



1126 South Commerce St.
Harlingen, TX 78550
Off: (956) 230-3435
Fax: (956) 720-0830
www.ethoseng.net



05/30/2024

May 30, 2024

IDEA Public Schools Lower RGV Mechanical Upgrades CSP#25-LRMU-0424

ADDENDUM NO. 1

A. PURPOSE AND INTENT

This addendum is issued for the purpose of modifying the plans for the project referenced above. This addendum shall become part of the contract and all contractors shall be bound by its content. All aspects of the specifications and drawings not covered herein shall remain the same. The General Conditions and the Special Conditions of the specifications shall govern all parts of the work and apply in full force to this addendum.

B. SCOPE

I. Clarifications

1. Access for demolition and replacement of existing ACCU's & exhaust fans may be restricted/blocked by existing site conditions (canopies, fences, etc.). Contractor shall provide the necessary proper means (crane, lift, etc.) to perform construction activities and include cost in the bid. Contractor is responsible for repairing all the damages caused by the setup and use of the crane. Contractor shall return the site (parking lot, driveway, asphalt, curbs, grass, sidewalks, etc.) to its original condition after construction activities are performed.

II. Drawings

1. ME2.1 – See attached.
 - a) Revised mechanical keyed notes.
2. ME2.2 – See attached.
 - a) Revised mechanical legend.
3. ME3.2 – See attached.
 - a) Revised mechanical legend.
4. ME3.4 – See attached.
 - a) Revised mechanical legend.
5. ME3.5 – See attached.
 - a) Revised mechanical keyed notes.

6. ME4.3 – See attached.
 - a) Revised enlargement callout.
 - b) Revised mechanical legend.
7. ME5.1 – See attached.
 - a) Revised mechanical schedule notes.
8. ME5.2 – See attached.
 - a) Revised mechanical schedule notes.
9. ME5.3 – See attached.
 - a) Revised mechanical schedule notes.
10. ME6.1 – See attached.
 - a) Revised mechanical details.

LEGEND

	EXISTING SUPPLY DIFFUSER TO BE REMAIN
	EXISTING RETURN AIR GRILLE TO REMAIN
	EXISTING DUCTWORK TO REMAIN
	EXISTING EQUIPMENT TO REMAIN
	EXISTING PIPING TO REMAIN
	NEW EQUIPMENT TO BE INSTALLED

NO. REVISION: BY:
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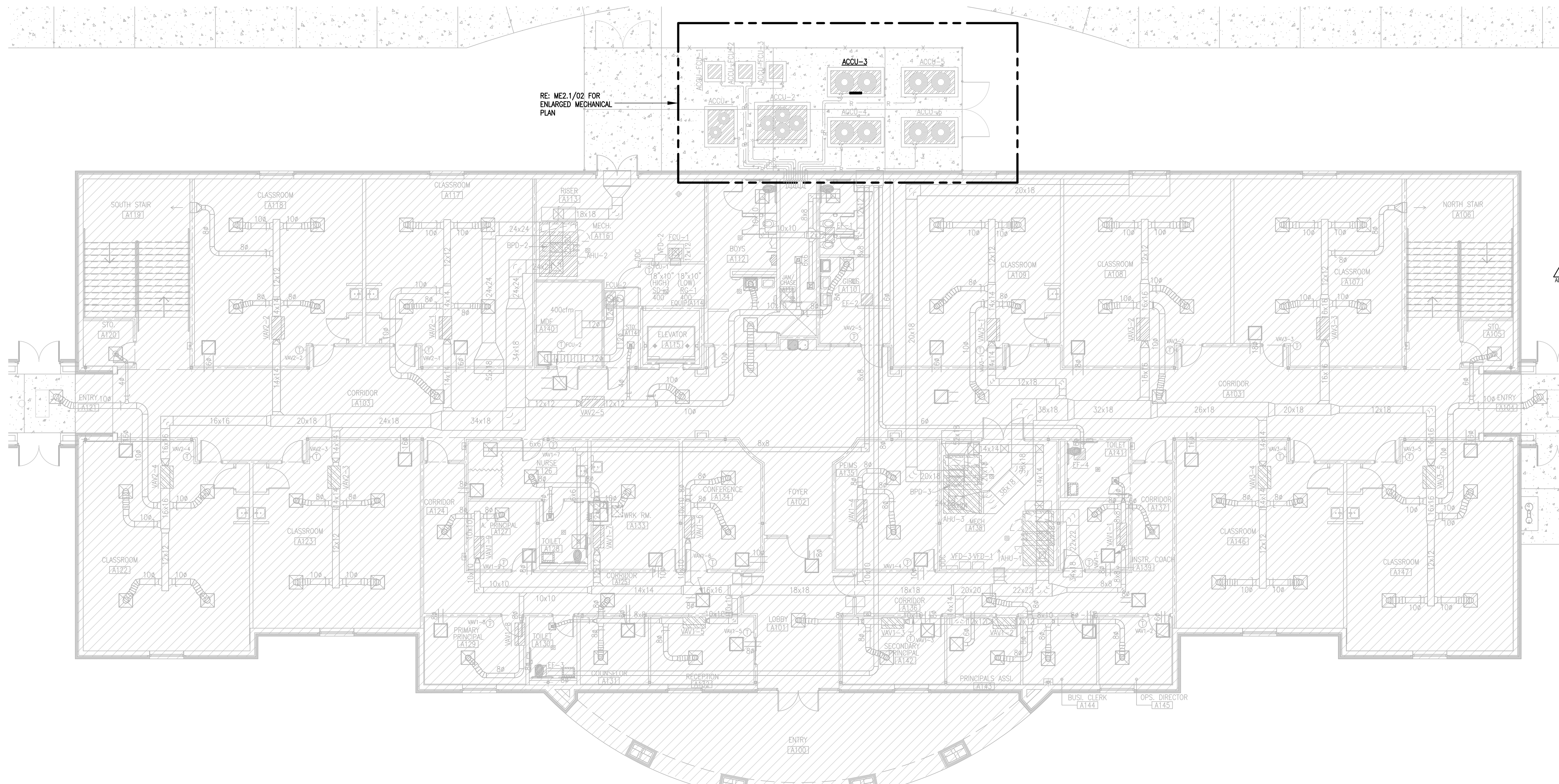
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MECHANICAL KEYED NOTES:

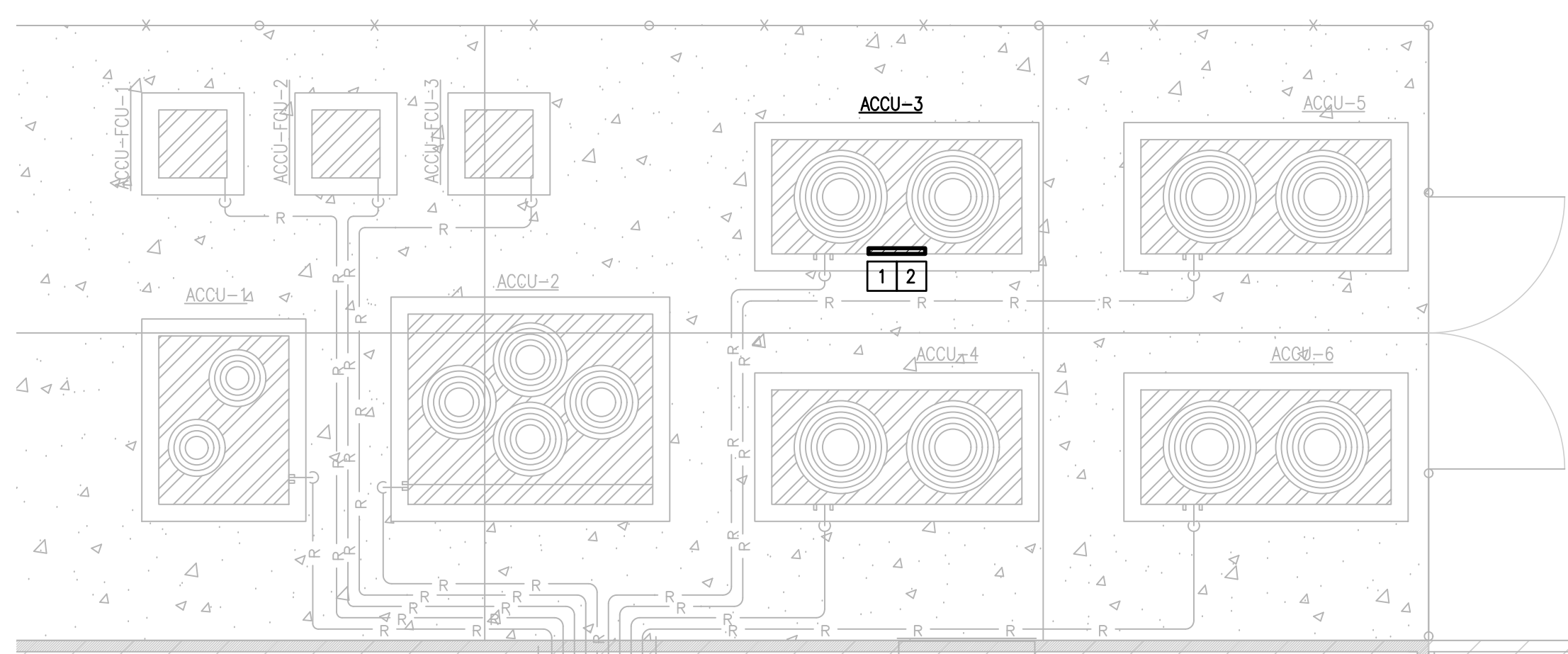
- REMOVE AND REPLACE EXISTING CARRIER ACCU DAMAGED CONTROL PANEL. PROVIDE NEW CARRIER MODEL NUMBER HK0A031. PROVIDE FULL START-UP SERVICES FOR THE NEW CONTROL PANEL AND ASSOCIATED EXISTING ACCU AND AHU INCLUDING TROUBLESHOOTING AND DIAGNOSIS SERVICES. REPORT DEFICIENCIES TO THE OWNER AND ENGINEER. OWNER MAY DECIDE TO ADDRESS EXISTING DEFICIENCIES USING THE ALLOWANCE. REPLACEMENT WORK OF THE NEW ACCU CONTROL PANEL SHALL BE PERFORMED BY A CERTIFIED CARRIER TECHNICIAN.
- CONTACT TEXAS AIR PRODUCTS (MANUFACTURER REP) AT PHONE NUMBER 210-495-8100 FOR CARRIER CERTIFIED TECHNICIAN INFORMATION AND FOR CARRIER PARTS PRICING.



RE: ME2.1/02 FOR ENLARGED MECHANICAL PLAN

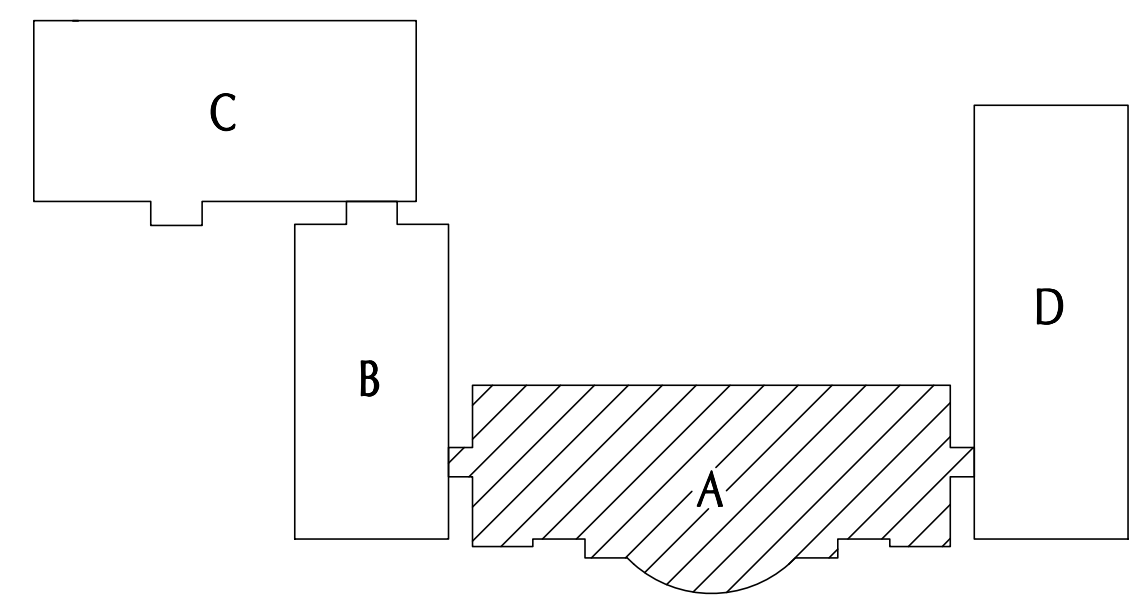
**IDEA BROWNSVILLE BUILDING A
 01 MECHANICAL & ELECTRICAL FLOOR PLAN**

SCALE: 1/8" = 1'-0"



02 ENLARGED MECHANICAL & ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"



KEY PLAN

**IDEA PUBLIC SCHOOLS
 LOWER RGV MECHANICAL UPGRADES**

BROWNSVILLE



1128 SOUTH COMMERCE ST.
 HARLINGEN, TX
 PHONE: 361-206-3435
 TEXAS REGISTERED
 ENGINEERING FIRM
 E-15998

DATE: MAY 24, 2024

CHECKED BY: B.B.

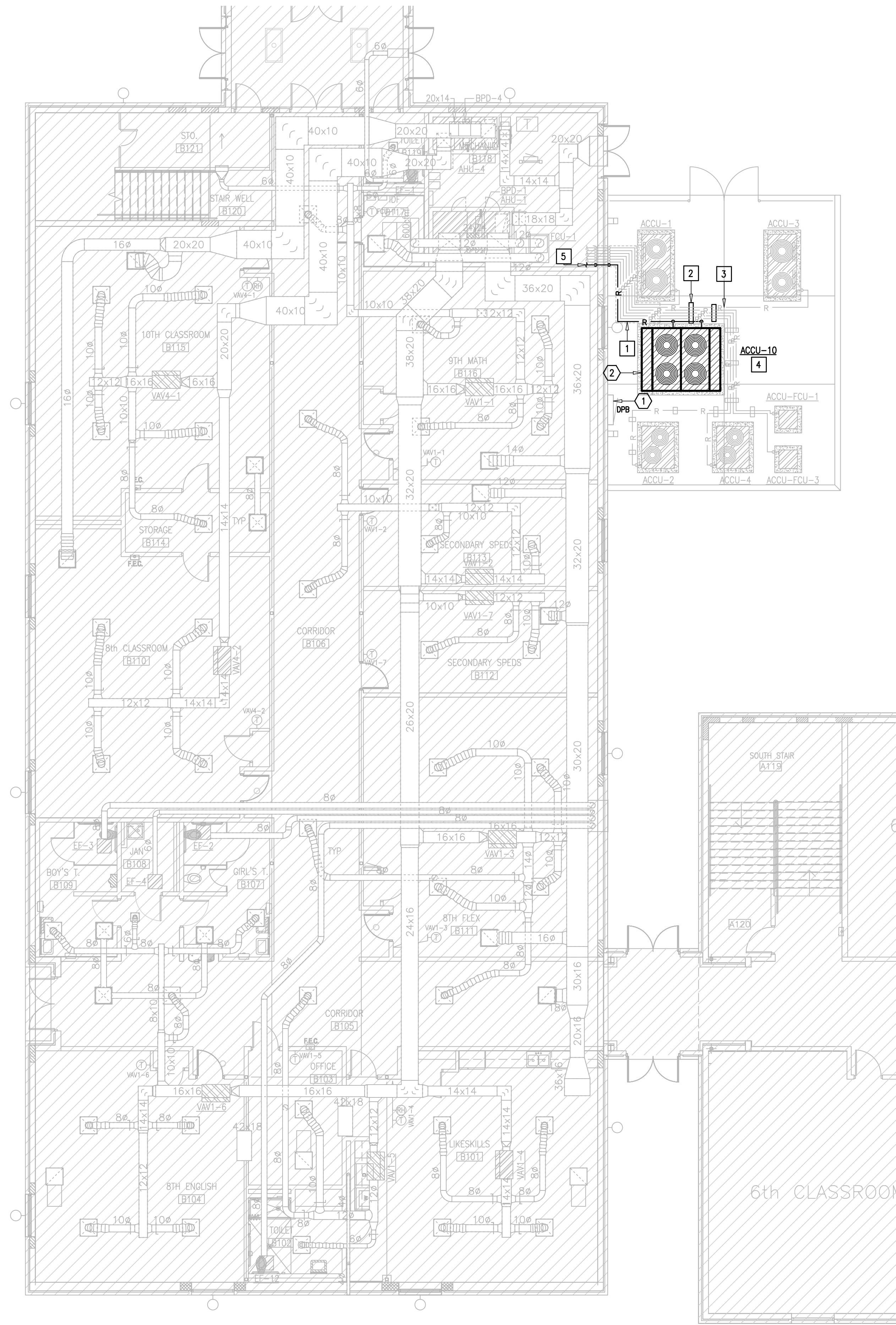
DRAWN BY: D.G.

PROJECT NO.: 23V76

CAD FILE:

SHEET:

ME2.1



**01 IDEA BROWNSVILLE BUILDING B
MECHANICAL & ELECTRICAL FLOOR PLAN**
SCALE: 1/8" = 1'-0"

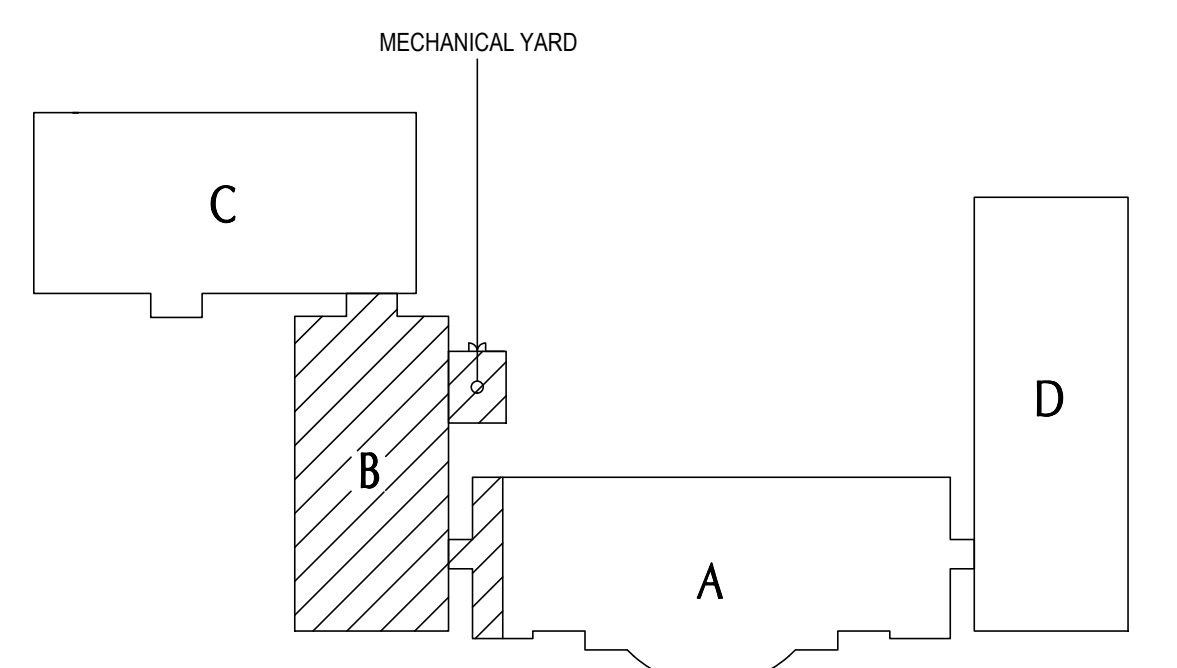
LEGEND	
	EXISTING SUPPLY DIFFUSER TO REMAIN
	EXISTING RETURN AIR GRILLE TO REMAIN
	EXISTING DUCTWORK TO REMAIN
	EXISTING EQUIPMENT TO REMAIN
	NEW EQUIPMENT TO BE INSTALLED
	NEW PIPING TO BE INSTALLED
	EXISTING PIPING TO REMAIN

MECHANICAL KEYED NOTES:

- 1 DEMOLISH EXISTING REFRIGERANT PIPING. REPLACE IT WITH NEW REFRIGERANT PIPING AND ROUTE TO INDOOR UNIT. COORDINATE ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION. ROUTE INSIDE WALL TO AVOID EXPOSED PIPING WITHIN THE SPACE. (TYPICAL)
- 2 PROVIDE REFRIGERANT LINE SUPPORTS. SEE ASSOCIATED DETAIL. (TYPICAL)
- 3 PROVIDE NEW 1" INSULATION ON ALL REFRIGERANT LINES BOTH NEW AND EXISTING. PROVIDE ALUMINUM JACKET ON EXPOSED REFRIGERANT LINES. SEE SPECIFICATIONS. PROVIDE REFRIGERANT LINE SUPPORTS PER SPECIFICATIONS. SEE ASSOCIATED DETAIL.
- 4 DEMOLISH EXISTING ACCU AND INSTALL NEW AIR COOLED CONDENSING UNIT AND INSULATED REFRIGERANT PIPING PER SPECIFICATIONS. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AND MOUNT UNIT ON EXISTING CONCRETE PAD. PAD SHALL BE MINIMUM 6" LARGER THAN EQUIPMENT FOOTPRINT ON ALL SIDES. REFRIGERANT PIPING SHOWN IS STRICTLY SCHEMATIC. VERIFY NUMBER OF CIRCUITS AND PIPE SIZES WITH MANUFACTURER'S DATA. BOLT EQUIPMENT DOWN TO EXISTING CONCRETE SLAB. ATTACHMENT SHALL BE CAPABLE OF WITHSTANDING THE LOCAL WIND PRESSURES. PROVIDE START-UP SERVICES. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- 5 RETAIN EXISTING PENETRATION SLEEVES WHERE POSSIBLE. SEAL AROUND NEW PIPING WITH FIRE PROOF CAULKING. PROVIDE NEW ESCUTCHEON PLATES AND FLASHING AROUND PENETRATION BOTH INSIDE AND OUTSIDE TO PROVIDE FINISHED LOOK WHERE NECESSARY.

ELECTRICAL KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING HVAC EQUIPMENT.
- 2 DISCONNECT EXISTING HVAC EQUIPMENT FOR REPLACEMENT. SEE EQUIPMENT CONNECTION SCHEDULE.

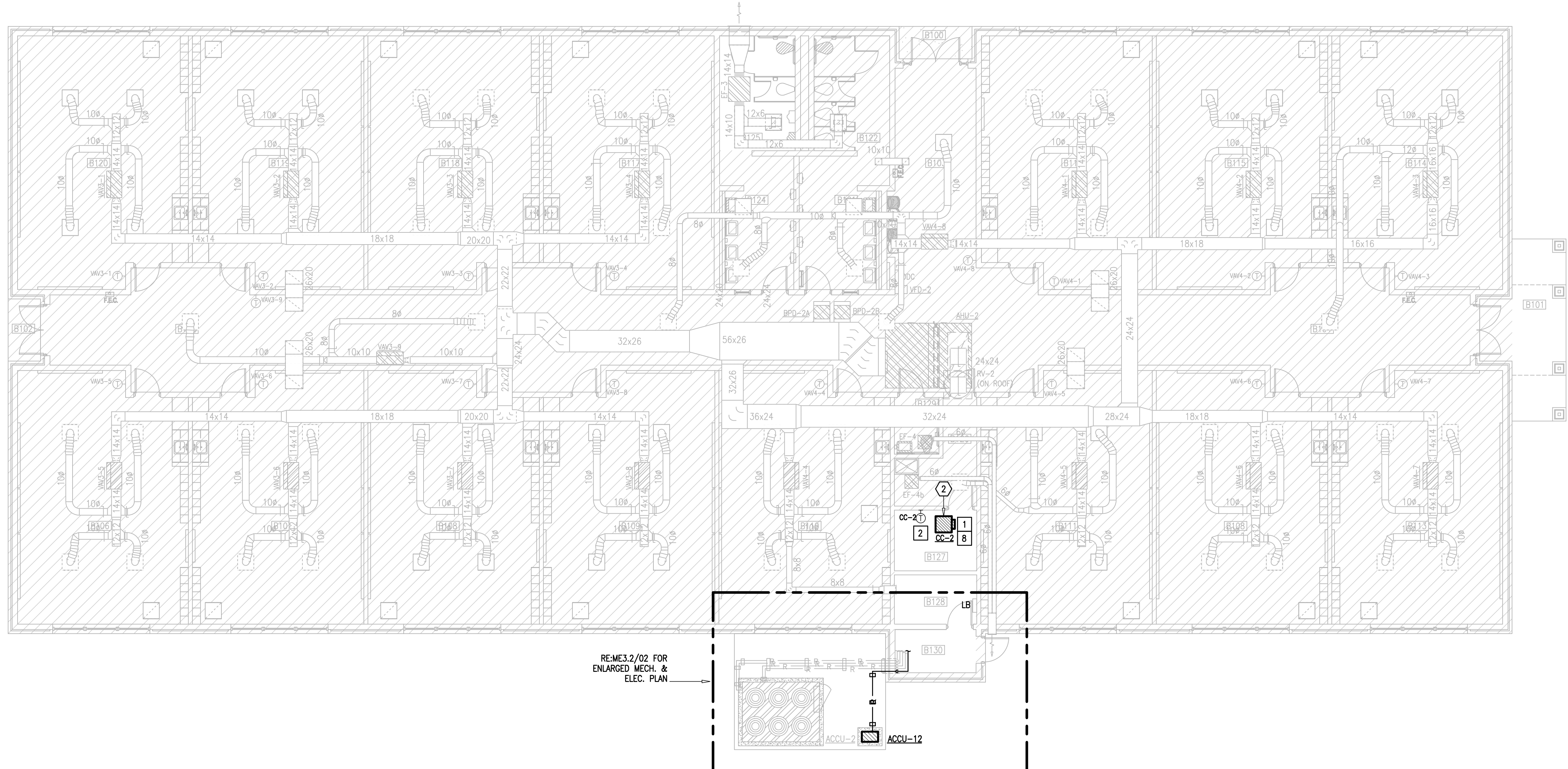


KEY PLAN

LEGEND	
	EXISTING SUPPLY DIFFUSER TO REMAIN
	EXISTING RETURN AIR GRILLE TO REMAIN
	EXISTING DUCTWORK TO REMAIN
	EXISTING EQUIPMENT TO REMAIN
	NEW EQUIPMENT TO BE INSTALLED
	NEW PIPING TO BE INSTALLED
	EXISTING PIPING TO REMAIN

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 5/30/2024 ETHOS
 COPY NO:
 CSP #25-LRMU-0424

 TEXAS



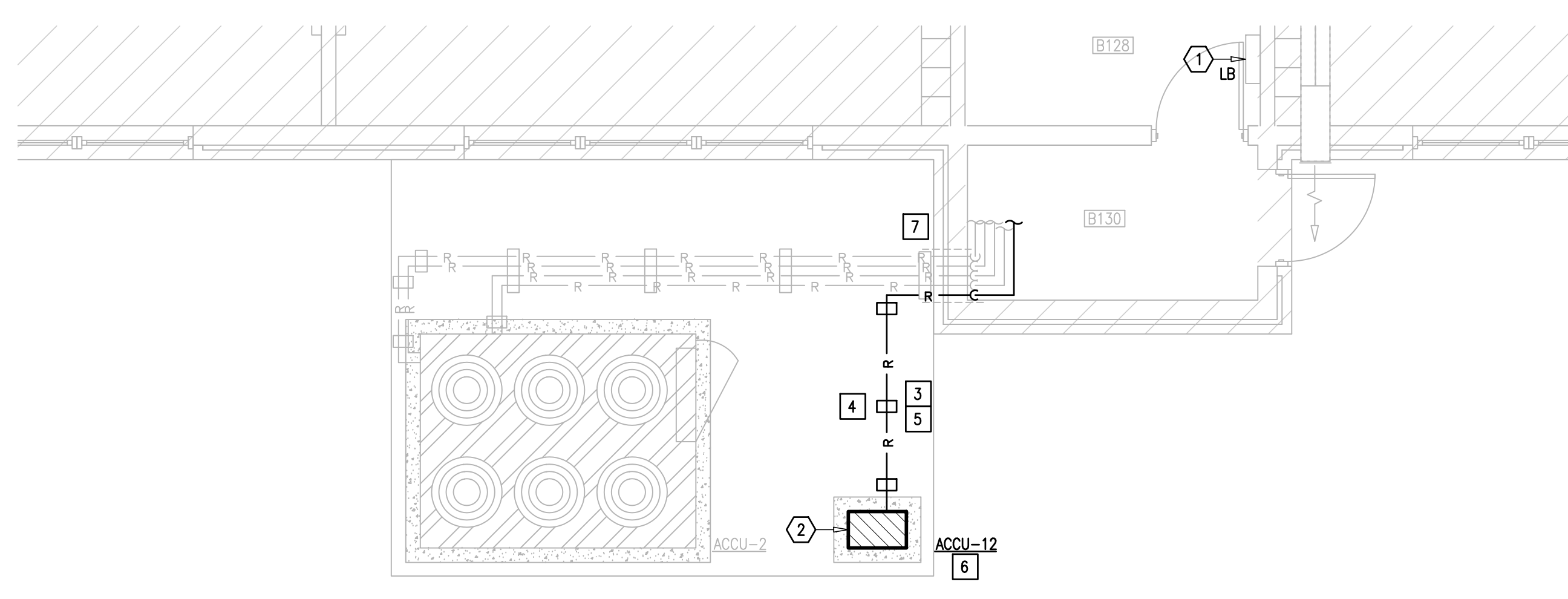
01 IDEA FRONTIER BUILDING B MECHANICAL & ELECTRICAL FLOOR PLAN
 SCALE : 1/8" = 1'-0"

MECHANICAL KEYED NOTES:

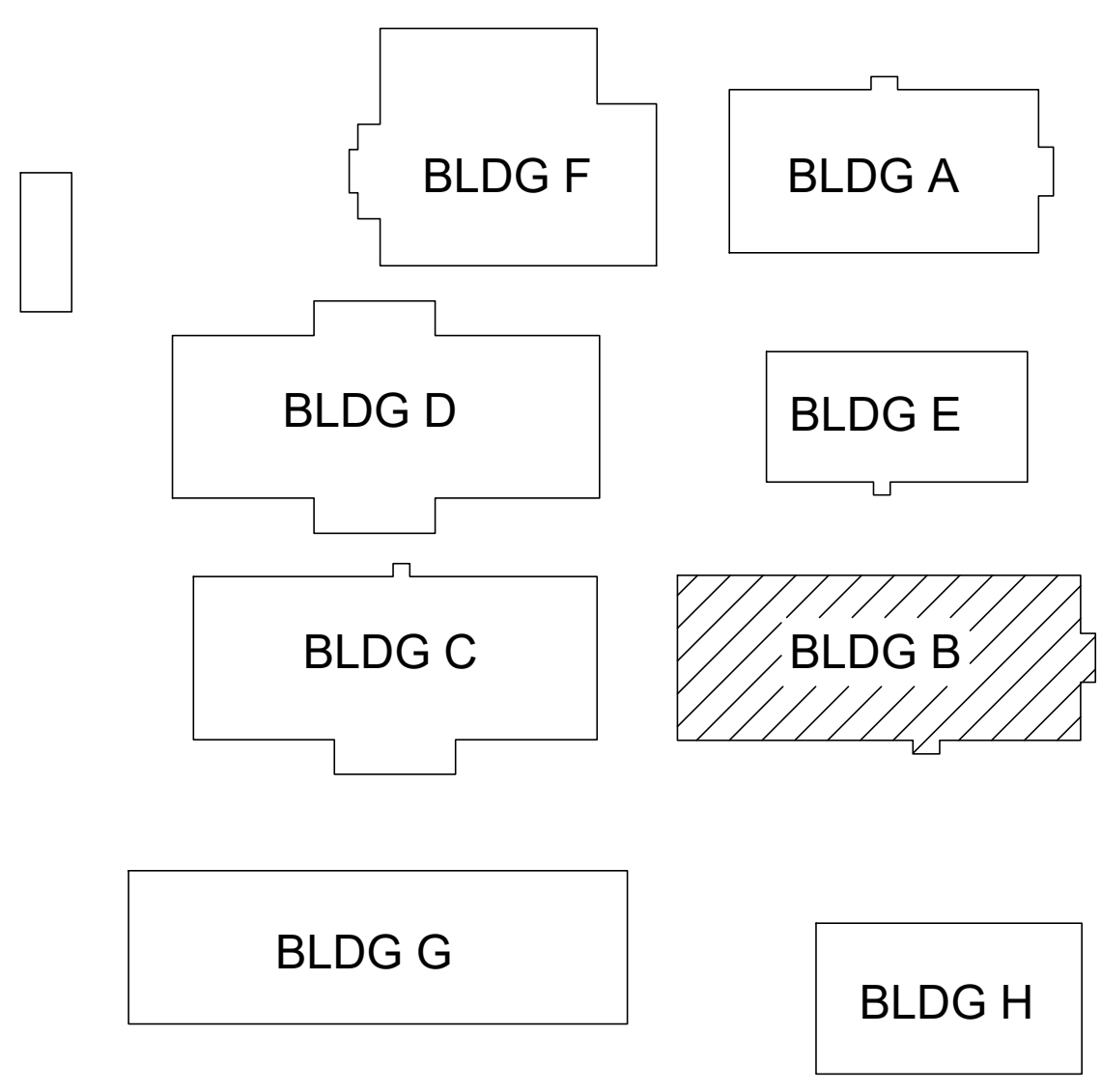
- 1 DEMOLISH EXISTING CASSETTE UNIT. REPLACE IT WITH NEW CASSETTE UNIT AT THIS APPROXIMATE LOCATION. REFER TO PROVIDED SCHEDULE AND SPECIFICATIONS FOR MORE INFORMATION.
- 2 DEMOLISH EXISTING THERMOSTAT. REPLACE IT WITH NEW THERMOSTAT AS SHOWN. MOUNT 48" ABOVE FINISHED FLOOR & COORDINATE WITH ARCHITECT AND OWNER TO MEET ADA REQUIREMENTS. PROVIDE CLEAR LOCKING COVER FOR ALL SENSORS.
- 3 DEMOLISH EXISTING REFRIGERANT PIPING. REPLACE IT WITH NEW REFRIGERANT PIPING AND ROUTE TO INDOOR UNIT. COORDINATE ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION. ROUTE INSIDE WALL TO AVOID EXPOSED PIPING WITHIN THE SPACE. (TYPICAL)
- 4 PROVIDE REFRIGERANT LINE SUPPORTS. SEE ASSOCIATED DETAIL. (TYPICAL)
- 5 PROVIDE NEW 1" INSULATION ON ALL REFRIGERANT LINES BOTH NEW AND EXISTING. PROVIDE ALUMINUM JACKET ON EXPOSED REFRIGERANT LINES. SEE SPECIFICATIONS. PROVIDE REFRIGERANT LINE SUPPORTS PER SPECIFICATIONS. SEE ASSOCIATED DETAIL.
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- 7 RETAIN EXISTING PENETRATION SLEEVES WHERE POSSIBLE. SEAL AROUND NEW PIPING WITH FIRE PROOF CAULKING. PROVIDE NEW ESCUTCHEON PLATES AND FLASHING AROUND PENETRATION BOTH INSIDE AND OUTSIDE TO PROVIDE FINISHED LOOK WHERE NECESSARY.
- 8 RETAIN EXISTING CONDENSATE DRAIN LINE. RECONNECT EXISTING CONDENSATE DRAIN LINE TO NEW CASSETTE UNIT. PROVIDE NEW PIPING CONNECTIONS FROM EXISTING LINES TO UNITS' CONNECTIONS.

ELECTRICAL KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING HVAC EQUIPMENT.
- 2 DISCONNECT EXISTING HVAC EQUIPMENT FOR REPLACEMENT. SEE EQUIPMENT CONNECTION SCHEDULE.



02 ENLARGED MECHANICAL & ELECTRICAL FLOOR PLAN
 SCALE : 1/4" = 1'-0"



KEYPLAN

IDEA PUBLIC SCHOOLS
LOWER RGV MECHANICAL UPGRADES

FRONTIER

 1128 SOUTH COMMERCE ST.
 MARLINGEN, TX
 PHONE: 956-206-2435
 TEXAS REGISTERED
 ENGINEERING FIRM
 E-15998
 DATE: MAY 24, 2024
 CHECKED BY: B.B.
 DRAWN BY: D.G.
 PROJECT NO.: 23V78
 CAD FILE:
 SHEET:
ME3.2

LEGEND

	EXISTING SUPPLY DIFFUSER TO REMAIN
	EXISTING RETURN AIR GRILLE TO REMAIN
	EXISTING DUCTWORK TO REMAIN
	EXISTING EQUIPMENT TO REMAIN
	NEW EQUIPMENT TO BE INSTALLED
	NEW PIPING TO BE INSTALLED
	EXISTING PIPING TO REMAIN

NO. REVISION: BY:
 5/30/2024 ETHOS

COPY NO:
 CSP #25-LRMU-0424



05.24.2024

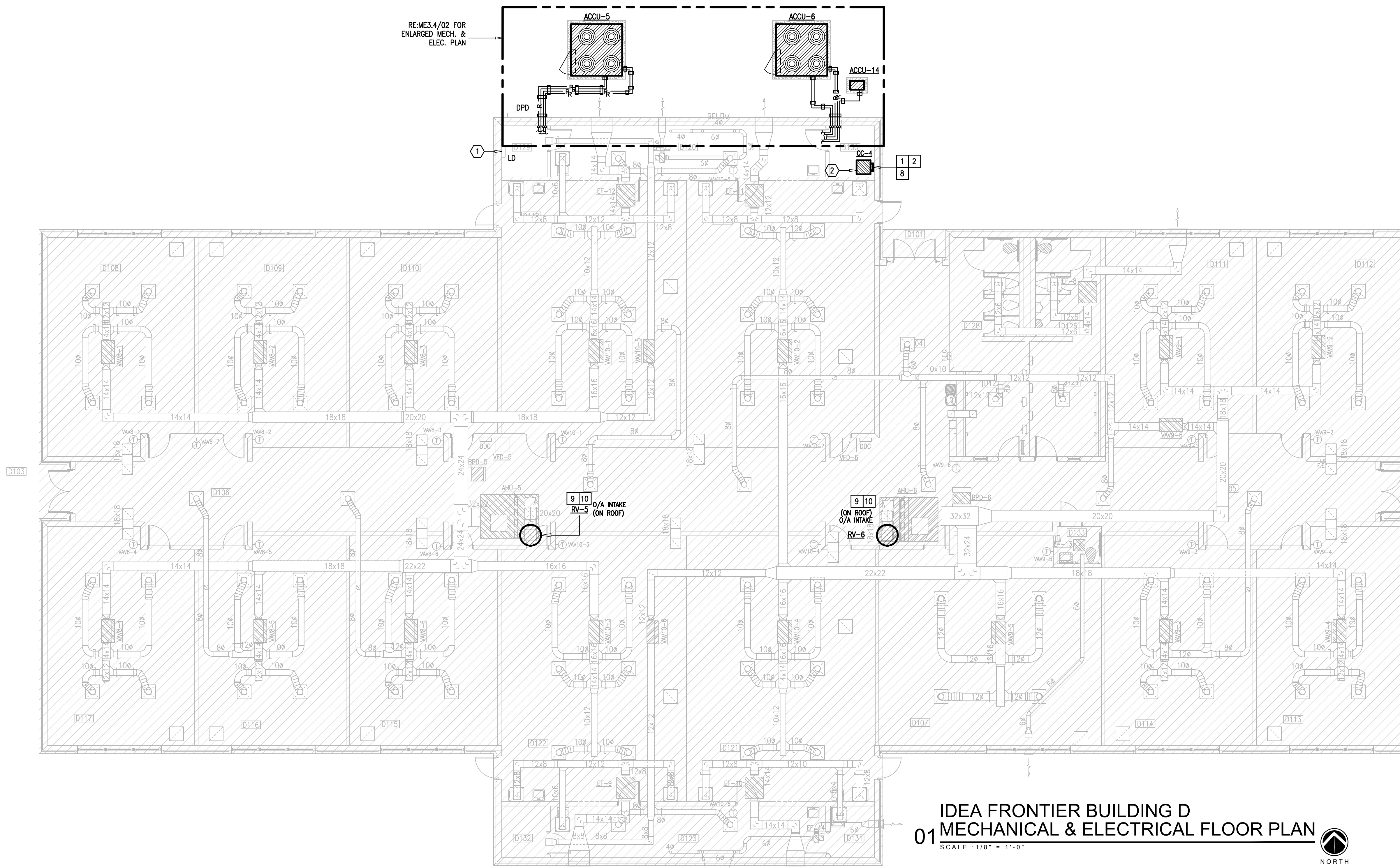
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MECHANICAL KEYED NOTES:

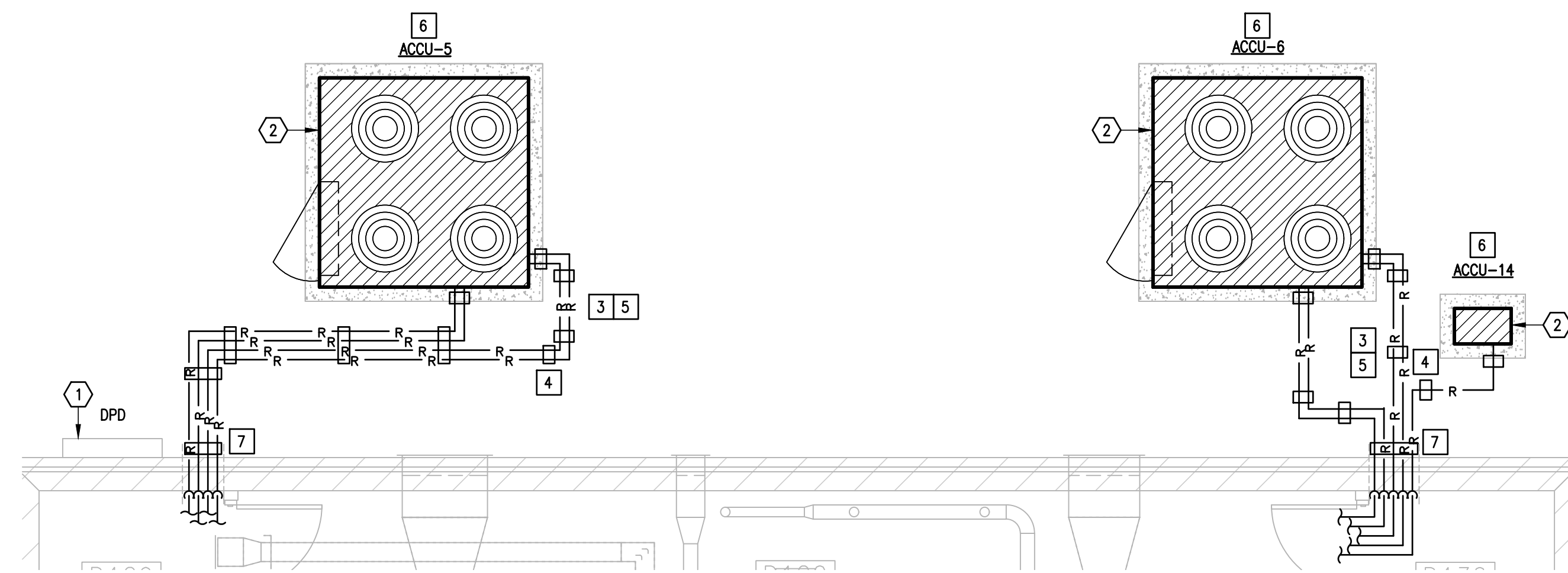
- DEMOLISH EXISTING CASSETTE UNIT. REPLACE IT WITH NEW CASSETTE UNIT AT THIS APPROXIMATE LOCATION. REFER TO PROVIDED SCHEDULE AND SPECIFICATIONS FOR MORE INFORMATION.
- DEMOLISH EXISTING THERMOSTAT. REPLACE IT WITH NEW THERMOSTAT AS SHOWN. MOUNT 48" ABOVE FINISHED FLOOR & COORDINATE WITH ARCHITECT AND OWNER TO MEET ADA REQUIREMENTS. PROVIDE CLEAR LOCKING COVER FOR ALL SENSORS.
- DEMOLISH EXISTING REFRIGERANT PIPING. REPLACE IT WITH NEW REFRIGERANT PIPING AND ROUTE TO INDOOR UNIT. COORDINATE ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION. ROUTE INSIDE WALL TO AVOID EXPOSED PIPING WITHIN THE SPACE. (TYPICAL)
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- RETAIN EXISTING CONDENSATE DRAIN LINE. RECONNECT EXISTING CONDENSATE DRAIN LINE TO NEW CASSETTE UNIT. PROVIDE NEW PIPING CONNECTIONS FROM EXISTING LINES TO UNITS' CONNECTIONS.
- DEMOLISH EXISTING OUTSIDE AIR ROOF VENT AND ASSOCIATED ROOF CURB INCLUDING THE STRUCTURAL FRAMED OPENING. PROVIDE NEW ROOF VENT WITH NEW ROOF CURB AND ROOF REINFORCEMENT AS SHOWN ON DETAILS. CONNECT EXISTING OUTSIDE AIR DUCT TO NEW ROOF VENT. PROVIDE NEW OA TRANSITION DUCTWORK AS REQUIRED AND INSULATE WITH 2" EXTERNAL-WRAP INSULATION. COORDINATE WORK WITH ROOFING CONTRACTOR.
- MECHANICAL PLANS WERE DEVELOPED BASED ON LIMITED FIELD OBSERVATIONS. CONTRACTOR SHALL CONTACT ETHOS ENGINEERING TO SCHEDULE A SITE VISIT DURING CONSTRUCTION AND PRIOR TO EQUIPMENT SUBMITTAL PHASE FOR FIELD VERIFICATION PURPOSES. ETHOS ENGINEERING MAY ISSUE REVISED CONSTRUCTION DRAWINGS BASED ON SUCH FIELD VERIFICATION. CONTRACTOR SHALL PROVIDE ALL THE NECESSARY EQUIPMENT AND TOOLS FOR ACCESSING THE ROOF SUCH AS MAN SCISSORS LIFT, STEP-LADDER, EXTENSION-LADDER, ETC. TO REACH AN APPROXIMATION HEIGHT OF 15'. DO NOT ORDER ROOF VENTS UNTIL ETHOS ENGINEERING HAS ISSUED A CONFIRMED DIRECTIVE.

ELECTRICAL KEYED NOTES:

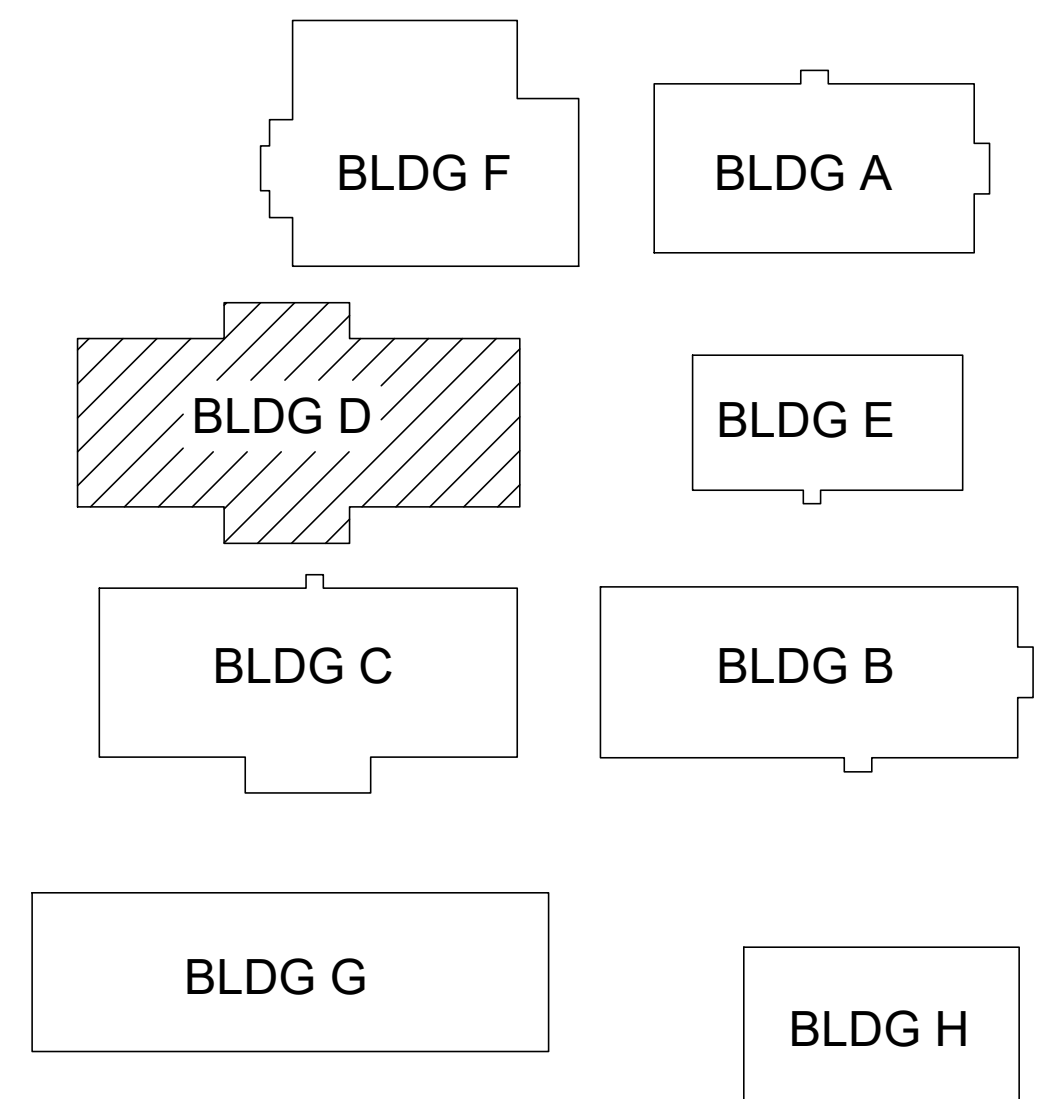
- APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING HVAC EQUIPMENT.
- DISCONNECT EXISTING HVAC EQUIPMENT FOR REPLACEMENT. SEE EQUIPMENT CONNECTION SCHEDULE.



01 IDEA FRONTIER BUILDING D
 MECHANICAL & ELECTRICAL FLOOR PLAN
 SCALE : 1/8" = 1'-0"



02 ENLARGED MECHANICAL & ELECTRICAL FLOOR PLAN
 SCALE : 1/4" = 1'-0"



KEYPLAN

IDEA PUBLIC SCHOOLS
 LOWER RGV MECHANICAL UPGRADES

FRONTIER

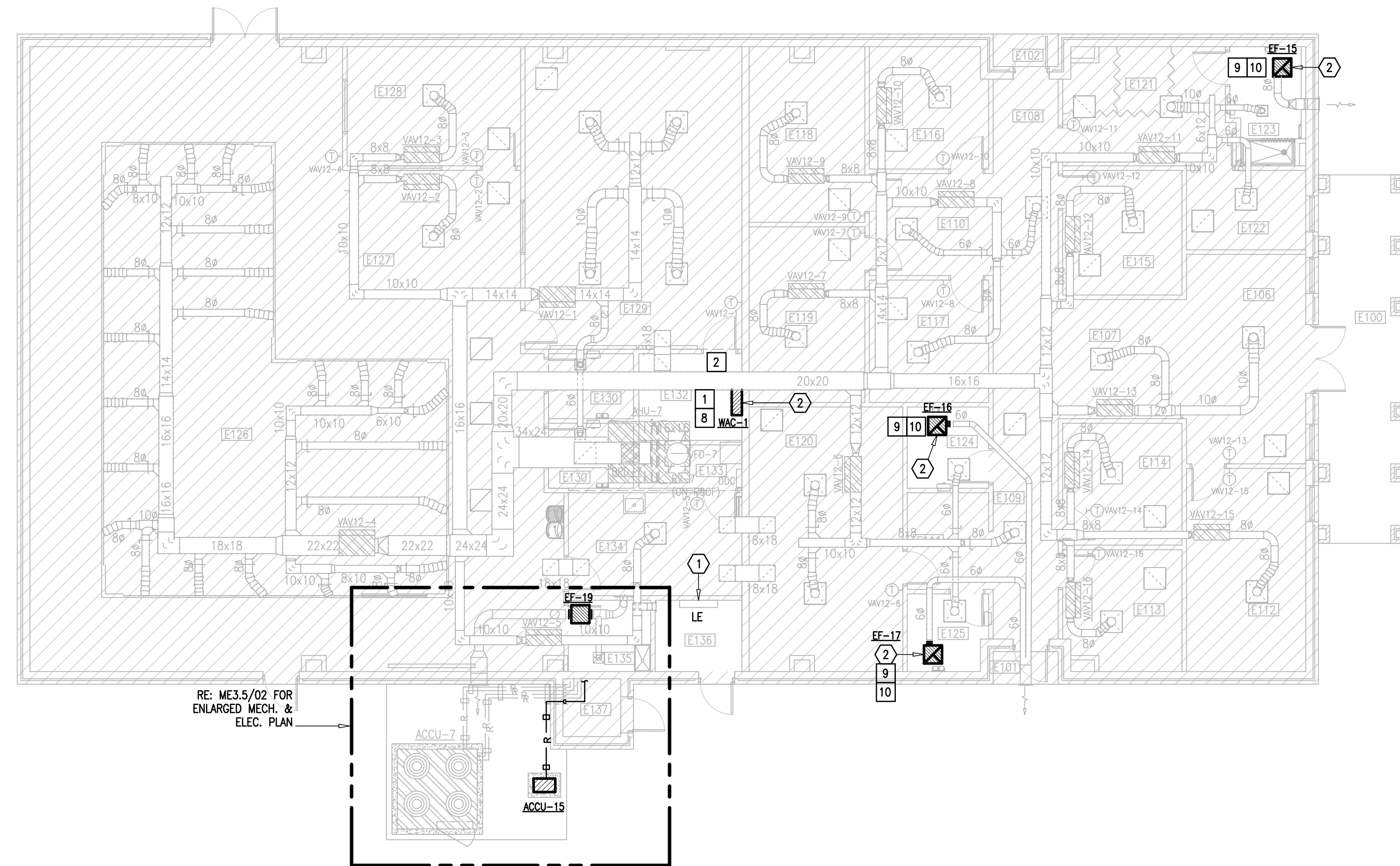


DATE: MAY 24, 2024
 CHECKED BY: B.B.
 DRAWN BY: D.G.
 PROJECT NO.: 23V76
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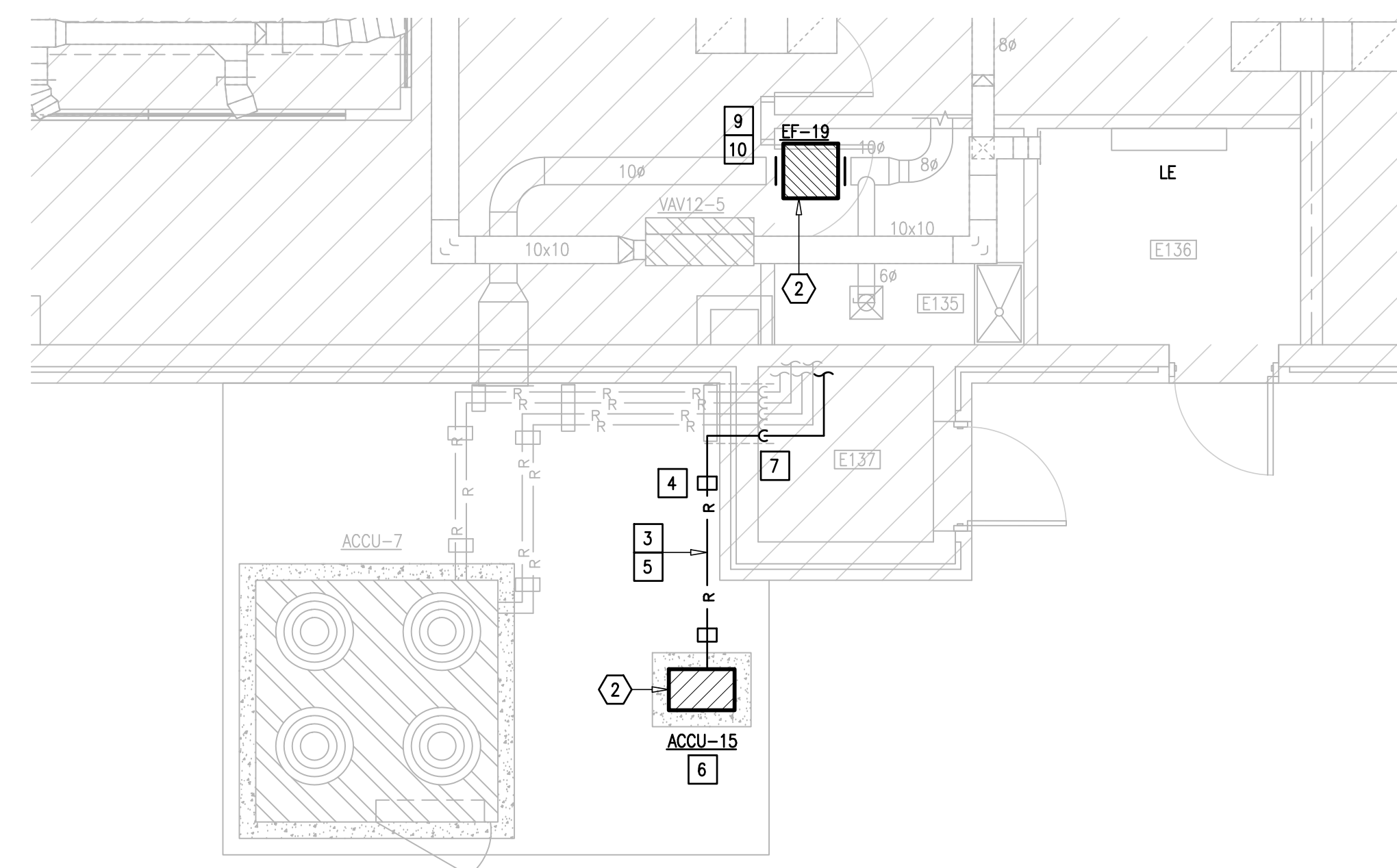
ME3.4

LEGEND

	EXISTING SUPPLY DIFFUSER TO BE REMAIN
	EXISTING RETURN AIR GRILLE TO REMAIN
	EXISTING DUCTWORK TO REMAIN
	NEW DUCTWORK TO BE INSTALLED
	EXISTING EQUIPMENT TO REMAIN
	NEW EQUIPMENT TO BE INSTALLED
	NEW PIPING TO BE INSTALLED
	EXISTING PIPING TO REMAIN



01 IDEA FRONTIER BUILDING E
MECHANICAL & ELECTRICAL FLOOR PLAN
SCALE : 1/8" = 1'-0"



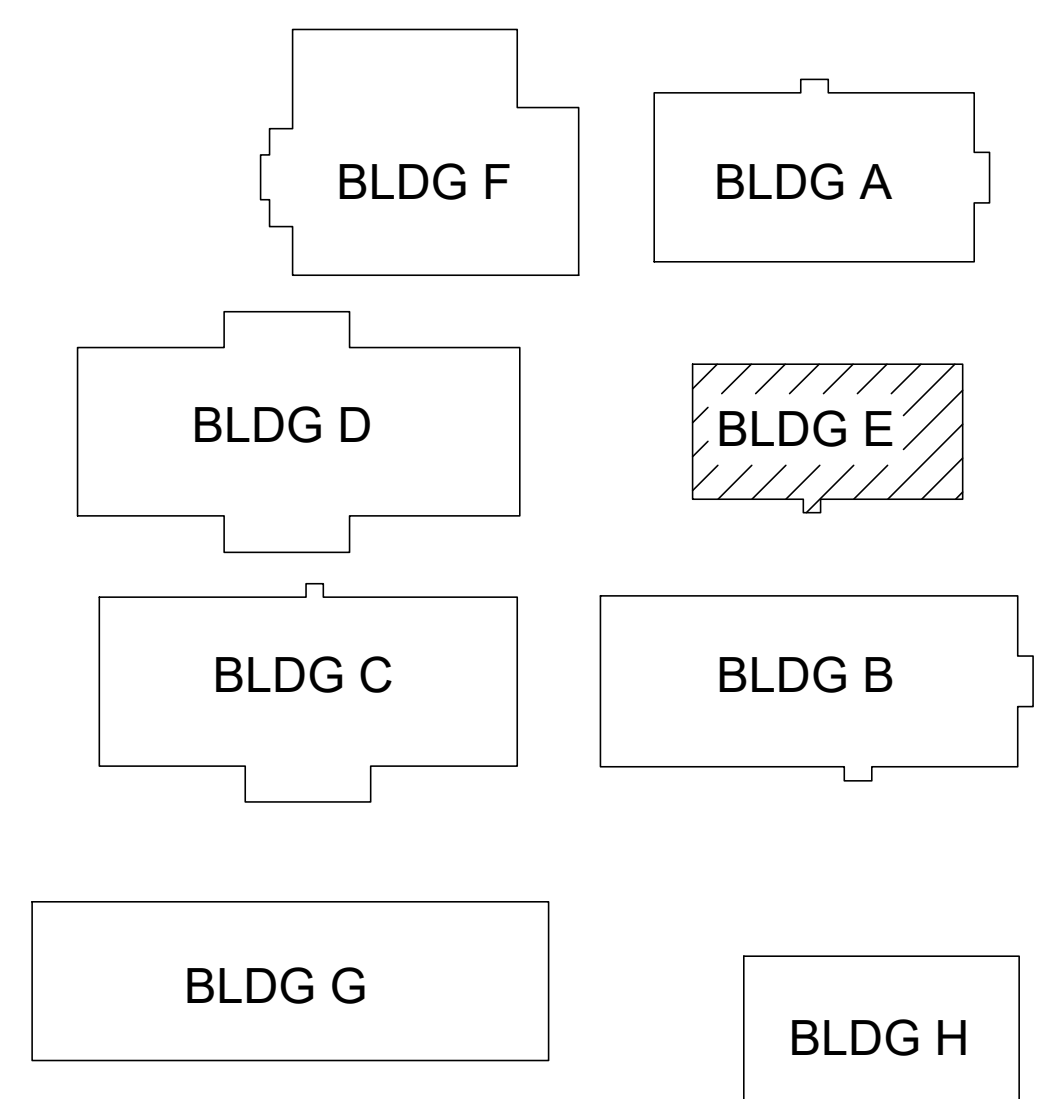
02 ENLARGED MECHANICAL & ELECTRICAL FLOOR PLAN
SCALE : 1/4" = 1'-0"

MECHANICAL KEYED NOTES:

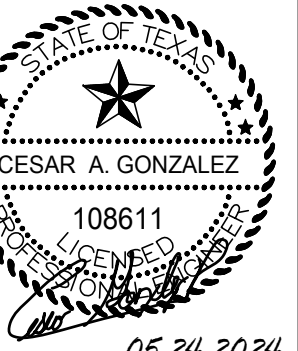
- 1 DEMOLISH EXISTING WAC UNIT. REPLACE IT WITH NEW WAC UNIT AT THIS APPROXIMATE LOCATION. REFER TO PROVIDED SCHEDULE AND SPECIFICATIONS FOR MORE INFORMATION.
- 2 DEMOLISH EXISTING THERMOSTAT. REPLACE IT WITH NEW THERMOSTAT AS SHOWN. MOUNT 48" ABOVE FINISHED FLOOR & COORDINATE WITH ARCHITECT AND OWNER TO MEET ADA REQUIREMENTS. PROVIDE CLEAR LOCKING COVER FOR ALL SENSORS.
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- 4 PROVIDE REFRIGERANT LINE SUPPORTS. SEE ASSOCIATED DETAIL. (TYPICAL)
- 5 PROVIDE NEW 1" INSULATION ON ALL REFRIGERANT LINES BOTH NEW AND EXISTING. PROVIDE ALUMINUM JACKET ON EXPOSED REFRIGERANT LINES. SEE SPECIFICATIONS. PROVIDE REFRIGERANT LINE SUPPORTS PER SPECIFICATIONS. SEE ASSOCIATED DETAIL.
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- 8 RETAIN EXISTING CONDENSATE DRAIN LINE. RECONNECT EXISTING CONDENSATE DRAIN LINE TO NEW CASSETTE UNIT. PROVIDE NEW PIPING CONNECTIONS FROM EXISTING LINES TO UNITS' CONNECTIONS.
- 9 DEMOLISH EXISTING EXHAUST FAN. REPLACE IT WITH NEW EXHAUST FAN AT THIS APPROXIMATE LOCATION. PROVIDE NEW DUCTWORK TRANSITION WHERE NECESSARY. REFER TO PROVIDED SCHEDULE AND TAB SPECIFICATIONS FOR MORE INFORMATION.
- 10 TEMPORARILY REMOVE THE CEILING AROUND THE AREA OF WHERE EXISTING EXHAUST FAN IS TO BE REPLACED. RESTORE THE CEILING BACK TO ITS ORIGINAL CONDITION AFTER REPLACEMENT OF EXHAUST FAN.

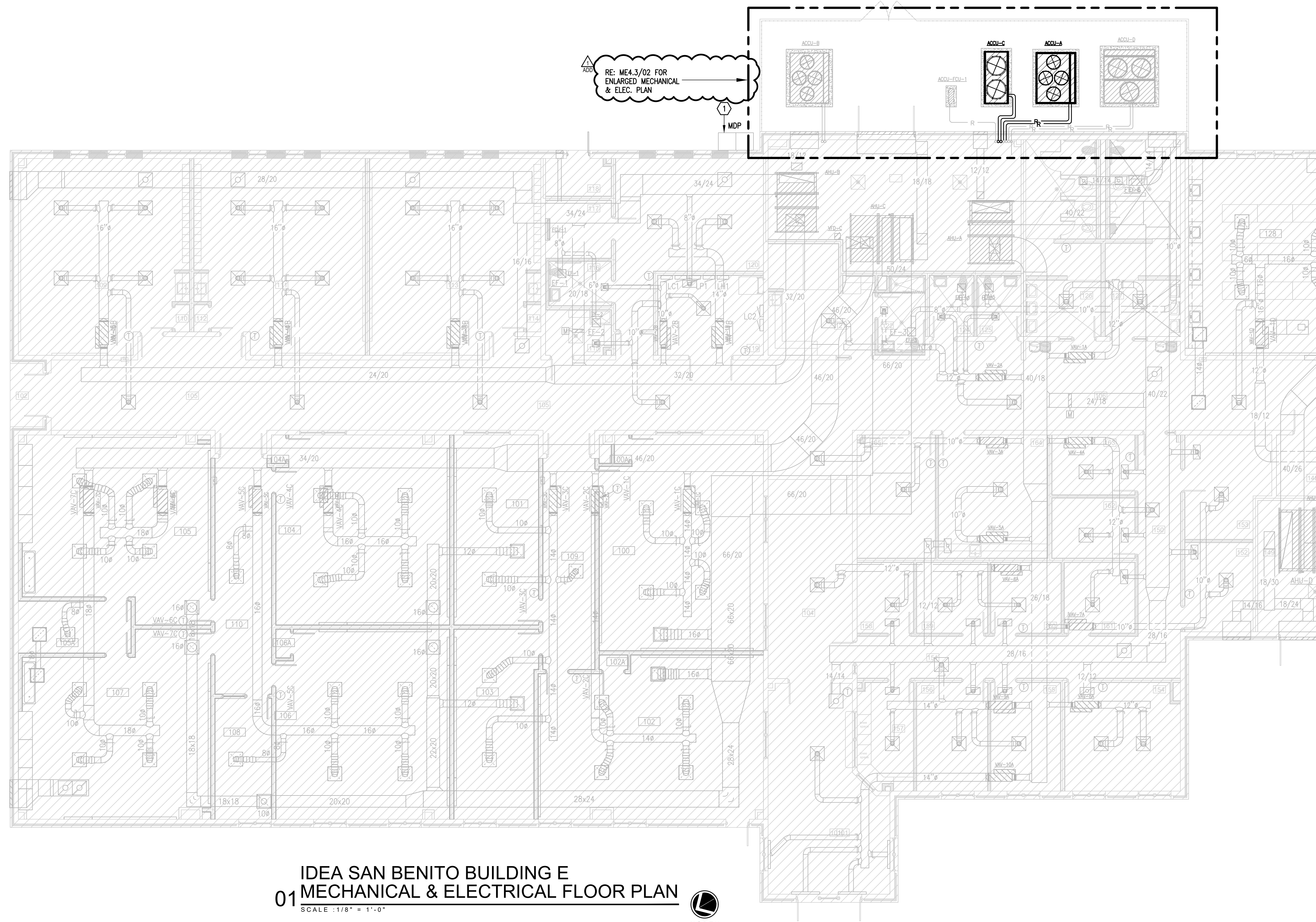
ELECTRICAL KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING HVAC EQUIPMENT.
- 2 DISCONNECT EXISTING HVAC EQUIPMENT FOR REPLACEMENT. SEE EQUIPMENT CONNECTION SCHEDULE.

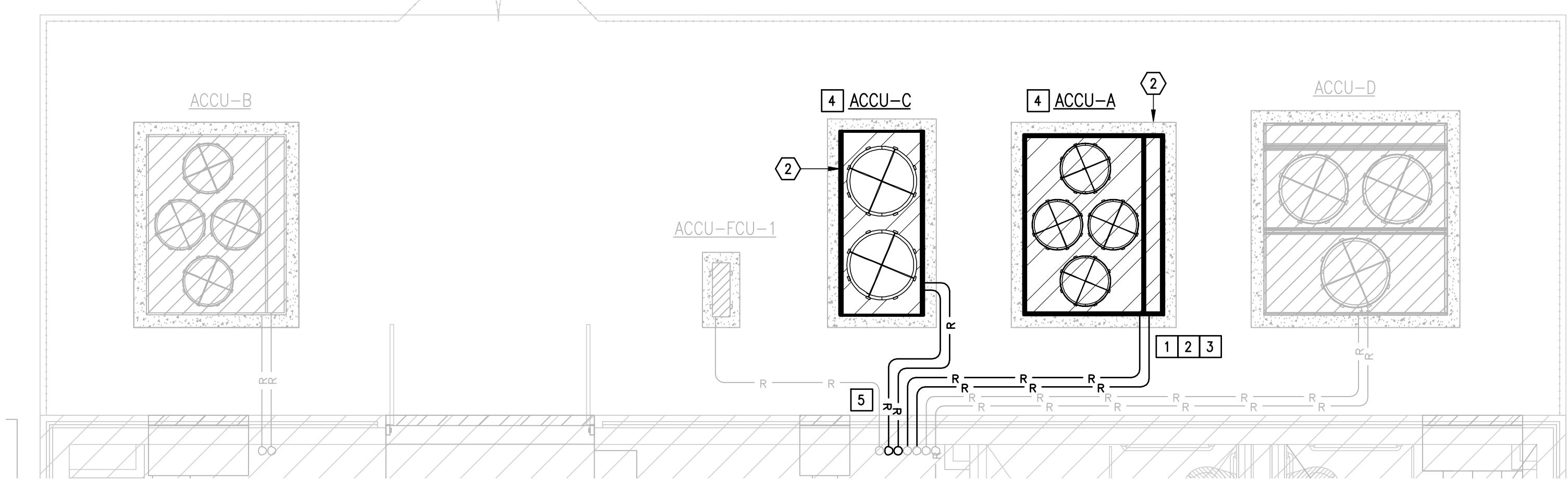


KEYPLAN





01 IDEA SAN BENITO BUILDING E
MECHANICAL & ELECTRICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"
NORTH



02 ENLARGED MECHANICAL & ELECTRICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"
NORTH

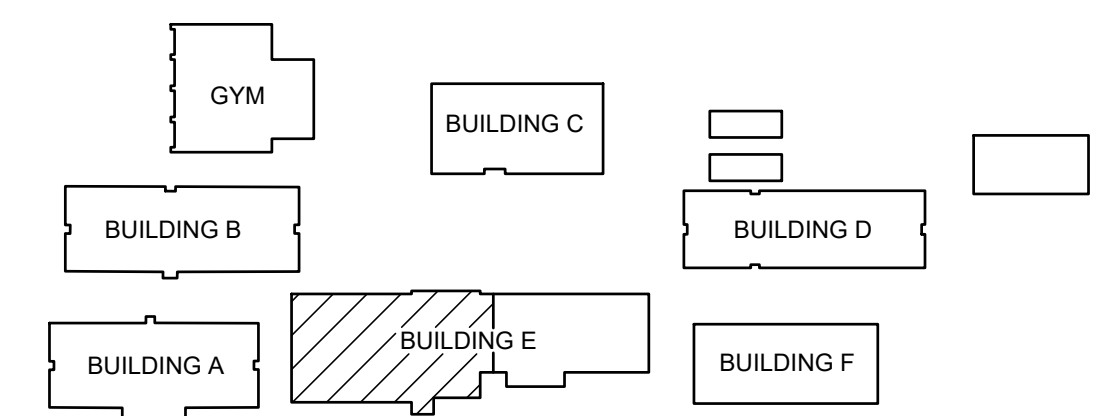
LEGEND	
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ELECTRICAL KEYED NOTES:

- 1 APPROXIMATE LOCATION OF EXISTING PANELBOARD SERVING HVAC EQUIPMENT.
- 2 DISCONNECT EXISTING HVAC EQUIPMENT FOR REPLACEMENT. SEE EQUIPMENT CONNECTION SCHEDULE.



IDEA PUBLIC SCHOOLS
LOWER RGV MECHANICAL UPGRADES

IDEA BROWNSVILLE BUILDING A - EXISTING ACCU SCHEDULE (BASE BID)

MARK	SERVING	EXISTING MANUFACTURER	EXISTING MODEL NUMBER	EXISTING SERIAL NUMBER	TOTAL BTUH	COND DB	ELECTRICAL V-PH-HZ	EER AT ARI	STEPS OF CAPACITY	EXISTING MCA	EXISTING MOCP	EXISTING WEIGHT (LBS.)	NOTES
ACCU-3	AHU-3	CARRIER	38APD02765A28024	1012Q4490	299,992	100	480-3-60	11	22	47.7	60	1130	ALL

- NOTES:
- ALL MODEL NUMBERS HAVE BEEN FIELD VERIFIED AT THE TIME THESE CONSTRUCTION DOCUMENTS WERE COMPILED. ANY CHANGES MADE IN THE FIELD AFTER RELEASE OF THESE DOCUMENTS AND PRIOR TO CONSTRUCTION NEED TO BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO PERFORMING ANY WORK FOR ASSOCIATED CHANGE.
 - INFORMATION SHOWN ON THE SCHEDULE IS FOR REFERENCE PURPOSES AND TO ASSIST THE SERVICE TECHNICIAN THAT WILL BE REPLACING THE ACCU CONTROL PANEL. COORDINATE WITH CARRIER CERTIFIED TECHNICIAN.

IDEA BROWNSVILLE BUILDING B - ACCU SCHEDULE (BASE BID)

MARK	SERVING	EXISTING MANUFACTURER	EXISTING MODEL NUMBER	EXISTING SERIAL NUMBER	TOTAL BTUH	COND DB	ELECTRICAL V-PH-HZ	EER / IEER AT ARI	STEPS OF CAPACITY	MCA	MOCP	WEIGHT (LBS.)	NOTES	MANUFACTURER	MODEL NUMBER
ACCU-10	AHU-10	CARRIER	38APD0706JA18030	0513Q78477	781,700	95	480-3-60	11 / 15.9	55	129.5	150	2751	ALL	CARRIER	38APD07063-30080

- NOTES:
- MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL". SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS AND SUBSTITUTION PROCEDURES.
 - EER SHALL EXCEED IECC MINIMUM EFFICIENCY AT DESIGN CONDITIONS.
 - PROVIDE CONDENSER COIL HAIL GUARDS, E-COATED COILS, AND LOW AMBIENT CONTROL.
 - PROVIDE BACNET INTERFACE.
 - SAFETY DISCONNECT TO BE PROVIDED BY DIV. 26.
 - INSULATE REFRIGERANT LINES AS PER SPECIFICATIONS. PROVIDE UV RESISTANT PAINTED JACKETING AROUND INSULATION FOR ALL EXTERIOR EXPOSED LINES.
 - PROVIDE FACTORY INSTALLED HOT GAS BYPASS. PROVIDE ALL NEW REFRIGERANT SPECIALTIES, EXPANSION VALVES, ETC.
 - PROVIDE EVAPORATOR DEFROST CONTROLLER FOR MINIMUM CIRCUIT.

IDEA BROWNSVILLE BUILDING C - ELECTRIC DUCT HEATER SCHEDULE (BASE BID)

MARK	HEATER TYPE	EXISTING MANUF/ MODEL	DUCT SIZE (IN)	UNIT SERVING	UNIT TOTAL CFM	UNIT HEATING CFM	ELECTRIC HEAT INPUT (KW)	ELECTRIC HEAT STEPS	ELECTRICAL V-PH-HZ	NOTES	MANUFACTURER	MODEL NUMBER
EDH-9	DUCT MOUNTED	REDD-1/3HF95	28 X 24	AHU-9 (KITCHEN)	6,100	3,050	25	SCR	480-3-60	ALL	WARREN	CBK
EDH-10	DUCT MOUNTED	REDD-1/3HF95	38 X 38	AHU-10 (GYM/CAFÉ)	16,500	8,250	95	SCR	480-3-60	ALL	WARREN	CBK

- NOTES:
- MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL".
 - PROVIDE AIR PRESSURE SWITCH, MAGNETIC CONTACTORS, HI LIMIT CONTROL, PRIMARY AND SECONDARY OVER CURRENT PROTECTION (FUSES), DOOR INTERLOCKED DISCONNECT SWITCH.
 - DIV. 26 TO PROVIDE SAFETY DISCONNECT (SEPARATED FROM AHU FAN).
 - MINIMUM CFM SHALL BE 30% OF TOTAL FLOW.
 - HEATER SIZED FOR 50% OF TOTAL FLOW.

IDEA BROWNSVILLE PAVILLION - EXHAUST FAN SCHEDULE (BASE BID)

MARK	SERVING	TYPE	ELECTRICAL V-PH-HZ	DRIVE	CFM	INPUT WATTS	MOTOR HP	RPM	E.S.P. IN. H2O	SOUND IN SONES	WEIGHT (LBS)	CONTROL NOTES	NOTES	MANUFACTURER	MODEL NUMBER
EF-1	PAVILLION	WALL MOUNTED	208-3-60	DIRECT	14,529	-	2	1140	0.2	37.0	714.0	A	ALL	COOK	EWD
EF-2	PAVILLION	WALL MOUNTED	208-3-60	DIRECT	14,529	-	2	1140	0.2	37.0	714.0	A	ALL	COOK	EWD

- NOTES:
- PROVIDE FACTORY MOUNTED DISCONNECT.
 - MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL." REFER TO SPECIFICATIONS.
 - PROVIDE OSHA MOTOR AND BELT GUARD.
 - PROVIDE INSULATED HOUSING FOR SOUND ATTENUATION.
 - PROVIDE SPRING TYPE VIBRATION ISOLATORS FOR SUSPENDED IN-LINE TYPE FANS.

CONTROL NOTES:
A. CONTROL SYSTEM TO REMAIN AS EXISTING. RECREATE EXISTING CONTROL POINTS AND SCHEDULING WITH NEW EQUIPMENT.

IDEA FRONTIER - ROOF VENT SCHEDULE (BASE BID)

MARK	SERVING	OUTSIDE AIR (CFM)	SQ. ROOF OPENING W X D (IN.)	THROAT AREA (SQ. FT.)	CFM @ 500 FPM	WEIGHT (LBS.)	MANUFACTURER & MODEL NUMBER	NOTES
RV-1	AHU-1	3550	36 X 36	3.341	3960	105	COOK 24 PR	ALL
RV-5	AHU-5	2875	32 X 32	2.292	2655	80	COOK 20 PR	ALL
RV-6	AHU-6	2800	32 X 32	2.292	2655	80	COOK 20 PR	ALL

- NOTES:
- DESCRIPTION: SPUN ALUMINUM GRAVITY INTAKE ROOF MOUNTED VENTILATOR.
 - PROVIDE INTAKE WITH BIRDSCREEN AND INSECT SCREEN.
 - PROVIDE IBC COMPLIANT CURB AND ATTACHEMENTS FROM ROOF VENT TO CURB AND CURB TO STRUCTURE. BOTTOM OF THE ROOF CURB SHALL BE SLOPED TO FOLLOW THE EXISTING ROOF SLOPE (2:12, FIELD VERIFY). EQUIPMENT OR CURB MANUFACTURER IS RESPONSIBLE FOR PROVIDING ENGINEERED DETAIL ANALYSIS OF:
 - ATTACHEMENT OF EQUIPMENT CURB.
 - CURB TO STRUCTURE.
 - CURB AND ATTACHEMENT HARDWARE STRENGTH.
 REFER TO DRAWINGS FOR ROOF SUBSTRATE DETAILS. EQUIPMENT OR CURB MANUFACTURER IS RESPONSIBLE FOR PROVIDING ENGINEERED INSTALLATION DRAWINGS FOR ITEMS 1 AND 2 LISTED ABOVE. BOTH, THE ENGINEERED ANALYSIS AND THE ENGINEERED INSTALLATION DRAWINGS SHALL BE PERFORMED SPECIFICALLY FOR THIS BUILDING AND PROJECT SITE AND STAMPED AND SEALED BY A TEXAS LICENSED ENGINEER.

EQUIPMENT CONNECTION SCHEDULE:

DESIGN	HP/KW	EXISTING MOCP	NEW MCA	NEW MOCP	VOLTAGE	EXISTING MEANS OF DISCONNECT	NEW MEANS OF DISCONNECT	EXISTING BRANCH CIRCUIT (75' COPPER)	NEW BRANCH CIRCUIT (75' COPPER)	EXISTING POWER SOURCE
IDEA BROWNSVILLE BUILDING B (BASE BID)										
ACCU-10	-	150	129.5	1) 150	480V/3PHASE	CIRCUIT BREAKER WITHIN SIGHT.	RETAIN EXISTING.	1.5" - 3#1/0 & #6G	RETAIN EXISTING.	DPB
IDEA BROWNSVILLE BUILDING C (BASE BID)										
EDH-9	25 KW	50	37.6	1) 50	480V/3PHASE	60A, 3PNF, 600V, NEMA 1	RETAIN EXISTING.	3/4" - 3#8 & #10G	RETAIN EXISTING.	MK
EDH-10	95 KW	150	142.8	1) 150	480V/3PHASE	200A, 3PNF, 600V, NEMA 1	RETAIN EXISTING.	1.5" - 3#1/0 & #6G	RETAIN EXISTING.	DPB
IDEA BROWNSVILLE PAVILLION (BASE BID)										
EF-1	2 HP	20	9.3	2) 20	208V/3PHASE	TOGGLE SWITCH.	3) THERMAL SWITCH.	REMOVE	1/2" - 3#12 & #12G	L1
EF-2	2 HP	20	9.3	2) 20	208V/3PHASE	TOGGLE SWITCH.	3) THERMAL SWITCH.	REMOVE	1/2" - 3#12 & #12G	L1

- NOTES:
- RETAIN AND REUSE EXISTING CIRCUIT BREAKER.
 - PROVIDE A NEW UL LISTED UNIT FROM EXISTING PANELBOARD MANUFACTURER (EATON CUTLER HAMMER).
 - PROVIDE 30A, 240V, 3P, HUBBELL MODEL NO. HBL1379D.
- GENERAL NOTES:
- PROVIDE A NEMA 3R J-BOX TO SPLICE AND EXTEND EXISTING BRANCH CIRCUIT TO NEW POINT OF CONNECTION IF EXISTING DOES NOT REACH.



IDEA FRONTIER BUILDING A - EXHAUST FAN SCHEDULE (BASE BID)

MARK	SERVING	TYPE	ELECTRICAL V-PH-HZ	DRIVE	CFM	INPUT WATTS	MOTOR HP	RPM	E.S.P. IN. H2O	SOUND IN SONES	WEIGHT (LBS)	CONTROL NOTES	NOTES	MANUFACTURER	MODEL NUMBER
EF-1	HALLWAY RESTROOMS	SUSPENDED IN-LINE	120-1-60	DIRECT	675	-	1/2	919	0.34	3.7	55.0	A	ALL	GREENHECK	SQ-120-VG
EF-2	STAFF RESTROOM	CEILING MOUNTED	120-1-60	DIRECT	75	-	1/15	1572	0.32	4.6	47.0	A	ALL	GREENHECK	SP-B110-ES

NOTES:

1. PROVIDE FACTORY MOUNTED DISCONNECT.
2. MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL." REFER TO SPECIFICATIONS.
3. PROVIDE OSHA MOTOR AND BELT GUARD.
4. PROVIDE AUTOMATIC BELT TENSIONER.
5. PROVIDE INSULATED HOUSING FOR SOUND ATTENUATION.
6. PROVIDE SPRING TYPE VIBRATION ISOLATORS FOR SUSPENDED IN-LINE TYPE FANS.

CONTROL NOTES:

- A. CONNECT TO EXISTING CONTROL SYSTEM. RECREATE EXISTING CONTROL POINTS AND SCHEDULING WITH NEW EQUIPMENT.

IDEA FRONTIER BUILDING A - MINI-SPLIT CONDENSER SCHEDULE (BASE BID)

MARK	SERVING	EXISTING MANUFACTURER	EXISTING MODEL NUMBER	TOTAL COOLING (BTU/H)	COND DB	ELECTRICAL V-PH-HZ	SEER2	COMPR TYPE	MCA	MOCP	WEIGHT (LBS)	NOTES	MANUFACTURER	MODEL NUMBER
ACCU-11	CC-1	EMI AMERICA SERIES	S1CA2	12,000	95	208-1-60	19.5	INVERTER DRIVEN TWN ROTARY	7.8	15	64	ALL	DAIKIN	RX12WMVJU

NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT.
2. PROVIDE CONDENSER COIL CORROSION PROTECTION.
3. INSTALL UNIT ON EXISTING CONCRETE PAD. EXTEND CONCRETE PAD AS NECESSARY TO ACCOMMODATE FOR NEW EQUIPMENT.
4. PROVIDE INSULATION FOR BOTH LIQUID AND SUCTION LINES.
5. INSTALL PER MANUFACTURERS INSTRUCTIONS AND PIPING RECOMMENDATIONS.
6. 1 YEAR PARTS WARRANTY AND 10 YEAR COMPRESSOR PARTS LIMITED WARRANTY.

IDEA FRONTIER BUILDING A - MINI-SPLIT CASSETTE UNIT SCHEDULE (BASE BID)

MARK	SERVED BY	EXISTING MANUFACTURER	EXISTING MODEL NUMBER	LOCATION	MIN CFM	MAX CFM	ELECTRICAL V-PH-HZ	COOLING		WEIGHT (LBS)	NOTES	MANUFACTURER	MODEL NUMBER
								TOTAL (BTU/H)	EAT DBWB				
CC-1	ACCU-11	EMI AMERICA SERIES	CACA12	A123	268	406	208-1-60	12,000	80/67	45	ALL	DAIKIN	FFQ12W2VJU

NOTES:

1. MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL." SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS AND SUBSTITUTION PROCEDURES.
2. PROVIDE INVERTER DRIVEN COMPRESSOR FOR IMPROVED HUMIDITY CONTROL.
3. PROVIDE WALL MOUNTED AND WIRED 7-DAY PROGRAMMABLE T-STAT IN LIEU OF WIRELESS REMOTE.
4. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT.

IDEA FRONTIER BUILDING B - MINI-SPLIT CONDENSER SCHEDULE (BASE BID)

MARK	SERVING	EXISTING MANUFACTURER	EXISTING MODEL NUMBER	TOTAL COOLING (BTU/H)	COND DB	ELECTRICAL V-PH-HZ	SEER2	COMPR TYPE	MCA	MOCP	WEIGHT (LBS)	NOTES	MANUFACTURER	MODEL NUMBER
ACCU-12	CC-2	EMI AMERICA SERIES	S1CA2	12,000	95	208-1-60	19.5	INVERTER DRIVEN TWN ROTARY	7.8	15	64	ALL	DAIKIN	RX12WMVJU

NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT.
2. PROVIDE CONDENSER COIL CORROSION PROTECTION.
3. INSTALL UNIT ON EXISTING CONCRETE PAD. EXTEND CONCRETE PAD AS NECESSARY TO ACCOMMODATE FOR NEW EQUIPMENT.
4. PROVIDE INSULATION FOR BOTH LIQUID AND SUCTION LINES.
5. INSTALL PER MANUFACTURERS INSTRUCTIONS AND PIPING RECOMMENDATIONS.
6. 1 YEAR PARTS WARRANTY AND 10 YEAR COMPRESSOR PARTS LIMITED WARRANTY.

IDEA FRONTIER BUILDING B - MINI-SPLIT CASSETTE UNIT SCHEDULE (BASE BID)

MARK	SERVED BY	EXISTING MANUFACTURER	EXISTING MODEL NUMBER	LOCATION	MIN CFM	MAX CFM	ELECTRICAL V-PH-HZ	COOLING		WEIGHT (LBS)	NOTES	MANUFACTURER	MODEL NUMBER
								TOTAL (BTU/H)	EAT DBWB				
CC-2	ACCU-12	EMI AMERICA SERIES	CACA12	A123	268	406	208-1-60	12,000	80/67	45	ALL	DAIKIN	FFQ12W2VJU

NOTES:

1. MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL." SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS AND SUBSTITUTION PROCEDURES.
2. PROVIDE INVERTER DRIVEN COMPRESSOR FOR IMPROVED HUMIDITY CONTROL.
3. PROVIDE WALL MOUNTED AND WIRED 7-DAY PROGRAMMABLE T-STAT IN LIEU OF WIRELESS REMOTE.
4. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT.

IDEA FRONTIER BUILDING C - MINI-SPLIT CONDENSER SCHEDULE (BASE BID)

MARK	SERVING	EXISTING MANUFACTURER	EXISTING MODEL NUMBER	TOTAL COOLING (BTU/H)	COND DB	ELECTRICAL V-PH-HZ	SEER2	COMPR TYPE	MCA	MOCP	WEIGHT (LBS)	NOTES	MANUFACTURER	MODEL NUMBER
ACCU-13	CC-3	MIRAGE	CMC121T	12,000	95	208/230-1-60	19.5	INVERTER DRIVEN TWN ROTARY	7.8	15	64	ALL	DAIKIN	RX12WMVJU

NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT.
2. PROVIDE CONDENSER COIL CORROSION PROTECTION.
3. INSTALL UNIT ON EXISTING CONCRETE PAD. EXTEND CONCRETE PAD AS NECESSARY TO ACCOMMODATE FOR NEW EQUIPMENT.
4. PROVIDE INSULATION FOR BOTH LIQUID AND SUCTION LINES.
5. INSTALL PER MANUFACTURERS INSTRUCTIONS AND PIPING RECOMMENDATIONS.
6. 1 YEAR PARTS WARRANTY AND 10 YEAR COMPRESSOR PARTS LIMITED WARRANTY.

IDEA FRONTIER BUILDING C - MINI-SPLIT CASSETTE UNIT SCHEDULE (BASE BID)

MARK	SERVED BY	EXISTING MANUFACTURER	EXISTING MODEL NUMBER	LOCATION	MIN CFM	MAX CFM	ELECTRICAL V-PH-HZ	COOLING		WEIGHT (LBS)	NOTES	MANUFACTURER	MODEL NUMBER
								TOTAL (BTU/H)	EAT DBWB				
CC-3	ACCU-13	EMI AMERICA SERIES	CACA12	C128	268	406	208-1-60	12,000	80/67	45	ALL	DAIKIN	FFQ12W2VJU

NOTES:

1. MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL." SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS AND SUBSTITUTION PROCEDURES.
2. PROVIDE INVERTER DRIVEN COMPRESSOR FOR IMPROVED HUMIDITY CONTROL.
3. PROVIDE WALL MOUNTED AND WIRED 7-DAY PROGRAMMABLE T-STAT IN LIEU OF WIRELESS REMOTE.
4. ELECTRICAL CONTRACTOR TO PROVIDE SINGLE CIRCUIT POWER FROM SERVICE TO OUTDOOR UNIT AND WIRE TO INDOOR UNIT.

IDEA FRONTIER PORTABLE - EXHAUST FAN SCHEDULE (BASE BID)

MARK	SERVING	TYPE	ELECTRICAL V-PH-HZ	DRIVE	CFM	INPUT WATTS	AMPS	E.S.P. IN. H2O	SOUND IN SONES	CONTROL NOTES	NOTES	MANUFACTURER	MODEL NUMBER
EF-P1	PORTABLE RESTROOM	CEILING MOUNTED	120-1-60	DIRECT	50	-	1.6	0.1	2.5	A	ALL	BROAN	678
EF-P2	PORTABLE RESTROOM	CEILING MOUNTED	120-1-60	DIRECT	50	-	1.6	0.1	2.5	A	ALL	BROAN	678

NOTES:

1. PROVIDE FACTORY MOUNTED DISCONNECT.
2. MANUFACTURER AND MODEL NUMBER LISTED ARE "OR APPROVED EQUAL." REFER TO SPECIFICATIONS.
3. PROVIDE OSHA MOTOR AND BELT GUARD.
4. PROVIDE AUTOMATIC BELT TENSIONER.
5. PROVIDE INSULATED HOUSING FOR SOUND ATTENUATION.

CONTROL NOTES:

- A. FAN SHALL BE OPERATED BY A WALL SWITCH VIA THE OCCUPANCY SENSOR PROVIDED BY DIV 26 COORDINATE WITH ELECTRICAL.

EQUIPMENT CONNECTION SCHEDULE:

DESIGN	HP/KW	EXISTING MOCP	NEW MCA	NEW MOCP	VOLTAGE	EXISTING MEANS OF DISCONNECT	NEW MEANS OF DISCONNECT	EXISTING BRANCH CIRCUIT (75' COPPER)	NEW BRANCH CIRCUIT (75' COPPER)	EXISTING POWER SOURCE
IDEA FRONTIER BUILDING A (BASE BID)										
EF-1	1/2 HP	20	12.2	1) 20	120V/1PHASE	CONNECT ABOVE CEILING, INTERLOCKING BY HVAC CONTROLS	RETAIN EXISTING.	1/2" - 2#12 & #12G	RETAIN EXISTING.	LA
EF-2	1/15 HP	20	-	1) 20	120V/1PHASE	CONNECT AT CEILING, INTERLOCKING BY HVAC CONTROLS	RETAIN EXISTING.	1/2" - 2#12 & #12G	RETAIN EXISTING.	LA
ACCU-11	-	15	7.8	1)15	208V/1PHASE	30A, 2PNF, 240V, NEMA 4X SS	RETAIN EXISTING.	1/2" - 2#12 & #12G	RETAIN EXISTING.	LA
CC-1	-	15	-	1) 15	208V/1PHASE	30A, 2PNF, 240V, NEMA 1	RETAIN EXISTING.	1/2" - 2#12 & #12G	RETAIN EXISTING.	LA
IDEA FRONTIER BUILDING B (BASE BID)										
ACCU-12	-	15	7.8	1) 15	208V/1PHASE	30A, 2PNF, 240V, NEMA 4X SS	RETAIN EXISTING.	1/2" - 2#12 & #12G	RETAIN EXISTING.	LB
CC-2	-	15	-	1) 15	208V/1PHASE	30A, 2PNF, 240V, NEMA 1	RETAIN EXISTING.	1/2" - 2#12 & #12G	RETAIN EXISTING.	LB
IDEA FRONTIER BUILDING C (BASE BID)										
ACCU-13	-	15	7.8	1) 15	208V/1PHASE	30A, 2PNF, 240V, NEMA 4X SS	RETAIN EXISTING.	1/2" - 2#12 & #12G	RETAIN EXISTING.	LC
CC-3	-	15	-	1) 15	208V/1PHASE	30A, 2PNF, 240V, NEMA 1	RETAIN EXISTING.	1/2" - 2#12 & #12G	RETAIN EXISTING.	LC
IDEA FRONTIER PORTABLE BUILDING (BASE BID)										
EF-P-1	-	20	1.6	1) 20	120V/1PHASE	TOGGLE SWITCH.	RETAIN EXISTING.	1/2" - 2#12 & #12G	RETAIN EXISTING.	P1
EF-P-2	-	20	1.6	1) 20	120V/1PHASE	TOGGLE SWITCH.	RETAIN EXISTING.	1/2" - 2#12 & #12G	RETAIN EXISTING.	P1

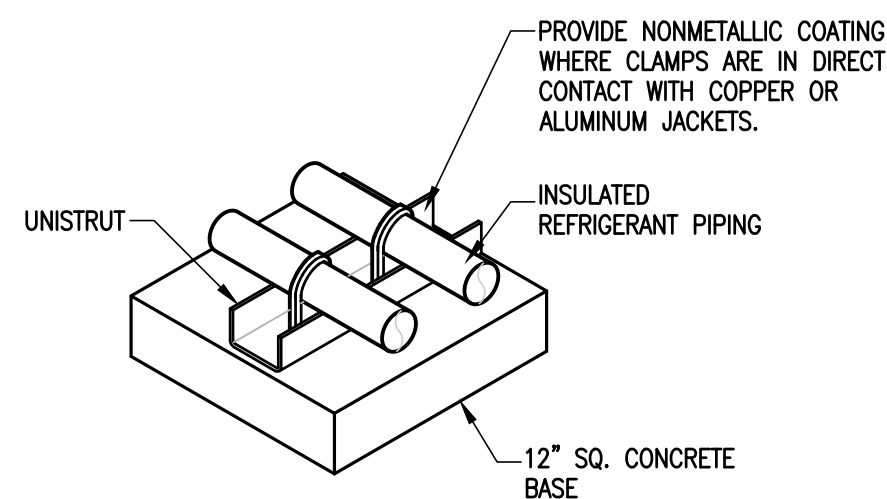
NOTES:

- 1) RETAIN AND REUSE EXISTING CIRCUIT BREAKER.

GENERAL NOTES:

- A) PROVIDE A NEMA 3R J-BOX TO SPLICE AND EXTEND EXISTING BRANCH CIRCUIT TO NEW POINT OF CONNECTION IF EXISTING DOES NOT REACH.

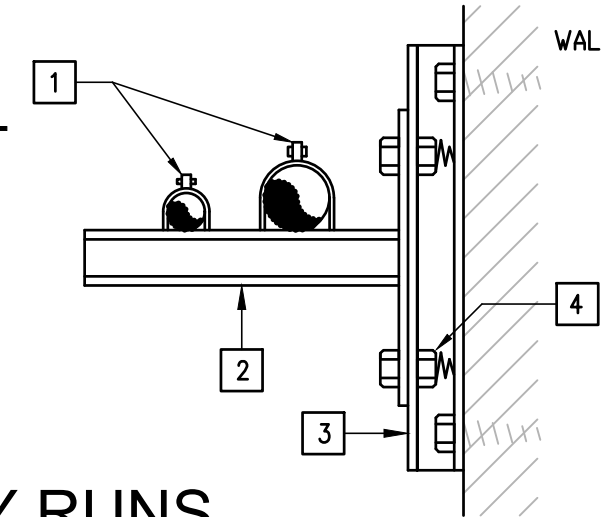




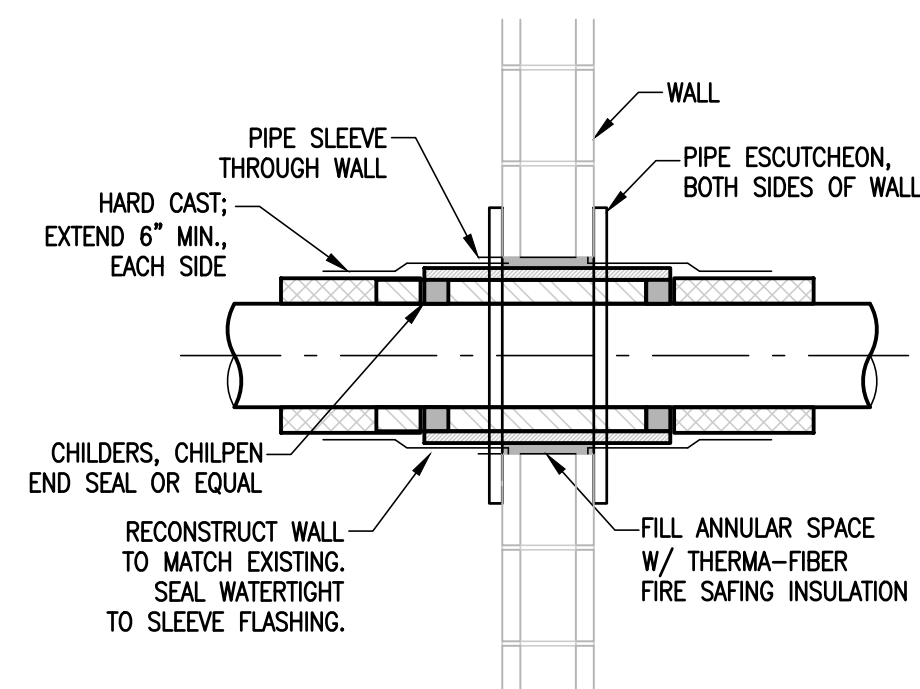
REFRIGERANT PIPING SUPPORT DETAIL
 01 SCALE : NOT TO SCALE

KEYED NOTES:

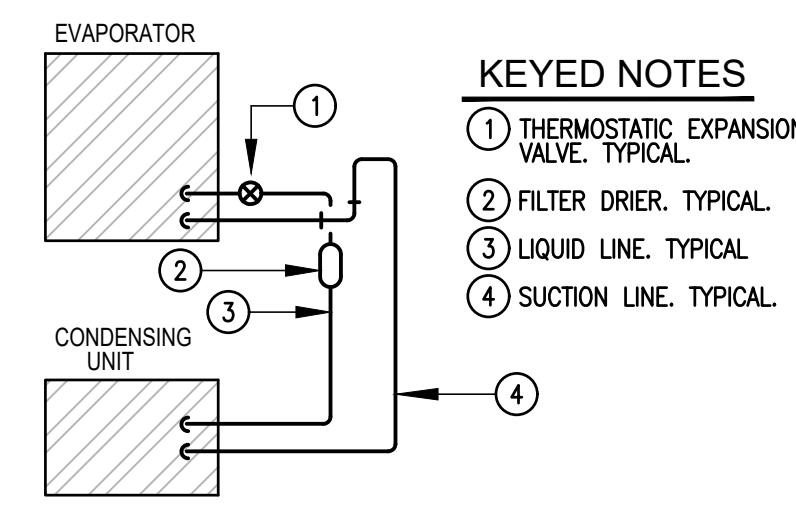
- 1 PROVIDE CONDUIT CLAMPS.
- 2 PROVIDE GALVANIZED UNISTRUT WALL BRACKET.
- 3 PROVIDE RAMSET OR BOLT GALVANIZED UNISTRUT TO WALL.
- 4 PROVIDE SELF HOLDING CLAMPING NUT WITH SPRING.



RACEWAY RUNS SUPPORT DETAIL
 02 SCALE : NOT TO SCALE



03 PIPE PENETRATION DETAIL
 SCALE : NOT TO SCALE

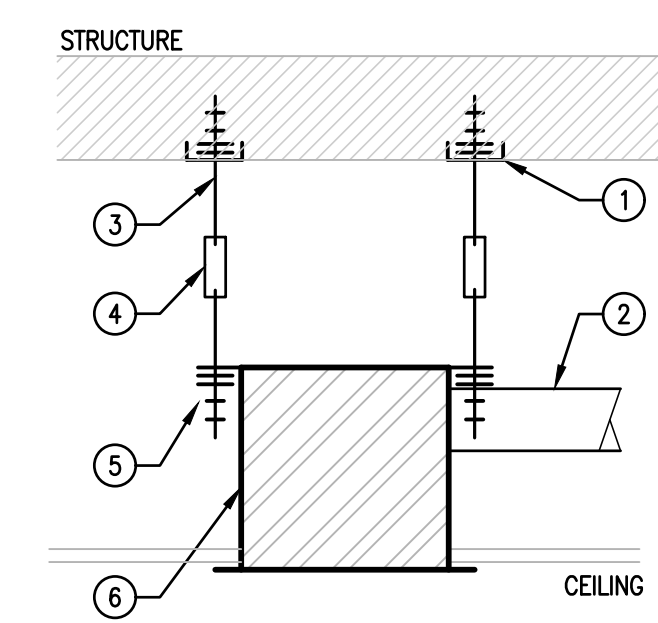


REFRIGERANT PIPING DETAIL
 04 SCALE : NOT TO SCALE

KEYED NOTES

- 1 THERMOSTATIC EXPANSION VALVE. TYPICAL.
- 2 FILTER DRIER. TYPICAL.
- 3 LIQUID LINE. TYPICAL.
- 4 SUCTION LINE. TYPICAL.

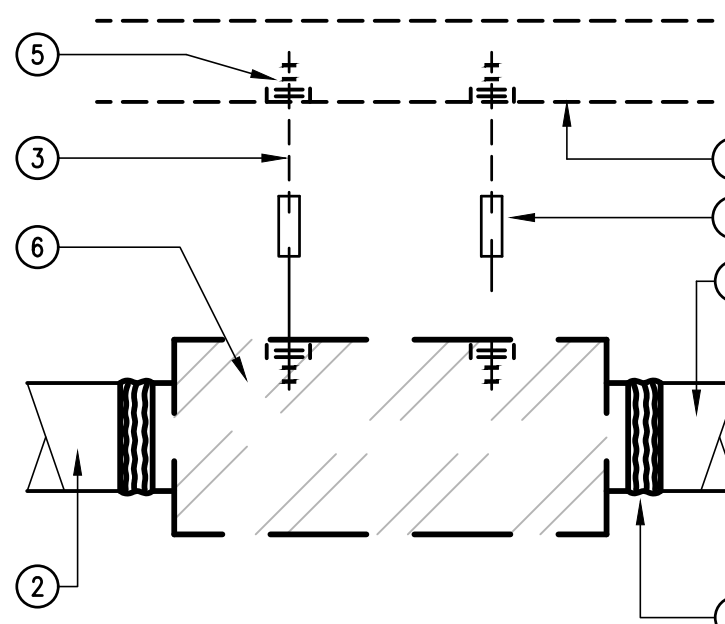
NOTE: SIZE REFRIGERANT PIPING PER MFR. RECOMMENDATION.



CEILING EXHAUST FAN FAN MOUNTING DETAIL
 05 SCALE : NOT TO SCALE

KEYED NOTES

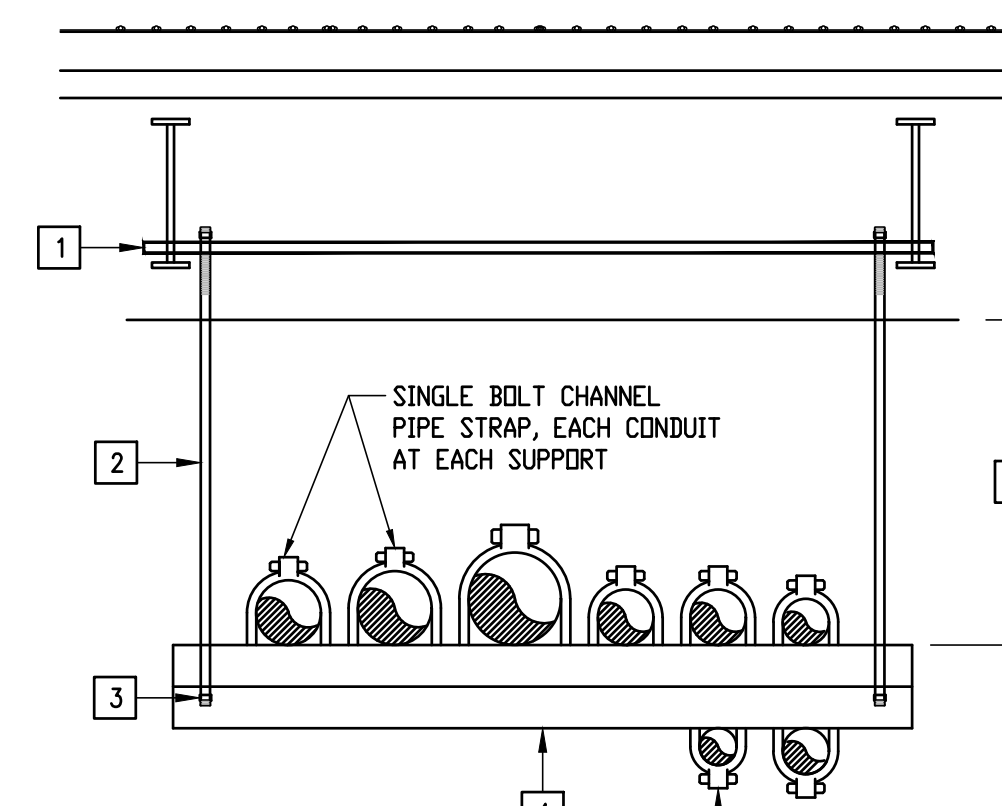
- 1 "UNISTRUT" STRUCTURAL CHANNEL - SECURE TO STRUCTURE.
- 2 EXHAUST DUCT. SEE PLAN.
- 3 GALVANIZED ALL THREADED ROD.
- 4 VIBRATION ISOLATORS.
- 5 HEX NUTS AND WASHERS (TYP.)
- 6 CEILING EXHAUST FAN AS SCHEDULED.



06 INLINE EXHAUST FAN DETAIL
 SCALE : NOT TO SCALE

KEYED NOTES

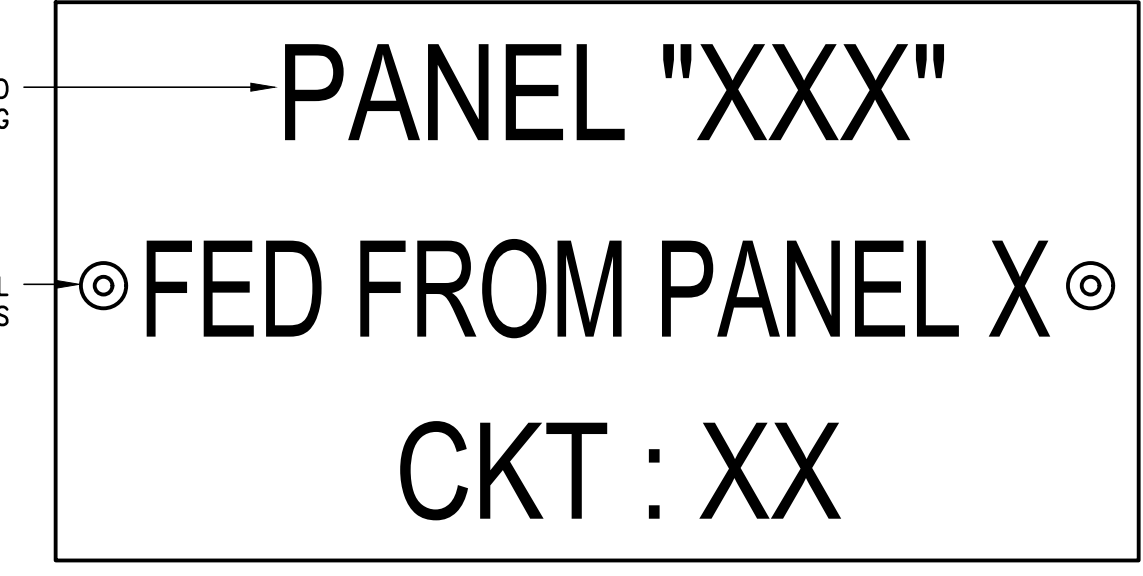
- 1 "UNISTRUT" STRUCTURAL CHANNEL - SECURE TO STRUCTURE.
- 2 EXHAUST DUCT. SEE PLAN.
- 3 GALVANIZED ALL THREADED ROD.
- 4 VIBRATION ISOLATORS.
- 5 HEX NUTS AND WASHERS (TYP.)
- 6 INLINE EXHAUST FAN AS SCHEDULED.
- 7 FLEXIBLE CONNECTION.



HORIZONTAL RACEWAYS SUPPORT DETAIL
 07 SCALE : NOT TO SCALE

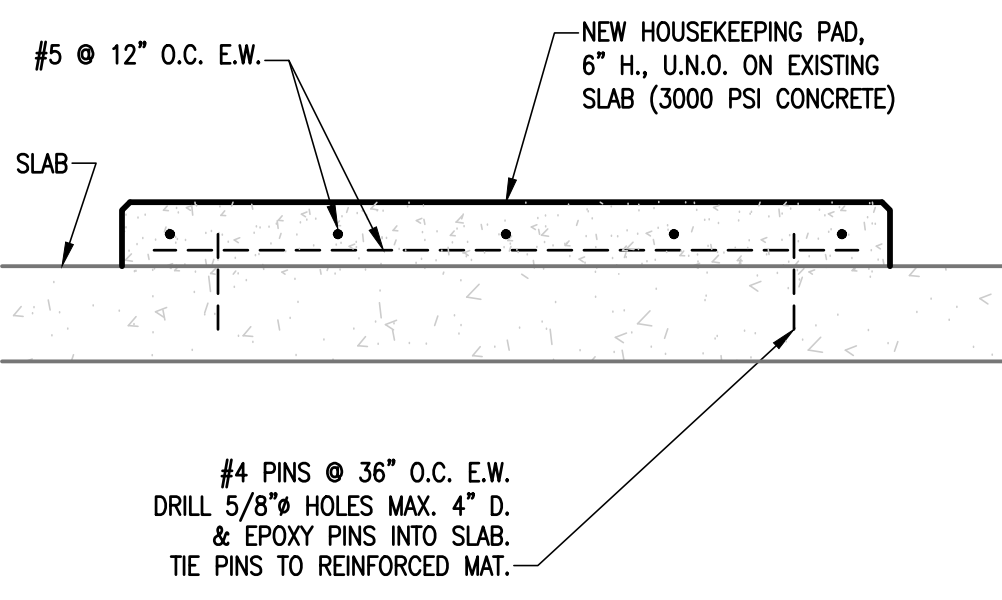
KEYED NOTES:

- 1 PROVIDE UNISTRUT STRUCTURAL CHANNEL SECURED TO TO JOIST AT BOTH ENDS.
- 2 PROVIDE 1/2" GALVANIZED ROD MINIMUM.
- 3 PROVIDE LOCKNUT.
- 4 PROVIDE GALVANIZED UNISTRUT 8'-0" O/C MAXIMUM.
- 5 0'-1" MAXIMUM SIZE ON BOTTOM OF UNISTRUT.
- 6 VARIES.



EQUIPMENT IDENTIFICATION LABEL DETAIL
 08 SCALE : NOT TO SCALE

NOTE: ATTACH NAMEPLATES TO ALL ELECTRICAL GEAR AS NOTED ON SECTION 260553.



NEW HOUSEKEEPING PAD ON EXISTING SLAB
 09 SCALE : NOT TO SCALE



KEYED NOTES:

- 1 PROVIDE ROOF SUPPORT BLOCK PIPE PIER MODEL NO. PP30 EVERY 10'-0".
- 2 EXISTING ROOF.
- 3 PROVIDE RACEWAYS AS SPECIFIED.

FLOOR MOUNTED RACEWAYS SUPPORT DETAIL
 10 SCALE : NOT TO SCALE