFIED TRADESMAN. PAINT ALL WALLS FROM CORNER TO CORNER TO MATCH ADJACENT CONDITIONS.
- WHERE WORK IS REQUIRED ABOVE EXISTING CEILINGS AND/OR OUTSIDE OF WORKSCOPE AREA, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CUT, PATCH, REMOVAL, AND REINSTALLATION (OR REPLACEMENT IF DAMAGED) OF ALL CEILINGS TILES, HARD CEILINGS, AND GRID MEMBERS NECESSARY TO PERFORM THE WORK. THIS SHALL BE PERFORMED AT THIS CONTRACTOR'S EXPENSE.
- MECHANICAL CONTRACTOR SHALL CLEAN UP CONSTRUCTION DEBRIS DURING AND AFTER MECHANICAL EQUIPMENT DEMOLITION. MECHANICAL CONTRACTOR SHALL DISPOSE OF DEMOLISHED MECHANICAL EQUIPMENT AND COORDINATE WITH THE
- CONSTRUCTION MANAGER. PRIOR TO START OF DEMOLITION WORK, MECHANICAL CONTRACTOR
- SHALL VERIFY WITH ELECTRICAL CONTRACTOR THAT POWER FEEDS AND CONTROL WIRING HAVE BEEN DISCONNECTED AND LOCKED OUT FROM MECHANICAL EQUIPMENT WHICH IS TO BE REMOVED.
- MECHANICAL CONTRACTOR SHALL REPAIR OR REPLACE ANY DUCT OR PIPING INSULATION DAMAGED DURING DEMOLITION WORK. WITHIN ALL AREAS OF WORK, ALL INSULATION MISSING OR DAMAGED SHALL BE REPAIRED OR REPLACED FOR ALL EXISTING SYSTEMS.
- WHERE DUCT WORK OR PIPING IS REMOVED TO A MAIN, CAP AT MAIN AIRTIGHT. FIELD VERIFY EXACT CONDITIONS. PROVIDE ALL MATERIALS AS REQUIRED. PROVIDE NEW ISOLATIONS VALVES AT MAINS AS REQUIRED, OR EVERYWHERE NEW WORK TIES INTO EXISTING, AS A STANDARD FOR THE PROJECT. FIELD VERIFY EXACT EXTENT OF WORK PRIOR TO BID.
- REMOVE ALL EXISTING ABANDONED PIPING ABOVE CEILINGS COMPLETELY INCLUDING ALL HANGERS, INSULATION, VALVES, ETC. CAP ALL AT MAINS AS REQUIRED.
- REMOVE ALL EXISTING ABANDONED DUCTWORK ABOVE CEILINGS COMPLETELY INCLUDING ALL HANGERS, INSULATION, VALVES, ETC. CAP ALL AT MAINS AS REQUIRED.
- ALL EXISTING EQUIPMENT IS EXISTING TO REMAIN UNLESS NOTED. REFER TO CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION

#### <u>TAG NOTES</u> . EXISTING DUCTWORK UP TO ROOFTOP UNIT, REFER TO ROOF PLAN FOR CONTINUATION.

- . EXISTING VRF INDOOR SPLIT UNIT TO BE REMOVED AND REPLACED INCLUDING ALL CONTROLS, REFRIGERANT PIPING AND ELECTRICAL CONNECTIONS. ALL DUCTWORK AND CONDENSATE PIPING IS TO REMAIN AND BE REUSED.
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- B. REFRIGERANT PIPING UP TO ROOF, REFER TO ROOF PLAN FOR CONTINUATION.
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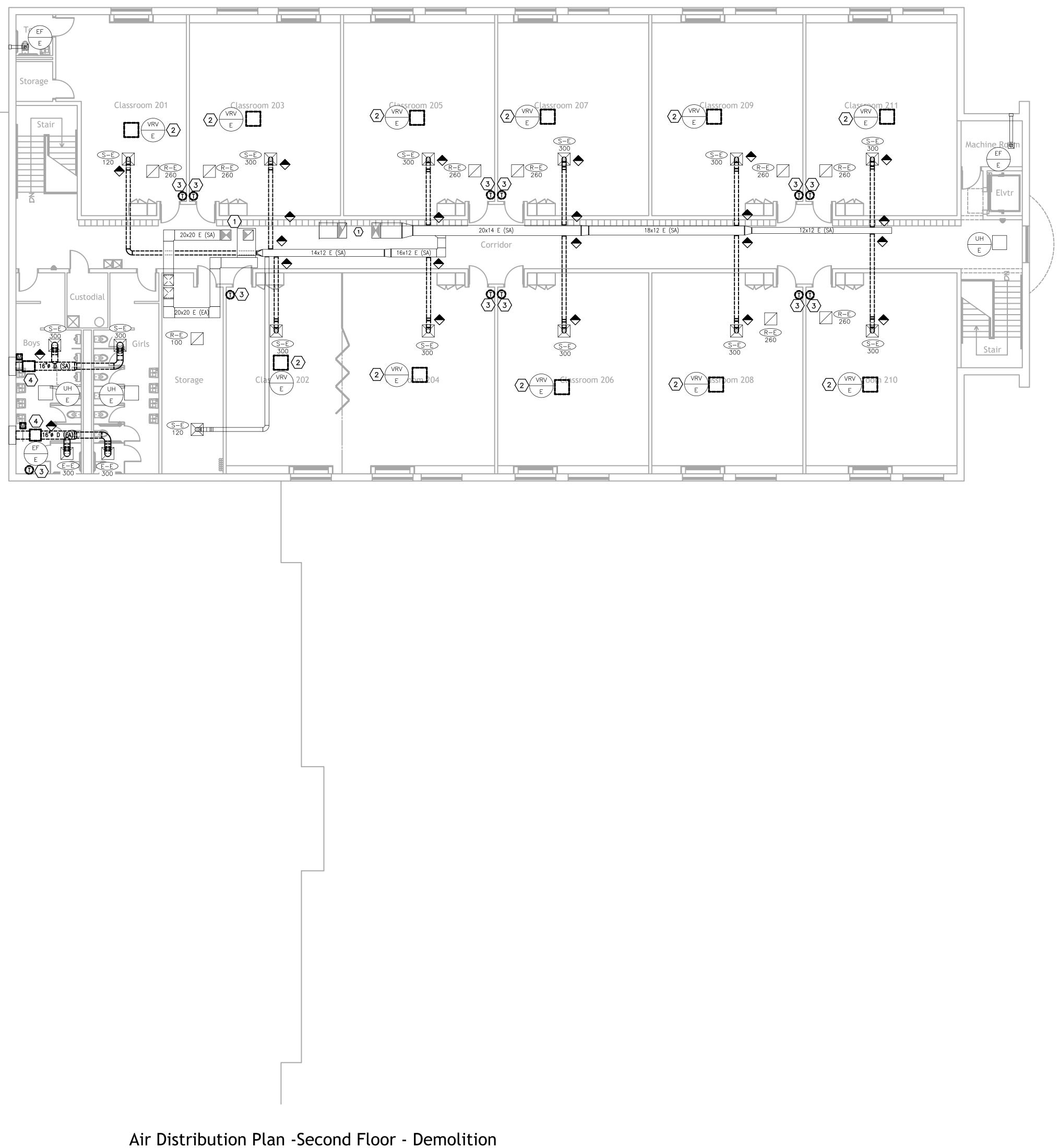




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Area C - Demolition M202

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Scale: 1/8" = 1'0"

#### GENERAL NOTES - MECHANICAL DEMOLITION:

- INACCESSIBLE PIPING BURIED IN EXISTING WALLS REMAINING AND
- CONCRETE SLABS MAY BE ABANDONED IN PLACE.
  B. PATCH HOLES IN WALLS, FLOORS, CEILINGS, ROOFS, ETC. TO MATCH ADJACENT SURFACES AS A RESULT OF MECHANICAL SYSTEMS. PATCH SHALL BE PERFORMED BY QUALIFIED TRADESMAN. PAINT ALL WALLS FROM CORNER TO CORNER TO MATCH ADJACENT CONDITIONS.
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- MECHANICAL CONTRACTOR SHALL CLEAN UP CONSTRUCTION DEBRIS DURING AND AFTER MECHANICAL EQUIPMENT DEMOLITION.

EXPENSE.

MECHANICAL CONTRACTOR SHALL DISPOSE OF DEMOLISHED MECHANICAL EQUIPMENT AND COORDINATE WITH THE

CONSTRUCTION MANAGER.

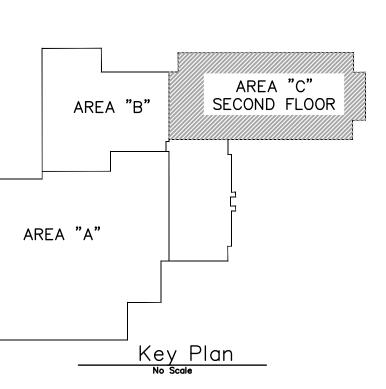
- PRIOR TO START OF DEMOLITION WORK, MECHANICAL CONTRACTOR SHALL VERIFY WITH ELECTRICAL CONTRACTOR THAT POWER FEEDS AND CONTROL WIRING HAVE BEEN DISCONNECTED AND LOCKED OUT FROM MECHANICAL EQUIPMENT WHICH IS TO BE REMOVED.
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- H. WHERE DUCT WORK OR PIPING IS REMOVED TO A MAIN, CAP AT MAIN AIRTIGHT. FIELD VERIFY EXACT CONDITIONS. PROVIDE ALL MATERIALS AS REQUIRED. PROVIDE NEW ISOLATIONS VALVES AT MAINS AS REQUIRED, OR EVERYWHERE NEW WORK TIES INTO EXISTING, AS A STANDARD FOR THE PROJECT. FIELD VERIFY EXACT EXTENT OF WORK PRIOR TO BID.
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- . ALL EXISTING EQUIPMENT IS EXISTING TO REMAIN UNLESS NOTED. REFER TO CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION

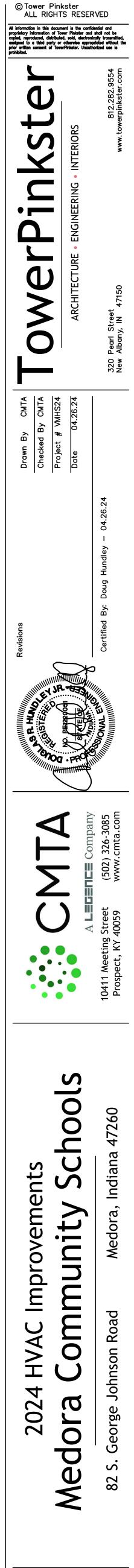
ABOUT ADDING AND MODIFYING EXISTING CONTROLS.

CAP ALL AT MAINS AS REQUIRED.

#### <u>TAG NOTES</u> 1. EXISTING DUCTWORK UP TO ROOFTOP UNIT, REFER TO ROOF PLAN FOR CONTINUATION.

- 2. EXISTING VRF INDOOR SPLIT UNIT TO BE REMOVED AND REPLACED INCLUDING ALL CONTROLS, REFRIGERANT PIPING AND ELECTRICAL CONNECTIONS. ALL DUCTWORK AND CONDENSATE PIPING IS TO REMAIN AND BE REUSED.
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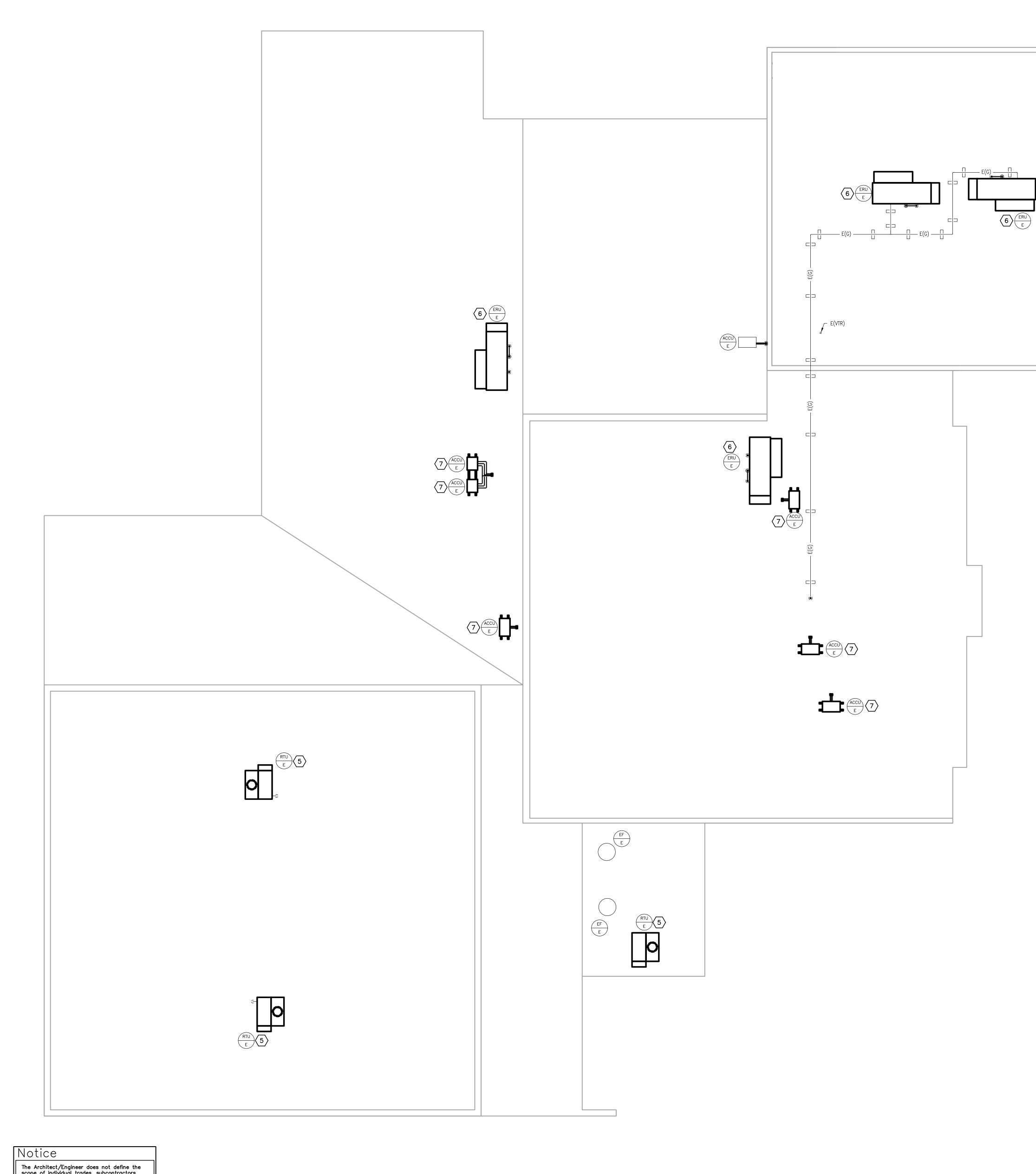


M203

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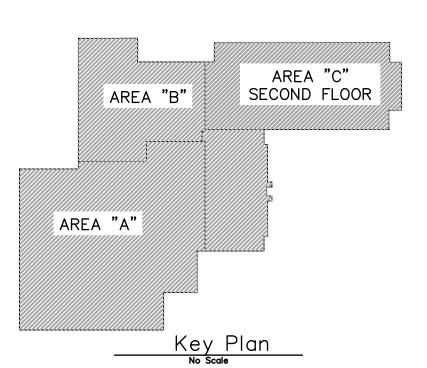
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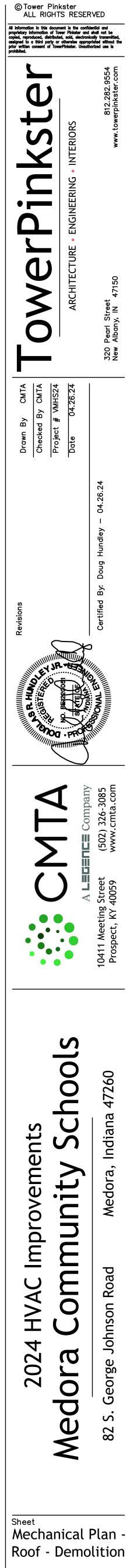
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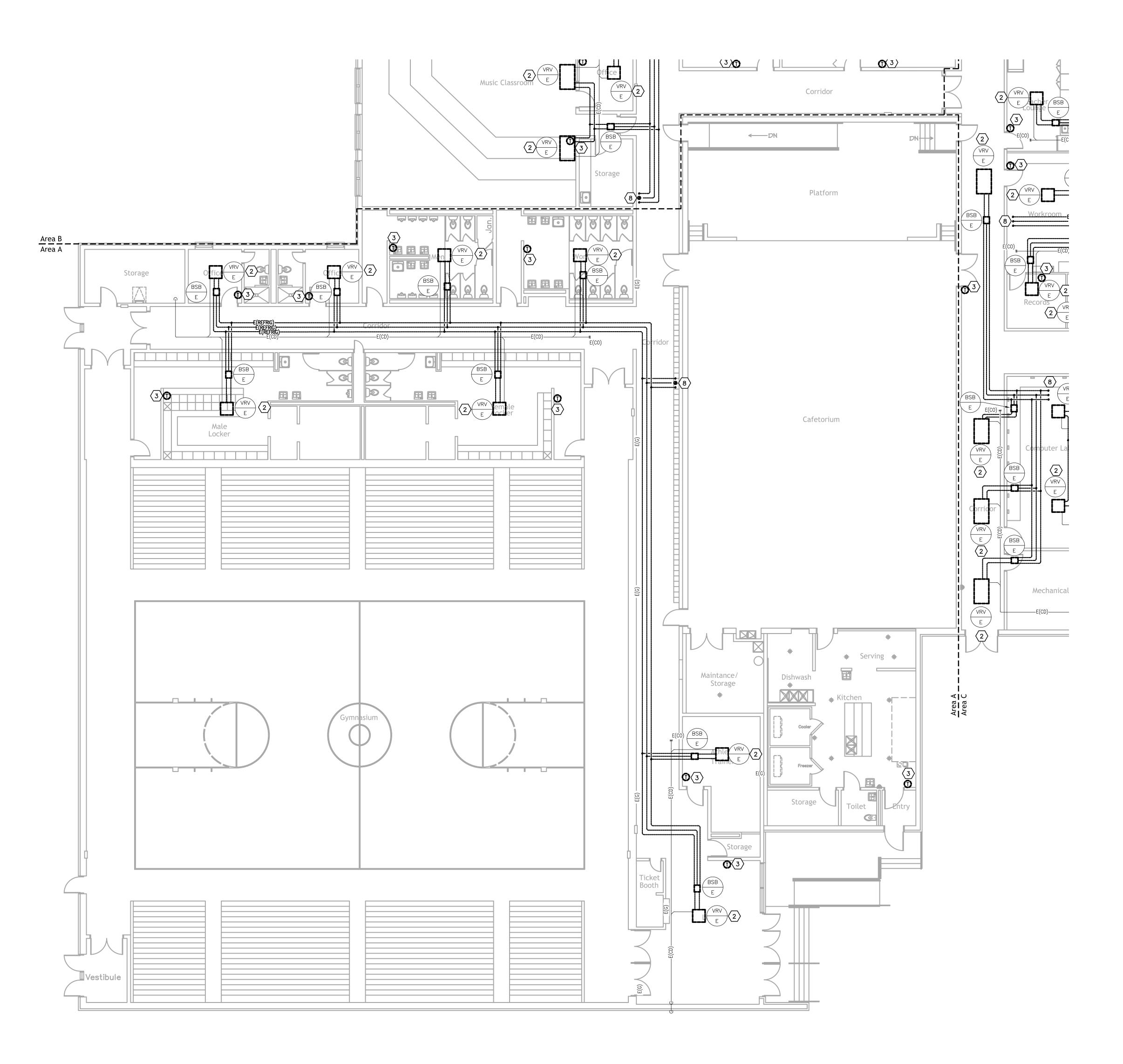
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<u>TAG</u> 1.	<u>NOTES</u> EXISTING DUCTWORK UP TO ROOFTOP UNIT, REFER TO ROOF PLAN FOR CONTINUATION.
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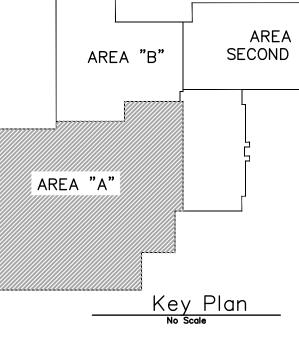


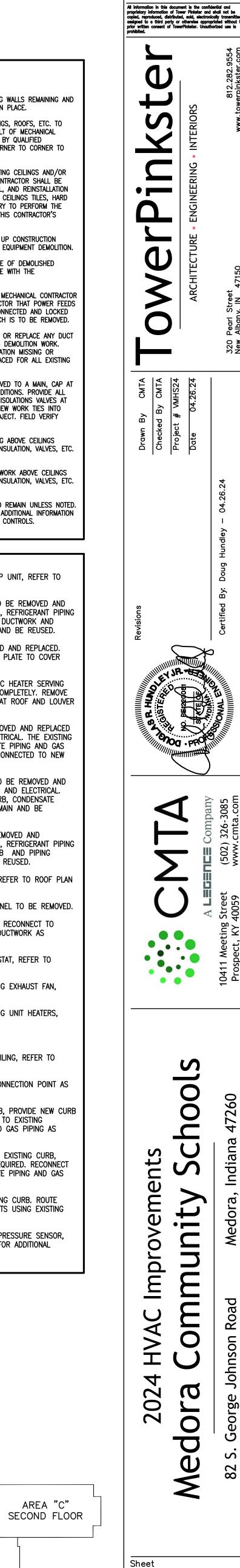
M204



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<u>GENE</u>	RAL NOTES - MECHANICAL DEMOLITION:
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	MECHANICAL CONTRACTOR SHALL REPAIR OR REPLACE ANY DUCT OR PIPING INSULATION DAMAGED DURING DEMOLITION WORK. WITHIN ALL AREAS OF WORK, ALL INSULATION MISSING OR DAMAGED SHALL BE REPAIRED OR REPLACED FOR ALL EXISTING SYSTEMS.
	WHERE DUCT WORK OR PIPING IS REMOVED TO A MAIN, CAP AT MAIN AIRTIGHT. FIELD VERIFY EXACT CONDITIONS. PROVIDE ALL WATERIALS AS REQUIRED. PROVIDE NEW ISOLATIONS VALVES AT WAINS AS REQUIRED, OR EVERYWHERE NEW WORK TIES INTO EXISTING, AS A STANDARD FOR THE PROJECT. FIELD VERIFY EXACT EXTENT OF WORK PRIOR TO BID.
	REMOVE ALL EXISTING ABANDONED PIPING ABOVE CEILINGS COMPLETELY INCLUDING ALL HANGERS, INSULATION, VALVES, ETC. CAP ALL AT MAINS AS REQUIRED.
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	ALL EXISTING EQUIPMENT IS EXISTING TO REMAIN UNLESS NOTED. REFER TO CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION ABOUT ADDING AND MODIFYING EXISTING CONTROLS.
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E	XISTING EXHAUST FAN AND ELECTRIC HEATER SERVING BATHROOMS ARE TO BE REMOVED COMPLETELY. REMOVE DUCTWORK AS INDICATED TO RISER AT ROOF AND LOUVER AND CAP WITH INSULATED PANEL.
ll C F	EXISTING ROOFTOP UNIT TO BE REMOVED AND REPLACED NCLUDING ALL CONTROLS AND ELECTRICAL. THE EXISTING DUCTWORK, ROOF CURB, CONDENSATE PIPING AND GAS PIPING ARE TO REMAIN AND BE RECONNECTED TO NEW JNIT.
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/ [	NSTALL ROOFTOP ON EXISTING CURB, PROVIDE NEW CURB ADAPTER AS REQUIRED. RECONNECT TO EXISTING DUCTWORK, CONDENSATE PIPING AND GAS PIPING AS REQUIRED.
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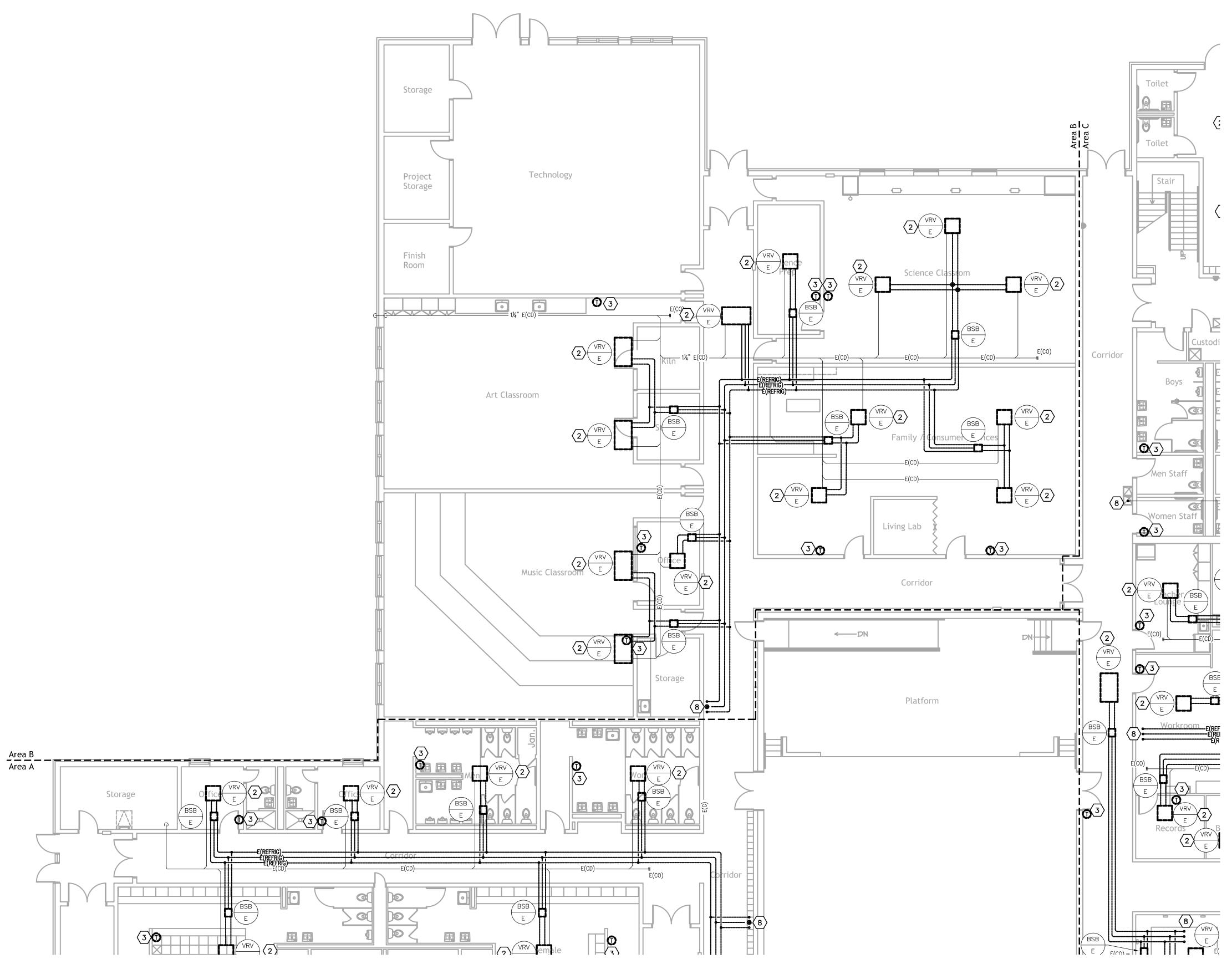
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Hydronics - 1st Flr -Area A - Demolition

M300

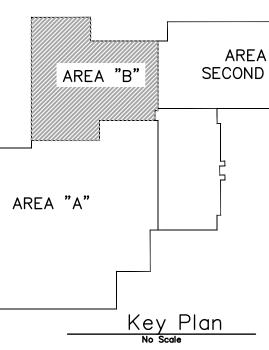
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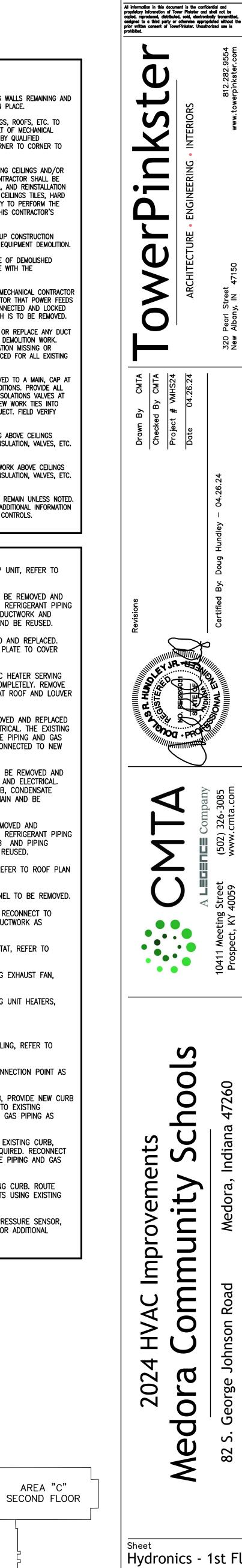
# Area A Storage



#### Hydronics - First Floor - Area B - Demolition Scale: 1⁄8" = 1'0"

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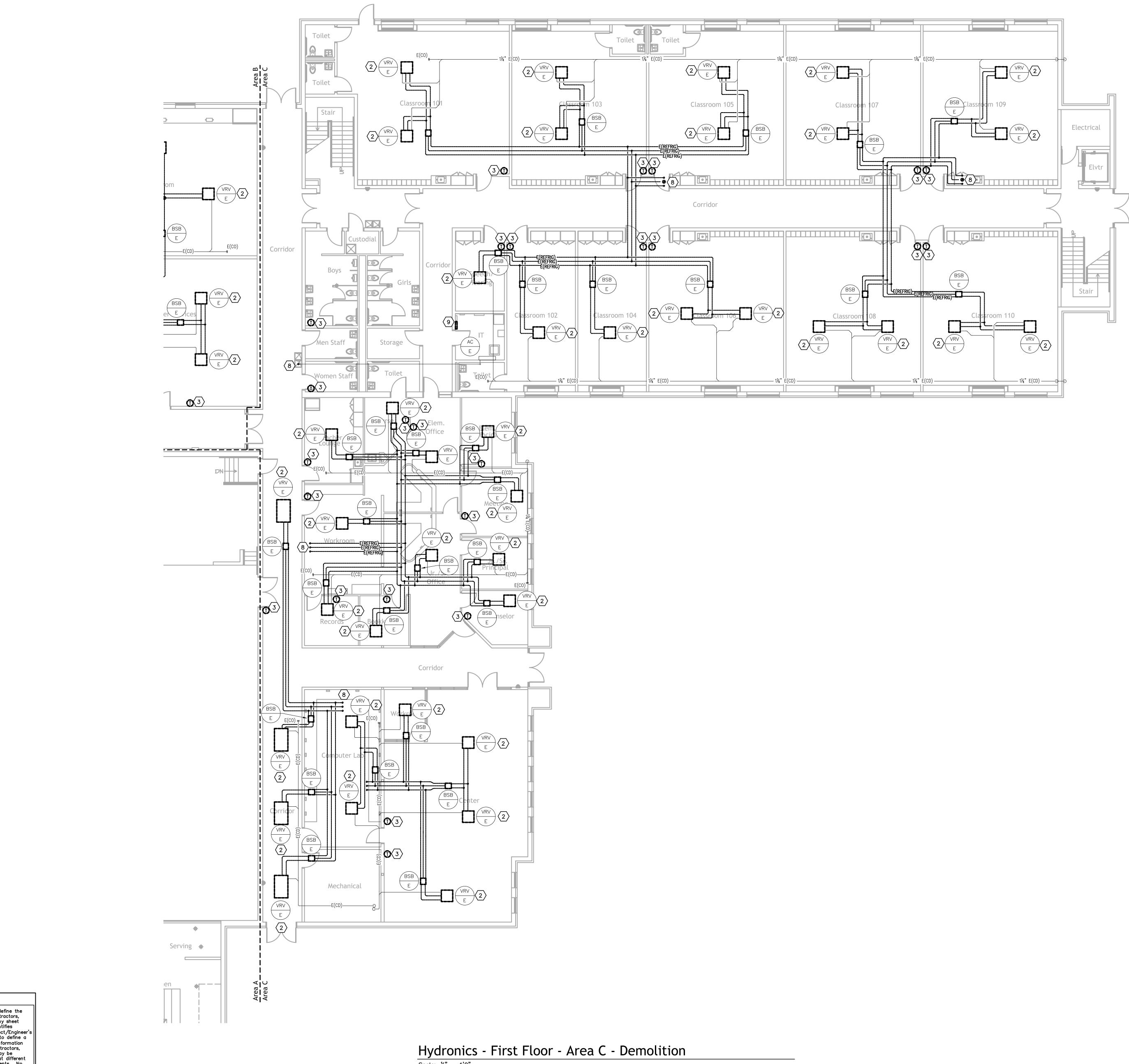
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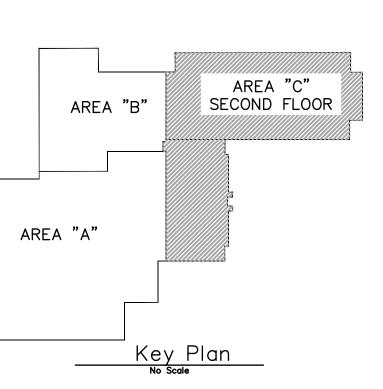
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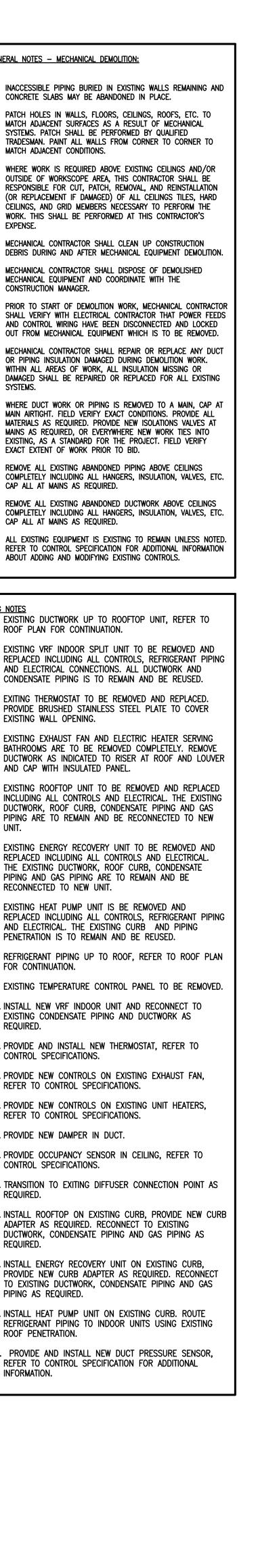
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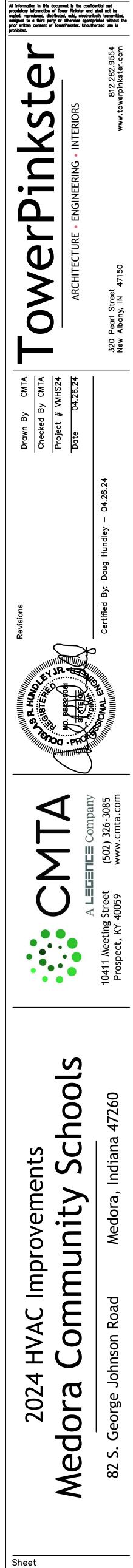
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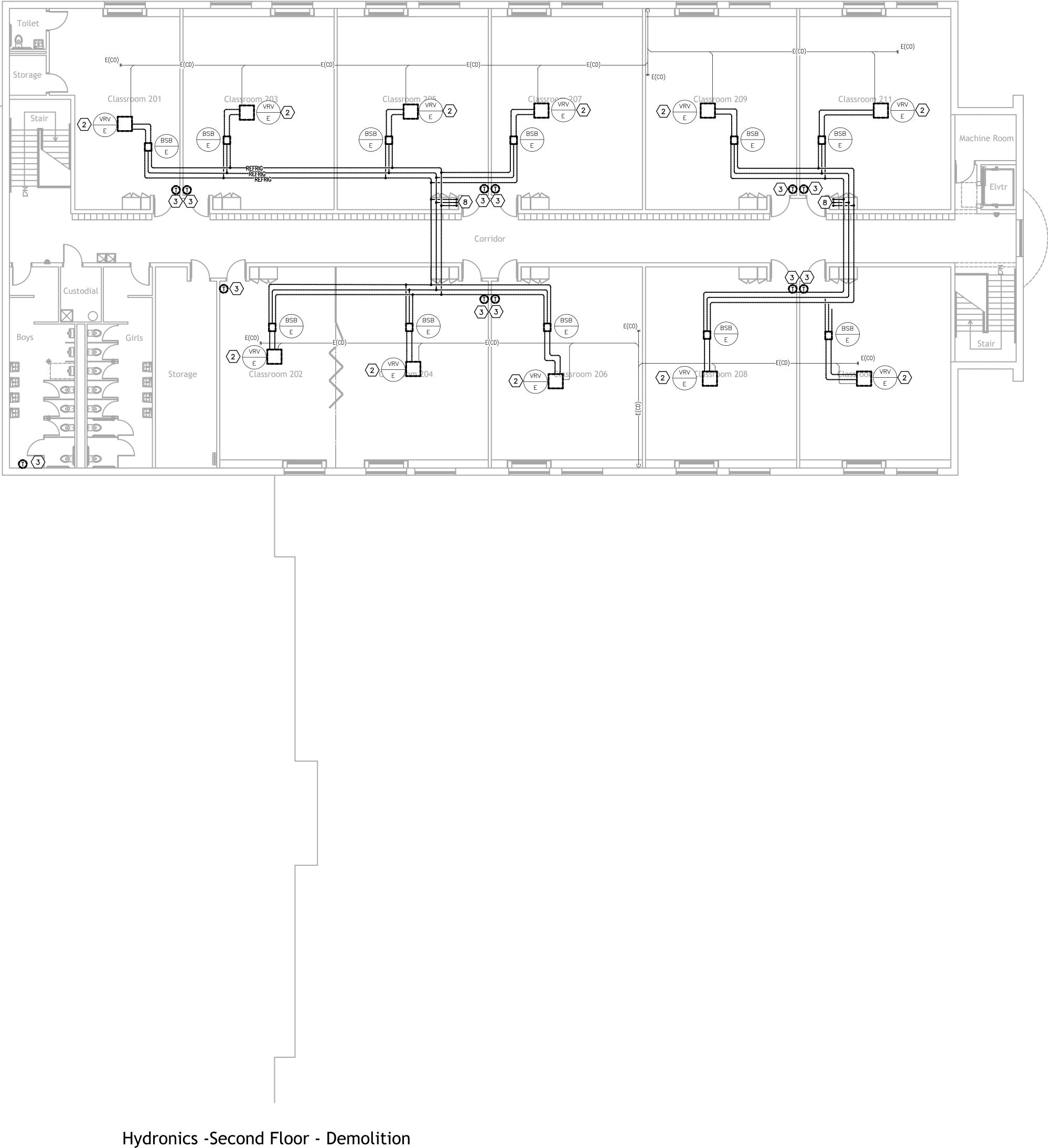
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Hydronics - 1st Flr -Area C - Demolition

M302

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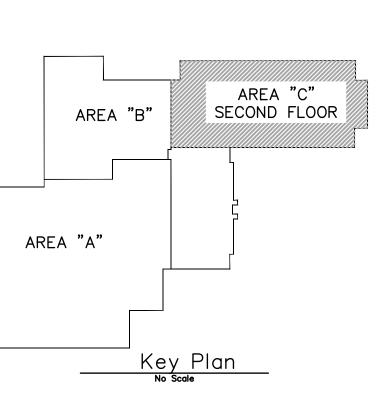
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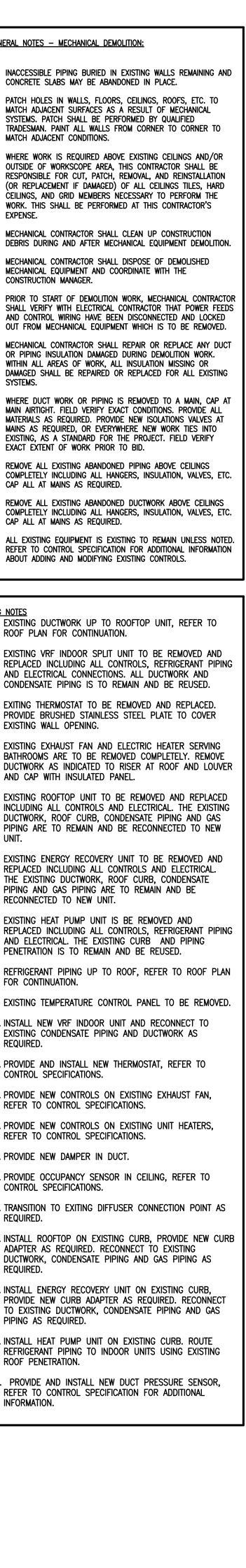
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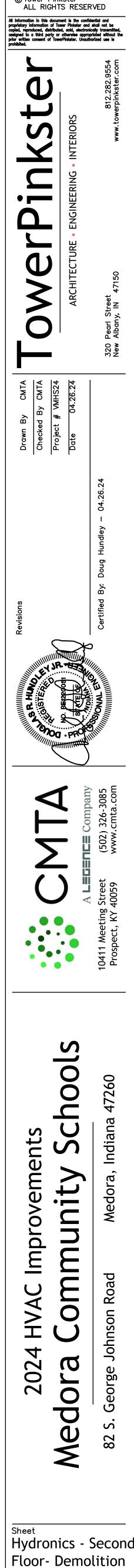
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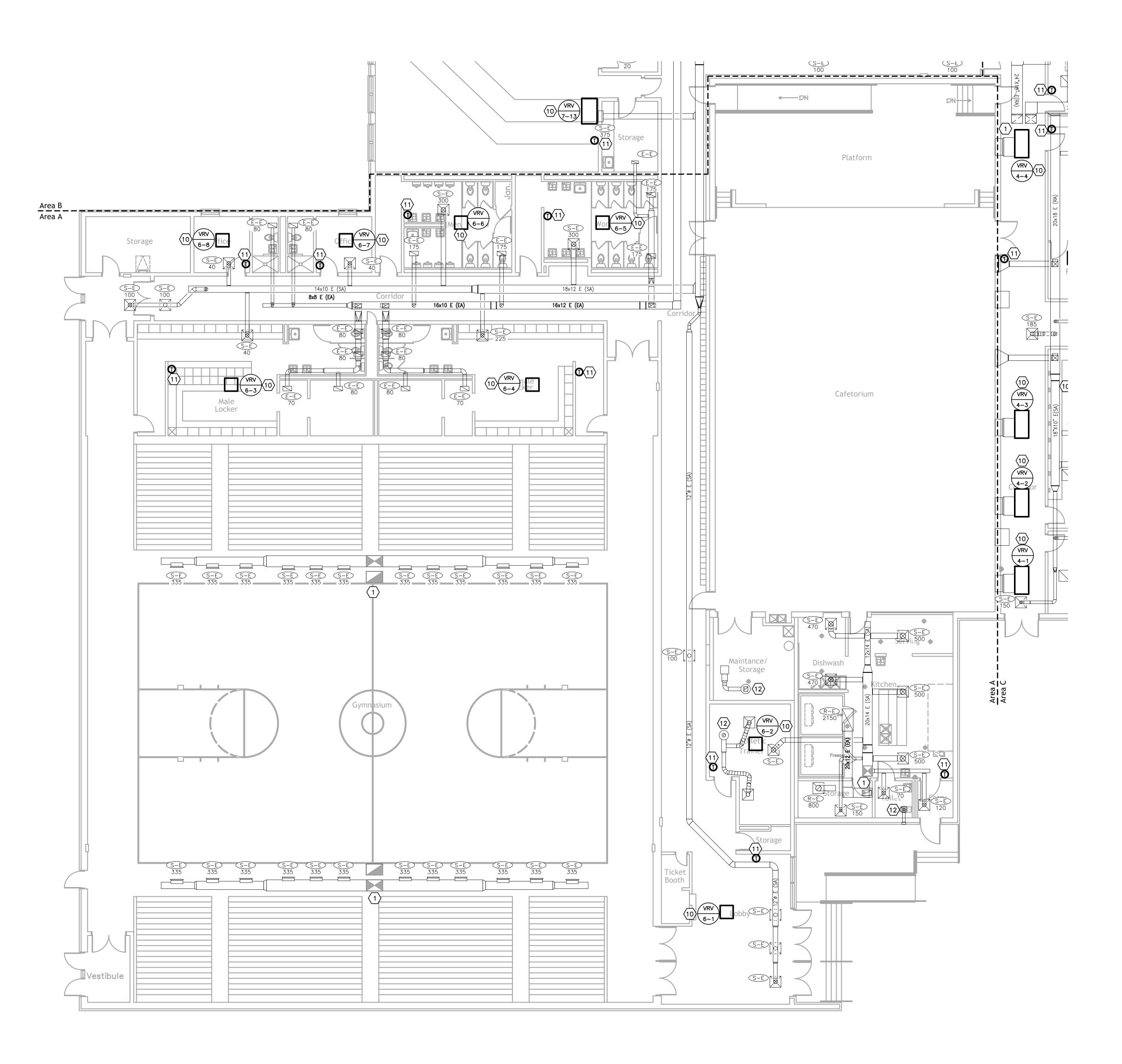






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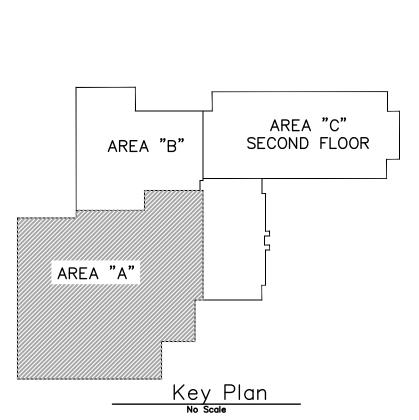
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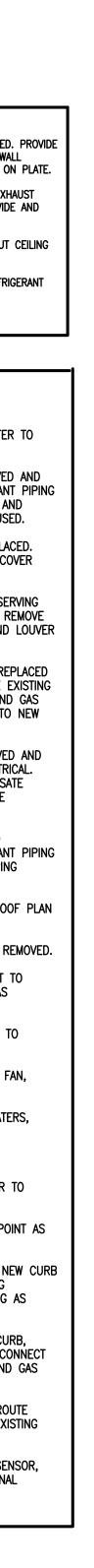
# Air Distribution Plan - First Floor - Area A - New Work

#### GENERAL NOTES:

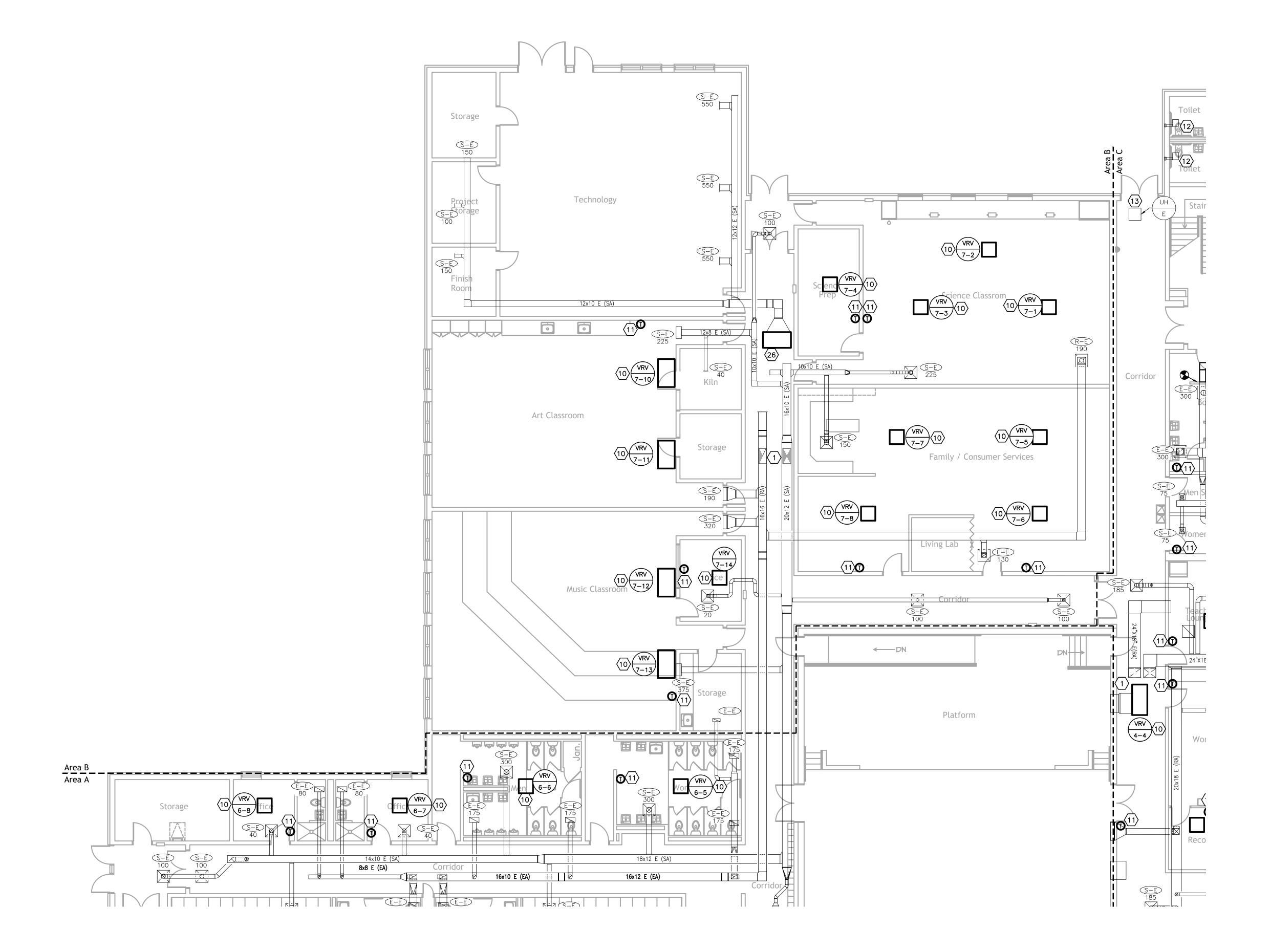
- WHERE EXISTING THERMOSTATS ARE BEING REPLACED. PROVIDE A STAINLESS STEEL COVER PLATE OVER EXISTING WALL OPENING AS REQUIRED. INSTALL NEW THERMOSTAT ON PLATE.
   REBALANCE ALL EXISTING SUPPLY, RETURN, AND EXHAUST GRILLES TO EXISTING AIRFLOW AS REQUIRED. PROVIDE AND INSTALL NEW VOLUME DAMPERS AND TAKEOFFS.
- INSTALL NEW VOLUME DAMPERS AND TAKEOFFS.
   REFER TO ARCHITECTURAL PLANS FOR NOTES ABOUT CEILING
- REMOVAL AND REINSTALLATION. 4. REFER TO EQUIPMENT SPECIFICATION FOR VRF REFI
- REFER TO EQUIPMENT SPECIFICATION FOR VRF REFRIGERANT PIPING AND ELECTRICAL DIAGRAM.

- 1. EXISTING DUCTWORK UP TO ROOFTOP UNIT, REFER TO ROOF PLAN FOR CONTINUATION.
- 2. EXISTING VRF INDOOR SPLIT UNIT TO BE REMOVED AND REPLACED INCLUDING ALL CONTROLS, REFRIGERANT PIPING AND ELECTRICAL CONNECTIONS. ALL DUCTWORK AND CONDENSATE PIPING IS TO REMAIN AND BE REUSED.
- 3. EXITING THERMOSTAT TO BE REMOVED AND REPLACED. PROVIDE BRUSHED STAINLESS STEEL PLATE TO COVER EXISTING WALL OPENING.
- 4. EXISTING EXHAUST FAN AND ELECTRIC HEATER SERVING BATHROOMS ARE TO BE REMOVED COMPLETELY. REMOVE DUCTWORK AS INDICATED TO RISER AT ROOF AND LOUVER AND CAP WITH INSULATED PANEL.
- 5. EXISTING ROOFTOP UNIT TO BE REMOVED AND REPLACED INCLUDING ALL CONTROLS AND ELECTRICAL. THE EXISTING DUCTWORK, ROOF CURB, CONDENSATE PIPING AND GAS PIPING ARE TO REMAIN AND BE RECONNECTED TO NEW UNIT.
- 5. EXISTING ENERGY RECOVERY UNIT TO BE REMOVED AND REPLACED INCLUDING ALL CONTROLS AND ELECTRICAL. THE EXISTING DUCTWORK, ROOF CURB, CONDENSATE PIPING AND GAS PIPING ARE TO REMAIN AND BE RECONNECTED TO NEW UNIT.
- 7. EXISTING HEAT PUMP UNIT IS BE REMOVED AND REPLACED INCLUDING ALL CONTROLS, REFRIGERANT PIPING AND ELECTRICAL. THE EXISTING CURB AND PIPING PENETRATION IS TO REMAIN AND BE REUSED.
- REFRIGERANT PIPING UP TO ROOF, REFER TO ROOF PLAN FOR CONTINUATION.
   EXISTING TEMPERATURE CONTROL PANEL TO BE REMOVED.
- 10. INSTALL NEW VRF INDOOR UNIT AND RECONNECT TO EXISTING CONDENSATE PIPING AND DUCTWORK AS REQUIRED.
- 11. PROVIDE AND INSTALL NEW THERMOSTAT, REFER TO CONTROL SPECIFICATIONS.
- 12. PROVIDE NEW CONTROLS ON EXISTING EXHAUST FAN, REFER TO CONTROL SPECIFICATIONS.
- 13. PROVIDE NEW CONTROLS ON EXISTING UNIT HEATERS, REFER TO CONTROL SPECIFICATIONS.
- 14. PROVIDE NEW DAMPER IN DUCT.
- 15. PROVIDE OCCUPANCY SENSOR IN CEILING, REFER TO CONTROL SPECIFICATIONS.
- TRANSITION TO EXITING DIFFUSER CONNECTION POINT AS REQUIRED.
   INSTALL POOFTOP ON EXISTING CUPB PROVIDE NEW CUPB
- 17. INSTALL ROOFTOP ON EXISTING CURB, PROVIDE NEW CURB ADAPTER AS REQUIRED. RECONNECT TO EXISTING DUCTWORK, CONDENSATE PIPING AND GAS PIPING AS REQUIRED.
- 18. INSTALL ENERGY RECOVERY UNIT ON EXISTING CURB, PROVIDE NEW CURB ADAPTER AS REQUIRED. RECONNECT TO EXISTING DUCTWORK, CONDENSATE PIPING AND GAS PIPING AS REQUIRED.
- 19. INSTALL HEAT PUMP UNIT ON EXISTING CURB. ROUTE REFRIGERANT PIPING TO INDOOR UNITS USING EXISTING ROOF PENETRATION.
- 20. PROVIDE AND INSTALL NEW DUCT PRESSURE SENSOR, REFER TO CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.









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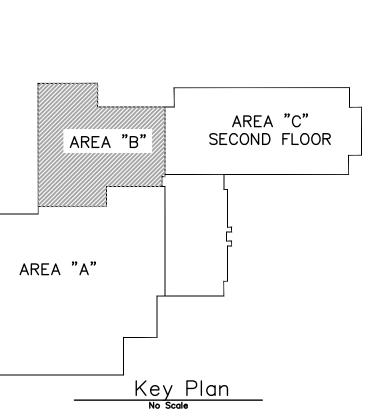
# Air Distribution Plan - First Floor - Area B - New Work

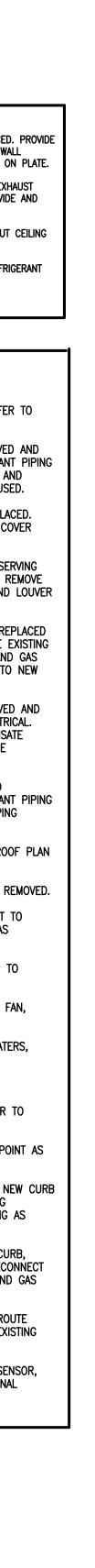
Scale: 1⁄8" = 1'0"

- GENERAL NOTES:
- . WHERE EXISTING THERMOSTATS ARE BEING REPLACED. PROVIDE A STAINLESS STEEL COVER PLATE OVER EXISTING WALL OPENING AS REQUIRED. INSTALL NEW THERMOSTAT ON PLATE.
- 2. REBALANCE ALL EXISTING SUPPLY, RETURN, AND EXHAUST GRILLES TO EXISTING AIRFLOW AS REQUIRED. PROVIDE AND INSTALL NEW VOLUME DAMPERS AND TAKEOFFS. 3. REFER TO ARCHITECTURAL PLANS FOR NOTES ABOUT CEILING
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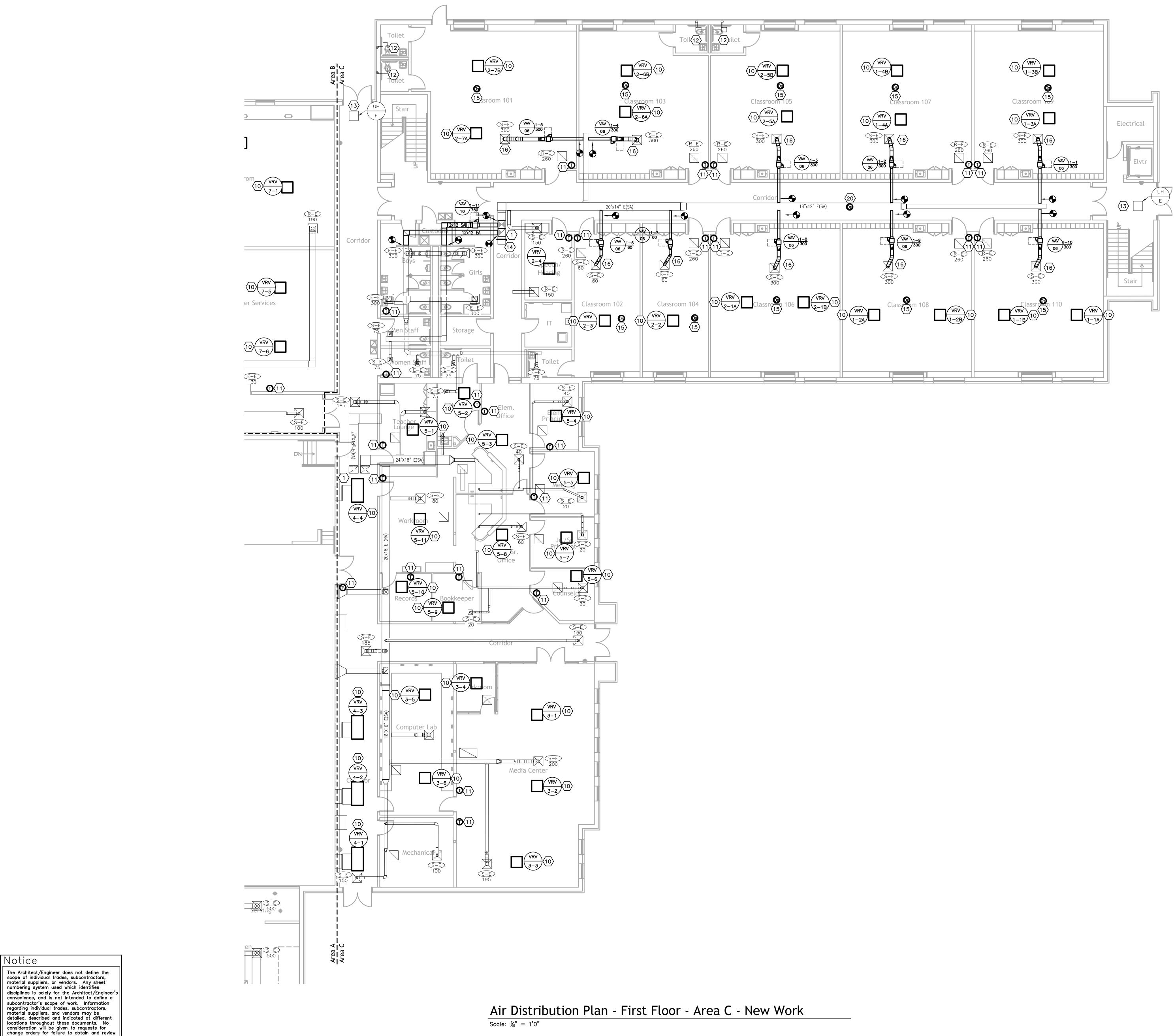
#### <u>TAG NOTES</u>

- EXISTING DUCTWORK UP TO ROOFTOP UNIT, REFER TO ROOF PLAN FOR CONTINUATION.
- 2. EXISTING VRF INDOOR SPLIT UNIT TO BE REMOVED AND REPLACED INCLUDING ALL CONTROLS, REFRIGERANT PIPING AND ELECTRICAL CONNECTIONS. ALL DUCTWORK AND CONDENSATE PIPING IS TO REMAIN AND BE REUSED.
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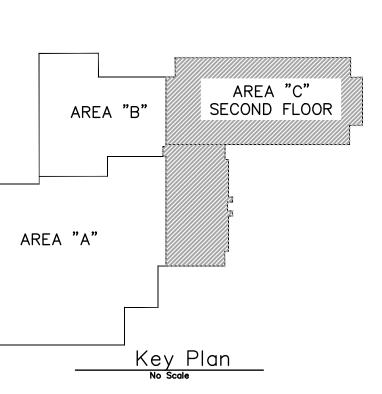
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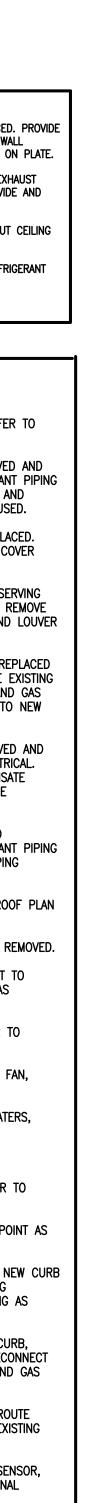
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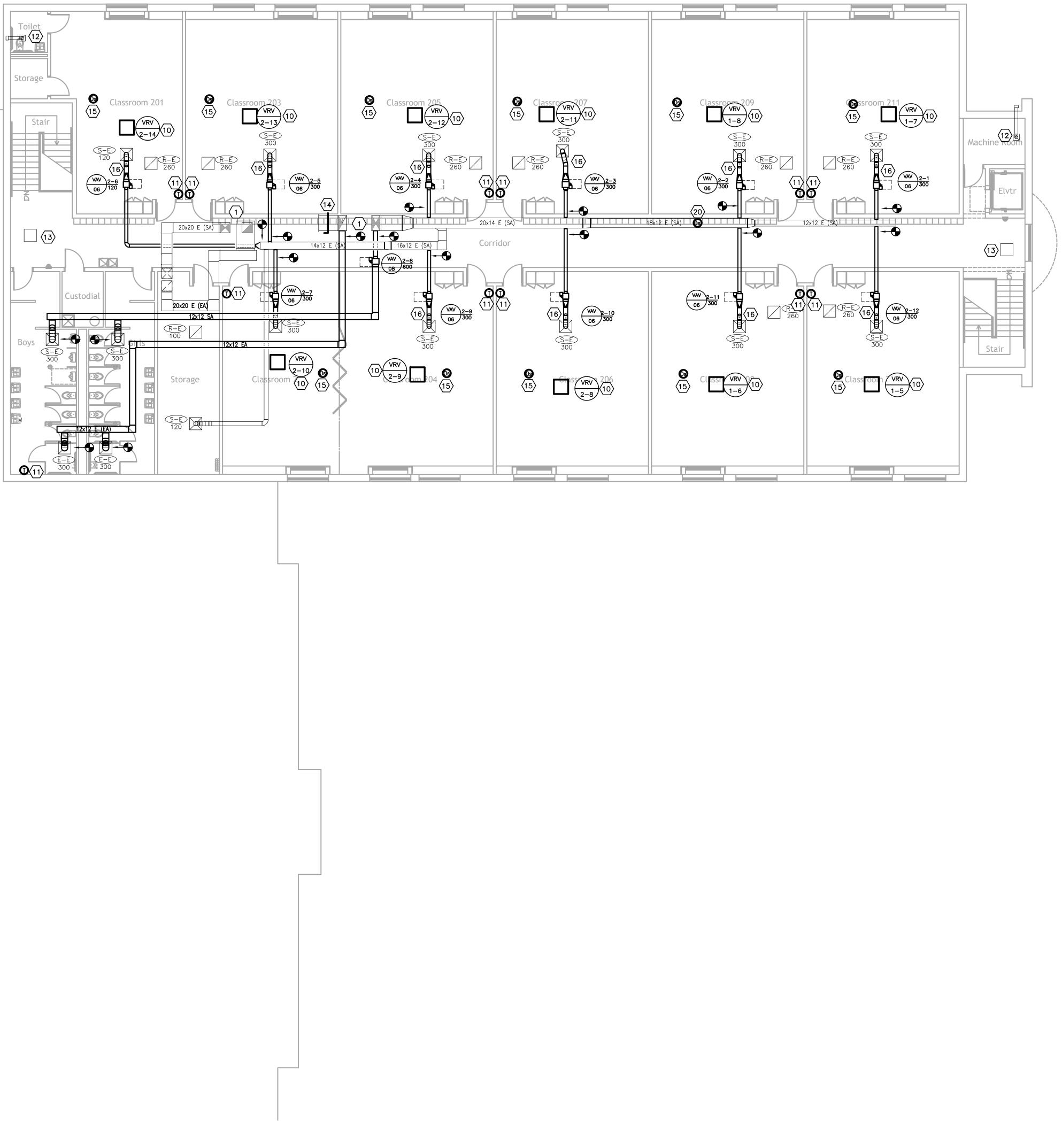
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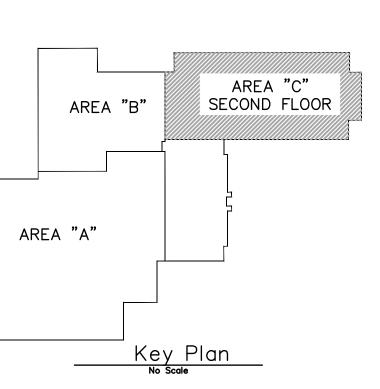
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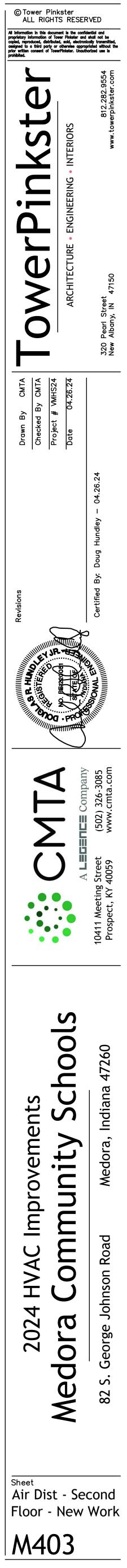
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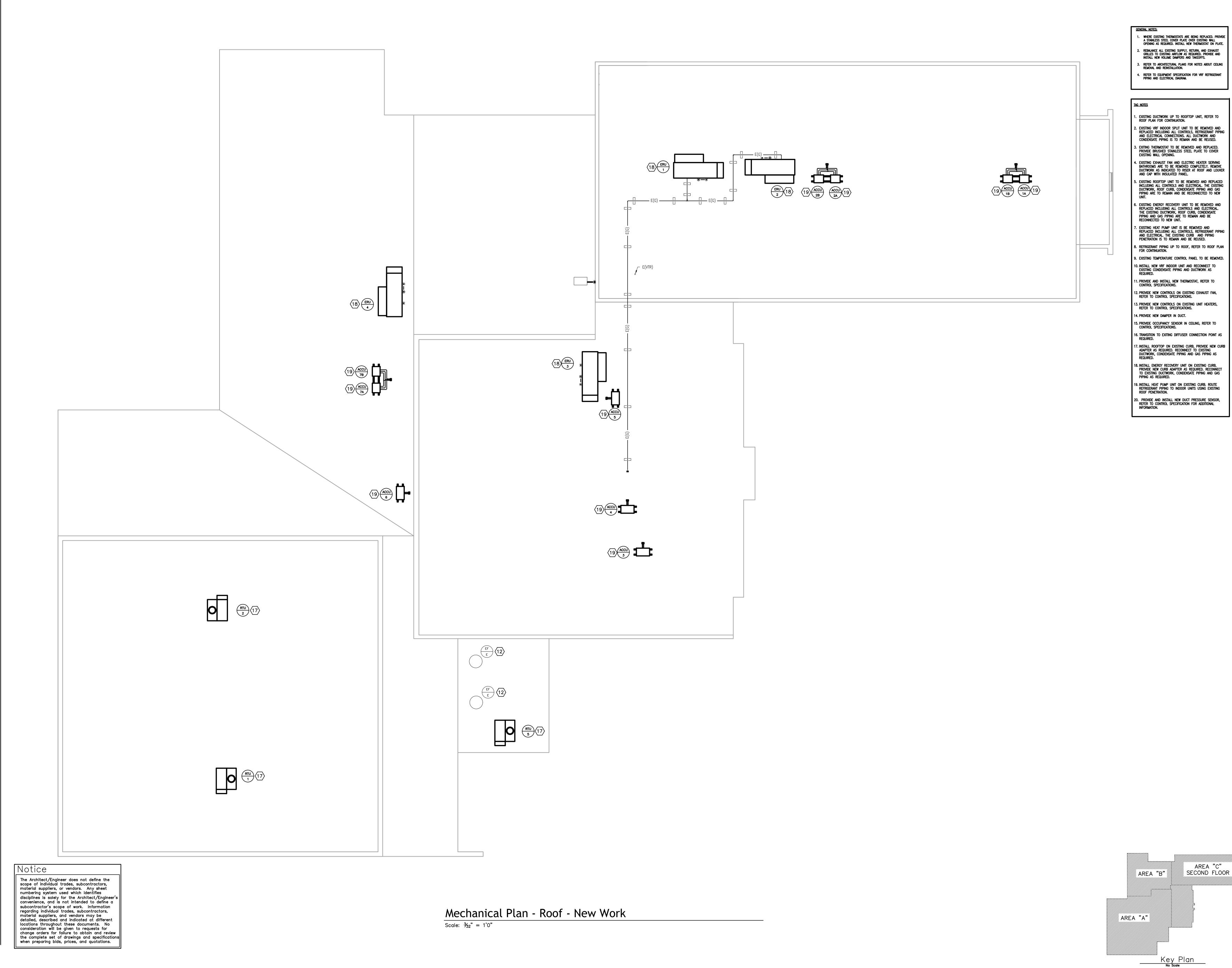
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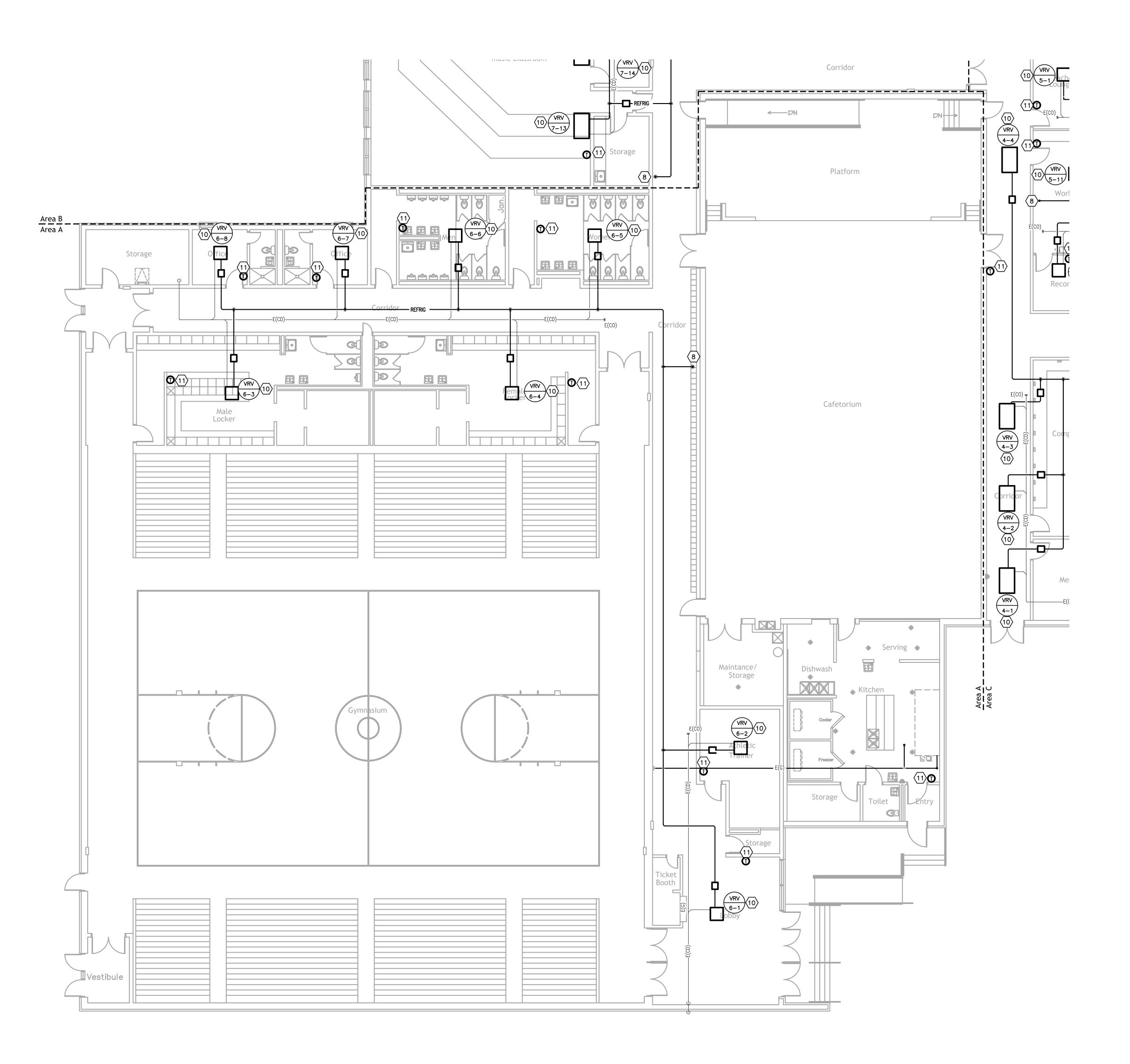










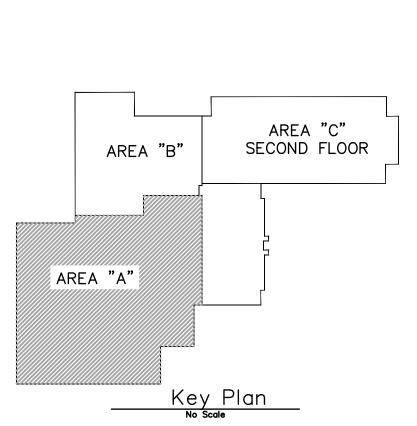


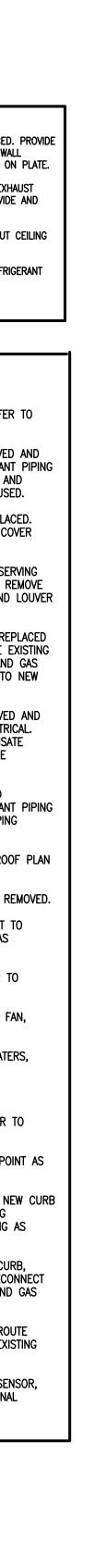
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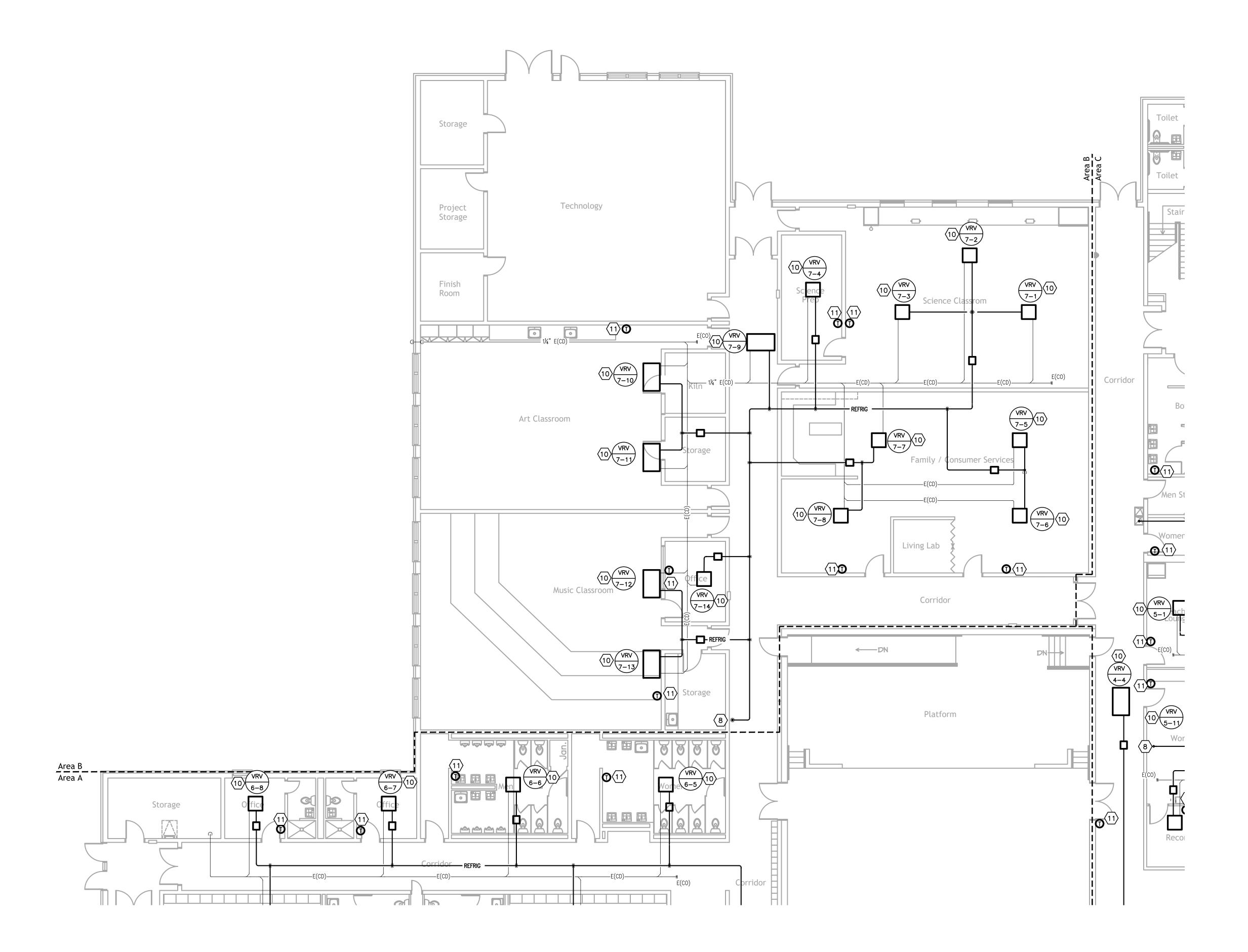
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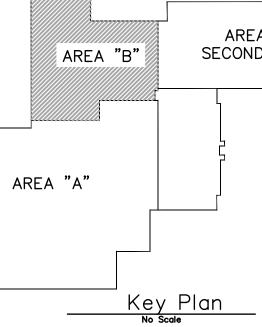
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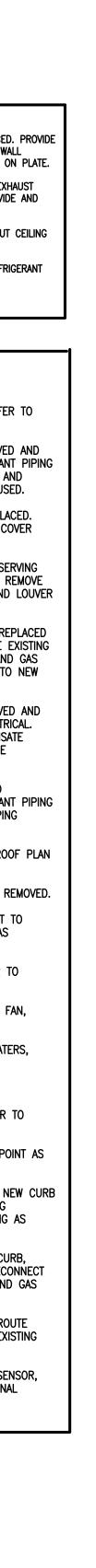


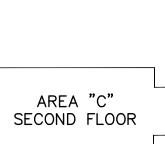
Hydronics - First Floor - Area B - New Work

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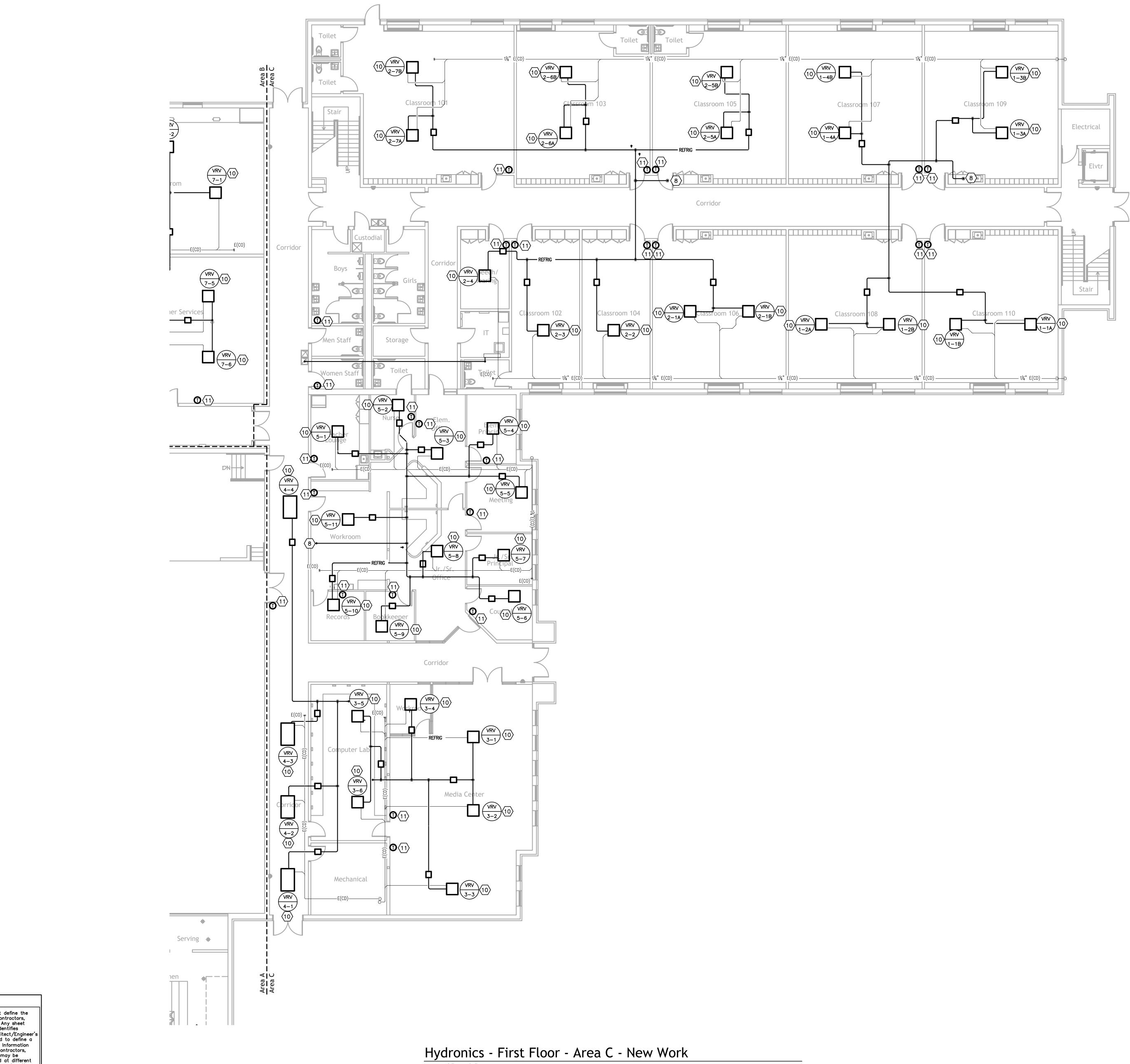
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- 7. EXISTING HEAT PUMP UNIT IS BE REMOVED AND REPLACED INCLUDING ALL CONTROLS, REFRIGERANT PIPING AND ELECTRICAL. THE EXISTING CURB AND PIPING PENETRATION IS TO REMAIN AND BE REUSED.
- 8. REFRIGERANT PIPING UP TO ROOF, REFER TO ROOF PLAN FOR CONTINUATION.
   9. EXISTING TEMPERATURE CONTROL PANEL TO BE REMOVED.
- 10. INSTALL NEW VRF INDOOR UNIT AND RECONNECT TO EXISTING CONDENSATE PIPING AND DUCTWORK AS REQUIRED.
- 11. PROVIDE AND INSTALL NEW THERMOSTAT, REFER TO CONTROL SPECIFICATIONS.
- 12. PROVIDE NEW CONTROLS ON EXISTING EXHAUST FAN, REFER TO CONTROL SPECIFICATIONS.
- 3. PROVIDE NEW CONTROLS ON EXISTING UNIT HEATERS, REFER TO CONTROL SPECIFICATIONS.
- 14. PROVIDE NEW DAMPER IN DUCT.
- 15. PROVIDE OCCUPANCY SENSOR IN CEILING, REFER TO CONTROL SPECIFICATIONS.
- 16. TRANSITION TO EXITING DIFFUSER CONNECTION POINT AS REQUIRED.
- 17. INSTALL ROOFTOP ON EXISTING CURB, PROVIDE NEW CURB ADAPTER AS REQUIRED. RECONNECT TO EXISTING
- DUCTWORK, CONDENSATE PIPING AND GAS PIPING AS REQUIRED.
- 18. INSTALL ENERGY RECOVERY UNIT ON EXISTING CURB, PROVIDE NEW CURB ADAPTER AS REQUIRED. RECONNECT TO EXISTING DUCTWORK, CONDENSATE PIPING AND GAS PIPING AS REQUIRED.
- 19. INSTALL HEAT PUMP UNIT ON EXISTING CURB. ROUTE REFRIGERANT PIPING TO INDOOR UNITS USING EXISTING ROOF PENETRATION.
- 20. PROVIDE AND INSTALL NEW DUCT PRESSURE SENSOR, REFER TO CONTROL SPECIFICATION FOR ADDITIONAL INFORMATION.











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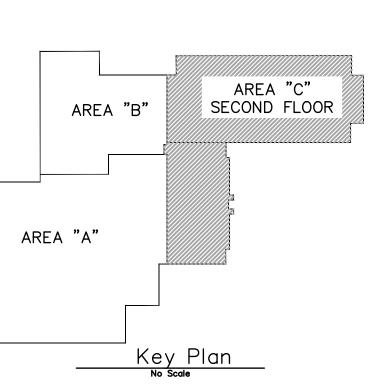
# WHERE EXISTING THERMOSTATS ARE BEING REPLACED. PROVIDE A STAINLESS STEEL COVER PLATE OVER EXISTING WALL OPENING AS REQUIRED. INSTALL NEW THERMOSTAT ON PLATE. 2. REBALANCE ALL EXISTING SUPPLY, RETURN, AND EXHAUST GRILLES TO EXISTING AIRFLOW AS REQUIRED. PROVIDE AND INSTALL NEW VOLUME DAMPERS AND TAKEOFFS.

- . REFER TO ARCHITECTURAL PLANS FOR NOTES ABOUT CEILING
- REMOVAL AND REINSTALLATION.
- 4. REFER TO EQUIPMENT SPECIFICATION FOR VRF REFRIGERANT PIPING AND ELECTRICAL DIAGRAM.

#### <u>TAG NOTES</u>

GENERAL NOTES:

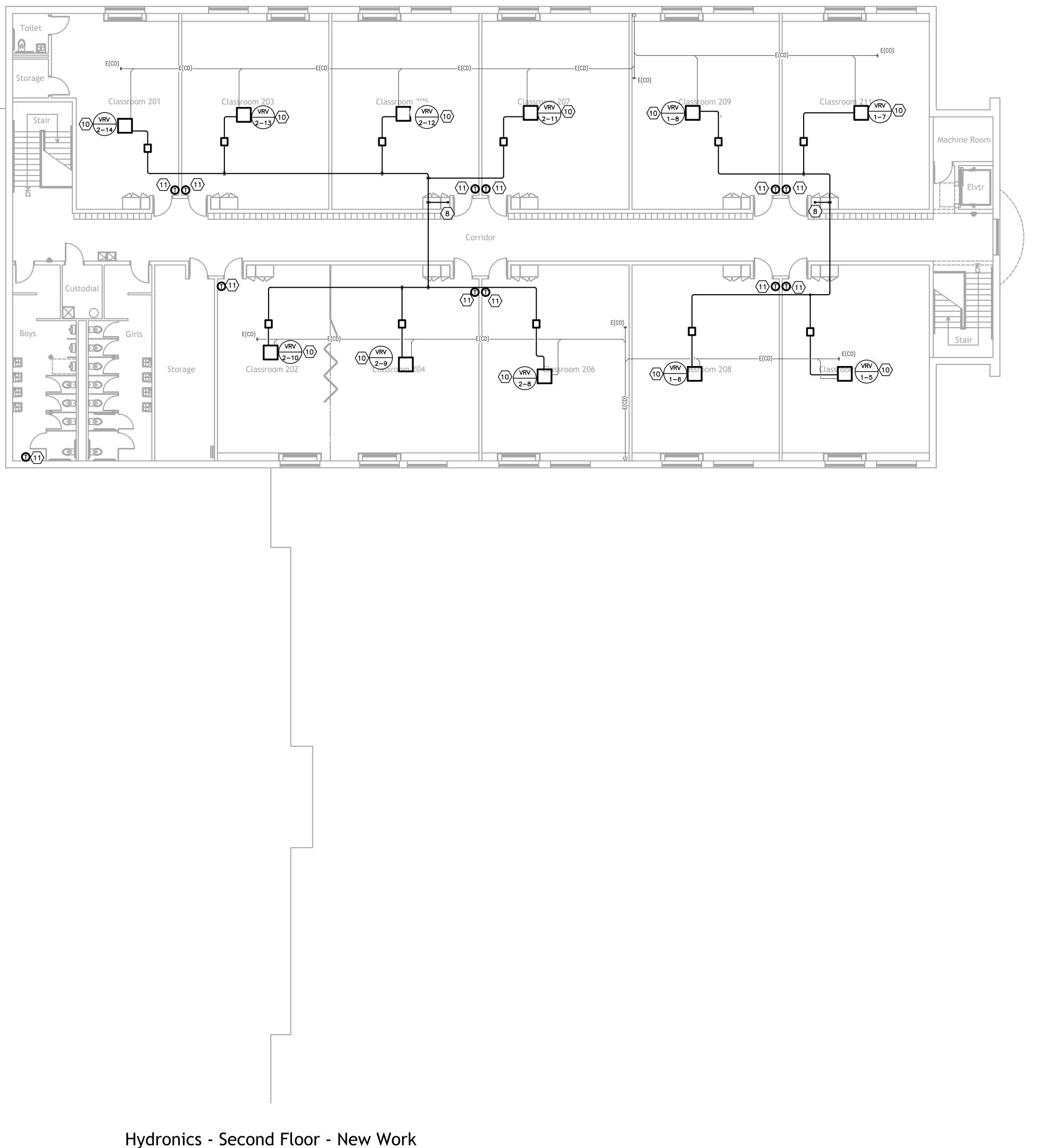
- EXISTING DUCTWORK UP TO ROOFTOP UNIT, REFER TO ROOF PLAN FOR CONTINUATION.
- . EXISTING VRF INDOOR SPLIT UNIT TO BE REMOVED AND REPLACED INCLUDING ALL CONTROLS, REFRIGERANT PIPING AND ELECTRICAL CONNECTIONS. ALL DUCTWORK AND CONDENSATE PIPING IS TO REMAIN AND BE REUSED.
- 5. EXITING THERMOSTAT TO BE REMOVED AND REPLACED. PROVIDE BRUSHED STAINLESS STEEL PLATE TO COVER EXISTING WALL OPENING.
- EXISTING EXHAUST FAN AND ELECTRIC HEATER SERVING BATHROOMS ARE TO BE REMOVED COMPLETELY. REMOVE DUCTWORK AS INDICATED TO RISER AT ROOF AND LOUVER AND CAP WITH INSULATED PANEL.
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- REFRIGERANT PIPING UP TO ROOF, REFER TO ROOF PLAN FOR CONTINUATION. 9. EXISTING TEMPERATURE CONTROL PANEL TO BE REMOVED.
- 10. INSTALL NEW VRF INDOOR UNIT AND RECONNECT TO EXISTING CONDENSATE PIPING AND DUCTWORK AS REQUIRED.
- 1. PROVIDE AND INSTALL NEW THERMOSTAT, REFER TO CONTROL SPECIFICATIONS.
- 2. PROVIDE NEW CONTROLS ON EXISTING EXHAUST FAN, REFER TO CONTROL SPECIFICATIONS.
- 3. PROVIDE NEW CONTROLS ON EXISTING UNIT HEATERS, REFER TO CONTROL SPECIFICATIONS.
- 14. PROVIDE NEW DAMPER IN DUCT.
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- 6. TRANSITION TO EXITING DIFFUSER CONNECTION POINT AS REQUIRED.
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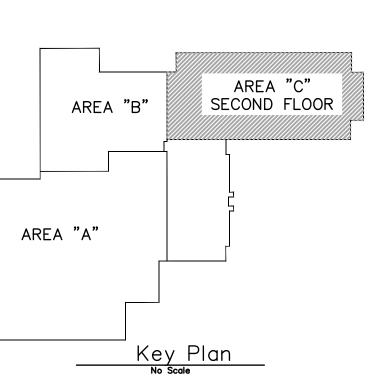


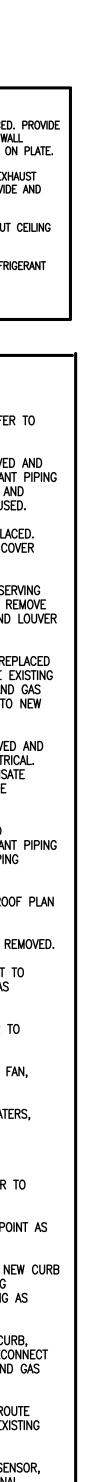
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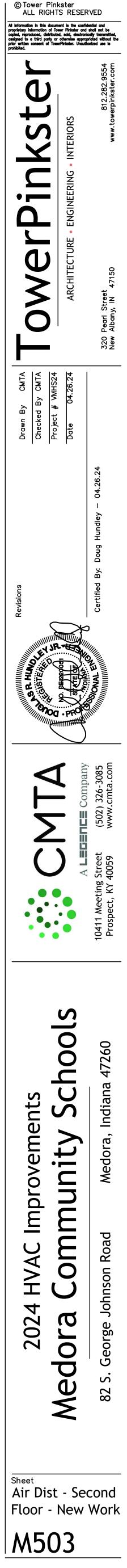
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- REMOVAL AND REINSTALLATION.4. REFER TO EQUIPMENT SPECIFICATION FOR VRF REFRIGERANT PIPING AND ELECTRICAL DIAGRAM.

#### <u>tag notes</u>

- 1. EXISTING DUCTWORK UP TO ROOFTOP UNIT, REFER TO ROOF PLAN FOR CONTINUATION.
- 2. EXISTING VRF INDOOR SPLIT UNIT TO BE REMOVED AND REPLACED INCLUDING ALL CONTROLS, REFRIGERANT PIPING AND ELECTRICAL CONNECTIONS. ALL DUCTWORK AND CONDENSATE PIPING IS TO REMAIN AND BE REUSED.
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Multi V HR Boxes						
Location	Model Name	Quantity	Power Supply			
Location		Quantity	Volts	Phase	Hz	RLA
ACCU-1	PRHR043A	1	208 /	1Ph	60Hz	0.2
ACCU-1	PRHR043A	1	208 /	1Ph	60Hz	0.2
ACCU-2	PRHR083A	1	208 /	1Ph	60Hz	0.2
ACCU-2	PRHR083A	1	208 /	1Ph	60Hz	0.2
ACCU-3	PRHR043A	1	208 /	1Ph	60Hz	0.2
ACCU-4	PRHR043A	1	208 /	1Ph	60Hz	0.2
ACCU-5	PRHR063A	1	208 /	1Ph	60Hz	0.2
ACCU-5	PRHR063A	1	208 /	1Ph	60Hz	0.2
ACCU-6	PRHR023A	1	208 /	1Ph	60Hz	0.1
ACCU-6	PRHR063A	1	208 /	1Ph	60Hz	0.2
ACCU-7	PRHR083A	1	208 /	1Ph	60Hz	0.2

NOTE:	EQUIPMENT IS OWNER PROVIDED,	
	CONTRACTOR INSTALLED.	

										Multi V Outdo	or Unit Equipme	ent Schedul	le - Air											
Location	Model Name	Type	Quantity	Total Capa	Total Capacity(BTU/h)		pacity(BTU/h)	Corrected Power Input(kW)			Outdoor Temperature(°F)		Efficiency		Refrigerant	Piping	Connections(inch)		Power Supply					Sound
LUCATION	Woder Martie	туре	Quantity	Total	Total Heating	Total Cooling	Total Heating	Cooling	Heating	Cooling DBT	Cooling WBT	Heating	Cooling IEER	Heating COP	Reingerant	Liquid	LP Gas	HP Gas	Volts	Phase	Hz	MCA (A)	MOP (A)	Power
ACCU-1	ARUM192BTE5	HR_MULTIV5	1	192,000	216,000	194,052	185,873	13.5	20.5	91.9	73.9	-2.0	25.9	3.8	R410A	5/8	1-1/8	1-1/8	208~230V	3Ph	60Hz	58	80	87
ACCU-2		HR_MULTIV5	1	264,000	297,000	265,410	255,647	17.5	27.4	91.9	73.9	-2.0	22.0	3.6	R410A	3/4	1-3/8	1-1/8	208~230V	3Ph	60Hz	28.5+53.6	40+70	86
ACCU-3	ARUM096BTE5	HR_MULTIV5	1	96,000	108,000	94,050	92,724	5.2	9.0	91.9	73.9	-2.0	33.0	4.3	R410A	3/8	7/8	3/4	208~230V	3Ph	60Hz	29	40	78
ACCU-4	ARUM144BTE5	HR_MULTIV5	1	144,000	162,000	140,834	139,014	8.9	14.0	91.9	73.9	-2.0	28.6	3.8	R410A	1/2	1-1/8	7/8	208~230V	3Ph	60Hz	51	70	83
ACCU-5		HR_MULTIV5	1	119,700	135,000	118,590	115,884	7.5	12.2	91.9	73.9	-2.0	29.6	4.0	R410A	1/2	1-1/8	3/4	208~230V	3Ph	60Hz	31	40	79
ACCU-6	ARUM096BTE5	HR_MULTIV5	1	96,000	108,000	91,931	92,682	4.8	9.3	91.9	73.9	-2.0	33.0	4.3	R410A	3/8	7/8	3/4	208~230V	3Ph	60Hz	29	40	78
ACCU-7	ARUM216BTE5	HR_MULTIV5	1	216,000	243,000	216,184	209,046	15.2	23.5	91.9	73.9	-2.0	24.8	3.5	R410A	5/8	1-1/8	1-1/8	208~230V	3Ph	60Hz	60	80	88
*IEER/COP is based	on Non-Ducted, AH	IRI 1230 Standard.																						/

NOTE: EQUIPMENT IS OWNER PROVIDED, CONTRACTOR INSTALLED.

		1								quipment Schedule	I			· <b>-</b> · · · · · · · · ·	· · · · · ·					Dowor Supply	
ocation	Tag	Room Name	Model Name	Туре	Quantity		nal Capacity(BTU/h			ected Capacity(BTU/h)			n Temp.(Return A		Air flow	Piping Connecti	,			/er Supply	
						Total Cooling	Sensible	Heating	Total Cooling	Sensible Cooling	Heating	Cooling DBT	Cooling WBT	Heating DBT	rate(CFM)	Liquid	Gas	Volts	Phase	Hz	RL
CCU-1 CCU-1	1	Floor001/VRV-1-8	ARNU243TAA4	DUALVANE		24,200	<u> </u>	27,300	24,196	20,094	28,219	80.6	67.0	68.0	813/742/670	3/8	5/8	208~230V	1Ph	60Hz	· ·
CCU-1 CCU-1	2	Floor001/VRV-1-7	ARNU283TAA4	DUALVANE	1	28,000	21,300	31,500	27,998	21,822	32,559	80.6	67.0 67.0	68.0	855/771/687	3/8	5/8	208~230V	1Ph	60Hz	
	3	Floor001/VRV-1-5	ARNU283TAA4	DUALVANE	1	28,000	,	31,500	27,998	21,822	32,559	80.6		68.0	855/771/687	3/8	5/8 5/8	208~230V	1Ph	60Hz	
CCU-1 CCU-1	4 5	Floor001/VRV-1-6 Floor001/VRV-1-1A	ARNU283TAA4 ARNU123TAA4	DUALVANE DUALVANE	1	28,000	21,300 9,100	31,500 13,600	27,998 12,299	21,822 9,308	32,559 14,056	80.6 80.6	67.0 67.0	68.0 68.0	855/771/687 687/599/515	3/8	5/8	208~230V 208~230V	1Ph 1Ph	60Hz 60Hz	
CCU-1 CCU-1	5	Floor001/VRV-1-1A	ARNU123TAA4	DUALVANE	1	12,300	9,100	13,600	12,299	9,308	14,056	80.6	67.0	68.0	687/599/515	3/8	5/8	208~230V 208~230V	1Ph	60Hz	
CCU-1 CCU-1	7	Floor001/VRV-1-18	ARNU123TAA4	DUALVANE	1	12,300	9,100	13,600	12,299	9,308	14,056	80.6	67.0	68.0	687/599/515	3/8	5/8	208~230V 208~230V	1Ph	60Hz	
CCU-1	8	Floor001/VRV-1-28	ARNU123TAA4	DUALVANE	1	12,300	9,100	13,600	12,299	9,308	14,056	80.6	67.0	68.0	687/599/515	3/8	5/8	208~230V	1Ph	60Hz	
CCU-1	9	Floor001/VRV-1-4A	ARNU123TAA4	DUALVANE	1	12,300	9,100	13,600	12,299	9,308	14,056	80.6	67.0	68.0	687/599/515	3/8	5/8	208~230V	1Ph	60Hz	
CCU-1	10	Floor001/VRV-1-4A	ARNU123TAA4	DUALVANE	1	12,300	9,100	13,600	12,299	9,308	14,056	80.6	67.0	68.0	687/599/515	3/8	5/8	208~230V	1Ph	60Hz	-
CCU-1	11	Floor001/VRV-1-3A	ARNU123TAA4	DUALVANE	1	12,300	9,100	13,600	12,299	9,308	14,056	80.6	67.0	68.0	687/599/515	3/8	5/8	208~230V	1Ph	60Hz	
CCU-1	12	Floor001/VRV-1-38	ARNU123TAA4	DUALVANE	1	12,300	9,100	13,600	12,299	9,308	14,056	80.6	67.0	68.0	687/599/515	3/8	5/8	208~230V	1Ph	60Hz	
CCU-2	1	Floor001/VRV-2-8	ARNU183TAA4	DUALVANE	1	19,100	15,300	21,500	19,097	15,696	22,224	80.6	67.0	68.0	735/653/556	3/8	5/8	208~230V	1Ph	60Hz	
CCU-2	2	Floor001/VRV-2-9	ARNU183TAA4	DUALVANE	1	19,100	15,300	21,500	19,097	15,696	22,224	80.6	67.0	68.0	735/653/556	3/8	5/8	208~230V	1Ph	60Hz	_
CCU-2	3	Floor001/VRV-2-10	ARNU183TAA4	DUALVANE	1	19,100	15,300	21,500	19,097	15,696	22,224	80.6	67.0	68.0	735/653/556	3/8	5/8	208~230V	1Ph	60Hz	
CCU-2	4	Floor001/VRV-2-14	ARNU243TAA4	DUALVANE	1	24,200	19,600	27,300	24,196	20,094	28,219	80.6	67.0	68.0	813/742/670	3/8	5/8	208~230V	1Ph	60Hz	
CCU-2	5	Floor001/VRV-2-13	ARNU243TAA4	DUALVANE	1	24,200	19,600	27,300	24,196	20,094	28,219	80.6	67.0	68.0	813/742/670	3/8	5/8	208~230V	1Ph	60Hz	
CCU-2	6	Floor001/VRV-2-12	ARNU243TAA4	DUALVANE	1	24,200	19,600	27,300	24,196	20,094	28,219	80.6	67.0	68.0	813/742/670	3/8	5/8	208~230V	1Ph	60Hz	
CCU-2	7	Floor001/VRV-2-11	ARNU243TAA4	DUALVANE	1	24,200	19,600	27,300	24,196	20,004	28,219	80.6	67.0	68.0	813/742/670	3/8	5/8	208~230V	1Ph	60Hz	
CCU-2	9	Floor001/VRV-2-1A	ARNU123TAA4	DUALVANE	1	12,300	9,100	13,600	12,299	9,308	14,056	80.6	67.0	68.0	687/599/515	3/8	5/8	208~230V	1Ph	60Hz	
CCU-2	10	Floor001/VRV-2-1B	ARNU123TAA4	DUALVANE	1	12,300	9,100	13,600	12,299	9,308	14,056	80.6	67.0	68.0	687/599/515	3/8	5/8	208~230V	1Ph	60Hz	
CCU-2	11	Floor001/VRV-2-2	ARNU123TRD4	CASSETTE	1	12,300	8,900	13,600	12,299	8,995	14,069	80.6	67.0	68.0	307/283/247	1/4	1/2	208~230V	1Ph	60Hz	+
CCU-2	12	Floor001/VRV-2-3	ARNU123TRD4	CASSETTE	1	12,300	8,900	13,600	12,299	8,995	14,069	80.6	67.0	68.0	307/283/247	1/4	1/2	208~230V	1Ph	60Hz	+
CCU-2	15	Floor001/VRV-2-4	ARNU123TRD4	CASSETTE	1	12,300	8,900	13,600	12,299	8,995	14,069	80.6	67.0	68.0	307/283/247	1/4	1/2	208~230V	1Ph	60Hz	
CCU-2	16	Floor001/VRV-2-7A	ARNU123TRD4	CASSETTE	1	12,300	8,900	13,600	12,299	8,995	14,069	80.6	67.0	68.0	307/283/247	1/4	1/2	208~230V	1Ph	60Hz	+
CCU-2	17	Floor001/VRV-2-7B	ARNU123TRD4	CASSETTE	1	12,300	8,900	13,600	12,299	8,995	14,069	80.6	67.0	68.0	307/283/247	1/4	1/2	208~230V	1Ph	60Hz	+
CCU-2	13	Floor001/VRV-2-6A	ARNU123TRD4	CASSETTE	1	12,300	8,900	13,600	12,299	8,995	14,069	80.6	67.0	68.0	307/283/247	1/4	1/2	208~230V	1Ph	60Hz	+
CCU-2	14	Floor001/VRV-2-6B	ARNU123TRD4	CASSETTE	1	12,300	8,900	13,600	12,299	8,995	14,069	80.6	67.0	68.0	307/283/247	1/4	1/2	208~230V	1Ph	60Hz	-
CCU-2	18	Floor001/VRV-2-5A	ARNU123TRD4	CASSETTE	1	12,300	8,900	13,600	12,299	8,995	14,069	80.6	67.0	68.0	307/283/247	1/4	1/2	208~230V	1Ph	60Hz	-
CCU-2	19	Floor001/VRV-2-5B	ARNU123TRD4	CASSETTE	1	12,300	8,900	13,600	12,299	8,995	14,069	80.6	67.0	68.0	307/283/247	1/4	1/2	208~230V	1Ph	60Hz	-
CCU-3	1	Floor001/VRV-3-5	ARNU183TAA4	DUALVANE	1	19,100	15,300	21,500	19.097	15,696	22,224	80.6	67.0	68.0	735/653/556	3/8	5/8	208~230V	1Ph	60Hz	
CCU-3	2	Floor001/VRV-3-6	ARNU183TAA4	DUALVANE	1	19,100	15,300	21,500	19,097	15,696	22,224	80.6	67.0	68.0	735/653/556	3/8	5/8	208~230V	1Ph	60Hz	
CCU-3	3	Room	ARNU073TRD4	CASSETTE	1	7,500	5,400	8,500	7,500	5,520	8,769	80.6	67.0	68.0	265/247/212	1/4	1/2	208~230V	1Ph	60Hz	-
CCU-3	4	Floor001/VRV-3-1	ARNU183TAA4	DUALVANE	1	19,100	15,300	21,500	19,097	15,696	22,224	80.6	67.0	68.0	735/653/556	3/8	5/8	208~230V	1Ph	60Hz	
CCU-3	5	Floor001/VRV-3-2	ARNU183TAA4	DUALVANE	1	19,100	15,300	21,500	19,097	15,696	22,224	80.6	67.0	68.0	735/653/556	3/8	5/8	208~230V	1Ph	60Hz	
CCU-3	6	Floor001/VRV-3-3	ARNU183TAA4	DUALVANE	1	19,100	15,300	21,500	19,097	15,696	22,224	80.6	67.0	68.0	735/653/556	3/8	5/8	208~230V	1Ph	60Hz	
CCU-4	1	Floor001/VRV-4-1	ARNU363M2A4	DUCT MIDDLE	1	36,200	26,800	40,600	36,198	27,394	41,961	80.6	67.0	68.0	1031/845/676	3/8	5/8	208~230V	1Ph	60Hz	
CCU-4	2	Floor001/VRV-4-2	ARNU363M2A4	DUCT MIDDLE	1	36,200	26,800	40,600	36,198	27,394	41,961	80.6	67.0	68.0	1031/845/676	3/8	5/8	208~230V	1Ph	60Hz	-
CCU-4	3	Floor001/VRV-4-3	ARNU363M2A4	DUCT MIDDLE	1	36,200	26,800	40,600	36,198	27,394	41,961	80.6	67.0	68.0	1031/845/676	3/8	5/8	208~230V	1Ph	60Hz	
CCU-4	4	Floor001/VRV-4-4	ARNU363M2A4	DUCT MIDDLE	1	36,200	26,800	40,600	36,198	27,394	41,961	80.6	67.0	68.0	1031/845/676	3/8	5/8	208~230V	1Ph	60Hz	
CCU-5	13	Floor001/VRV-5-11	ARNU123TRD4	CASSETTE	1	12,300	8,900	13,600	12,299	8,995	14,069	80.6	67.0	68.0	307/283/247	1/4	1/2	208~230V	1Ph	60Hz	-
CCU-5	14	Floor001/VRV-5-1	ARNU183TQD4	CASSETTE	1	19,100	13,800	21,500	19,100	12,839	22,237	80.6	67.0	68.0	396/388/353	1/4	1/2	208~230V	1Ph	60Hz	
CCU-5	15	Floor001/VRV-5-2	ARNU073TRD4	CASSETTE	1	7,500	5,400	8,500	7,500	5,520	8,769	80.6	67.0	68.0	265/247/212	1/4	1/2	208~230V	1Ph	60Hz	
CCU-5	16	Floor001/VRV-5-3	ARNU183TAA4	DUALVANE	1	19,100	15,300	21,500	19,097	15,696	22,224	80.6	67.0	68.0	735/653/556	3/8	5/8	208~230V	1Ph	60Hz	
CCU-5	17	Floor001/VRV-5-4	ARNU073TAA4	DUALVANE	1	7,500	5,600	8,500	7,499	5,729	8,788	80.6	67.0	68.0	653/556/468	3/8	5/8	208~230V	1Ph	60Hz	
CCU-5	18	Floor001/VRV-5-5	ARNU093TAA4	DUALVANE	1	9,600	7,100	10,900	9,599	7,265	11,269	80.6	67.0	68.0	670/576/468	3/8	5/8	208~230V	1Ph	60Hz	
CCU-5	1	Floor001/VRV-5-8	ARNU183TAA4	DUALVANE	1	19,100	15,300	21,500	19,097	15,696	22,224	80.6	67.0	68.0	735/653/556	3/8	5/8	208~230V	1Ph	60Hz	
CCU-5	2	Floor001/VRV-5-7	ARNU093TRD4	CASSETTE	1	9,600	6,900	10,900	9,600	7,054	11,236	80.6	67.0	68.0	283/265/251	1/4	1/2	208~230V	1Ph	60Hz	
CCU-5	3	Floor001/VRV-5-6	ARNU093TRD4	CASSETTE	1	9,600	6,900	10,900	9,600	7,054	11,236	80.6	67.0	68.0	283/265/251	1/4	1/2	208~230V	1Ph	60Hz	
CCU-5	4	Floor001/VRV-5-9	ARNU073TRD4	CASSETTE	1	7,500	5,400	8,500	7,500	5,520	8,769	80.6	67.0	68.0	265/247/212	1/4	1/2	208~230V	1Ph	60Hz	
CCU-5	5	Floor001/VRV-5-10	ARNU073TRD4	CASSETTE	1	7,500	5,400	8,500	7,500	5,520	8,769	80.6	67.0	68.0	265/247/212	1/4	1/2	208~230V	1Ph	60Hz	
CCU-6	1	Floor001/VRV-6-2	ARNU093TRD4	CASSETTE	1	9,600	6,900	10,900	9,600	7,054	11,236	80.6	67.0	68.0	283/265/251	1/4	1/2	208~230V	1Ph	60Hz	
CCU-6	2	Floor001/VRV-6-1	ARNU123TRD4	CASSETTE	1	12,300	8,900	13,600	12,299	8,995	14,069	80.6	67.0	68.0	307/283/247	1/4	1/2	208~230V	1Ph	60Hz	
CCU-6	3	Floor001/VRV-6-4	ARNU183TAA4	DUALVANE	1	19,100	15,300	21,500	19,097	15,696	22,224	80.6	67.0	68.0	735/653/556	3/8	5/8	208~230V	1Ph	60Hz	
CCU-6	4	Floor001/VRV-6-3	ARNU183TAA4	DUALVANE	1	19,100	15,300	21,500	19,097	15,696	22,224	80.6	67.0	68.0	735/653/556	3/8	5/8	208~230V	1Ph	60Hz	
CCU-6	5	Floor001/VRV-6-8	ARNU093TRD4	CASSETTE	1	9,600	6,900	10,900	9,600	7,054	11,236	80.6	67.0	68.0	283/265/251	1/4	1/2	208~230V	1Ph	60Hz	
CCU-6	6	Floor001/VRV-6-7	ARNU073TRD4	CASSETTE	1	7,500	5,400	8,500	7,500	5,520	8,769	80.6	67.0	68.0	265/247/212	1/4	1/2	208~230V	1Ph	60Hz	
CCU-6	7	Floor001/VRV-6-6	ARNU093TRD4	CASSETTE	1	9,600	6,900	10,900	9,600	7,054	11,236	80.6	67.0	68.0	283/265/251	1/4	1/2	208~230V	1Ph	60Hz	
CCU-6	8	Floor001/VRV-6-5	ARNU093TRD4	CASSETTE	1	9,600	6,900	10,900	9,600	7,054	11,236	80.6	67.0	68.0	283/265/251	1/4	1/2	208~230V	1Ph	60Hz	
CCU-7	1	Floor001/VRV-7-14	ARNU073TRD4	CASSETTE	1	7,500	5,400	8,500	7,500	5,520	8,769	80.6	67.0	68.0	265/247/212	1/4	1/2	208~230V	1Ph	60Hz	
CCU-7	2	Floor001/VRV-7-12	ARNU243TAA4	DUALVANE	1	24,200	19,600	27,300	24,196	20,094	28,219	80.6	67.0	68.0	813/742/670	3/8	5/8	208~230V	1Ph	60Hz	
CCU-7	3	Floor001/VRV-7-13	ARNU243TAA4	DUALVANE	1	24,200	19,600	27,300	24,196	20,094	28,219	80.6	67.0	68.0	813/742/670	3/8	5/8	208~230V	1Ph	60Hz	
CCU-7	4	Floor001/VRV-7-11	ARNU243TAA4	DUALVANE	1	24,200	19,600	27,300	24,196	20,094	28,219	80.6	67.0	68.0	813/742/670	3/8	5/8	208~230V	1Ph	60Hz	
CCU-7	5	Floor001/VRV-7-10	ARNU243TAA4	DUALVANE	1	24,200	19,600	27,300	24,196	20,094	28,219	80.6	67.0	68.0	813/742/670	3/8	5/8	208~230V	1Ph	60Hz	
CCU-7	6	Floor001/VRV-7-9	ARNU483M3A4	DUCT MIDDLE	1	48,100	36,100	54,200	48,096	36,959	56,011	80.6	67.0	68.0	1482/1191/91	3/8	5/8	208~230V	1Ph	60Hz	
CCU-7	7	Floor001/VRV-7-4	ARNU073TRD4	CASSETTE	1	7,500	5,400	8,500	7,500	5,520	8,769	80.6	67.0	68.0	265/247/212	1/4	1/2	208~230V	1Ph	60Hz	
CCU-7	8	Floor001/VRV-7-1	ARNU123TRD4	CASSETTE	1	12,300	8,900	13,600	12,299	8,995	14,069	80.6	67.0	68.0	307/283/247	1/4	1/2	208~230V	1Ph	60Hz	
CCU-7	9	Floor001/VRV-7-3	ARNU123TRD4	CASSETTE	1	12,300	8,900	13,600	12,299	8,995	14,069	80.6	67.0	68.0	307/283/247	1/4	1/2	208~230V	1Ph	60Hz	
CCU-7	10	Floor001/VRV-7-2	ARNU183TAA4	DUALVANE	1	19,100	15,300	21,500	19,097	15,696	22,224	80.6	67.0	68.0	735/653/556	3/8	5/8	208~230V	1Ph	60Hz	
CCU-7	11	Floor001/VRV-7-5	ARNU073TRD4	CASSETTE	1	7,500	5,400	8,500	7,500	5,520	8,769	80.6	67.0	68.0	265/247/212	1/4	1/2	208~230V	1Ph	60Hz	
CCU-7	12	Floor001/VRV-7-6	ARNU073TRD4	CASSETTE	1	7,500	5,400	8,500	7,500	5,520	8,769	80.6	67.0	68.0	265/247/212	1/4	1/2	208~230V	1Ph	60Hz	L
CCU-7	13	Floor001/VRV-7-7	ARNU073TRD4	CASSETTE	1	7,500	5,400	8,500	7,500	5,520	8,769	80.6	67.0	68.0	265/247/212	1/4	1/2	208~230V	1Ph	60Hz	1
CCU-7	14	Floor001/VRV-7-8	ARNU073TRD4	CASSETTE	1	7,500	5,400	8,500	7,500		8,769	80.6	67.0	68.0	265/247/212	1/4	1/2	208~230V	1Ph	60Hz	+

Indoor units with the Future IDU option selected are displayed in gray text.

NOTE: EQUIPMENT IS OWNER PROVIDED, CONTRACTOR INSTALLED.

## VARIABLE AIR VOLUME BOXES

SYMBOL	VAV-06	VAV-08	VAV-10
MANUFACTURER & MODEL	JCI/ETI SDR06	JCI/ETI SDR08	JCI/ETI SDR10
BOX TYPE	SINGLE INLET VAV	SINGLE INLET VAV	SINGLE INLET VAV
TOTAL APD AT MAXIMUM CFM	0.25" WG	0.50"WG	0.50" WG
INLET SIZE	6 <b>"</b> ø	8 <b>"</b> ø	10 <b>"</b> ø
LEAKAGE RATE AT 2.0" SP	2.0%	2.0%	2.0%
PRESSURE INDEPENDENT CONTROLS	YES	YES	YES

REMARKS:

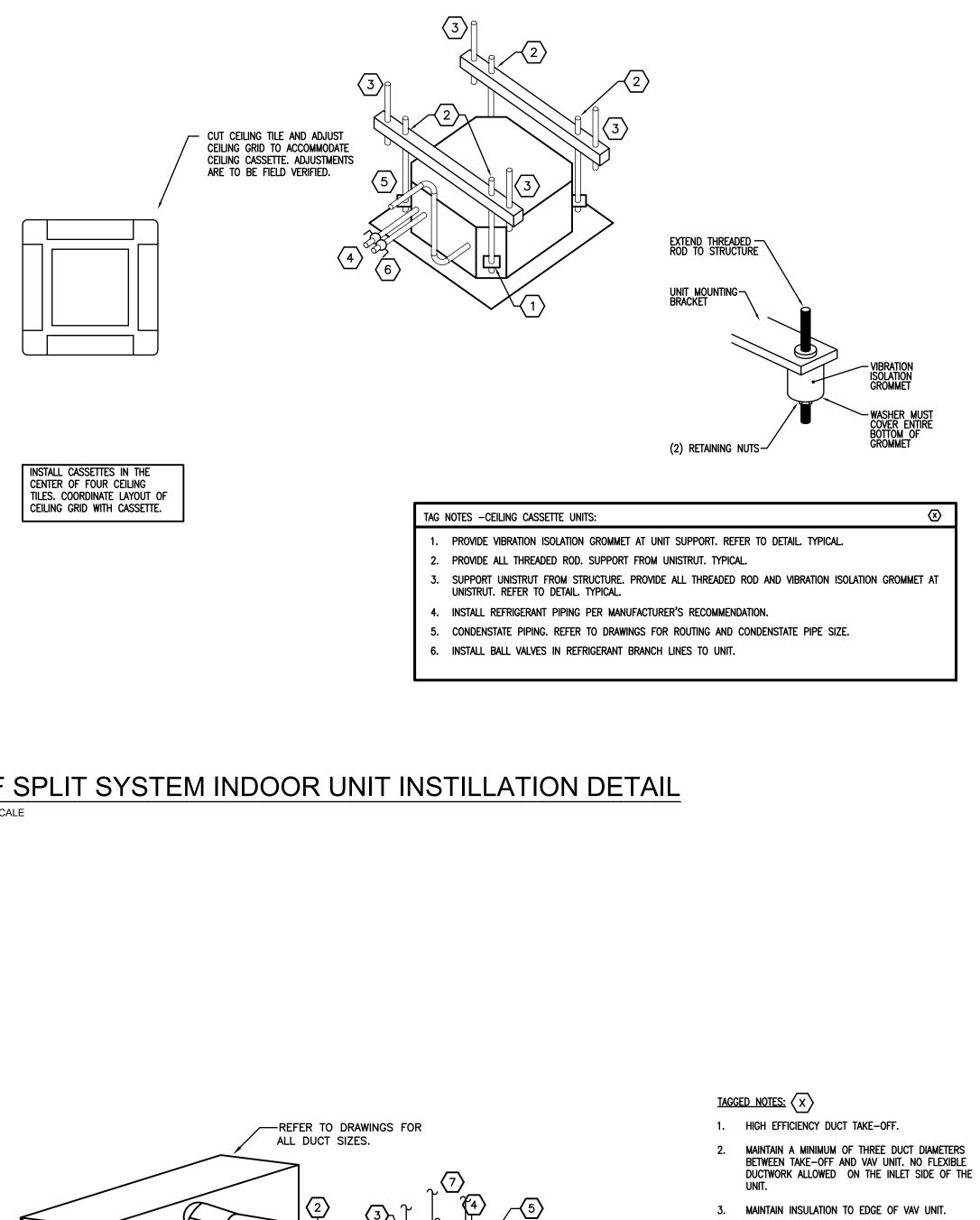
BOX TO BE SINGLE WALL WITH ½" THICK ELECTROMETRIC CLOSED FOAM INSULATION ON THE INTERIOR.
 PROVIDE EACH BOX WITH AN INDEPENDENT CONTROLLER. NO BOX SHALL BE OPERATED BY ANOTHER CONTROLLER LOCATED ON ANOTHER BOX.

		ENERGY REC	OVERY UNITS		
SYMBOL	ERU-1	ERU-2	ERU–3	ERU-4	ERU–5
MANF. & MODEL	VALENT VXE-112-36D-101-G-A1	VALENT VXE-112-41D-12.5I-G-A1	VALENT VXE-112-41D-12.5I-G-A1	VALENT VXE-112-41D-12.5I-G-A1	VALENT VXE-112-36D-7I-G-A1
CONFIGURATION	ROOFTOP / DOWNFLOW				
SINGLE POINT CONNECTION	YES – SEE BELOW				
VOLTAGE / PHASE	208 / 3ø				
MCA / MOP	65.5 / 90.0	72.0 / 100.0	65.5 / 90.0	65.5 / 90.0	46.5 / 60.0
OUTSIDE AIR CFM / ESP	2,520 / 2.0" WG	3,240 / 2.0" WG	2,970 / 2.0" WG	2,970 / 2.0" WG	2,500 / 2.0" WG
EXHAUST AIR CFM / ESP	2,140 / 1.0" WG	2,700 / 1.0" WG	2,520 / 1.0" WG	2,520 / 1.0" WG	2,500 / 1.0" WG
ENERGY RECOVERY WHEEL					
MINIMUM EFFECTIVENESS	66.6%	63.6%	65.4%	65.4%	65.5%
SUMMER DESIGN CONDITIONS					
OA : SA : EA (DB/WB)	95.0/76.0 : 82.3/68.4 : 74.0/61.6	95.0/76.0 : 82.6/68.7 : 74.0/61.6	95.0/76.0 : 82.6/68.7 : 74.0/61.6	95.0/76.0 : 82.6/68.7 : 74.0/61.6	95.0/76.0 : 80.7/67.0 : 74.0/61.6
WINTER DESIGN CONDITIONS					
OA : SA : EA (DB/WB)	3.0/1.2 : 41.4/35.2 : 72.0/55.7	3.0/1.2 : 40.4/34.5 : 72.0/55.7	3.0/1.2 : 40.4/34.5 : 72.0/55.7	3.0/1.2 : 40.4/34.5 : 72.0/55.7	3.0/1.2 : 47.0/39.7 : 72.0/55.7
DX COOLING					
TOTAL/SENS (MBH)	123.3 / 80.5	147.9 / 99.8	146.0 / 96.0	146.0 / 96.0	87.9 / 67.0
EAT : LAT (DB/WB)	82.3/68.4 : 53.2/53.0	82.6/68.7 : 54.6/54.5	82.8/68.7 : 53.4/53.3	82.8/68.7 : 53.4/53.3	80.7/67.0 : 56.3/56.0
REHEAT / LAT (MBH)	79.2 / 82.3	94.2 / 81.5	90.1 / 81.4	90.1 / 81.4	68.1 / 81.5
INDIRECT NATURAL GAS HEATING					
TEMPERATURE RISE / LAT	59.4 / 100.8	46.0 / 86.7	50.0 / 92.4	50.0 / 92.4	60.0 / 107.0
INPUT / OUTPUT (MBH)	200 / 162.0	200 / 162.0	200 / 162.0	200 / 162.0	200 / 162.0
PERFORMANCE (ASHRAE 90.1)					
ISMRE	8.0	7.5	7.5	7.5	8.7
ENTHALPY RECOVERY RATIO (%)	56.7	55.2	57.6	57.6	66.4

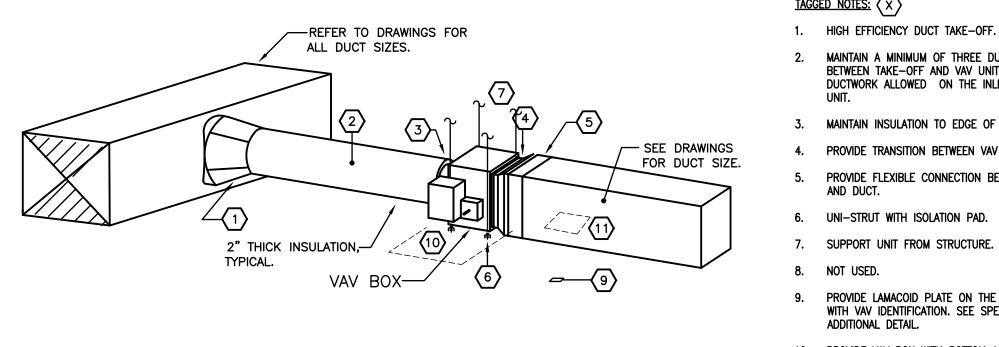
ROOFTOP HVAC UNITS									
SYMBOL	RTU-1 & 2								
MANUF. & MODEL	VALENT VX-112-101-J-G1								
TYPE	PACKAGED ROOFTOP WITH GAS HEAT								
SUPPLY FAN CFM / ESP	4,000 / 1.2"								
MINIMUM OUTSIDE AIR CFM	700 CFM								
COOLING CAPACITY (95.0°F AMBIENT	)								
TOTAL / SENSIBLE (MBH)	122.1 / 99.0								
IEER AT STD. CONDITIONS	17.8 BTU/(HR. W)								
GAS HEATING CAPACITY									
INPUT / OUTPUT (MBH)	300 / 243.0								
ELECTRICAL CHAR.									
V/ø/HZ	208/3/60								
MCA / MOP	58.1 / 90								
SINGLE POINT CONNECTION	YES								



The Architect/Engineer does not define the scope of individual trades, subcontractors, material suppliers, or vendors. Any sheet numbering system used which identifies disciplines is solely for the Architect/Engineer's convenience, and is not intended to define a convenience, and is not intended to define a subcontractor's scope of work. Information regarding individual trades, subcontractors, material suppliers, and vendors may be detailed, described and indicated at different locations throughout these documents. No consideration will be given to requests for change orders for failure to obtain and review the complete set of drawings and specifications when preparing bids, prices, and quotations.

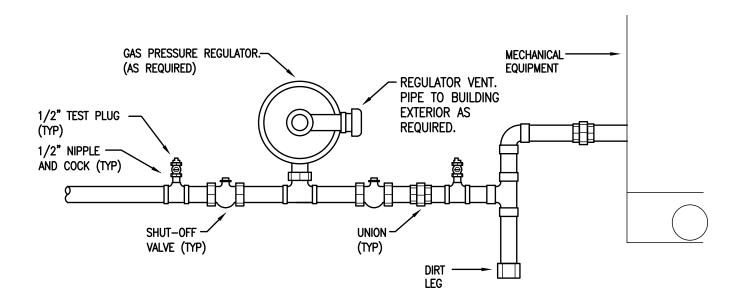


VRF SPLIT SYSTEM INDOOR UNIT INSTILLATION DETAIL NOT TO SCALE



10. PROVIDE VAV BOX WITH BOTTOM ACCESS PANEL. 11. PROVIDE ACCESS PANEL IN DUCTWORK DOWNSTREAM OF COIL.

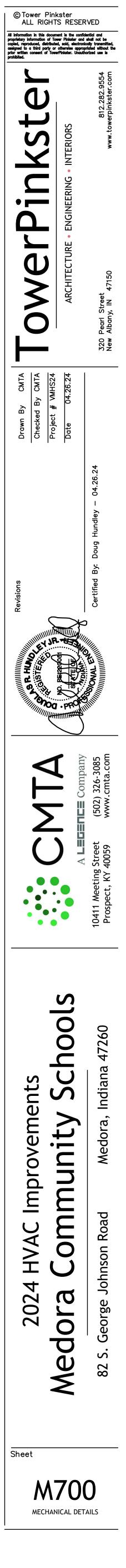
VAV BRANCH DUCT CONNECTION DETAIL NOT TO SCALE



# MECHANICAL EQUIPMENT GAS CONNECTION DETAIL

4. PROVIDE TRANSITION BETWEEN VAV UNIT AND DUCT. 5. PROVIDE FLEXIBLE CONNECTION BETWEEN VAV UNIT

9. PROVIDE LAMACOID PLATE ON THE CEILING GRID WITH VAV IDENTIFICATION. SEE SPECIFICATIONS FOR



#### Notice The Architect/Engineer does not define the scope of individua

trades, subcontractors, material suppliers, or vendors. Any sheet numbering system used which identifies disciplines is solely for the Architect/Engineer's convenience, and is not intended to define a subcontractor's scope of work. Information regarding individual trades, subcontractors, material suppliers, and vendors may be detailed, described and indicated at different locations throughout these documents. No consideration will be given to requests for change orders for failure to obtain and review the complete set of drawings and specifications when preparing bids, prices, and quotations

#### GENERAL NOTES (APPLICABLE TO ALL WORK AND DOCUMENTS): A. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL

- DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME with shop drawings.
- B. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.
- C. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, NFPA 101, INTERNATIONAL BUILDING CODES, ETC.
- D. CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- . ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
- F. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER.
- G. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
- WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ENGINEER OF DISCREPANCY IN WRITING. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM TH ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
- . OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).
- K. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE U.N.O. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO ROTTOM OF DEVICE U.N.O. BOTTOM OF DEVICE U.N.O.
- INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.
- M. DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.
- N. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
- O. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER.
- P. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.
- Q. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT.
- WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER. S. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK.
- CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION.

(ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.).

- U. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- V. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.
- W. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT.
- X. DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- Y. THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL

BB. WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM

- WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER
- BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.
- BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION.

BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.

- CC. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
- DD. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.
- EE. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INSOFAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.
- FF. NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.
- GG. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY
- COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. HH. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN
- WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED.
- JJ. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK.
- NN. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.
- OO. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
- PP. WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.
- QQ. JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
- RR. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.
- SS. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR. TT. NOISY WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN OCCUPIED AREAS, ETC.
- SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS. COORDINATE EXACT SCHEDULING WITH FACILITY PRIOR TO CONSTRUCTION.
- UU. ALL ITEMS HAVING KEYED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.
- VV. WORK SHALL BE COMPLETED IN PHASES PER THE PHASING PLAN AND AS COORDINATED WITH OWNER AND GENERAL CONTRACTOR. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS. CERTIFICATIONS, ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.
- VW. PROVIDE NEMA RATINGS THAT ARE APPROPRIATE FOR THE ENVIRONMENT. WHERE NO NEMA RATING IS LISTED, THE ENGINEER SHALL MAKE THE FINAL DETERMINATION.

DESCRIPTION	Mounting Height	DRAWING SYMBOL	DESCRIPTION	Mounting Height	DRAWING SYMBOL
SWITCHES LIGHT SWITCH: GENERAL PURPOSE	46"	\$			
EXAM LIGHT SWITCH		⊅ \$Х	REFER TO LIGHT FIXTURE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
NIGHT LIGHT SWITCH WITH CONSTANTLY ILLUMINATED HANDLE		\$ N	SURFACE CEILING FIXTURE (SLASH INDICATES RECESSED)		⊕,O,¤ □ . □
SURGICAL LIGHT INTENSITY CONTROL		\$ SL	LIGHT POLE		Ţ
DIMMER SWITCH		\$ D	EMERGENCY BATTERY WALL-PACK		₹¥
THREE-WAY SWITCH		\$3 \$4	WALL MOUNT FIXTURE FLOODLIGHT		ф,ሺ И
FOUR-WAY SWITCH KEYED SWITCH		\$4 \$к	EXIT LIGHT (CEILING, END, WALL MOUNT)		₽₽₽
OCCUPANCY SENSOR SWITCH		\$ 0S	STRIP FIXTURE		⊂,⊊,⊊ ⊢-0−−1
VACANCY SENSOR SWITCH		\$vs	MISC.		
LIGHT SWITCH FOR UNDER-CABINET LIGHTS		\$U			
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF)		\$⊩	CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS:		- NEUTRAL
LOW VOLTAGE MOMENTARY SWITCH		\$ LV	HASHMÀRKS INDICATE # OF CONDUCTÖRS. DASHED LINE INDICATES CONDUIT BELOW FLOOR.		7%_0
PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)		\$ PL	DISCONNECT SWITCH	54 <b>"</b>	
TIMER SWITCH: 0-15 MIN. W/ HOLD SETTING TORK #A500 SERIES.		\$т ф ис	MAGNETIC STARTER	54"	M
MOMENTARY CONTACT SWITCH		\$ мс \$ ноа		54 <b>"</b>	<b>X</b>
H.O.A. 3-POSTION SWITCH	1		ENCLOSED FLUSH MTD. CIRCUIT BREAKER SURFACE MOUNTED BACKBOX/WREMOLD	54 <b>"</b>	 □,⊠
NON-REVERSING LOCKABLE MOTOR STARTER SNAP SWITCH	AS NOTED	\$ M	WREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN	_,_ \$2224
VACANCY SENSOR, CEILING MOUNT	CLG	(vs)	TRENCH DUCT (SIZE AS NOTED)	AS SHOWN	, , ≰∠∕∠5ŧ
PHOTO-CELL AS NOTED	AS NOTED	29	PUSHBUTTON STATION	AS SHOWN 46"	
OCCUPANCY SENSOR, CEILING MOUNT	CLG	(0S)	CONTINUATION		$\sim 1$
SIMPLEX RECEPTACLE	1'-6"	Φ	PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	
DUPLEX RECEPTACLE - SAFETY TYPE, TAMPER-RESISTANT	1'-6"	⊕ s	TRANSFORMER	AS NOTED	
DUPLEX RECEPTACLE	1'–6"	<del>0</del>	EMERGENCY POWER CIRCUIT		<u>Γ</u>
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4"ABOVE BACKSPLASH, NO HIGHER THAN 48"	ACT.	∉,∯	M.E.S. (MAJOR EQUIPMENT SCHEDULE) # INDICATOR		0
DUPLEX WITH INTEGRAL GROUND FAULT PROTECTION	1'-6"		TAGGED NOTE		$\bigcirc$
GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE DIVIDER IF LIGHTING CIRCUIT IS 277V)	46"	⊖_ c/s	REVISION TAG		$\land$
QUADRUPLEX RECEPTACLE	1'-6"	<b>—</b>	MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		
		$\bigcirc$	JUNCTION BOX CABLE TRAY	1'-6"	
VOLTAGE/1Ø RECEPTACLE, AS NOTED VOLTAGE/3Ø RECEPTACLE, AS NOTED	AS NOTED	€	LOW VOLTAGE CABLING PATH		
QUADRAPLEX - SURGE SUPPRESION TYPE		⊕ ⊕_ss	INDICATES MOUNTING ABOVE COUNTER-TOP, 2" ABOVE		с
WEATHER RESISTANT DUPLEX - WITH WEATHER-PROOF "WHILE			BACKSPLASH, NO HIGHER THAN 48" WREGUARD – PROVIDE MANUFACTURER'S SPECIFIC GUARD		WO
IN USE" TYPE DIE-CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS.	2'-2"	<b>⊖</b> – ₩₽	FOR DEVICE NOTED		WG
DUPLEX FOR ELECTRIC WATER COOLER: PROVIDE GFI TYPE CIRCUIT BREAKER FOR CIRCUIT SERVING WATER COOLER.			WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP
COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET BEHIND COOLER.		⊖ EWC	EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.		XP
		,	INDICATES EMERGENCY POWER		E
MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU)	6'-6" TO	FACP	PLUMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR		<u></u> ф
PULL STATION : DOUBLE ACTION	TOP 46" TO		CONNECTION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.		$\Phi$
	LEVER	F	PLUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION. TRANSFORMER SHALL BE 120V-24V. MOUNT ABOVE		
KEY-OPERATED STATION SHALL ONLY BE OPERABLE VIA KEY IN POSSESSION OF STAFF (NO HANDLE).	46" TO LEVER	FK	SUSPENDED ACCESSIBLE CEILING IN J-BOX. PROVIDE ADDITIONAL TRANSFORMERS OF SAME TYPE AS/IF NEEDED.		$\otimes$
AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL	F	PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL	Verify with	6
AUDIO-ONLY NOTIFICATION APPLIANCE	WALL	Н	SPECIFICATIONS).	ARCHITECT	Ø
VISUAL-ONLY NOTIFICATION APPLIANCE	WALL	S	SURGE PROTECTION DEVICE		SPD
PHOTO-ELECTRIC SMOKE DETECTOR	CLG	SD	THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE BACK-BOX CONDUIT		1
PHOTO-ELECTRIC SMOKE DETECTOR/HEAT DETECTOR FOR ELEVATOR CONTROL	CLG	SD <sup>EL</sup> HD <sup>EL</sup>	STUB-UP. DATA / VOICE	<u> </u>	,
HEAT DETECTOR	CLG	HD	MAIN DISTRIBUTION FRAME		
CARBON MONOXIDE DUCT DETECTOR	CLG				MDF
CARBON MONOXIDE ALARM: SINGLE STATION W/SOUNDER BASE		СМ	INTERMEDIATE DISTRIBUTION FRAME		IDF
DUCT SMOKE DETECTOR	ABV CLG	DD			עי
REMOTE L.C.D. FIRE ALARM ANNUNCIATOR	54"	FAA	TELECOMMUNICATIONS SYSTEM BACKBOARD.		TEL
POST INDICATOR VALVE			ABBREVIATIONS UNLESS OTHERWISE NOTED		UON
POWER SUPPLY/CONTROL FOR AUDIO/VISUAL DEVICES	54"	NAC	OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
GRAPHICS DISPLAY TERMINAL		GDT	OWNER FURNISHED OWNER INSTALLED		OFOI
ISOLATION MODULE	WALL		CONTRACTOR FURNISHED CONTRACTOR INSTALLED CONTRACTOR FURNISHED OWNER INSTALLED		CFCI CFOI
			INDICATES EMERGENCY POWER		EM
ZONE ADDRESSABLE MODULE		Z			
H.V.A.C. SMOKE DAMPER CONNECTION		SM			
ADDRESSABLE RELAY MODULE		R			
VANDAL-PROOF POLYCARBONATE COVER. VANDAL-PROOF					
COVERS SHALL BE UL LISTED FOR USE WITH THE SPECIFIC DEVICE THEY ARE PROTECTING.		PC			
		I			

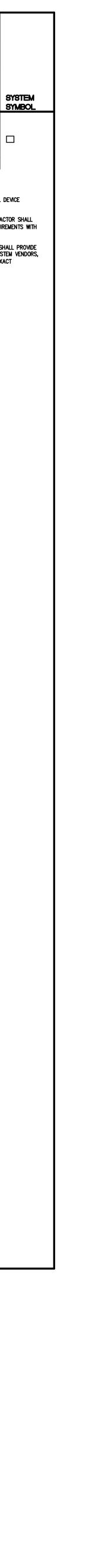
#### SYSTEM RESPONSIBILITY MATRIX IXIXIX - 0 F 0 | - 0 F C | - C F C | I Z Z SYSTEM DEVIC FIRE ALARM

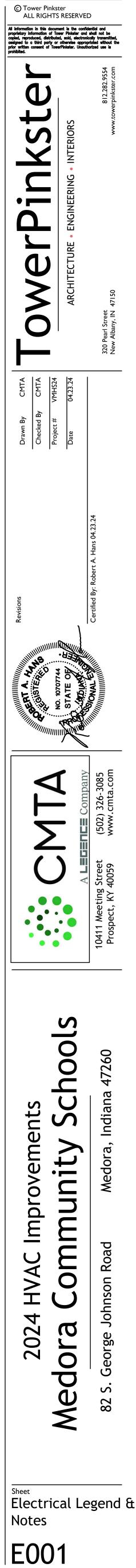
SYSTEM INSTALLATION GENERAL NOTES:

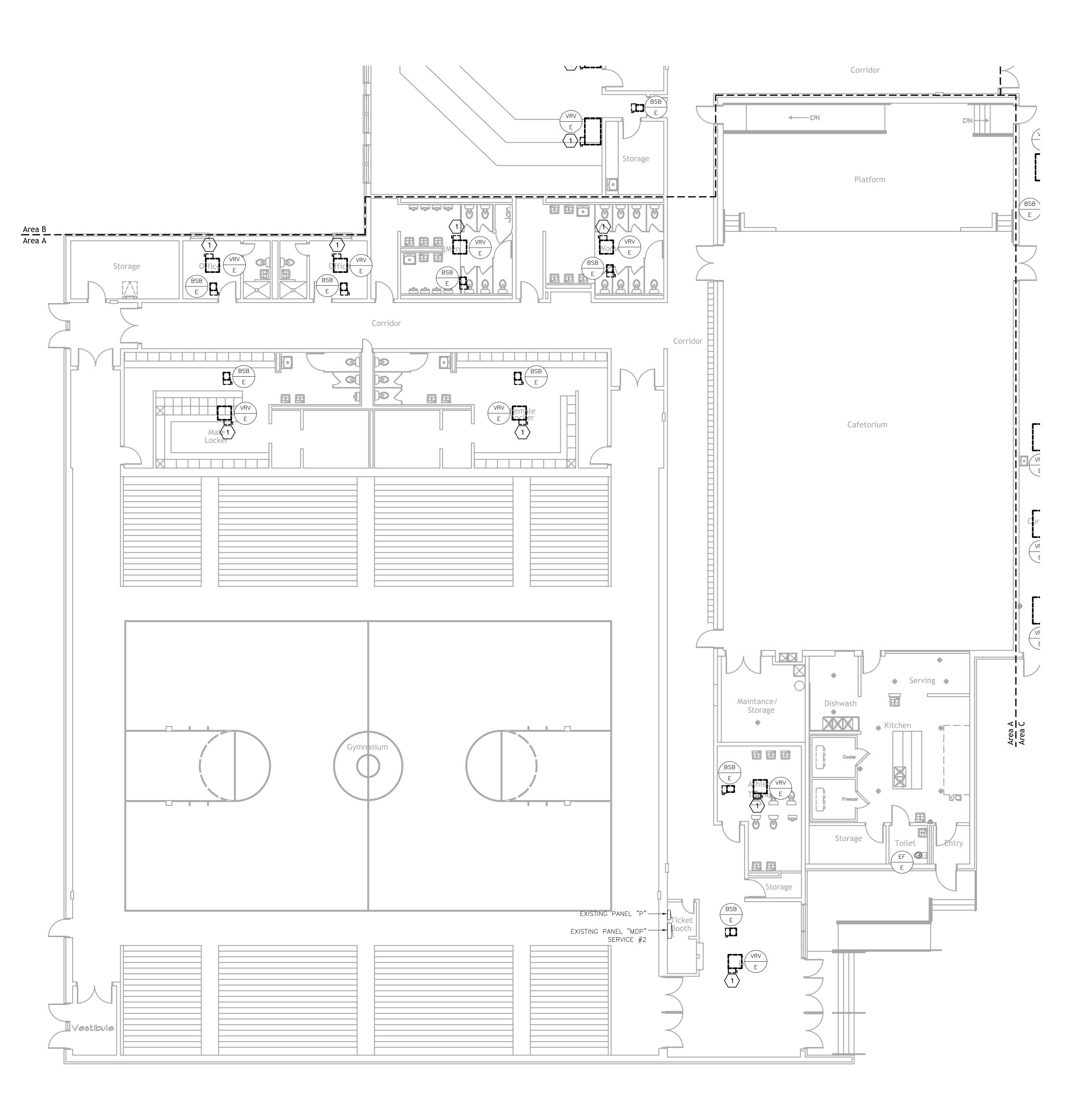
A. REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR ACCESS CONTROL DEVICE SPECIFICATIONS AND FURTHER REQUIREMENTS.

B. PROVIDE BACKBOXES AND CONDUIT WITH PULL-STRINGS FOR ALL SYSTEMS. CONTRACTOR SHALL VERIFY BACKBOX SIZES, CONDUIT, ETC. AND EXACT INSTALLATION LOCATIONS/REQUIREMENTS WITH SUCCESSENT ACHIORS OF ALL SYSTEMS PROP TO CONSTRUCTION SUCCESSFUL VENDORS OF ALL SYSTEMS PRIOR TO CONSTRUCTION.

C. AT ALL SYSTEMS EQUIPMENT CABINET/TERMINAL BOARD LOCATIONS, CONTRACTOR SHALL PROVIDE SIZE AND NUMBER OF CONDUIT STUB-OUTS TO CABLE PATHS AS REQUIRED BY SYSTEM VENDORS, TERMINATE CONDUITS AT CABINETS/ON BACKBOARDS AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH APPROPRIATE VENDORS PRIOR TO CONSTRUCTION.







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# Electrical Plan - First Floor - Area A - Demolition Scale:½" = 1'0"

GENERAL ELECTRICAL DEMOLITION NOTES : A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N.) AND THIN SOLID

- LINES INDICATE EXISTING ITEMS TO REMAIN. B. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN . WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS : THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT 'UPSTREAM' DR 'DDWNSTREAM' DN THE CIRCUITS SHALL REMAIN IN 'PRE- DEMOLITION' WORKING DRDER . 'LEFT-DVER' CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS
- ALL PANELS AFFECTED. C. LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO Do any part of the work indicated hereon shall visit this site AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- D. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (U.O.N.). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- E. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- F. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR
- EQUIPMENT. G. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS
- AS REQUIRED. H. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- I. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- J. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON

PLANS.

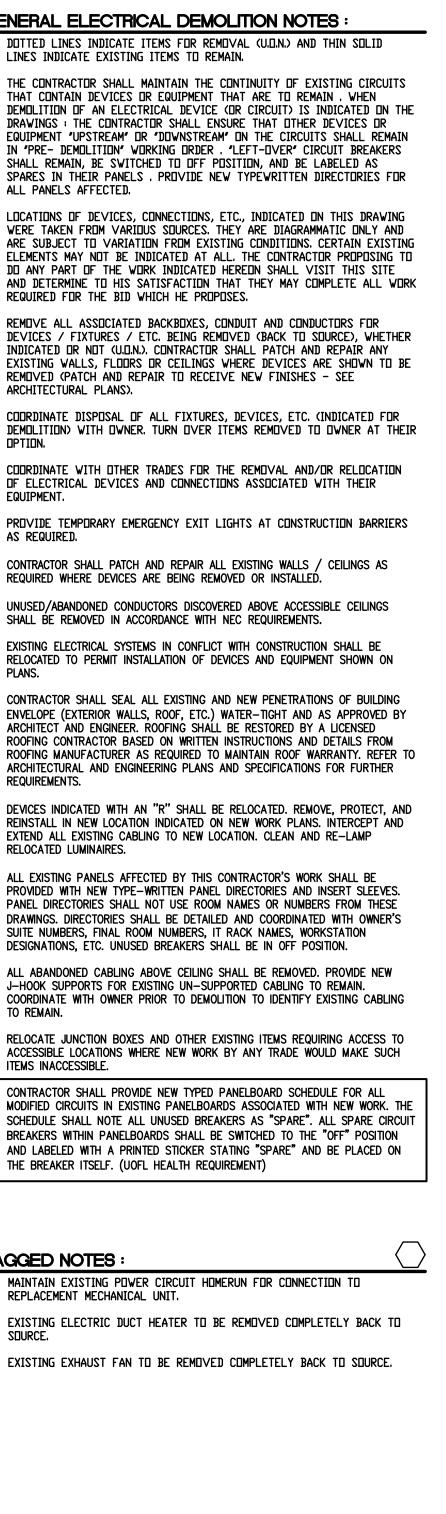
- K. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- L. DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.
- M. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.
- N. ALL ABANDONED CABLING ABOVE CEILING SHALL BE REMOVED. PROVIDE NEW J-HOOK SUPPORTS FOR EXISTING UN-SUPPORTED CABLING TO REMAIN. COORDINATE WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY EXISTING CABLING TO REMAIN.
- 0. RELOCATE JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRING ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS INACCESSIBLE.

P. CONTRACTOR SHALL PROVIDE NEW TYPED PANELBOARD SCHEDULE FOR ALL MODIFIED CIRCUITS IN EXISTING PANELBOARDS ASSOCIATED WITH NEW WORK. THE SCHEDULE SHALL NOTE ALL UNUSED BREAKERS AS "SPARE". ALL SPARE CIRCUIT BREAKERS WITHIN PANELBOARDS SHALL BE SWITCHED TO THE "OFF" POSITION AND LABELED WITH A PRINTED STICKER STATING "SPARE" AND BE PLACED ON THE BREAKER ITSELF. (UOFL HEALTH REQUIREMENT)

TAGGED NOTES :

- 1. MAINTAIN EXISTING POWER CIRCUIT HOMERUN FOR CONNECTION TO REPLACEMENT MECHANICAL UNIT.
- 2. EXISTING ELECTRIC DUCT HEATER TO BE REMOVED COMPLETELY BACK TO SOURCE. 3. EXISTING EXHAUST FAN TO BE REMOVED COMPLETELY BACK TO SOURCE.

AREA "C" AREA "B" AREA "A" Key Plan No Scale

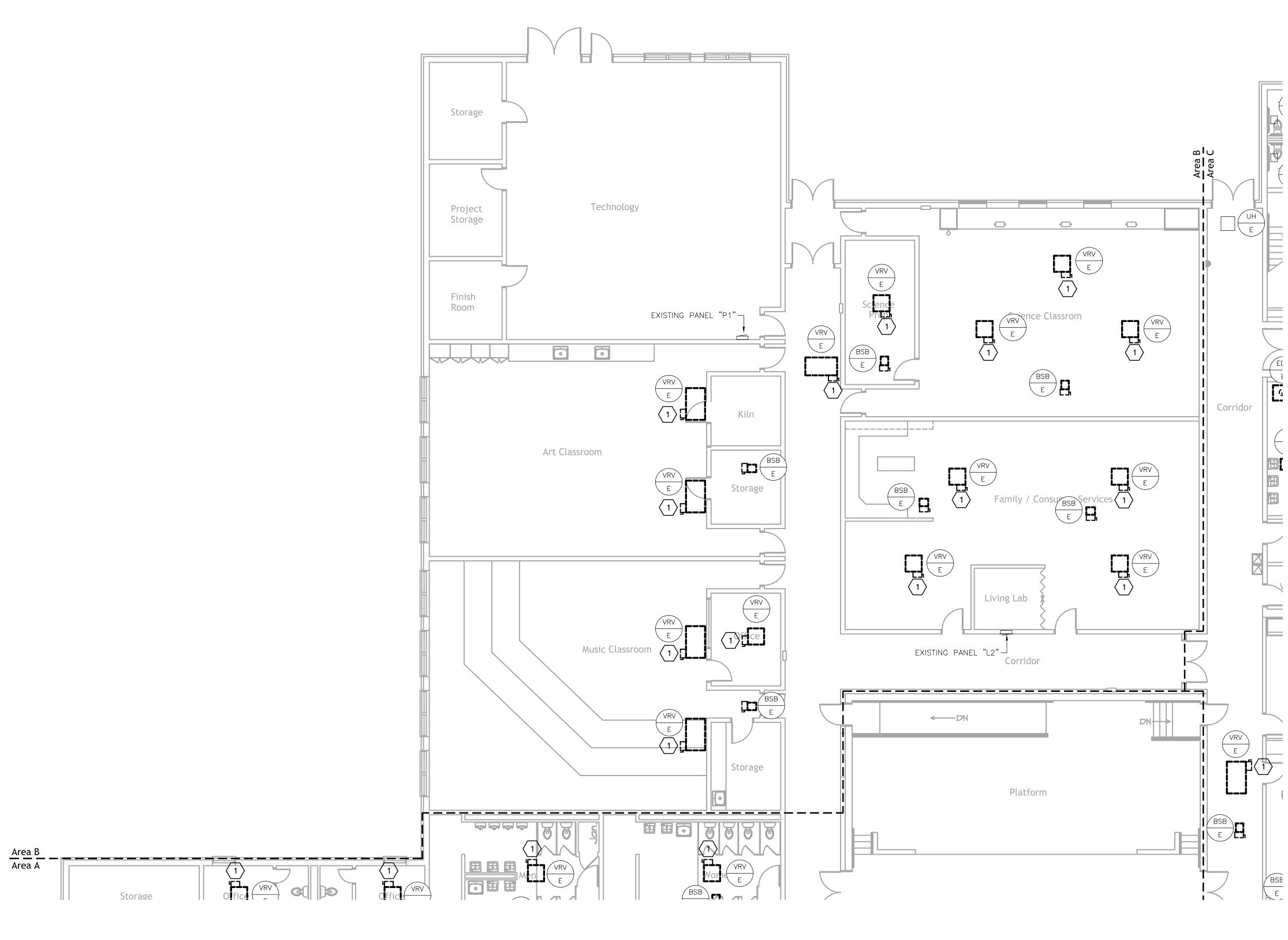




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Storage



Electrical Plan - First Floor - Area B - Demolition Scale:½" = 1'0"

GENERAL ELECTRICAL DEMOLITION NOTES : A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (U.O.N.) AND THIN SOLID

LINES INDICATE EXISTING ITEMS TO REMAIN.

- B. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN . WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS : THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT 'UPSTREAM' OR 'DOWNSTREAM' ON THE CIRCUITS SHALL REMAIN IN 'PRE- DEMOLITION' WORKING ORDER , 'LEFT-OVER' CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO DFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS . PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR
- ALL PANELS AFFECTED. C. LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO Do any part of the work indicated hereon shall visit this site AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.
- D. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (U.O.N.). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).
- E. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.
- F. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.
- G. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.
- H. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.
- I. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.
- J. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON

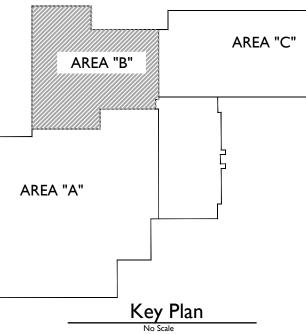
PLANS.

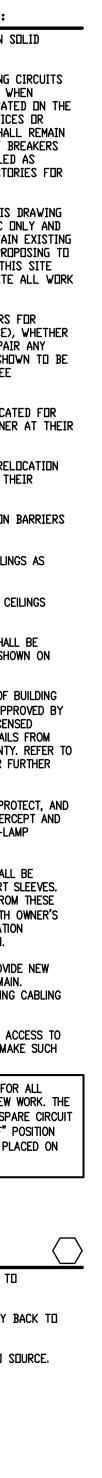
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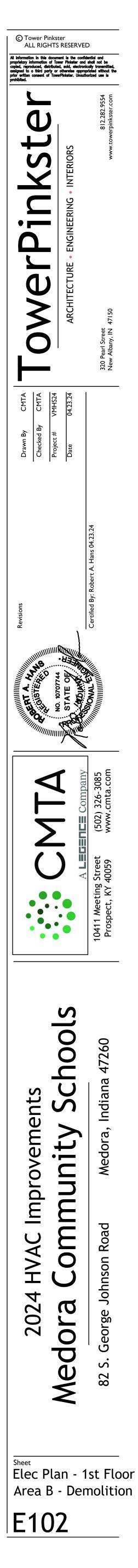
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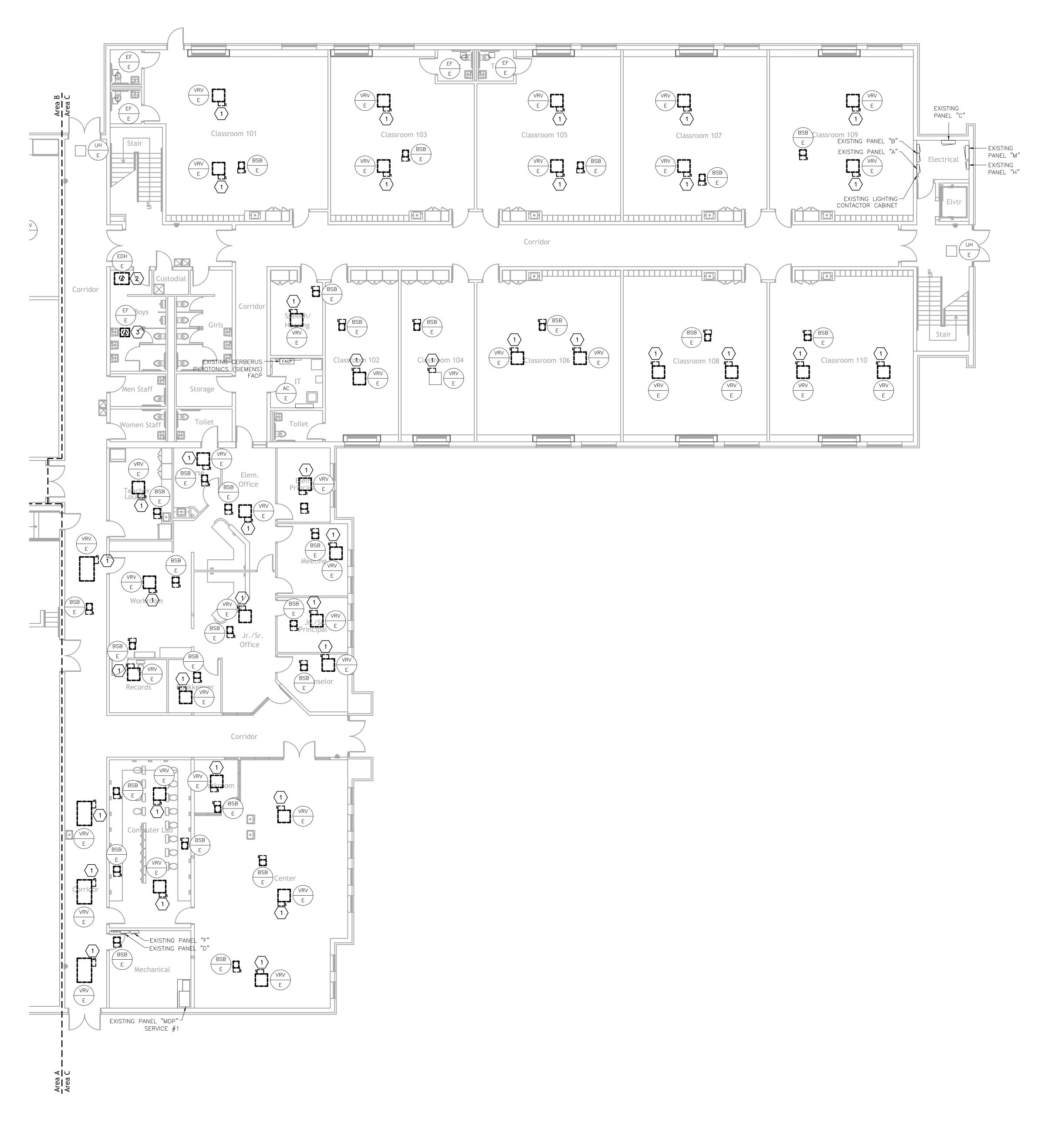
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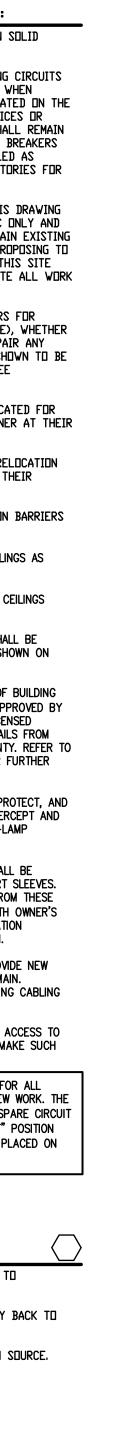
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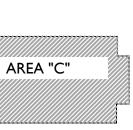
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AREA "B" AREA "A" AREA "A" <u>Key Plan</u> No Scale







E103



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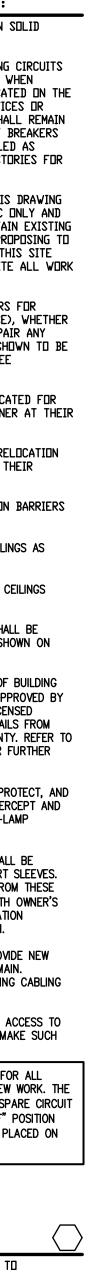
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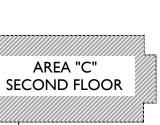
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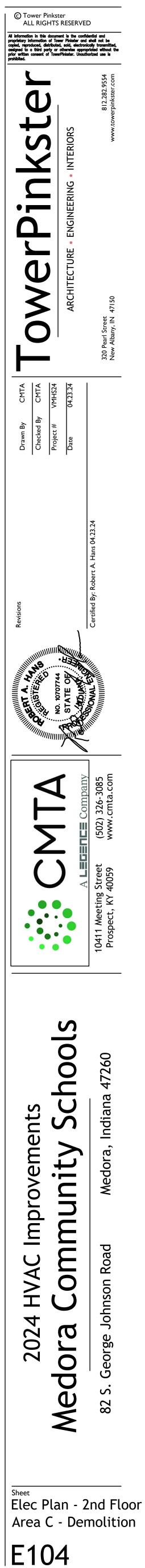
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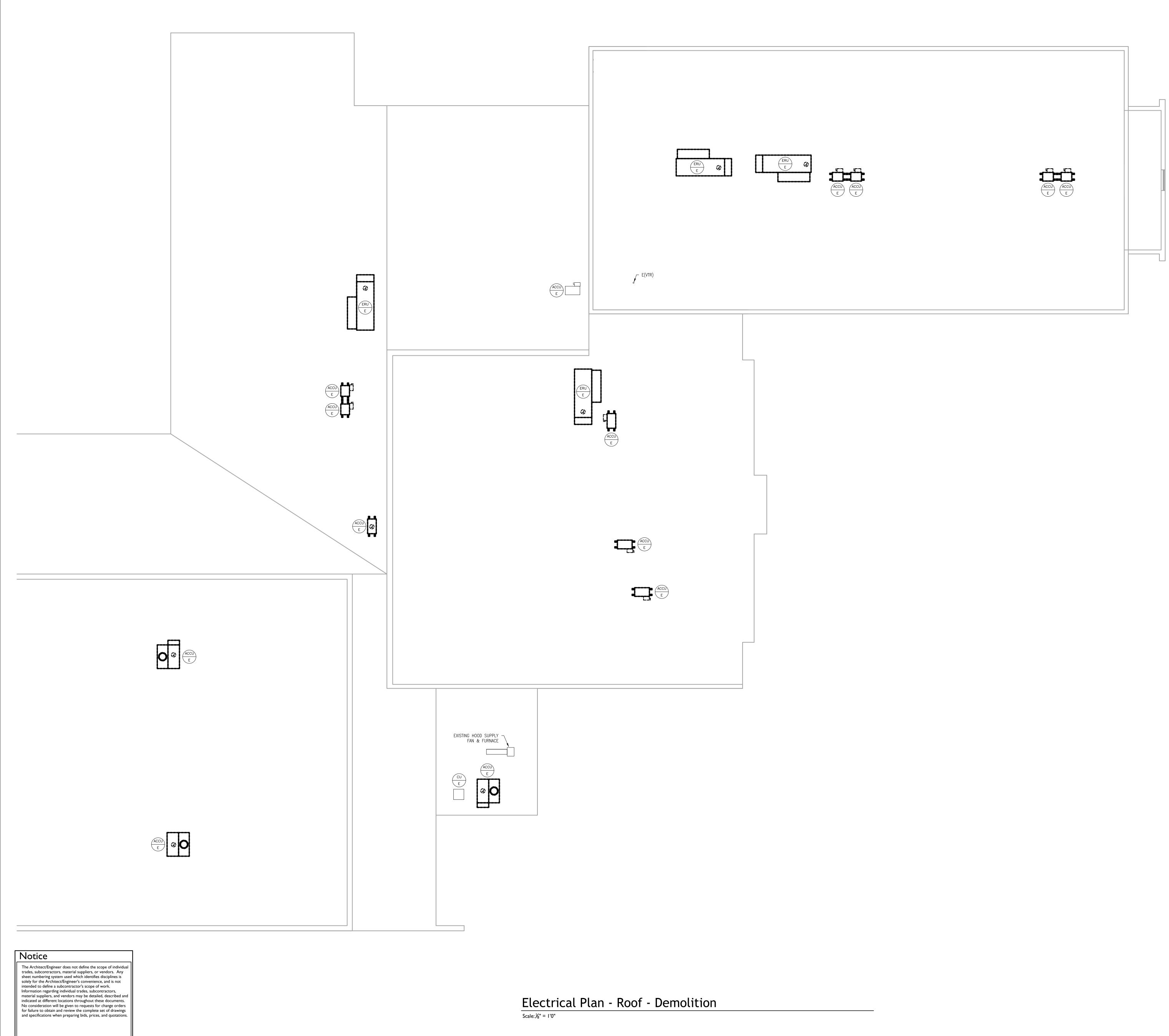
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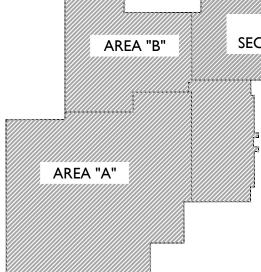
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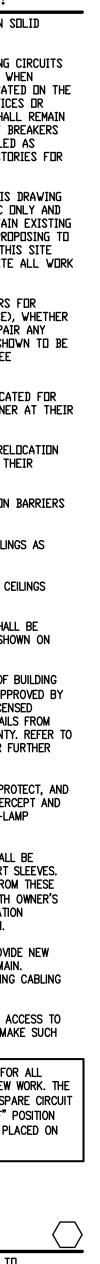
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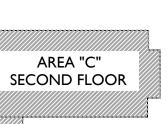
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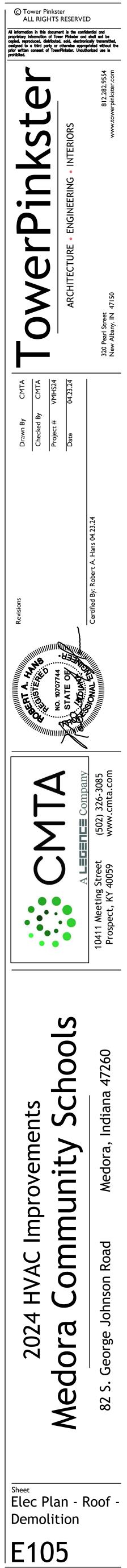
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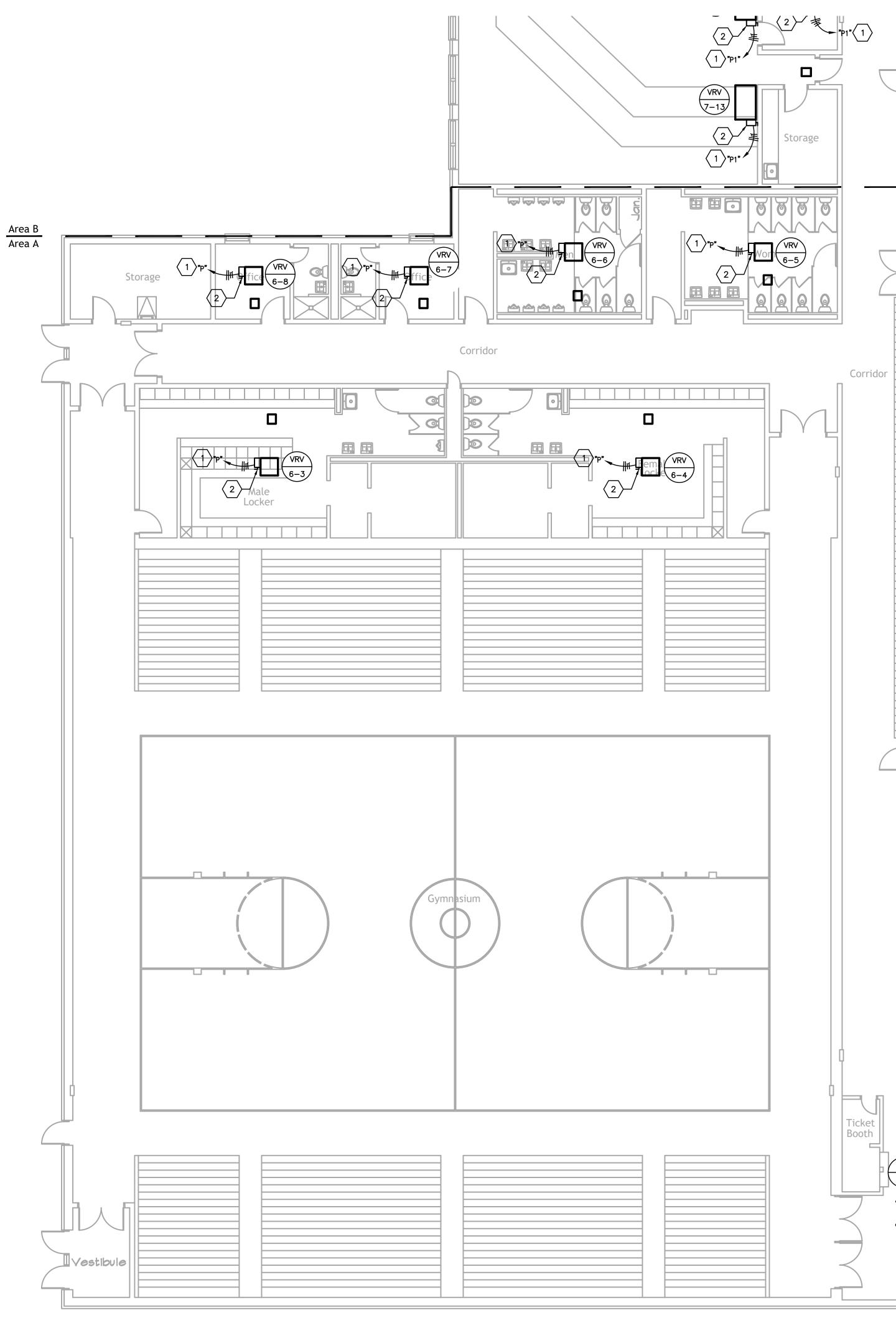


Key Plan No Scale









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Electrical Plan - First Floor - Area A - New Work

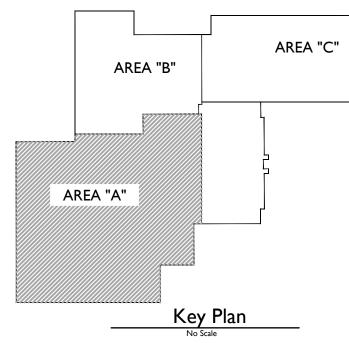
Corridor \_\_\_\_ ← DN DNH Platform Cafetorium XX 💠 Serving 🖶 Maintance/ Dishwash Storage - **- —** XXX -**+**--ΥU 🛻 Kitchen <u>Area</u> Area \_\_\_\_ VRV Ë Cooler 6-2 िप्रामि ( Freezer  $\langle 2 \rangle^2$ U<sub>"P</sub>"U Œ (1)Storage Toilet 0:. torage 6-1  $\sqrt{2}$ 2 (1)"p"

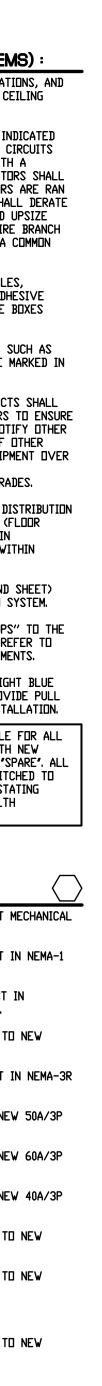
GENERAL NEW WORK NOTES (POWER/SYSTEMS) : A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING

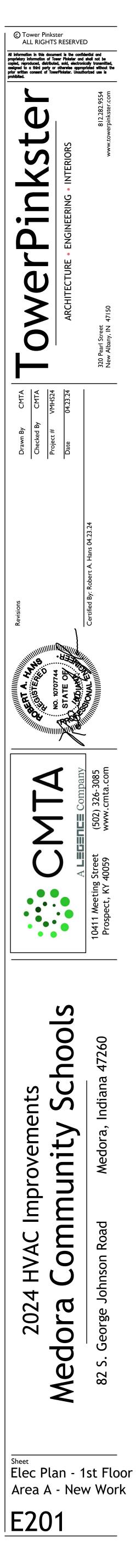
- MOUNTED ELECTRICAL DEVICES.
  B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON
- NEUTRAL CONDUCTOR> SHALL NOT BE PERMITTED. C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS DCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
- E. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
- F. NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATION (FLOOR BOXES, ISLANDS, ETC,) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.
- G. REFER TO 'SYSTEM INSTALLATION MATRIX' (ON SYSTEMS LEGEND SHEET) AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
  H. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE
- NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS. I. CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE FOR SYSTEMS CABLING INTO THE CORRIDOR CABLING PATH. PROVIDE PULL
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# TAGGED NOTES :

- 1. EXTEND AND CONNECT EXISTING CIRCUIT TO NEW REPLACEMENT MECHANICAL EQUIPMENT.
- 2. PROVIDE NEW 30A/208V/2P HEAVY-DUTY FUSIBLE DISCONNECT IN NEMA-1 ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE RATING.
- 3. PROVIDE NEW 100A/208V/3P HEAVY-DUTY FUSIBLE DISCONNECT IN NEMA-3R ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE RATING.
- 4. PROVIDE # OF #3 CONDUCTORS AS SHOWN IN 1-1/4" CONDUIT TO NEW 90A/3P BREAKER IN EXISTING PANEL INDICATED.
- 5. PROVIDE NEW 60A/208V/3P HEAVY-DUTY FUSIBLE DISCONNECT IN NEMA-3R ENCLOSURE FUSED AT EQUIPMENT NAMEPLATE RATING.
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   PROVIDE 30A/2P MOTOR RATED SWITCH.



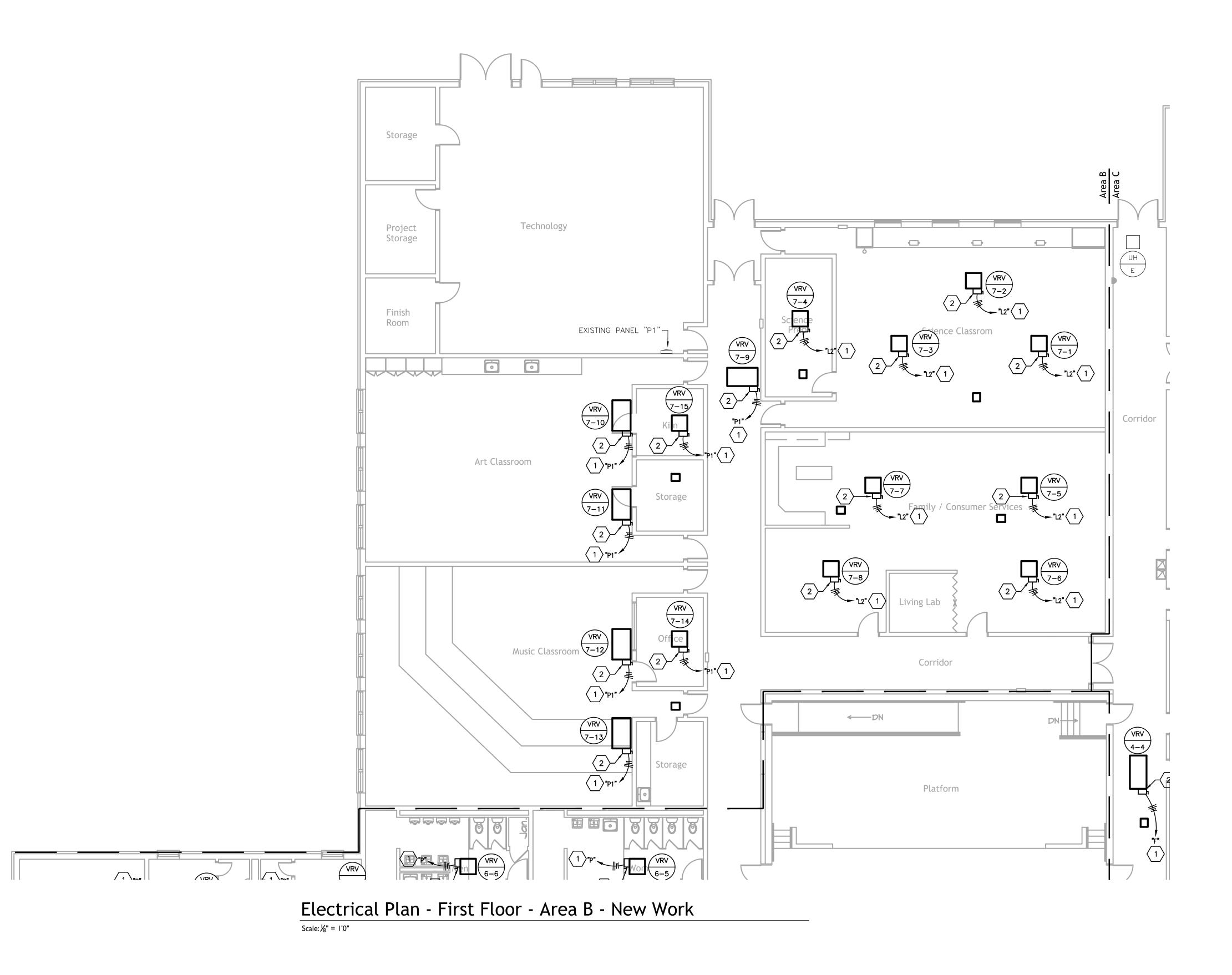




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Area B Area A

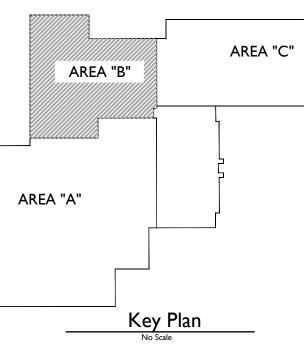


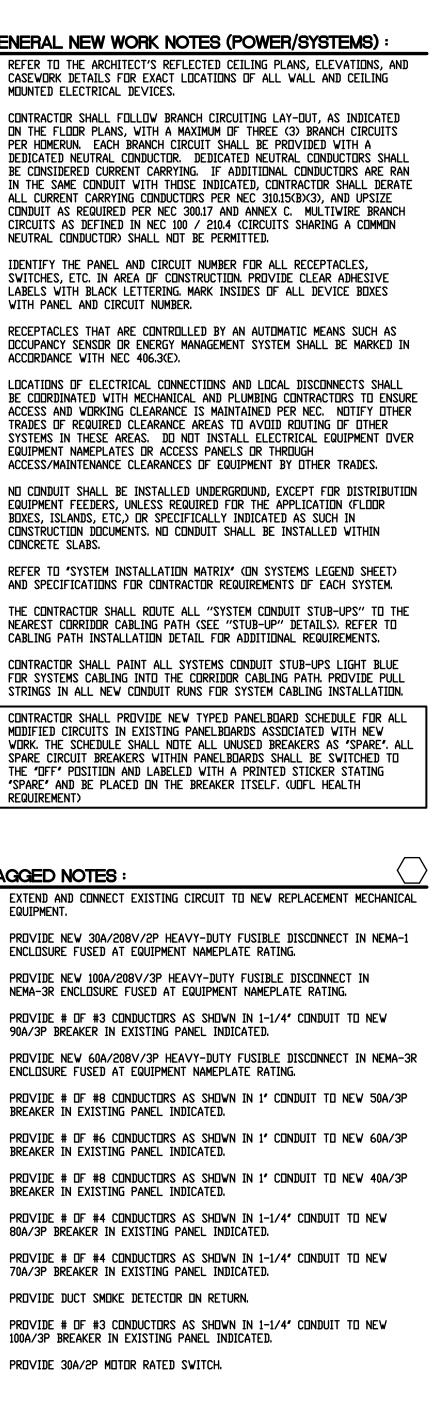
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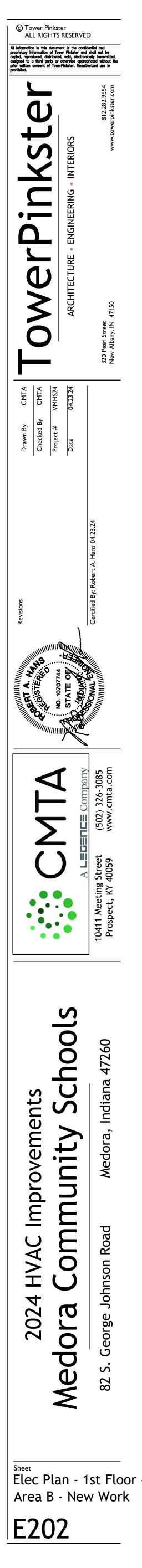
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- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING, MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC MEANS SUCH AS DCCUPANCY SENSOR OR ENERGY MANAGEMENT SYSTEM SHALL BE MARKED IN ACCORDANCE WITH NEC 406.3(E).
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- H. THE CONTRACTOR SHALL ROUTE ALL "SYSTEM CONDUIT STUB-UPS" TO THE NEAREST CORRIDOR CABLING PATH (SEE "STUB-UP" DETAILS). REFER TO CABLING PATH INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS. I. CONTRACTOR SHALL PAINT ALL SYSTEMS CONDUIT STUB-UPS LIGHT BLUE
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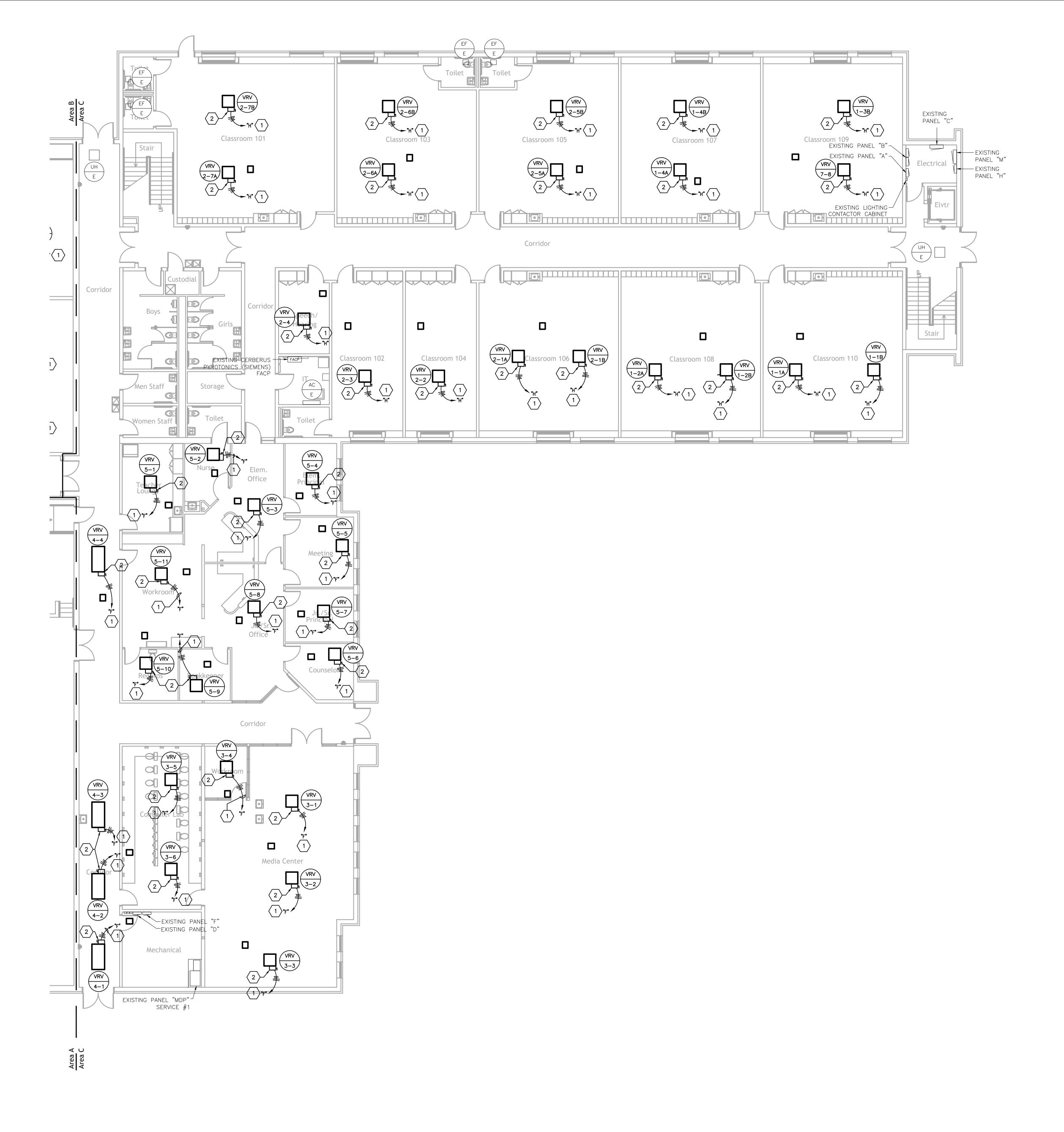
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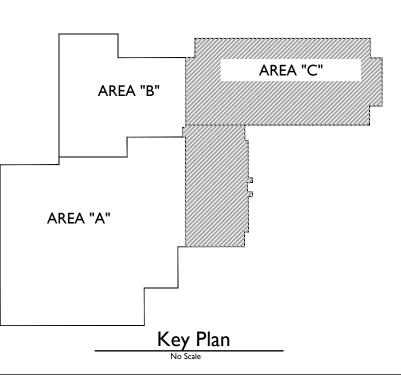
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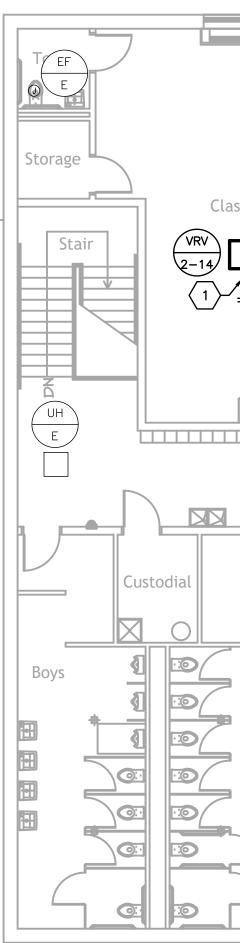




C Tower Pinkster

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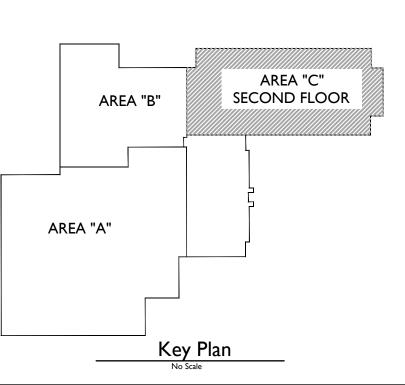


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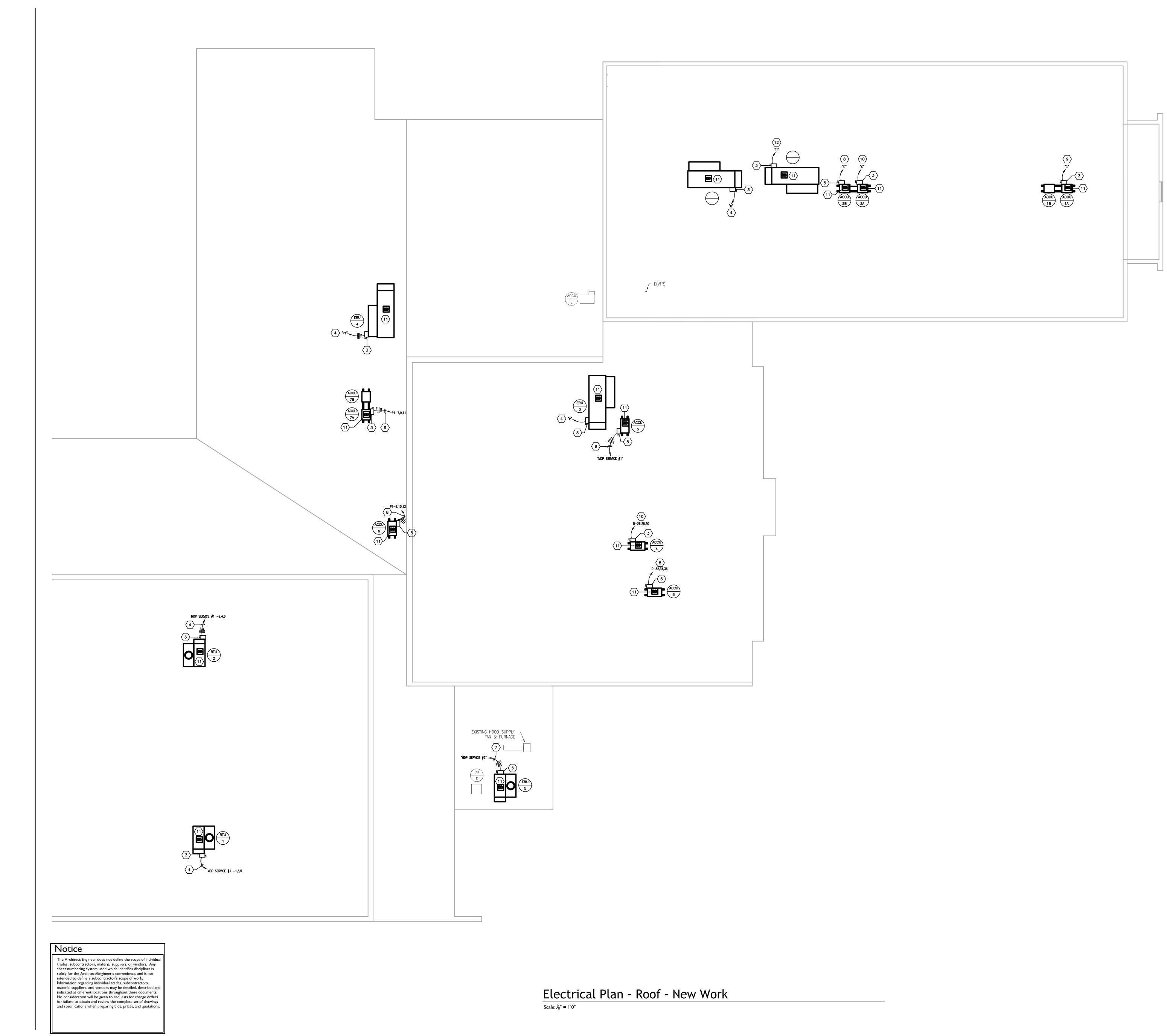
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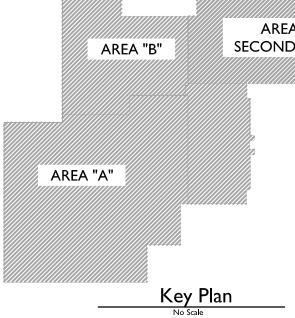


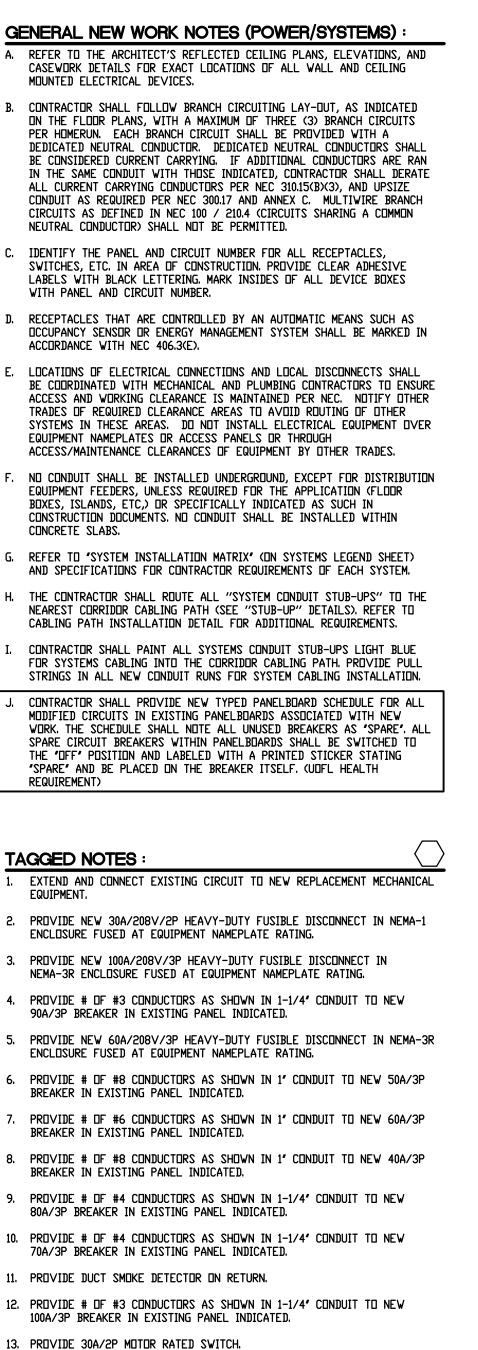


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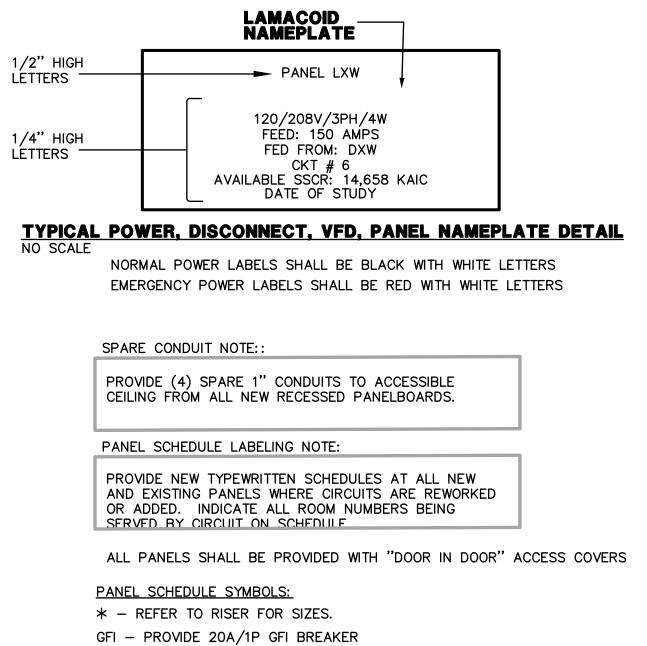






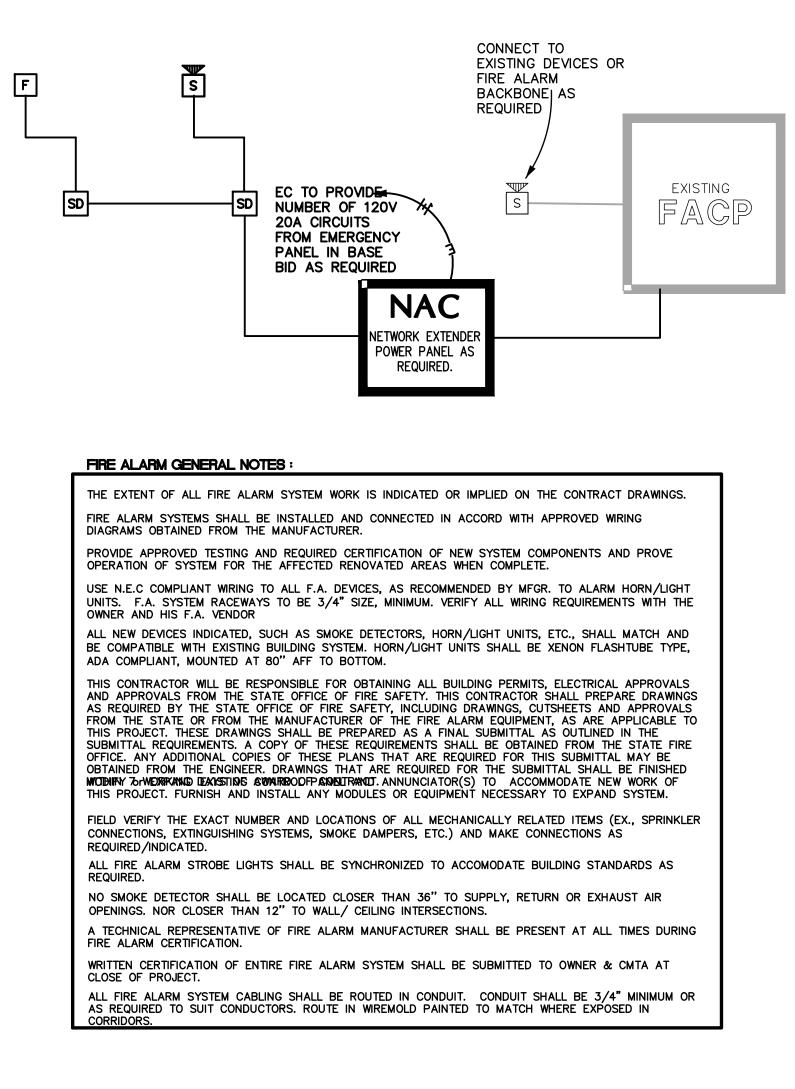
AREA "C" SECOND FLOOR

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# – MATCH EXISTING CONDITIONS. PROVIDE NUMBER OF CIRCUITS AS REQUIRED FOR EXISTING LOADS

# LAMACOID LABEL AND PANEL SCHEDULE DETAIL



FIRE ALARM RISER DIAGRAM

