MIDLOTHIAN INDEPENDENT SCHOOL DISTRICT WALNUT GROVE MIDDLE SCHOOL

990 Walnut Grove Rd, Midlothian TX 76065

CHILLER REPLACEMENT JULY 03, 2024

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<i>I</i> 12.00	ORIENTATION FLOOR PLAN - LEVEL 2 - HVAC

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MP1.01 FLOOR PLAN - CENTRAL UTILITY PLANT - MECHANICAL

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E1.02 ENLARGED FLOOR PLANS - LEVEL 1 - ELECTRICAL

E2.00 ORIENTATION FLOOR PLAN - LEVEL 2 - ELECTRICAL

E2.01 ENLARGED FLOOR PLANS - LEVEL 2 - ELECTRICAL



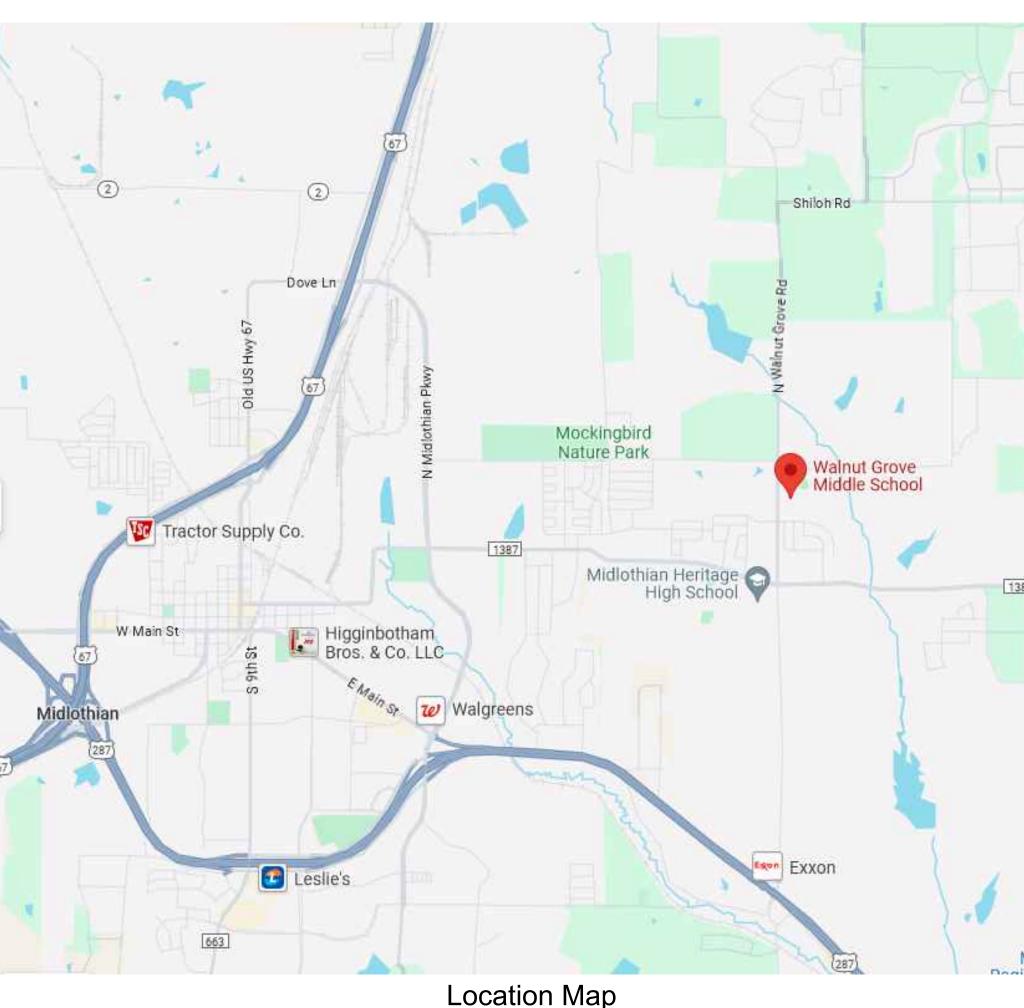


Consulting Engineers #F-2176

DALLAS, TX 75251

RWB PROJECT #24040.00









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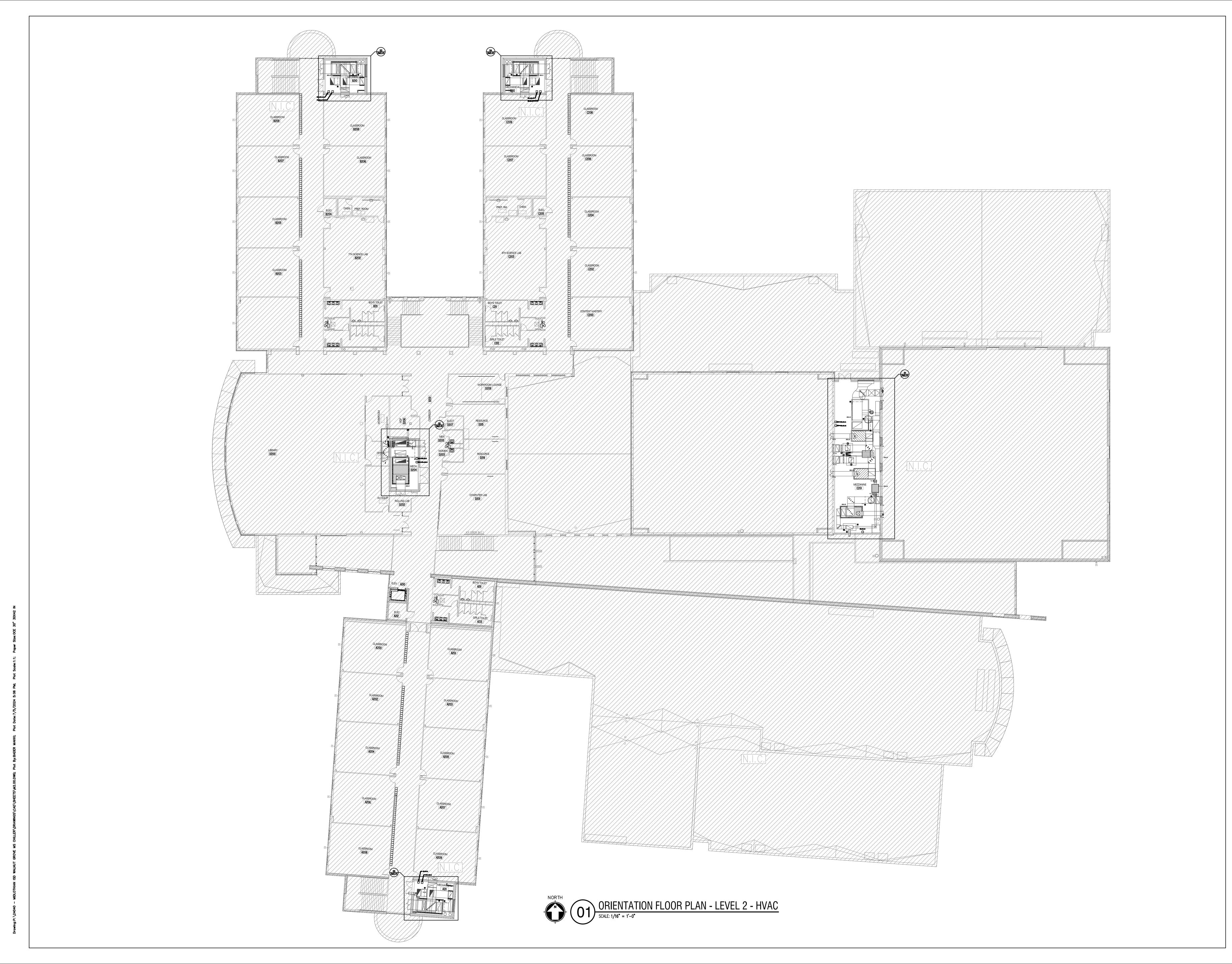




ORIENTATION FLOOR PLAN - LEVEL 1 - HVAC

JOB NO.: 24040-00 DRAWN BY: BM CHECKED BY: HV

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ORIENTATION FLOOR PLAN - LEVEL 2 - HVAC

JOB NO.: 24040-00 DRAWN BY: BM CHECKED BY: HV SHEET NO.

M2.00

1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK THAT WILL BE REQUIRED. CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME INFORMED AS TO THE RELATION TO, AND EFFECT ON, THE WORK REQUIRED BEFORE SUBMITTING A BID. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.

- 2. EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
- 3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT WILL EFFECT OTHER SYSTEMS WITHIN THE LIMIT OF NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING. THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION; AND, THEREFORE, UTILITIES MUST REMAIN IN OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
- 4. PRIOR TO THE REMOVAL OF ANY MPE ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS).
- 5. CONTRACTOR SHALL CONTACT CONTROLS SYSTEM INSTALLER BEFORE ANY DEMOLITION WORK IS STARTED TO ALLOW THEM TO TAG & IDENTIFY ITEMS TO REMAIN AND BE PROTECTED AND ITEMS TO BE REMOVED. THE CONTROLS SYSTEM INSTALLER SHALL COORDINATE WITH THE OWNER FOR ELEMENTS OF THE EXISTING CONTROLS SYSTEM THAT SHALL BE CAREFULLY REMOVED AND GIVEN TO THE OWNER SUCH AS EXISTING TEMPERATURE SENSORS THAT WILL NOT BE RE-USED. ALL EXISTING TEMPERATURE ONLY SENSORS SERVING EXISTING RTUS SHALL BE CAREFULLY REMOVED, SHRINK WRAPPED, PALLETIZED, AND PROVIDED TO OWNER FOR THEIR USE.
- 6. DO NOT ABANDON ANY ITEMS IN PLACE, REMOVE ALL COMPONENTS ASSOCIATED WITH EACH ITEM CALLED OUT TO BE REMOVED. WHERE ITEMS ARE REMOVED PATCH/REPLACE ROOF, WALLS, CEILING OR FLOOR, AS APPLICABLE, TO MATCH EXISTING FINISHES, WHERE NEW FINISHES ARE CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.
- 7. ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN OPERATION DURING CONSTRUCTION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT
- 8. ALL EXISTING LIGHTS ARE TO BE REUSED AND REMAIN IN PLACE, UNLESS NOTED OTHERWISE.

CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING DEMOLITION.

- 9. THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.
- 10. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS WITH DISTRICT, ALLOWING THE DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.
- 11. PROVIDE FLOOR PROTECTION IN ALL AREAS OF DEMOLITION AND NEW WORK THROUGH OUT THE BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

NOTES BY SYMBOL 'O':

- 1) EXISTING REFRIGERANT MONITORING STATION TO BE DEMOLISHED AND REPLACED WITH NEW.
- 2) EXISTING AIR SEPARATOR TO BE REMOVED AND REPLACED WITH NEW.
- 3 EXISTING CENTRIFUGAL SEPARATOR TO BE REMOVED AND REPLACED WITH NEW.
- EXISTING WATER SOFTENER SYSTEM AND ASSOCIATED INTERCONNECTED PIPING TO BE DEMOLISHED. CAP PIPING JUST DOWNSTREAM OF THE SYSTEM BY-PASS AND OPEN BY-PASS.
- 5 EXISTING SCREW CHILLER TO BE DEMOLISHED AND REPLACED WITH A NEW CENTRIFUGAL CHILLER.
- 6 EXISTING CWP-1 TO BE REMOVED TO ALLOW FOR THE REMOVAL OF THE EXISTING CHILLER AND THE INSTALLATION OF THE NEW CHILLER.
- (7) EXISTING 4" DOMESTIC COLD WATER RISER WITH SHUT-OFF VALVE IN RISER.
- 8 EXISTING 1" DOMESTIC HOT WATER DN. TO CIRCULATION PUMP.
- 9 REMOVE EXISTING COOLING TOWER FAN MOTORS AND REPLACE WITH NEW VFD COMPATIBLE FAN MOTORS.

ALTERNATE NOTES BY SYMBOL ' \cap ':

1) EXISTING CHP-1 VFD TO BE REMOVED AND REPLACED WITH NEW.

DEMOLITION FLOOR PLAN - CENTRAL UTILITY PLANT - MECHANICAL

 $\langle 2 \rangle$ EXISTING <u>HWP-1</u> & <u>HWP-2</u> VFDS TO BE REMOVED AND REPLACED WITH NEW.



Consulting Engineers TX Firm # F-2176 (972) 788-4222 Project 24040.00 12222 Merit Dr Suite 400 Dallas, TX 75251



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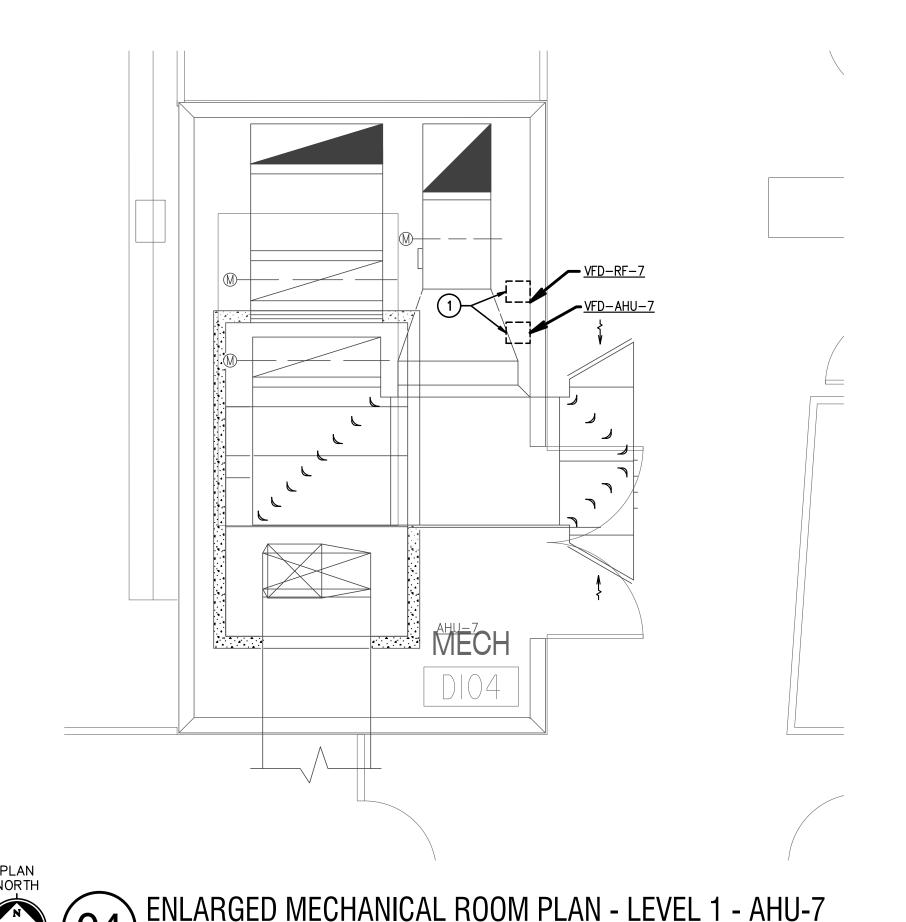
DEMOLITION FLOOR PLAN - CENTRAL UTILITY PLANT -MECHANICAL

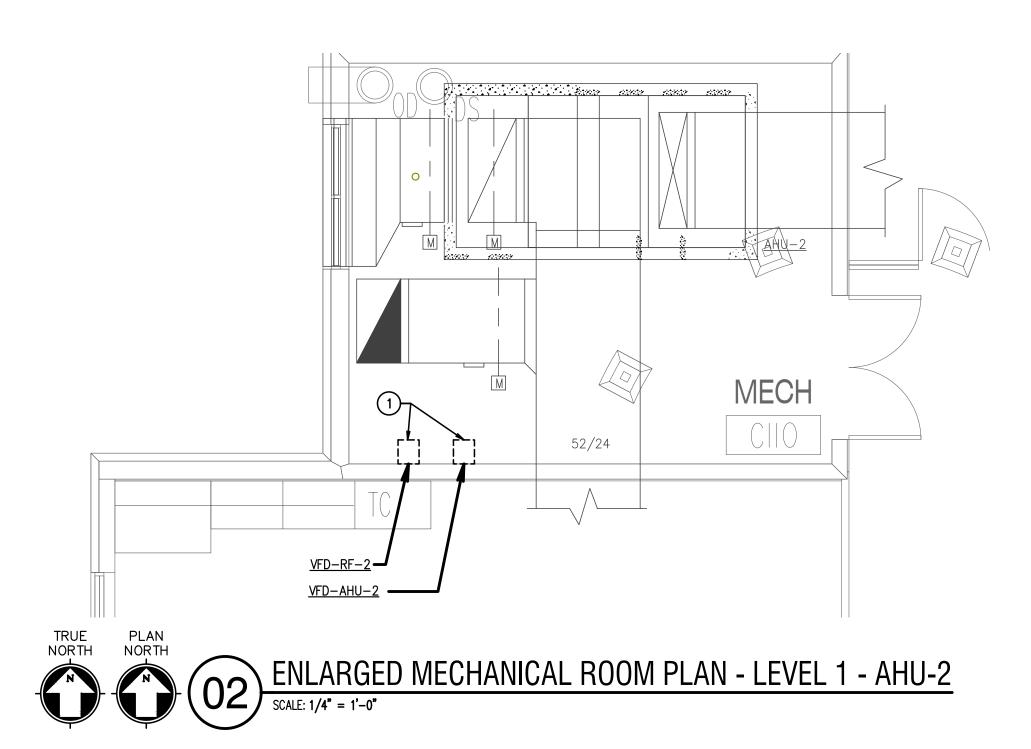
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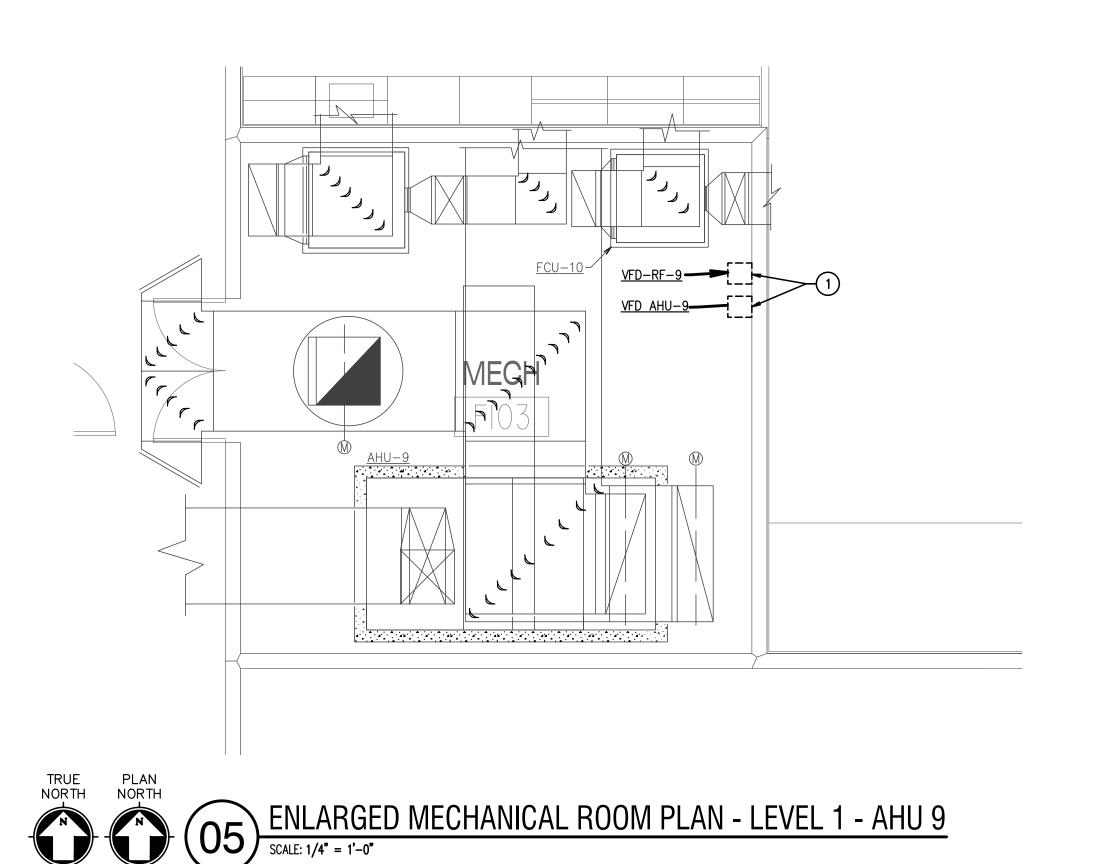
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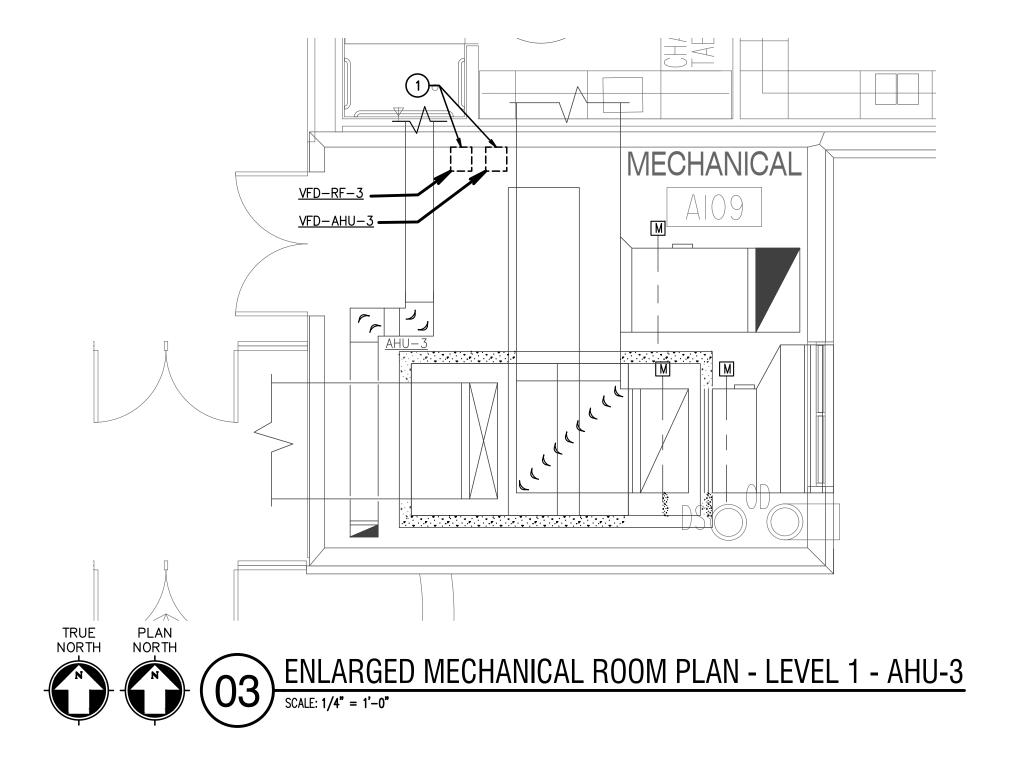
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ALTERNATE NOTES BY SYMBOL ' ::

CORRIDOR AND BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

1) EXISTING VFD TO BE REMOVED AND REPLACED WITH NEW.





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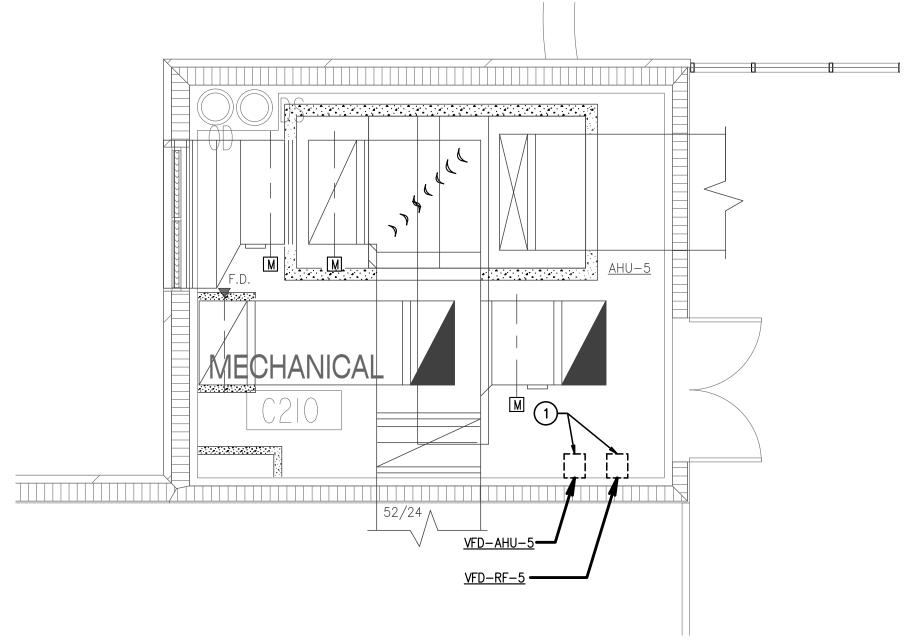
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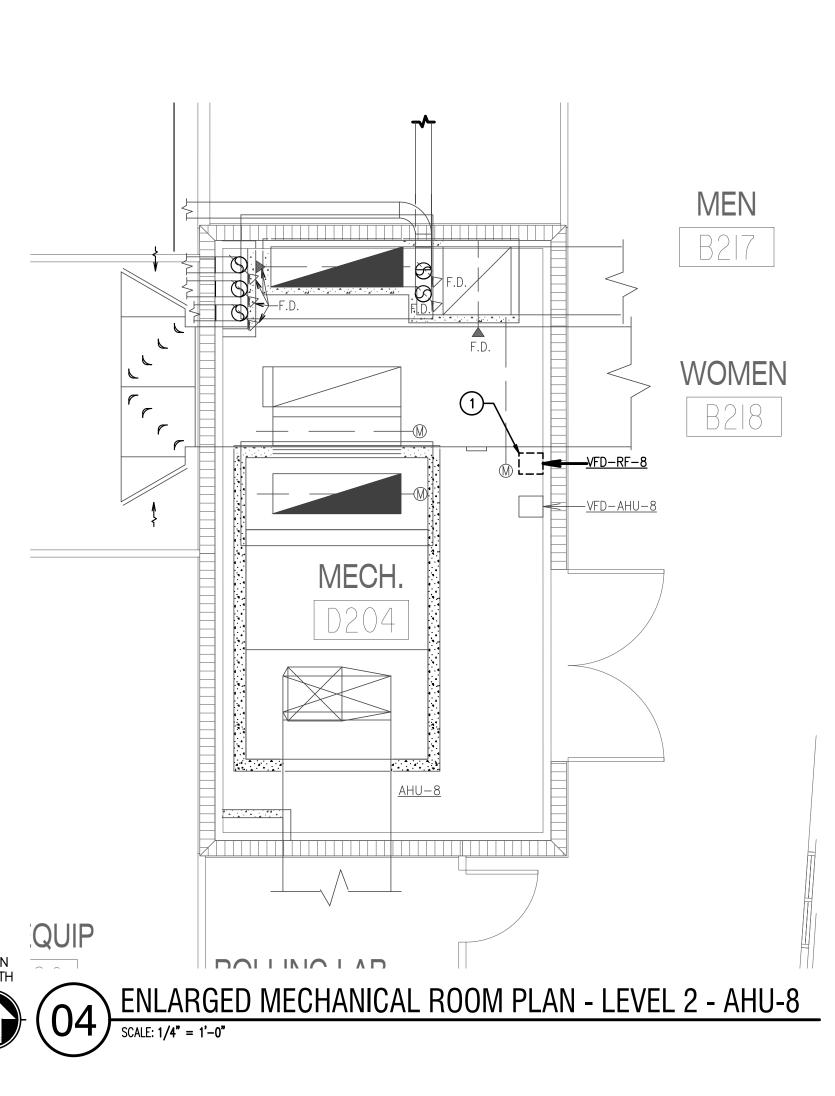


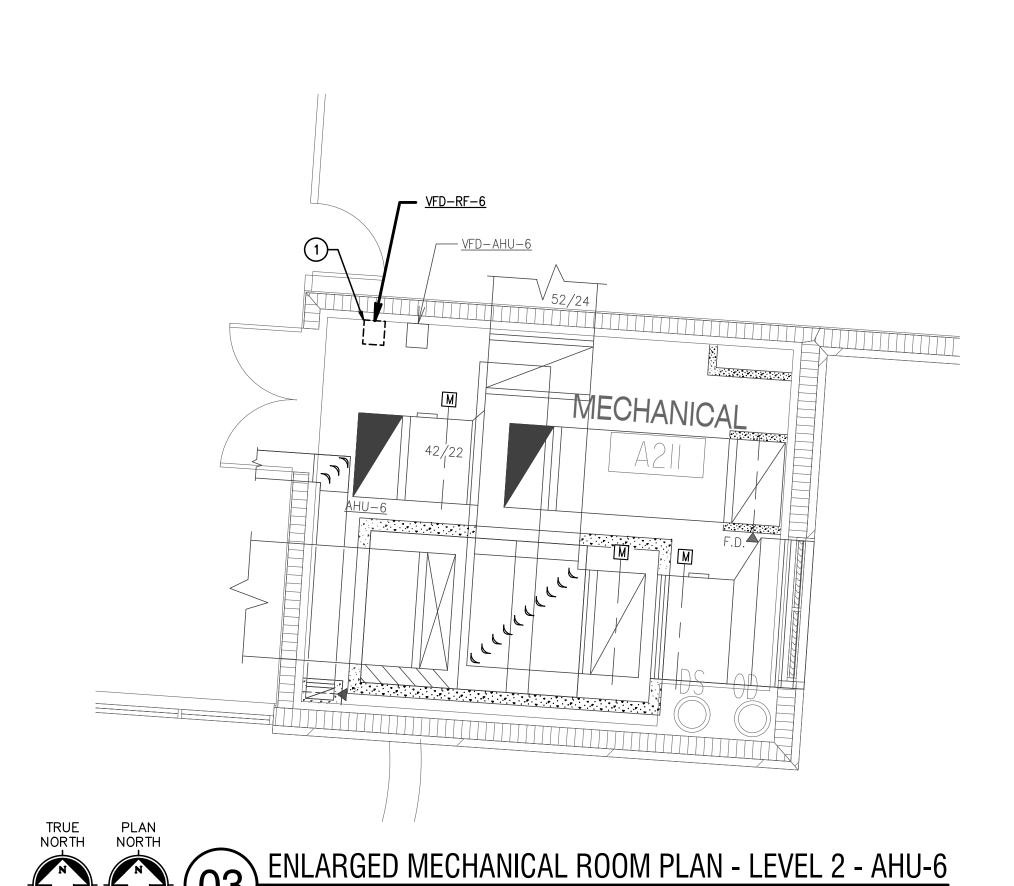
ENLARGED DEMOLITION FLOOR PLANS - LEVEL 1 -HVAC

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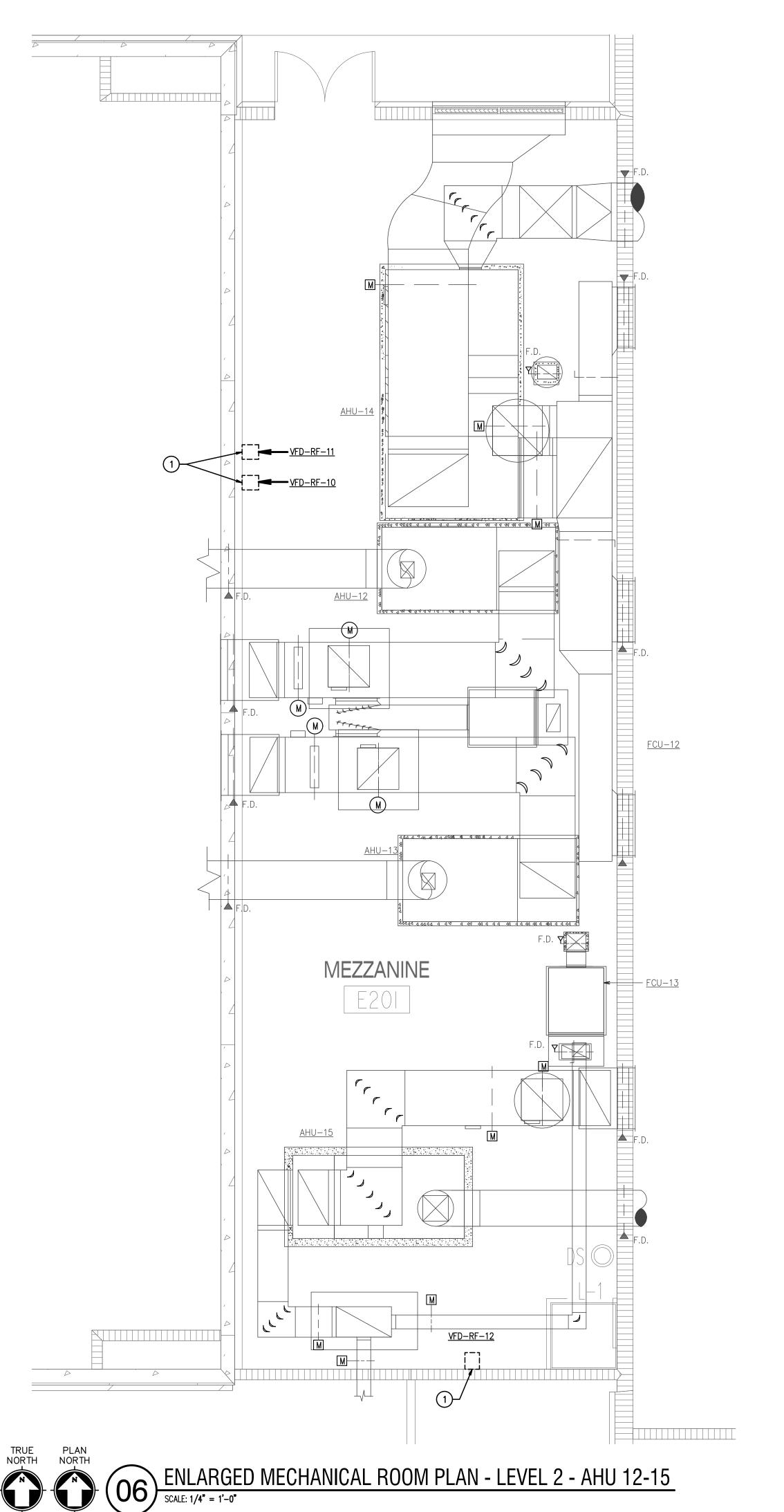


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1) EXISTING VFD TO BE REMOVED AND REPLACED WITH NEW.

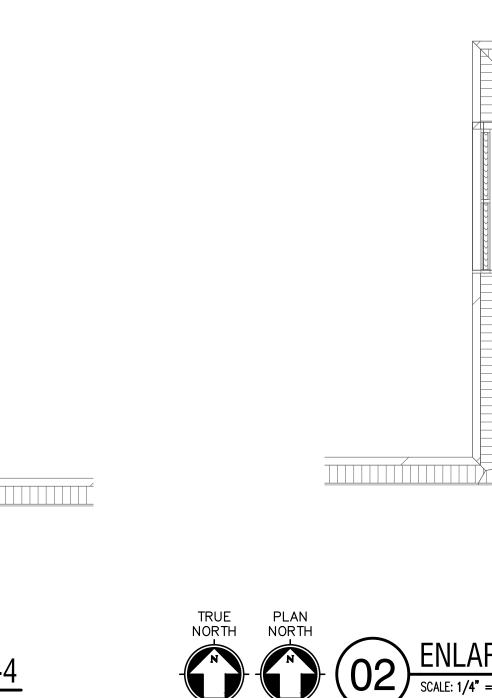


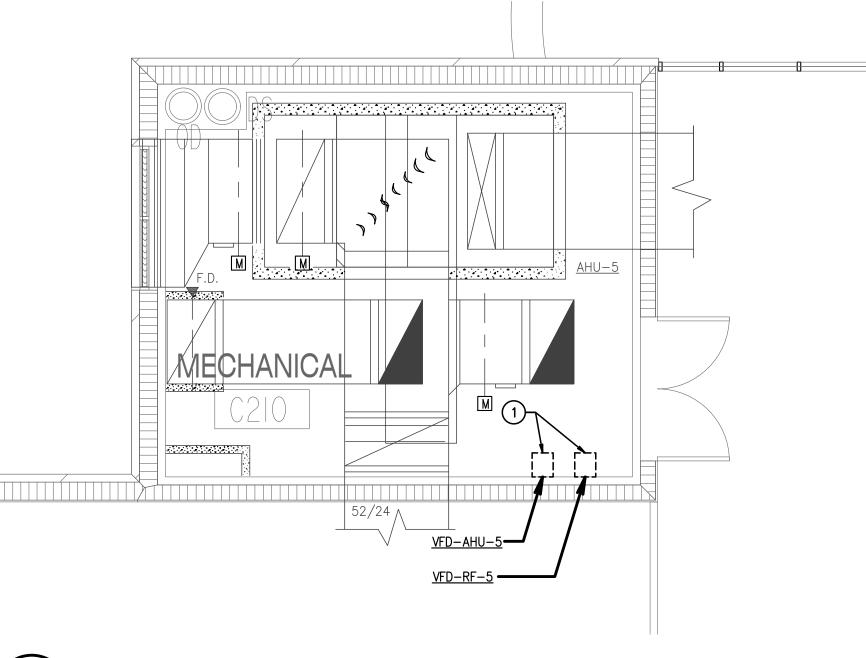
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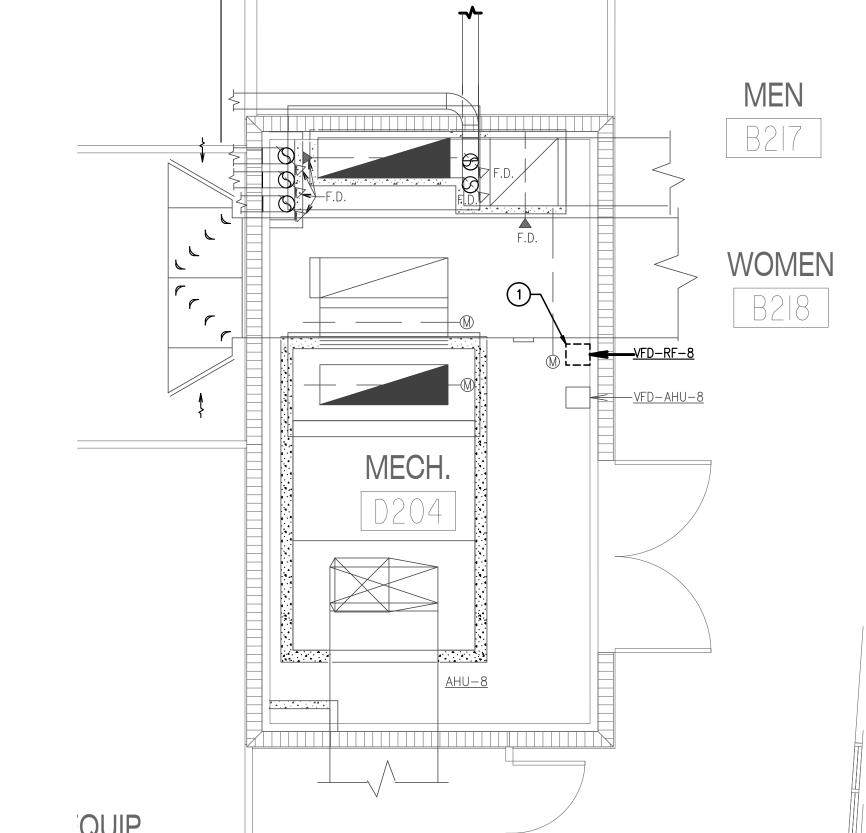
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ENLARGED DEMOLITION FLOOR PLANS - LEVEL 2 -HVAC

JOB NO.: 24040-00 DRAWN BY: BM CHECKED BY: HV











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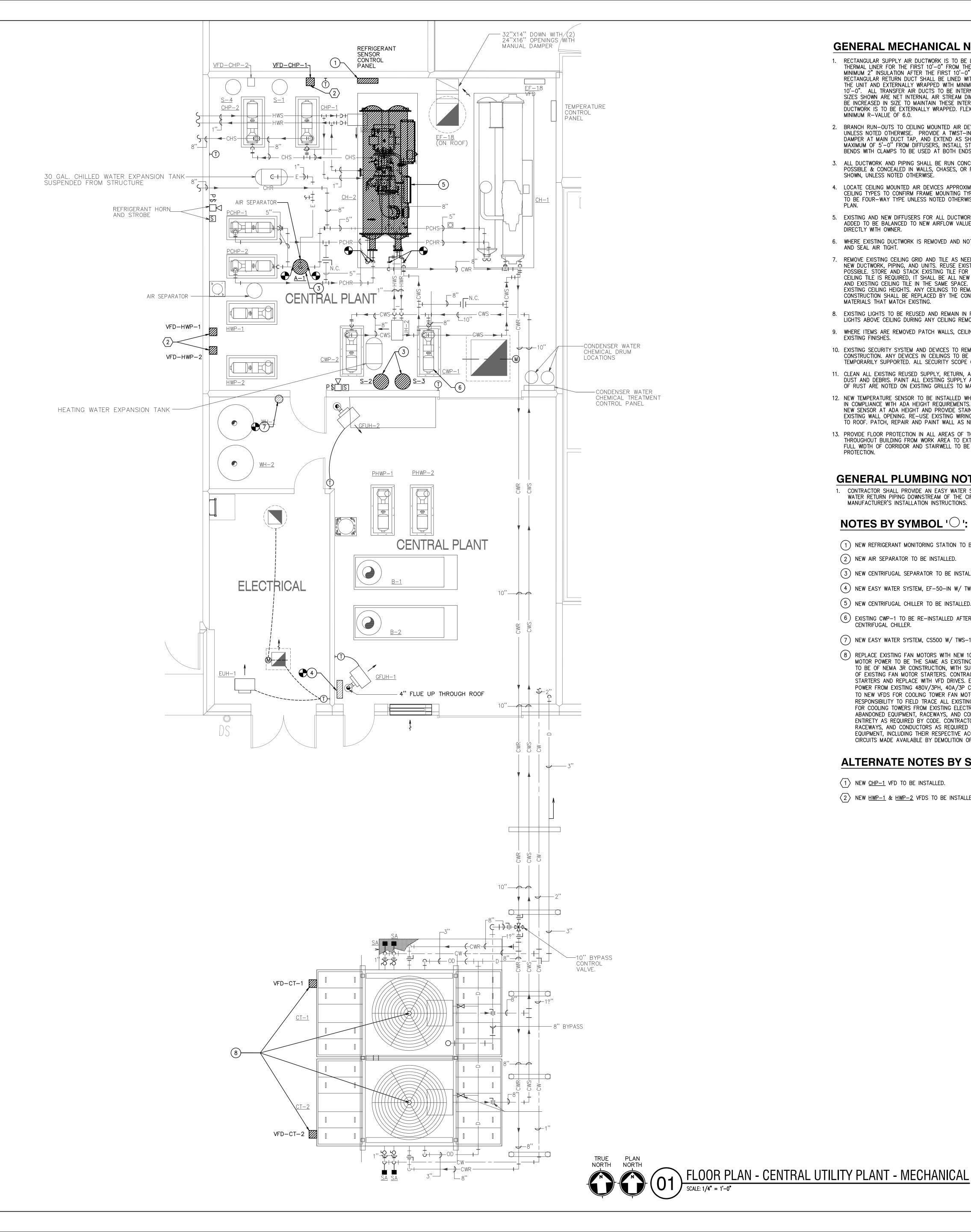




HYDRONIC FLOW DIAGRAMS **DEMOLITION - HVAC**

JOB NO.: 24040-00 DRAWN BY: BM CHECKED BY: HV SHEET NO.

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GENERAL MECHANICAL NOTES:

- 1. RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1½" THICK ACOUSTICAL AND THERMAL LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0" TO MEET THE 2018 IECC REQUIREMENTS. RECTANGULAR RETURN DUCT SHALL BE LINED WITH 1" LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0". ALL TRANSFER AIR DUCTS TO BE INTERNALLY LINED WITH 1" LINER. DUCTWORK SIZES SHOWN ARE NET INTERNAL AIR STREAM DIMENSIONS. SHEET METAL SIZES ARE TO BE INCREASED IN SIZE TO MAINTAIN THESE INTERNAL CLEAR DIMENSIONS. ROUND DUCTWORK IS TO BE EXTERNALLY WRAPPED. FLEXIBLE ROUND DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.0.
- 2. BRANCH RUN-OUTS TO CEILING MOUNTED AIR DEVICES SHALL BE SAME SIZE AS NECK, UNLESS NOTED OTHERWISE. PROVIDE A TWIST-IN FLARED TAP WITH MANUAL VOLUME DAMPER AT MAIN DUCT TAP, AND EXTEND AS SHOWN. EXTEND FLEXIBLE DUCTWORK A MAXIMUM OF 5'-0" FROM DIFFUSERS, INSTALL STRAIGHT AS POSSIBLE WITH LONG RADIUS BENDS WITH CLAMPS TO BE USED AT BOTH ENDS.
- 3. ALL DUCTWORK AND PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS AS HIGH AS POSSIBLE & CONCEALED IN WALLS, CHASES, OR FURROUTS IN GENERAL LOCATIONS SHOWN, UNLESS NOTED OTHERWISÉ.
- 4. LOCATE CEILING MOUNTED AIR DEVICES APPROXIMATELY WHERE SHOWN. VERIFY EXISTING CEILING TYPES TO CONFIRM FRAME MOUNTING TYPES REQUIRED. ALL CEILING DIFFUSERS TO BE FOUR-WAY TYPE UNLESS NOTED OTHERWISE BY AIR FLOW ARROWS ON FLOOR
- 5. EXISTING AND NEW DIFFUSERS FOR ALL DUCTWORK CONNECTED TO UNITS REPLACED OR ADDED TO BE BALANCED TO NEW AIRFLOW VALUES SHOWN. TAB FIRM CONTRACTED DIRECTLY WITH OWNER.
- 6. WHERE EXISTING DUCTWORK IS REMOVED AND NOT REUSED, INSTALL INSULATED CAPS AND SEAL AIR TIGHT.
- 7. REMOVE EXISTING CEILING GRID AND TILE AS NEEDED TO REMOVE EXISTING AND INSTALL NEW DUCTWORK, PIPING, AND UNITS. REUSE EXISTING CEILING TILE AND GRID WHERE POSSIBLE. STORE AND STACK EXISTING TILE FOR REUSE AND PROTECT. WHERE NEW CEILING TILE IS REQUIRED, IT SHALL BE ALL NEW THROUGH THE ROOM. DO NOT MIX NEW AND EXISTING CEILING TILE IN THE SAME SPACE. ALL NEW CEILING HEIGHTS TO MATCH EXISTING CEILING HEIGHTS. ANY CEILINGS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH PRODUCTS AND MATERIALS THAT MATCH EXISTING.
- 8. EXISTING LIGHTS TO BE REUSED AND REMAIN IN PLACE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING REMOVAL.
- 9. WHERE ITEMS ARE REMOVED PATCH WALLS, CEILING, OR FLOOR AS APPLICABLE TO MATCH EXISTING FINISHES.
- 10. EXISTING SECURITY SYSTEM AND DEVICES TO REMAIN IN PLACE AND ACTIVE DURING CONSTRUCTION. ANY DEVICES IN CEILINGS TO BE REMOVED AND REPLACED TO BE TEMPORARILY SUPPORTED. ALL SECURITY SCOPE OF WORK TO BE CONTRACTED WITH SAS.
- 11. CLEAN ALL EXISTING REUSED SUPPLY, RETURN, AND EXHAUST AIR GRILLES FREE OF ALL DUST AND DEBRIS. PAINT ALL EXISTING SUPPLY AND RETURN AIR GRILLES WHERE SIGNS OF RUST ARE NOTED ON EXISTING GRILLES TO MATCH EXISTING COLOR OF GRILLE.
- 12. NEW TEMPERATURE SENSOR TO BE INSTALLED WHERE OLD SENSOR WAS REMOVED, WHEN IN COMPLIANCE WITH ADA HEIGHT REQUIREMENTS. WHEN NOT IN COMPLIANCE PROVIDE NEW SENSOR AT ADA HEIGHT AND PROVIDE STAINLESS STEEL COVER PLATE OVER EXISTING WALL OPENING. RE-USE EXISTING WIRING PATHWAY TO ACCESSIBLE CEILING, UP
- 13. PROVIDE FLOOR PROTECTION IN ALL AREAS OF THE DEMOLITION AND NEW WORK THROUGHOUT BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND STAIRWELL TO BE RAM BOARD OR EQUAL TYPE FLOOR

GENERAL PLUMBING NOTE:

TO ROOF. PATCH, REPAIR AND PAINT WALL AS NEEDED.

1. CONTRACTOR SHALL PROVIDE AN EASY WATER SYSTEM AND CONTROLLER ON ALL DOMESTIC HOT WATER RETURN PIPING DOWNSTREAM OF THE CIRCULATION PUMP AND INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

NOTES BY SYMBOL 'O':

- 1) NEW REFRIGERANT MONITORING STATION TO BE INSTALLED.
- (2) NEW AIR SEPARATOR TO BE INSTALLED.
- 3 NEW CENTRIFUGAL SEPARATOR TO BE INSTALLED UNDER ALTERNATE SCOPE.
- (4) NEW EASY WATER SYSTEM, EF-50-IN W/ TWS-4-4 AND CONTROLLER.
- (5) NEW CENTRIFUGAL CHILLER TO BE INSTALLED.
- 6 EXISTING CWP-1 TO BE RE-INSTALLED AFTER THE INSTALLATION OF THE NEW CENTRIFUGAL CHILLER.
- 7) NEW EASY WATER SYSTEM, CS500 W/ TWS-1 AND CONTROLLER.
- (8) REPLACE EXISTING FAN MOTORS WITH NEW 10HP FAN MOTORS. CONFIRM NEW FAN MOTOR POWER TO BE THE SAME AS EXISTING. MOTORS TO BE VFD COMPATIBLE. VFDS TO BE OF NEMA 3R CONSTRUCTION, WITH SUN SHIELDS AND TO BE MOUNTED IN PLACE OF EXISTING FAN MOTOR STARTERS. CONTRACTOR TO REMOVE EXISTING 2-SPEED STARTERS AND REPLACE WITH VFD DRIVES. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER FROM EXISTING 480V/3PH, 40A/3P CIRCUIT BREAKER IN EXISTING PANEL "HP4" TO NEW VFDS FOR COOLING TOWER FAN MOTORS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO FIELD TRACE ALL EXISTING FEEDERS AND BRANCH CIRCUIT WIRING FOR COOLING TOWERS FROM EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT. ANY ABANDONED EQUIPMENT, RACEWAYS, AND CONDUCTORS SHALL BE REMOVED IN THEIR ENTIRETY AS REQUIRED BY CODE. CONTRACTOR TO PROVIDE NEW PULLBOXES, RACEWAYS, AND CONDUCTORS AS REQUIRED TO CONNECT ALL NEW REPLACEMENT HVAC EQUIPMENT, INCLUDING THEIR RESPECTIVE ACCESSORIES, TO EXISTING ELECTRICAL CIRCUITS MADE AVAILABLE BY DEMOLITION OF OLD HVAC EQUIPMENT.

ALTERNATE NOTES BY SYMBOL ' ::

- 1 NEW <u>CHP-1</u> VFD TO BE INSTALLED.
- 2 NEW <u>HWP-1</u> & <u>HWP-2</u> VFDS TO BE INSTALLED.



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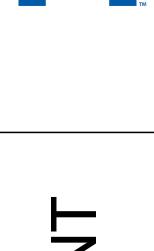


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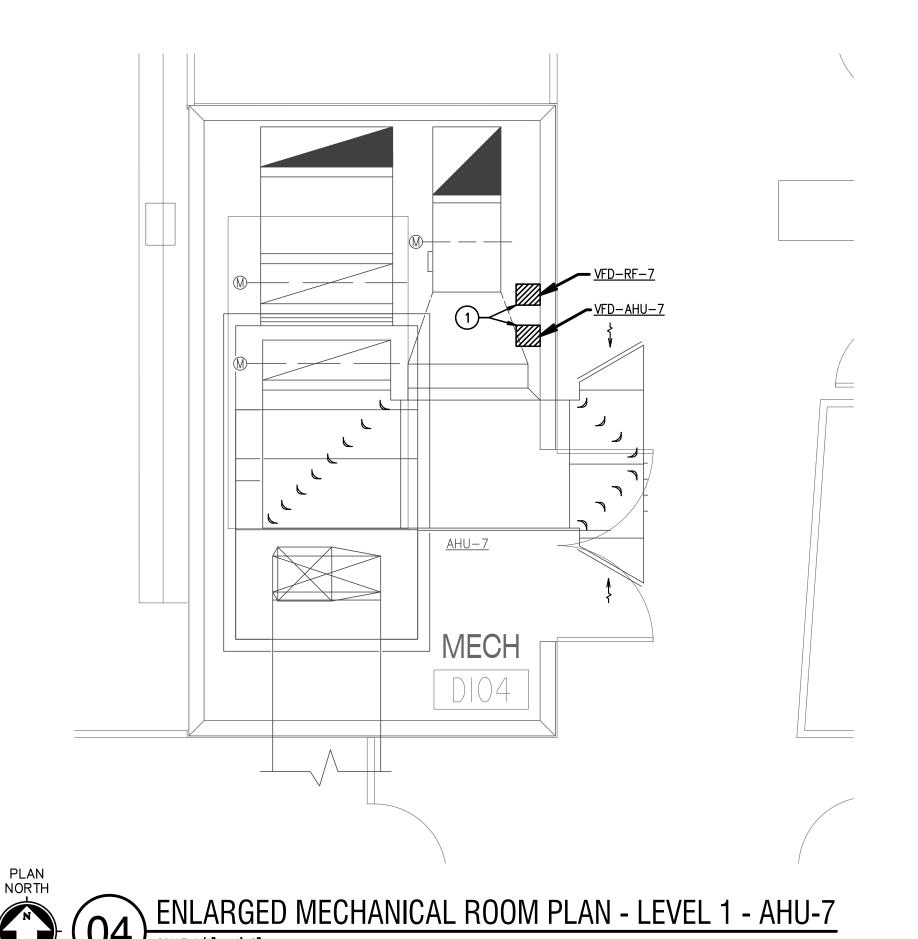
FLOOR PLAN -**CENTRAL UTILITY** PLANT - MECHANICAL

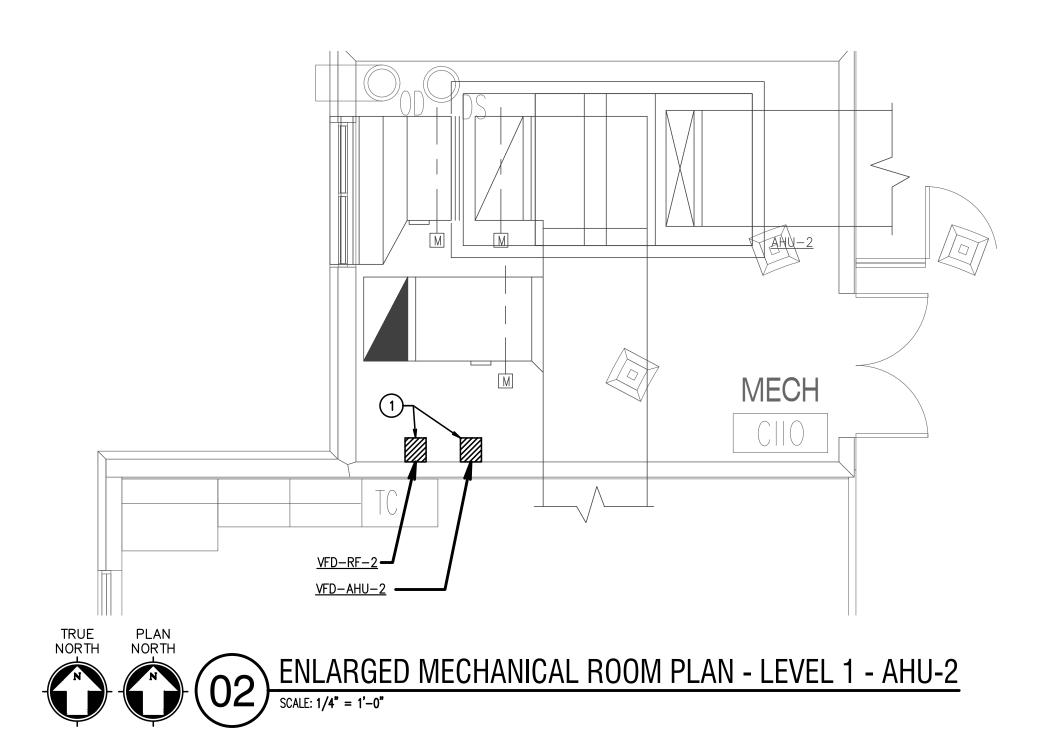
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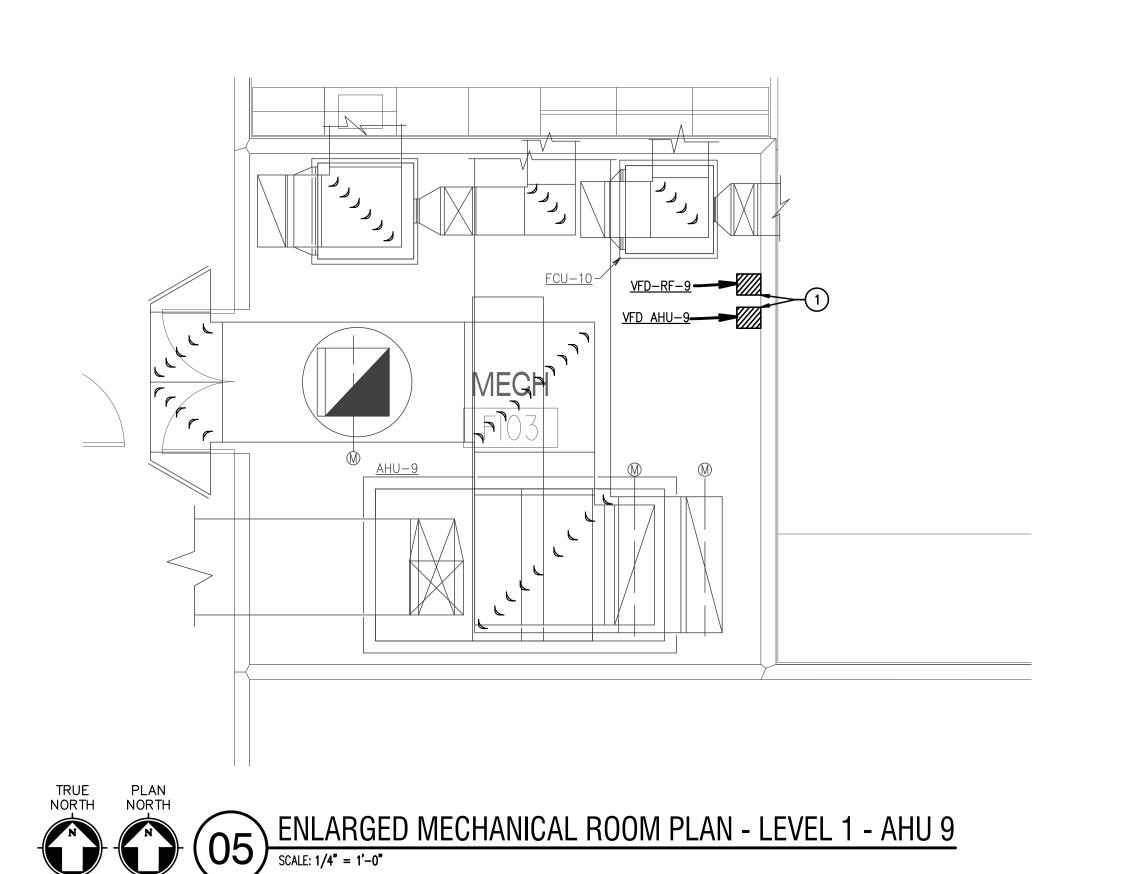
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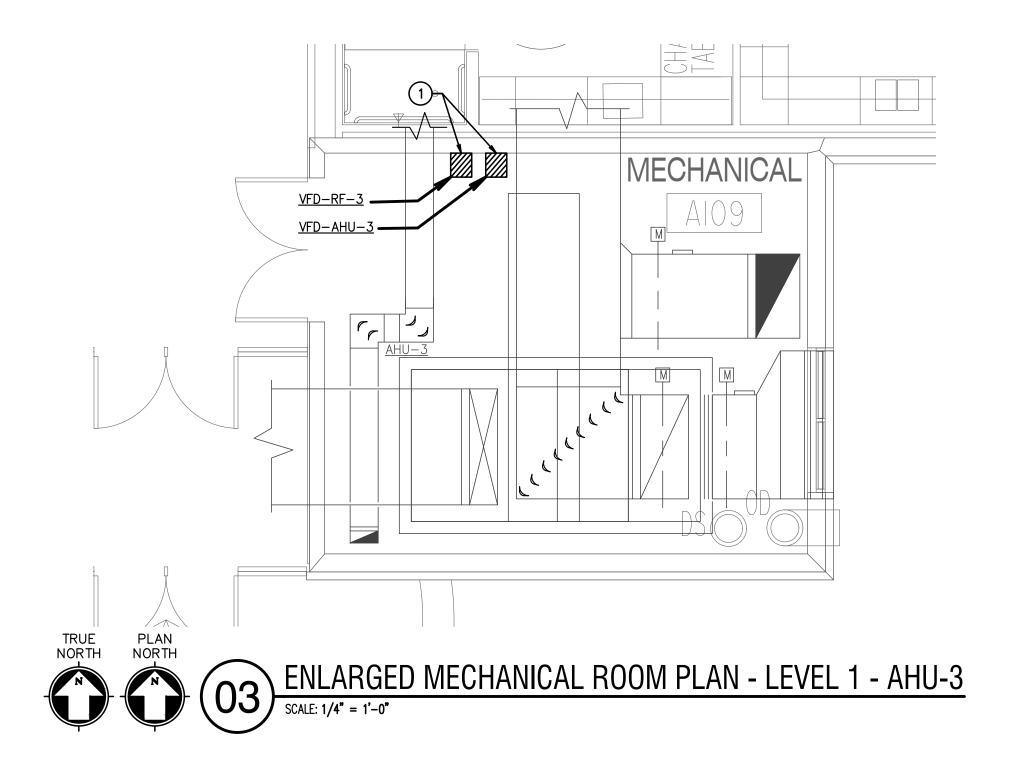
MP1.01











GENERAL MECHANICAL NOTES:

- 1. RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1½" THICK ACOUSTICAL AND THERMAL LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0" TO MEET THE 2018 IECC REQUIREMENTS. RECTANGULAR RETURN DUCT SHALL BE LINED WITH 1" LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0". ALL TRANSFER AIR DUCTS TO BE INTERNALLY LINED WITH 1" LINER. DUCTWORK SIZES SHOWN ARE NET INTERNAL AIR STREAM DIMENSIONS. SHEET METAL SIZES ARE TO BE INCREASED IN SIZE TO MAINTAIN THESE INTERNAL CLEAR DIMENSIONS. ROUND DUCTWORK IS TO BE EXTERNALLY WRAPPED. FLEXIBLE ROUND DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.0.
- 2. BRANCH RUN-OUTS TO CEILING MOUNTED AIR DEVICES SHALL BE SAME SIZE AS NECK, UNLESS NOTED OTHERWISE. PROVIDE A TWIST-IN FLARED TAP WITH MANUAL VOLUME DAMPER AT MAIN DUCT TAP, AND EXTEND AS SHOWN. EXTEND FLEXIBLE DUCTWORK A MAXIMUM OF 5'-0" FROM DIFFUSERS, INSTALL STRAIGHT AS POSSIBLE WITH LONG RADIUS BENDS WITH CLAMPS TO BE USED AT BOTH ENDS.
- 3. ALL DUCTWORK AND PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS AS HIGH AS POSSIBLE & CONCEALED IN WALLS, CHASES, OR FURROUTS IN GENERAL LOCATIONS SHOWN, UNLESS NOTED OTHERWISE.
- 4. LOCATE CEILING MOUNTED AIR DEVICES APPROXIMATELY WHERE SHOWN. VERIFY EXISTING CEILING TYPES TO CONFIRM FRAME MOUNTING TYPES REQUIRED. ALL CEILING DIFFUSERS TO BE FOUR-WAY TYPE UNLESS NOTED OTHERWISE BY AIR FLOW ARROWS ON FLOOR
- 5. EXISTING AND NEW DIFFUSERS FOR ALL DUCTWORK CONNECTED TO UNITS REPLACED OR ADDED TO BE BALANCED TO NEW AIRFLOW VALUES SHOWN. TAB FIRM CONTRACTED DIRECTLY WITH OWNER.
- 6. WHERE EXISTING DUCTWORK IS REMOVED AND NOT REUSED, INSTALL INSULATED CAPS AND SEAL AIR TIGHT.
- 7. REMOVE EXISTING CEILING GRID AND TILE AS NEEDED TO REMOVE EXISTING AND INSTALL NEW DUCTWORK, PIPING, AND UNITS. REUSE EXISTING CEILING TILE AND GRID WHERE POSSIBLE. STORE AND STACK EXISTING TILE FOR REUSE AND PROTECT. WHERE NEW CEILING TILE IS REQUIRED, IT SHALL BE ALL NEW THROUGH THE ROOM. DO NOT MIX NEW AND EXISTING CEILING TILE IN THE SAME SPACE. ALL NEW CEILING HEIGHTS TO MATCH EXISTING CEILING HEIGHTS. ANY CEILINGS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH PRODUCTS AND MATERIALS THAT MATCH EXISTING.
- 8. EXISTING LIGHTS TO BE REUSED AND REMAIN IN PLACE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING REMOVAL.
- 9. WHERE ITEMS ARE REMOVED PATCH WALLS, CEILING, OR FLOOR AS APPLICABLE TO MATCH EXISTING FINISHES.
- 10. EXISTING SECURITY SYSTEM AND DEVICES TO REMAIN IN PLACE AND ACTIVE DURING CONSTRUCTION. ANY DEVICES IN CEILINGS TO BE REMOVED AND REPLACED TO BE
- 11. CLEAN ALL EXISTING REUSED SUPPLY, RETURN, AND EXHAUST AIR GRILLES FREE OF ALL DUST AND DEBRIS. PAINT ALL EXISTING SUPPLY AND RETURN AIR GRILLES WHERE SIGNS

TEMPORARILY SUPPORTED. ALL SECURITY SCOPE OF WORK TO BE CONTRACTED WITH SAS.

- OF RUST ARE NOTED ON EXISTING GRILLES TO MATCH EXISTING COLOR OF GRILLE. 12. NEW TEMPERATURE SENSOR TO BE INSTALLED WHERE OLD SENSOR WAS REMOVED, WHEN IN COMPLIANCE WITH ADA HEIGHT REQUIREMENTS. WHEN NOT IN COMPLIANCE PROVIDE NEW SENSOR AT ADA HEIGHT AND PROVIDE STAINLESS STEEL COVER PLATE OVER EXISTING WALL OPENING. RE—USE EXISTING PATCH DEPOIL REPORTS AND PROVIDE AND REPORTS.
- TO ROOF. PATCH, REPAIR AND PAINT WALL AS NEEDED. 13. PROVIDE FLOOR PROTECTION IN ALL AREAS OF THE DEMOLITION AND NEW WORK THROUGHOUT BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE
- FULL WIDTH OF CORRIDOR AND STAIRWELL TO BE RAM BOARD OR EQUAL TYPE FLOOR

ALTERNATE NOTES BY SYMBOL ' ():

1) NEW VFD IN PLACE OF EXISTING. PATCH, REPAIR, AND PAINT WALL TO MATCH EXISTING AS NEEDED AFTER NEW VFD INSTALLATION.





2024.07.03

ISSUES

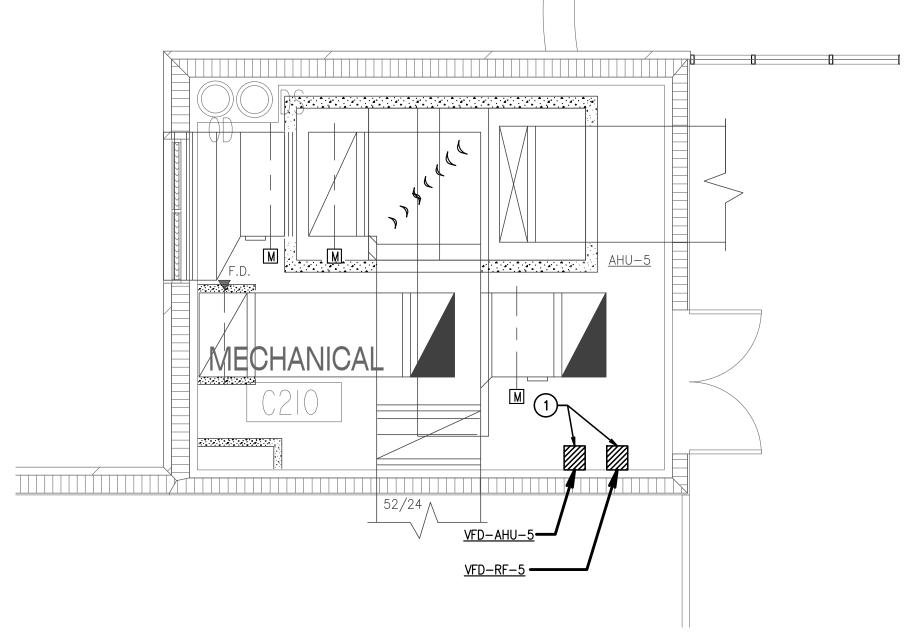
REVISIONS



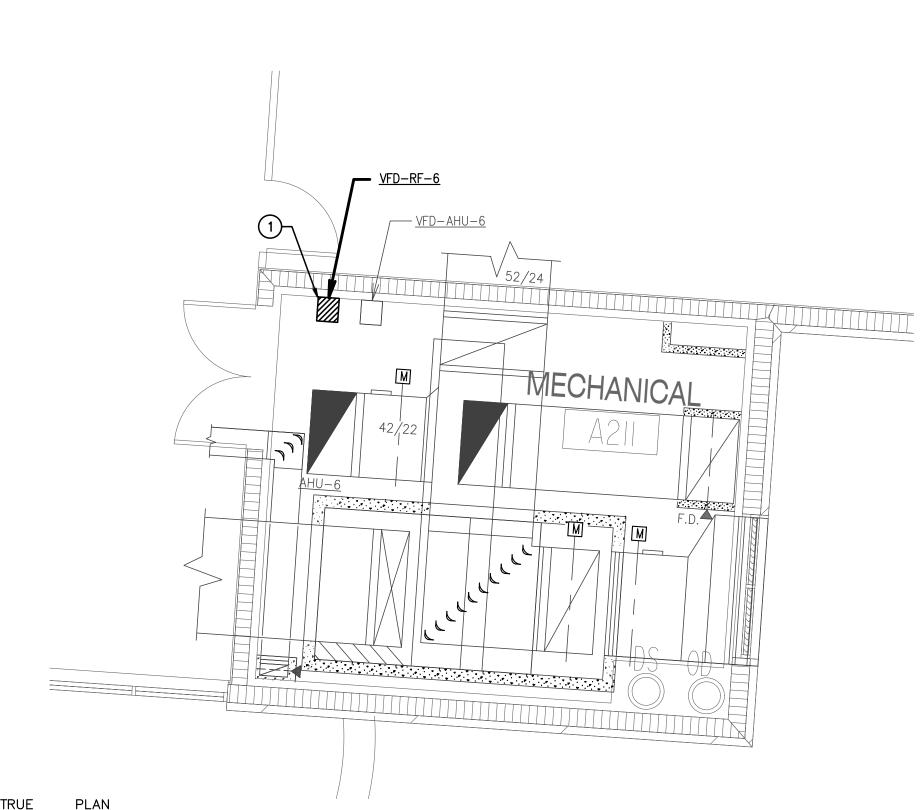


ENLARGED FLOOR PLANS - LEVEL 1 -HVAC

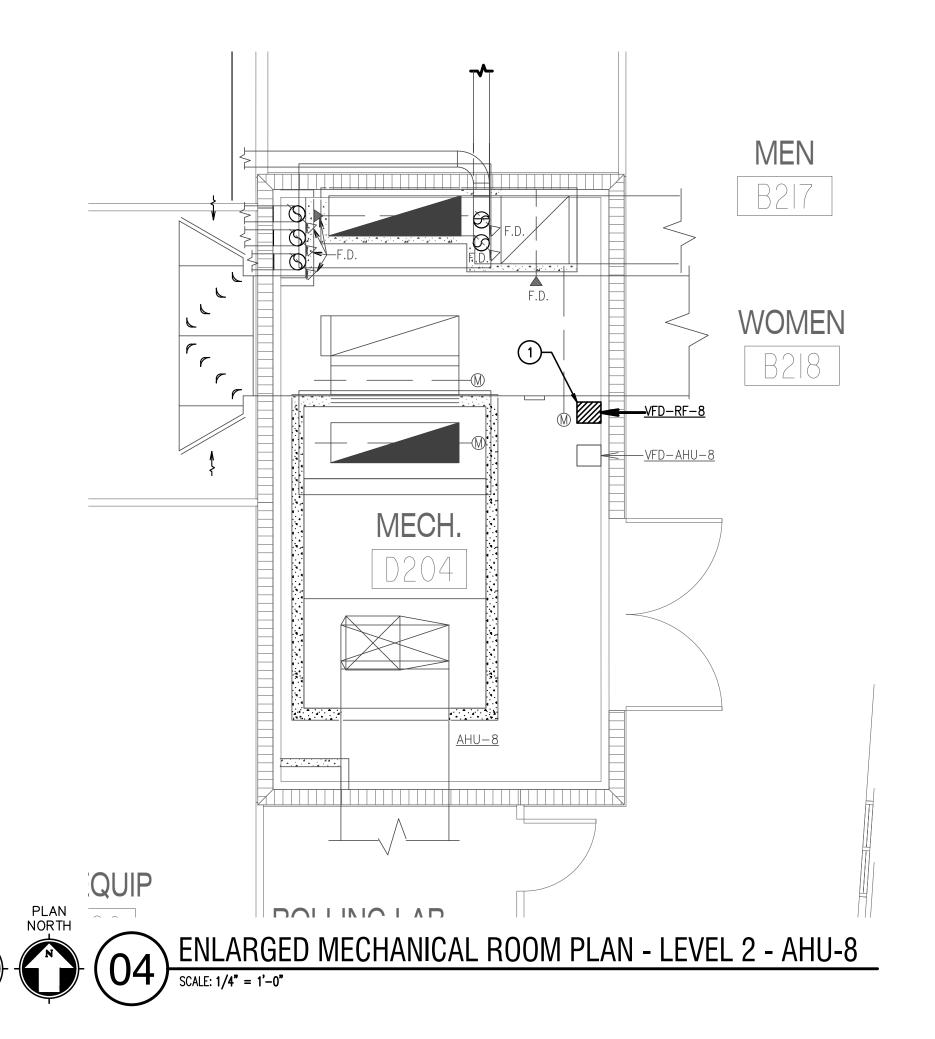
JOB NO.: 24040-00 DRAWN BY: BM CHECKED BY: HV







ENLARGED MECHANICAL ROOM PLAN - LEVEL 2 - AHU-6





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- 11. CLEAN ALL EXISTING REUSED SUPPLY, RETURN, AND EXHAUST AIR GRILLES FREE OF ALL DUST AND DEBRIS. PAINT ALL EXISTING SUPPLY AND RETURN AIR GRILLES WHERE SIGNS OF RUST ARE NOTED ON EXISTING GRILLES TO MATCH

CEILINGS TO BE REMOVED AND REPLACED TO BE TEMPORARILY SUPPORTED. ALL SECURITY SCOPE OF WORK TO BE

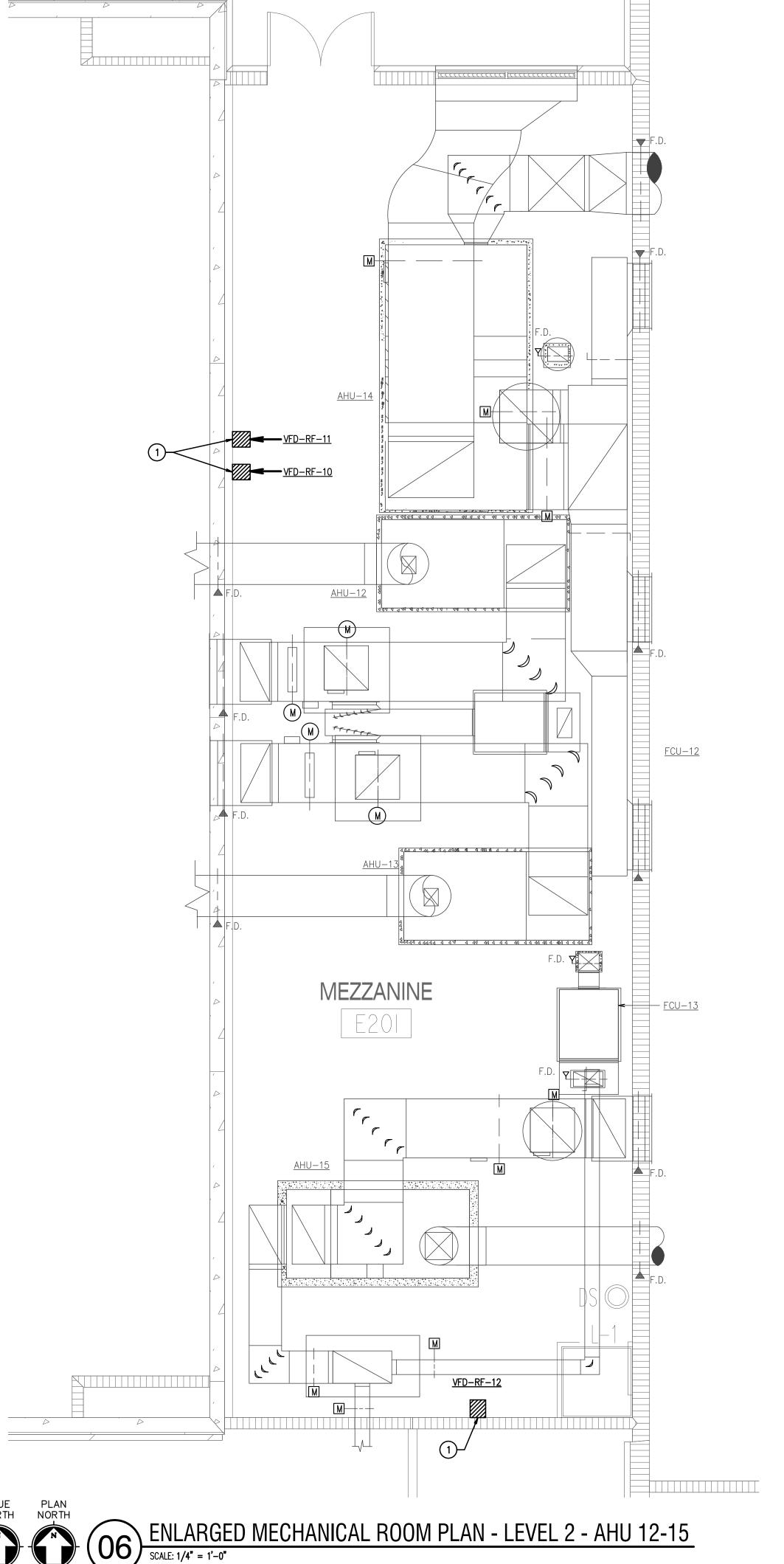
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STEEL COVER PLATE OVER EXISTING WALL OPENING. RE-USE EXISTING WIRING PATHWAY TO ACCESSIBLE CEILING, UP TO

13. PROVIDE FLOOR PROTECTION IN ALL AREAS OF THE DEMOLITION AND NEW WORK THROUGHOUT BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND STAIRWELL TO BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

ALTERNATE NOTES BY SYMBOL ' O':

1 NEW VFD IN PLACE OF EXISTING. PATCH, REPAIR, AND PAINT WALL TO MATCH EXISTING AS NEEDED AFTER NEW VFD INSTALLATION.



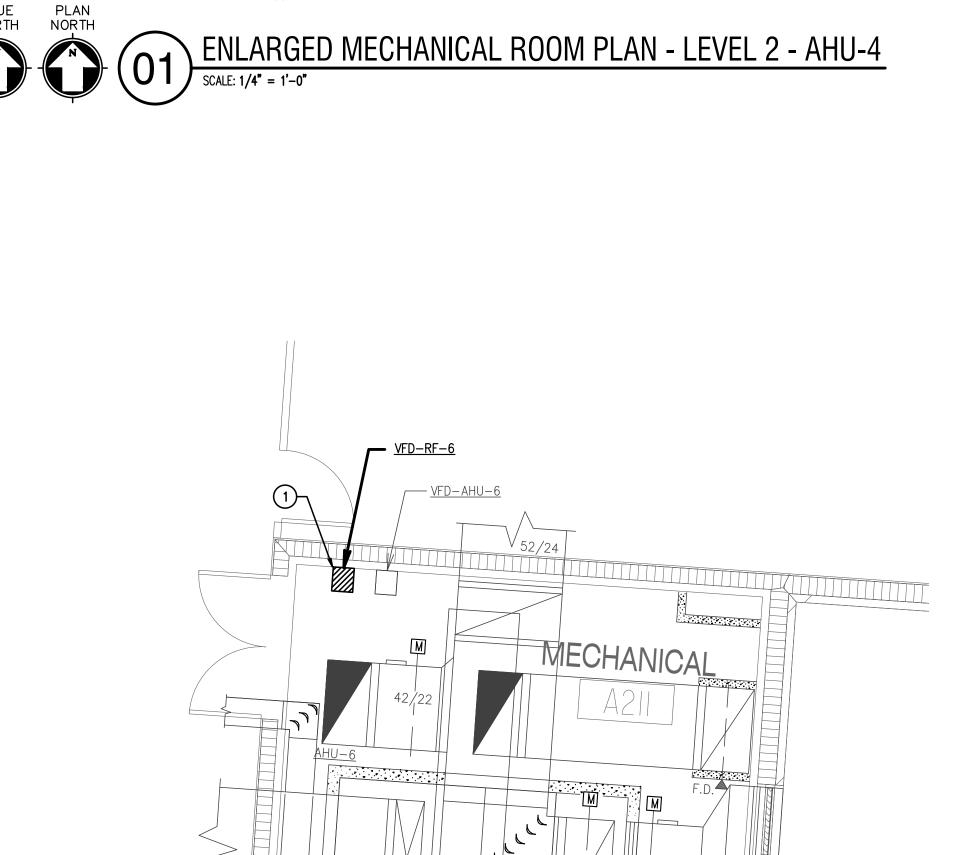
ENLARGED FLOOR PLANS - LEVEL 2 -HVAC

2024.07.03

REVISIONS

JOB NO.: 24040-00 DRAWN BY: BM

SHEET NO.



CONTRACTED WITH SAS.

ROOF. PATCH, REPAIR AND PAINT WALL AS NEEDED.

CHECKED BY: HV

NEW AIR SEPARATOR TO BE INSTALLED.

2 NEW CENTRIFUGAL CHILLER TO BE INSTALLED.

ISSUES

REVISIONS

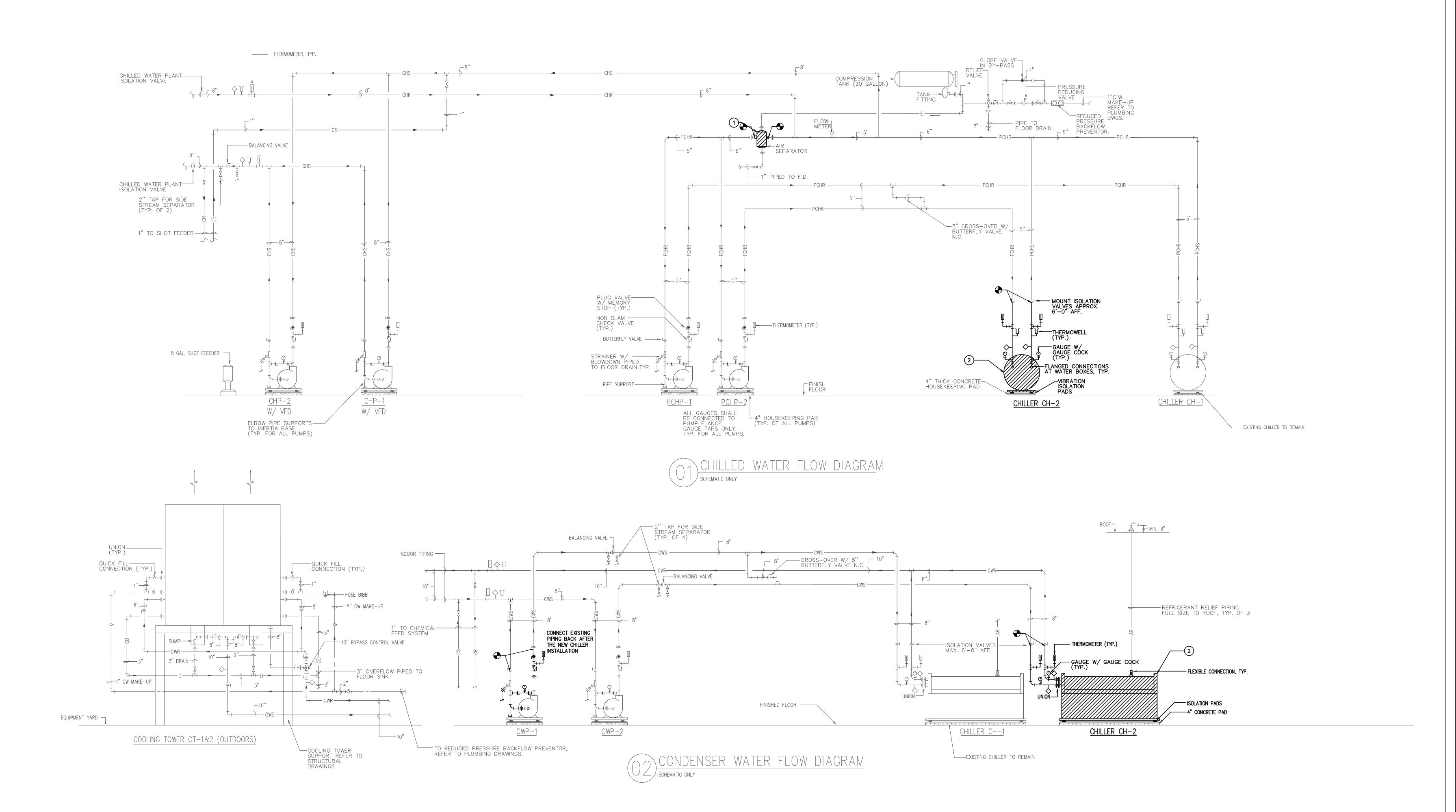


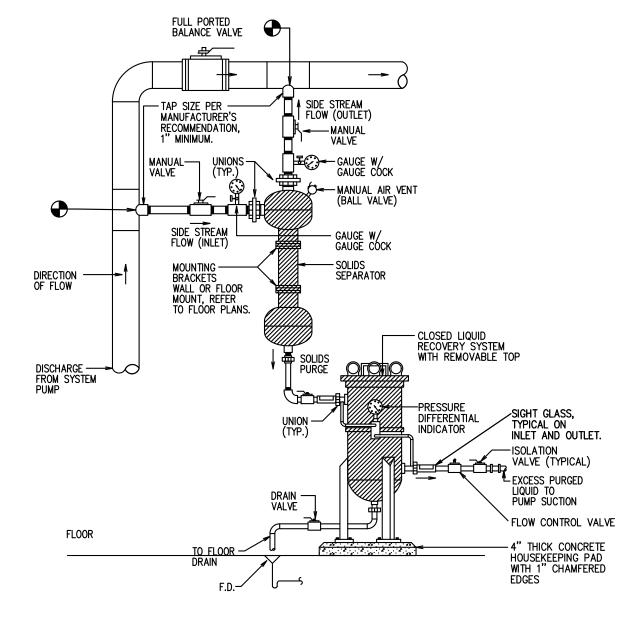




HYDRONIC FLOW DIAGRAMS - HVAC

JOB NO.: 24040-00 DRAWN BY: BM CHECKED BY: HV





STEM DETAIL

	FULL PORTED BALANCE VALVE	<u> </u>		
	TAP SIZE PER MANUFACTURER'S RECOMMENDATION, 1" MINIMUM. MANUAL— UNIONS—	A SIDE STREAM FLOW (OUTLET) MANUAL VALVE GAUGE W/		
•	VALVE (TYP.)	GAUGE CÖCK MANUAL AIR VEN (BALL VALVE)	т	
DIRECTION ————————————————————————————————————	SIDE STREAM L FLOW (INLET) MOUNTING — BRACKETS WALL OR FLOOR MOUNT, REFER TO FLOOR PLANS.	GAUGE W/ GAUGE COCK SOLIDS SEPARATOR		
DISCHARGE FROM SYSTEM PUMP		SOLIDS PURGE OF TOTAL	- CLOSED LIQUID RECOVERY SYSTEM WITH REMOVABLE TOP	5
	UNI (TY	ON _	INDICATOR IN	IGHT GLASS, YPICAL ON ILET AND OUTLET. SOLATION 'ALVE (TYPICAL) XCESS PURGED
FLOOR	DRAIN DRAIN		FL 4'	ACESS FORCED QUID TO UMP SUCTION LOW CONTROL VALVE "THICK CONCRETE OUSEKEEPING PAD ITH 1" CHAMFERED
	F.D	5 A N D J J Q J J J	EC	OGES
SIREAMS ot to scale	SEPARATOR A	AND LIQUI	D RECOV	ERY SYST

VFD SCHE	EDULE — AIR HAN	IDLING UNITS						
	DESIGNATION	VFD-AHU-1	VFD-AHU-2	VFD-AHU-3	VFD-AHU-4	VFD-AHU-5	VFD-AHU-7	VFD-AHU-9
	EQUIPMENT SERVED	AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	AHU-7	AHU-9
DATA GENERAL	LOCATION	MECH B110	MECH C210	MECH A109	MECH B210	MECH A210	MECH D104	MECH F103
	MODEL	ACH580-VCR-014A-4						
	MANUFACTURER	ABB						
								•
	POWER (HP)	10.0	10.0	10.0	10.0	10.0	10.0	10.0
EQUIPMENT SERVED DATA	VOLTS/Ph/Hz	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60
								1
REMARKS		1	1	1	1	1	1	1

	DESIGNATION	VFD-RF-1	VFD-RF-2	VFD-RF-3	VFD-RF-4	VFD-RF-5	VFD-RF-6	VFD-RF-7	VFD-RF-8	VFD-RF-9	VFD-RF-10	VFD-RF-11	VFD-RF-12
	EQUIPMENT SERVED	RF-1	RF-2	RF-3	RF-4	RF-5	RF-6	RF-7	RF-8	RF-9	RF-10	RF-11	RF-12
DATA GENERAL	LOCATION	MECH B110	MECH C210	MECH A109	MECH B210	MECH A210	MECH A211	MECH D104	MCH D204	MECH F103	MEZZANINE E201	MEZZANINE E201	MEZZANINE E201
	MODEL	ACH580-VCR-03A5-4	ACH580-VCR-04A8-4	ACH580-VCR-03A5-4	ACH580-VCR-04A8-4	ACH580-VCR-07A6-4	ACH580-VCR-02A1-4						
	MANUFACTURER	ABB											
	T , ,		<u> </u>	T	T	1	T	T	T	T	T	T	T
EQUIPMENT	POWER (HP)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	2.0	3.0	5.0	1.0
SERVED DATA	VOLTS/Ph/Hz	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60

VFD SCH	EDULE -HYDRONIC	PUMPS		
	DESIGNATION	VFD-CHP-1	VFD-HWP-1	VFD-HWP-2
_1	EQUIPMENT SERVED	CHP-1	HWP-1	HWP-2
GENERAL	LOCATION	CENTRAL PLANT F122	CENTRAL PLANT F122	CENTRAL PLANT F122
DATA	MODEL	ACH580-VCR-044A-4	ACH580-VCR-027A-4	ACH580-VCR-027A-4
	MANUFACTURER	ABB	ABB	ABB
		<u>'</u>		
PM /ED	POWER (HP)	30.0	20.0	20.0
EQUIPM ENT SERVED DATA	VOLTS/Ph/Hz	460/3/60	460/3/60	460/3/60
REMARKS		1	1	1
1. PROVIDE VFD	WITH MANUFACTURER FURNISHED SE	ERVICE SWITCH.		

1. PROVIDE VFD WITH MANUFACTURER FURNISHED SERVICE SWITCH.

VFD SCHED	OULE -COOLING TOW	ER FANS	
	DESIGNATION	VFD-CT-1	VFD-CT-2
	EQUIPMENT SERVED	CT-1 FAN MOTOR	CT-2 FAN MOTOR
DATA GENERAL	LOCATION	COOLING TOWER YARD	COOLING TOWER YARD
	MODEL	ACH580-VCR-014A-4	ACH580-VCR-014A-4
	MANUFACTURER	ABB	ABB
EQUIPMENT SERVED	POWER (HP)	10.0	10.0
DATA	VOLTS/Ph/Hz	460/3/60	460/3/60
REMARKS		1, 2, 3	1, 2, 3
l .	H MANUFACTURER FURNISHED SERVICE S EMA 3R CONSTRUCTION RATED FOR OUT ELD FOR VFD.		

CENTRIFUGAL SEPA	RATOR SCHEDULE
DESIGNATION	S-2 & S-3
SERVES	CONDENSER WATER
MANUFACTURER	PUROFLUX
MODEL	PF-61-020
GPM	70.5
MAX. PRESSURE DROP (PSI)	4
INLET SIZE	2"
OUTLET SIZE	2"
REMARKS	W/ CLOSED RECOVERY SYSTEM

DESIGNATION	A-1
LOCATION	CENTRAL PLANT
SERVICE	CHILLED WATER
ORIENTATION	VERTICAL
TYPE	BLADDER
SYSTEM FLOW, GPM	353
WEIGHT, LBS	570
MAXIMUM WATER PRESSURE DROP, FT	0.4
MANUFACTURER	BELL & GOSSETT
MODEL	RL-6F
COMMENTS	

	DESIGNATION	CH-2
	LOCATION	CENTRAL PLANT
	SERVICE	CHILLED WATER
	TYPE	CENTRIFUGAL
	REFRIGERANT	R-513A
	NOMINAL CAPACITY, TONS	235
NERAL	AMBIENT AIR TEMPERARURE, DEG. F.	105
	EFFICIENCY AT FULL LOAD, KW/TON	0.6291
	EFICIENCY AT PART LOAD, KW/TON	0.4199
	MINIMUM UNLOADING, %	25
	MANUFACTURER	YORK
	MODEL	YKAFAGQ3_EHF
	WEIGHT, LBS	13,460
VAPORATOR DATA	GPM	351.6
	E.W.T., DEG. F.	60.0
	L.W.T., DEG. F.	44.0
	MAX W.P.D, FT.	6.61
	GPM	705.0
NECLOSED DATA	E.W.T., DEG. F.	85.0
NDENSER DATA	L.W.T., DEG. F.	94.4
	MAX W.P.D, FT.	16.1
	VOLTAGE	460
	PHASE	3
ECTRICAL DATA	FREQUENCY, HZ	60
	M.C.A.	258
	M.O.C.P.	450
	· · · · · · · · · · · · · · · · · · ·	
MMENTS		

DOMESTIC HOT WATER RETURN
DOMESTIC HOT WATER RETURN
DOMESTIC COLD WATER
REFRIGERANT SUCTION
REFRIGERANT LIQUID
CONDENSATE DRAIN
AUXILIARY DRAIN LINE
DRAIN LINE
EXPANSION LINE
CHEMICAL SUPPLY
CHEMICAL RETURN
FLOW IN DIRECTION OF ARROW
SLOPE DOWN IN DIRECTION OF ARROW
RISE AND DROP IN PIPIING
STRAINER WITH BLOWDOWN VALVE
GATE VALVE
BUTTERFLY VALVE
UNION
BALL VALVE
PLUG VALVE
CHECK VALVE
FLOW SWITCH
ALITOMATIC Z WAY CONTROL VALVE
AUTOMATIC 3-WAY CONTROL VALVE
AUTOMATIC 2-WAY VALVE
PRESSURE REDUCING VALVE
DDESSLIDE DELIEE VALVE
PRESSURE RELIEF VALVE
GAUGE COCK
PRESSURE GAUGE WITH GAUGE COCK
THERMOMETER
P/T PORT
CAP
CAP
AUTOMATIC AIR VENT
RISE AND DROP IN PIPING
THERMOWELL
_
THEDMOCTAT /TEMPEDATHDE CENCOD
THERMOSTAT/TEMPERATURE SENSOR
THERMOSTAT/TEMPERATURE SENSOR HUMIDITY SENSOR
HUMIDITY SENSOR
·
HUMIDITY SENSOR
HUMIDITY SENSOR CARBON DIOXIDE SENSOR DUCT SMOKE DETECTOR
HUMIDITY SENSOR CARBON DIOXIDE SENSOR
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MECHANICAL/PLUMBING LEGEND

Consulting Engineers

12222 Merit Dr
Suite 400
Dallas, TX 75251

Suite 400
Project 24040.00

2024.07.03

ISSUES

REVISIONS

—— CHS —— CHILLED WATER SUPPLY —— CHR —— CHILLED WATER RETURN

—— CWS —— CONDENSER WATER SUPPLY

—— CWR —— CONDENSER WATER RETURN — DHW — DOMESTIC HOT WATER SUPPLY

NOTE: NOT ALL SYMBOLS ARE USED

DETAILS, SCHEDULES, & LEGEND -MECHANICAL

JOB NO.: 24040-00 DRAWN BY: BM CHECKED BY: HV



1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK THAT WILL BE REQUIRED. CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME INFORMED AS TO THE RELATION TO, AND EFFECT ON, THE WORK REQUIRED BEFORE SUBMITTING A BID. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.

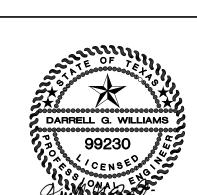
- 2. EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS
- DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE. 3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT WILL AFFECT OTHER SYSTEMS WITHIN THE LIMIT OF NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING. THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION; AND, THEREFORE, UTILITIES MUST REMAIN IN OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
- 4. PRIOR TO THE REMOVAL OF ANY MPE ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS).
- 5. CONTRACTOR SHALL CONTACT CONTROLS SYSTEM INSTALLER BEFORE ANY DEMOLITION WORK IS STARTED TO ALLOW THEM TO TAG & IDENTIFY ITEMS TO REMAIN AND BE PROTECTED AND ITEMS TO BE REMOVED. THE CONTROLS SYSTEM INSTALLER SHALL COORDINATE WITH THE OWNER FOR ELEMENTS OF THE EXISTING CONTROLS SYSTEM THAT SHALL BE CAREFULLY REMOVED AND GIVEN TO THE OWNER SUCH AS EXISTING TEMPERATURE SENSORS THAT WILL NOT BE RE-USED. ALL EXISTING TEMPERATURE ONLY SENSORS SERVING EXISTING RTUS SHALL BE CAREFULLY REMOVED, SHRINK WRAPPED, PALLETIZED, AND PROVIDED TO OWNER FOR THEIR USE.
- 6. DO NOT ABANDON ANY ITEMS IN PLACE, REMOVE ALL COMPONENTS ASSOCIATED WITH EACH ITEM CALLED OUT TO BE REMOVED. WHERE ITEMS ARE REMOVED PATCH/REPLACE ROOF, WALLS, CEILING OR FLOOR, AS APPLICABLE, TO MATCH EXISTING FINISHES, WHERE NEW FINISHES ARE CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.
- 7. ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN OPERATION DURING CONSTRUCTION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT
- 8. ALL EXISTING LIGHTS ARE TO BE REUSED AND REMAIN IN PLACE, UNLESS NOTED OTHERWISE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING DEMOLITION.
- 9. THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.
- 10. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS WITH DISTRICT, ALLOWING THE DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.
- 11. PROVIDE FLOOR PROTECTION IN ALL AREAS OF DEMOLITION AND NEW WORK THROUGH OUT THE BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

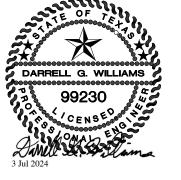
NOTES BY SYMBOL 'O':

- 1) DISCONNECT POWER TO EXISTING REFRIGERANT MONITORING STATION TO BE DEMOLISHED AND REPLACED WITH NEW. PREPARE CIRCUIT FOR REUSE.
- 2 DISCONNECT POWER TO EXISTING CHP-1 VFD TO BE DEMOLISHED AND REPLACED WITH NEW. PREPARE CIRCUIT FOR REUSE.
- (3) EXISTING HWP-1 & HWP-2 VFDS TO BE DEMOLISHED AND REPLACED WITH NEW.
- 4) DISCONNECT POWER TO EXISTING SCREW CHILLER TO BE DEMOLISHED AND REPLACED WITH A NEW CENTRIFUGAL CHILLER. PREPARE CIRCUIT FOR REUSE.
- DISCONNECT POWER TO EXISTING CWP-1 TO BE REMOVED TO ALLOW FOR THE REMOVAL OF THE EXISTING CHILLER AND THE INSTALLATION OF THE NEW CHILLER. PREPARE CIRCUIT FOR RECONNECTION.



Suite 400 Dallas, TX 75251

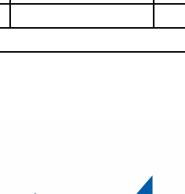




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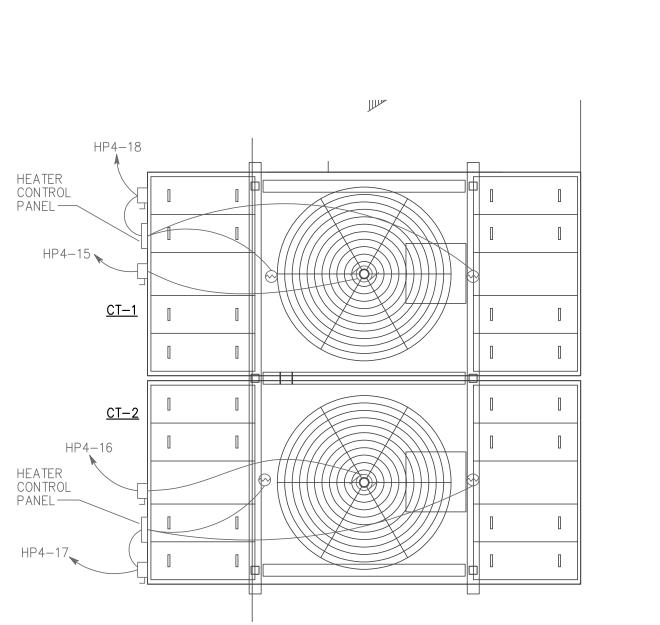
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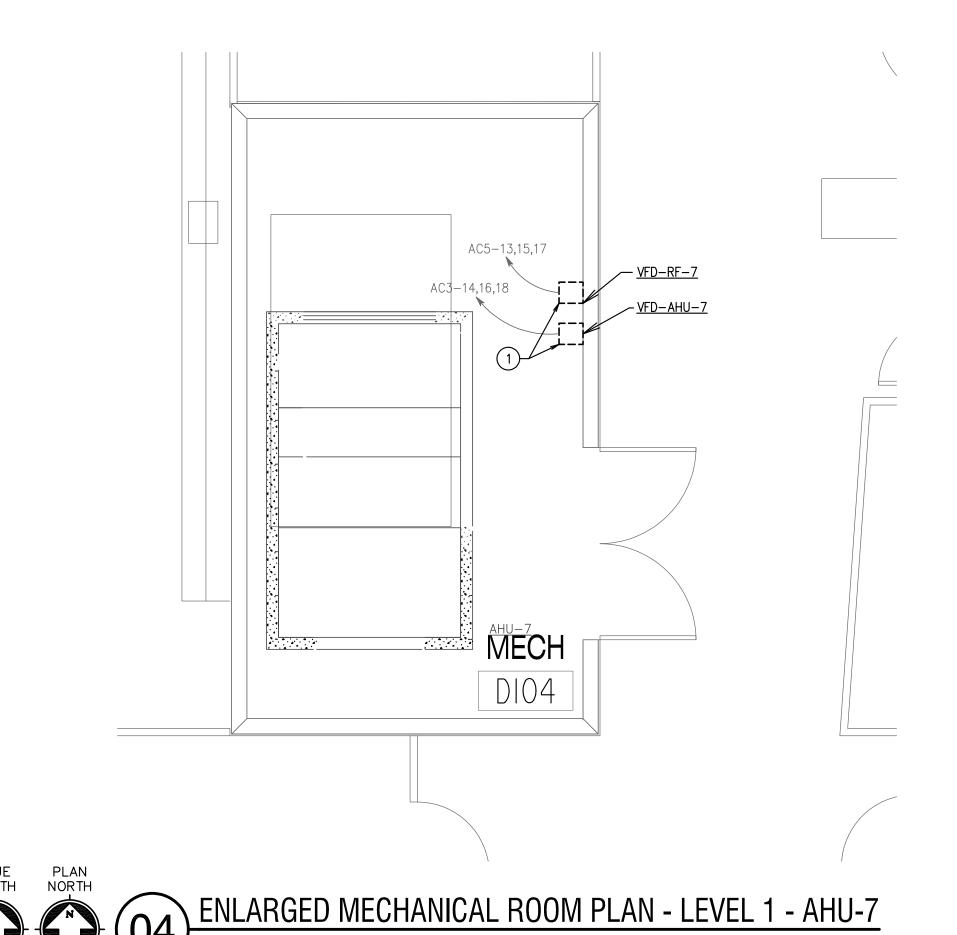
DEMOLITION FLOOR PLAN - CENTRAL UTILITY PLANT -ELECTRICAL

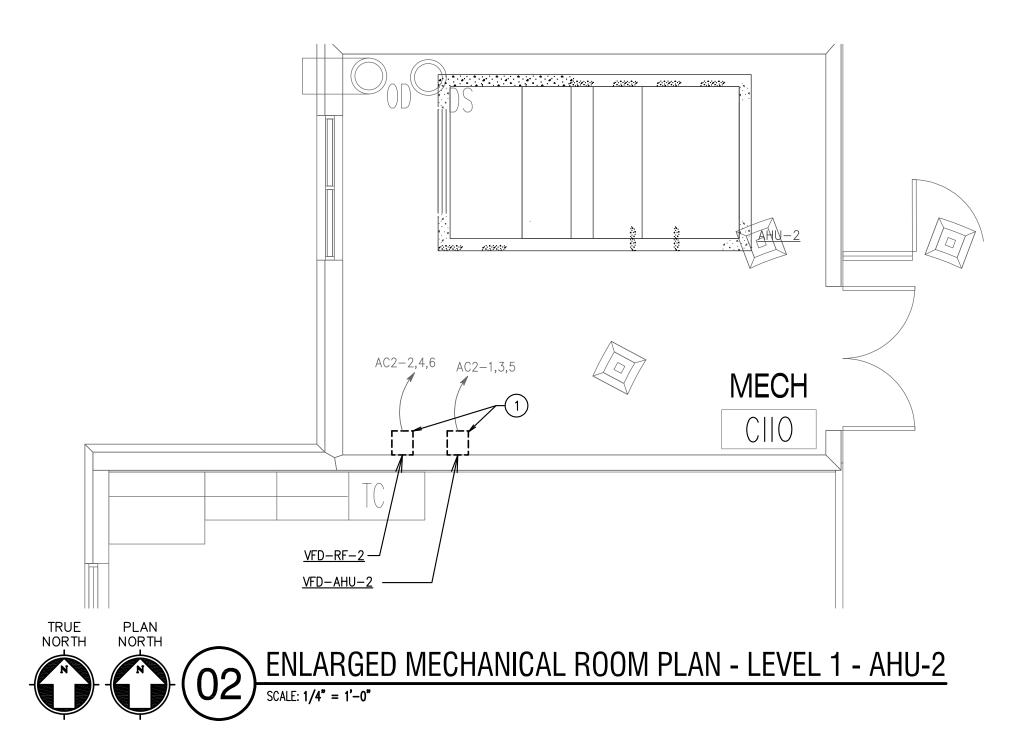
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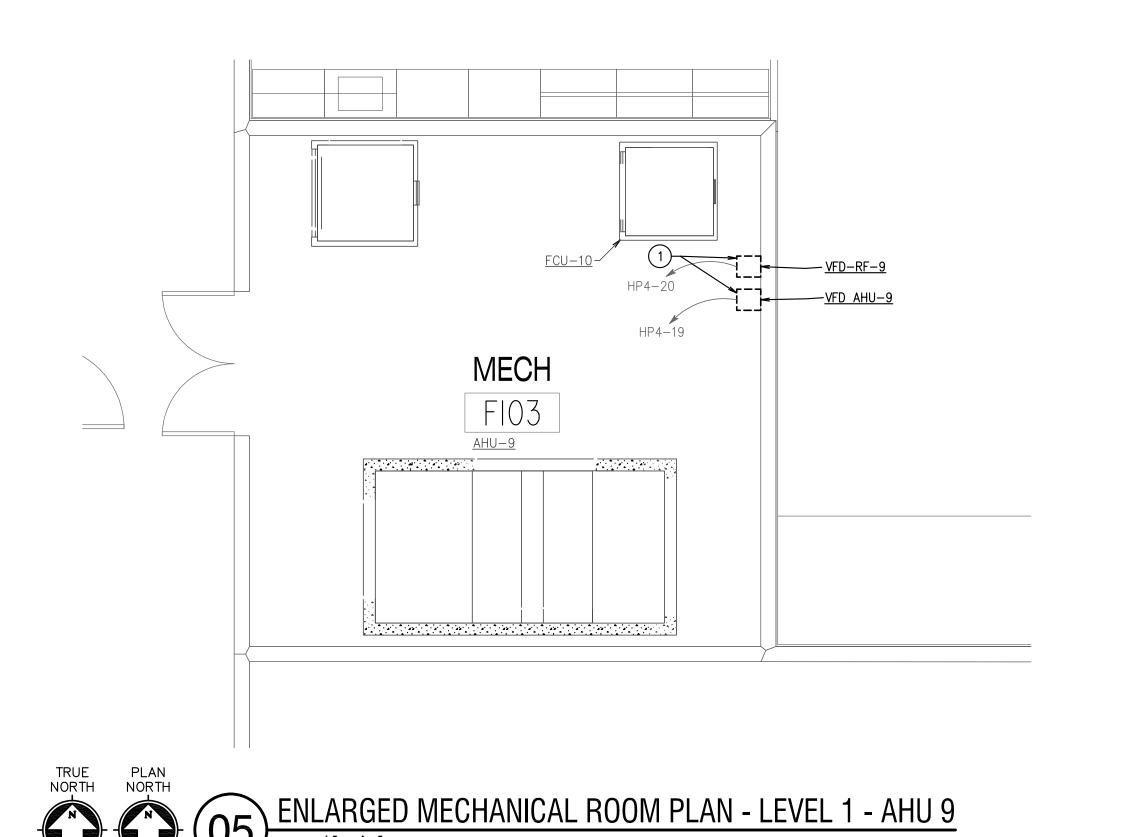
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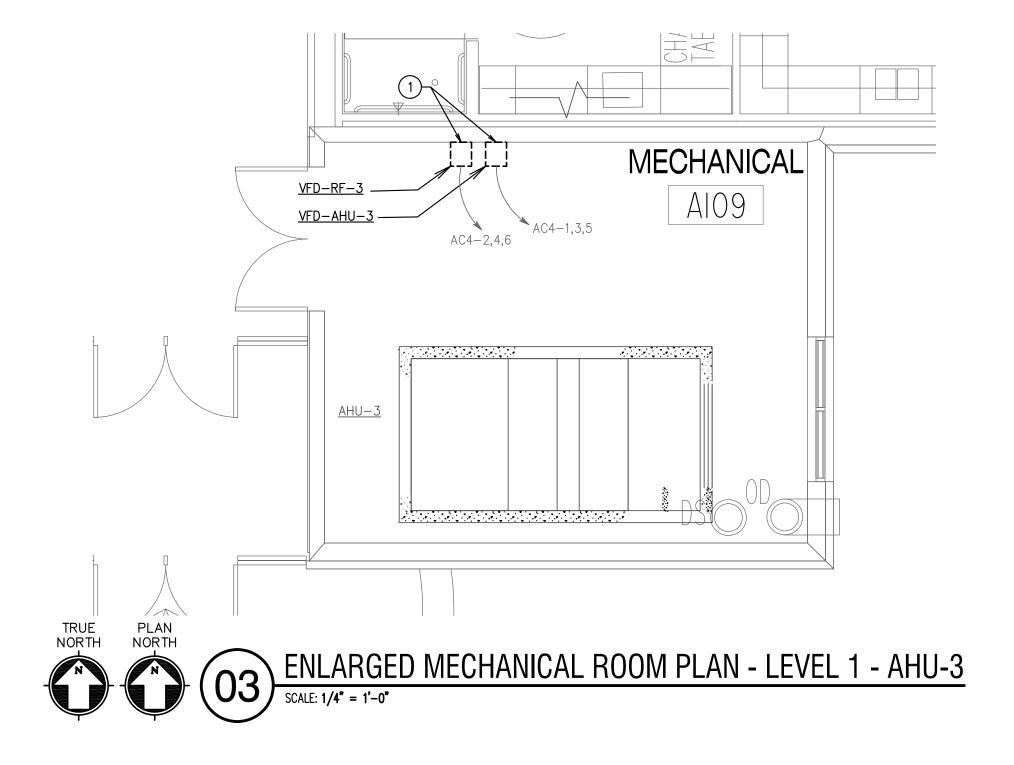










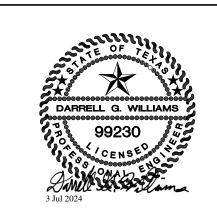


- 1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK THAT WILL BE REQUIRED. CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME INFORMED AS TO THE RELATION TO, AND EFFECT ON, THE WORK REQUIRED BEFORE SUBMITTING A BID. THE SITE OF THE PROPOSED WORK INSPECTED THE SITE OF THE PROPOSED WORK.
- 2. EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
- 3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT WILL AFFECT OTHER SYSTEMS WITHIN THE LIMIT OF NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING. THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION; AND, THEREFORE, UTILITIES MUST REMAIN IN OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
- 4. PRIOR TO THE REMOVAL OF ANY MPE ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE
- 5. CONTRACTOR SHALL CONTACT CONTROLS SYSTEM INSTALLER BEFORE ANY DEMOLITION WORK IS STARTED TO ALLOW THEM TO TAG & IDENTIFY ITEMS TO REMAIN AND BE PROTECTED AND ITEMS TO BE REMOVED. THE CONTROLS SYSTEM INSTALLER SHALL COORDINATE WITH THE OWNER FOR ELEMENTS OF THE EXISTING CONTROLS SYSTEM THAT SHALL BE CAREFULLY REMOVED AND GIVEN TO THE OWNER SUCH AS EXISTING TEMPERATURE SENSORS THAT WILL NOT BE RE-USED. ALL EXISTING TEMPERATURE ONLY SENSORS SERVING EXISTING RTUS SHALL BE CAREFULLY REMOVED, SHRINK WRAPPED, PALLETIZED, AND PROVIDED TO OWNER FOR THEIR USE.
- 6. DO NOT ABANDON ANY ITEMS IN PLACE, REMOVE ALL COMPONENTS ASSOCIATED WITH EACH ITEM CALLED OUT TO BE REMOVED. WHERE ITEMS ARE REMOVED PATCH/REPLACE ROOF, WALLS, CEILING OR FLOOR, AS APPLICABLE, TO MATCH EXISTING FINISHES, WHERE NEW FINISHES ARE CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.
- 7. ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN OPERATION DURING CONSTRUCTION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT
- 8. ALL EXISTING LIGHTS ARE TO BE REUSED AND REMAIN IN PLACE, UNLESS NOTED OTHERWISE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING DEMOLITION.
- 9. THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.
- 10. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS WITH DISTRICT, ALLOWING THE DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.
- 11. PROVIDE FLOOR PROTECTION IN ALL AREAS OF DEMOLITION AND NEW WORK THROUGH OUT THE BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

NOTES BY SYMBOL 'O':

DISCONNECT EXISTING POWER FOR EXISTING VFD TO BE DEMOLISHED AND REPLACED WITH NEW. PREPARE CIRCUIT FOR RECONNECTION.

Consulting Engineers TX Firm #F-2176 (972) 788-4222 Project 24040.00



2024.07.03

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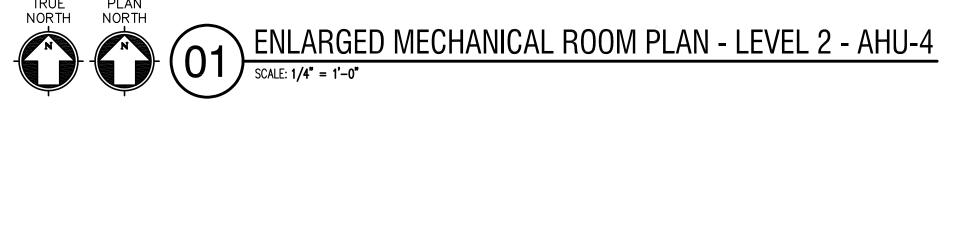
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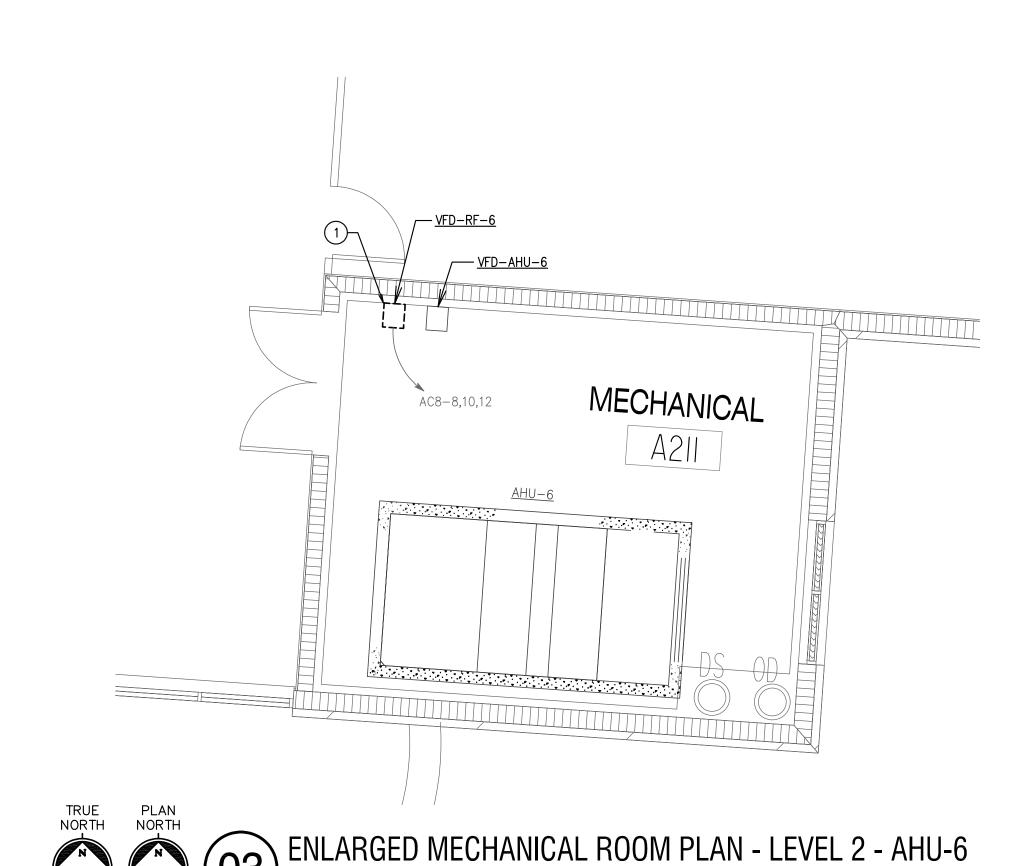




ENLARGED DEMOLITION FLOOR PLANS - LEVEL 1 -ELECTRICAL

JOB NO.: 24040-00 DRAWN BY: BM CHECKED BY: HV





- 1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK THAT WILL BE REQUIRED. CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME INFORMED AS TO THE RELATION TO, AND EFFECT ON, THE WORK REQUIRED BEFORE SUBMITTING A BID. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.
- 2. EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
- 3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT WILL AFFECT OTHER SYSTEMS WITHIN THE LIMIT OF NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING. THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION; AND, THEREFORE, UTILITIES MUST REMAIN IN OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER. 4. PRIOR TO THE REMOVAL OF ANY MPE ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE
- ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE 5. CONTRACTOR SHALL CONTACT CONTROLS SYSTEM INSTALLER BEFORE ANY DEMOLITION WORK IS
- STARTED TO ALLOW THEM TO TAG & IDENTIFY ITEMS TO REMAIN AND BE PROTECTED AND ITEMS TO BE REMOVED. THE CONTROLS SYSTEM INSTALLER SHALL COORDINATE WITH THE OWNER FOR ELEMENTS OF THE EXISTING CONTROLS SYSTEM THAT SHALL BE CAREFULLY REMOVED AND GIVEN TO THE OWNER SUCH AS EXISTING TEMPERATURE SENSORS THAT WILL NOT BE RE-USED. ALL EXISTING TEMPERATURE ONLY SENSORS SERVING EXISTING RTUS SHALL BE CAREFULLY REMOVED, SHRINK WRAPPED, PALLETIZED, AND PROVIDED TO OWNER FOR THEIR USE.
- ITEM CALLED OUT TO BE REMOVED. WHÉRE ITEMS ARE REMOVED PATCH/REPLACE ROOF, WALLS, CEILING OR FLOOR, AS APPLICABLE, TO MATCH EXISTING FINISHES, WHERE NEW FINISHES ARE CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.

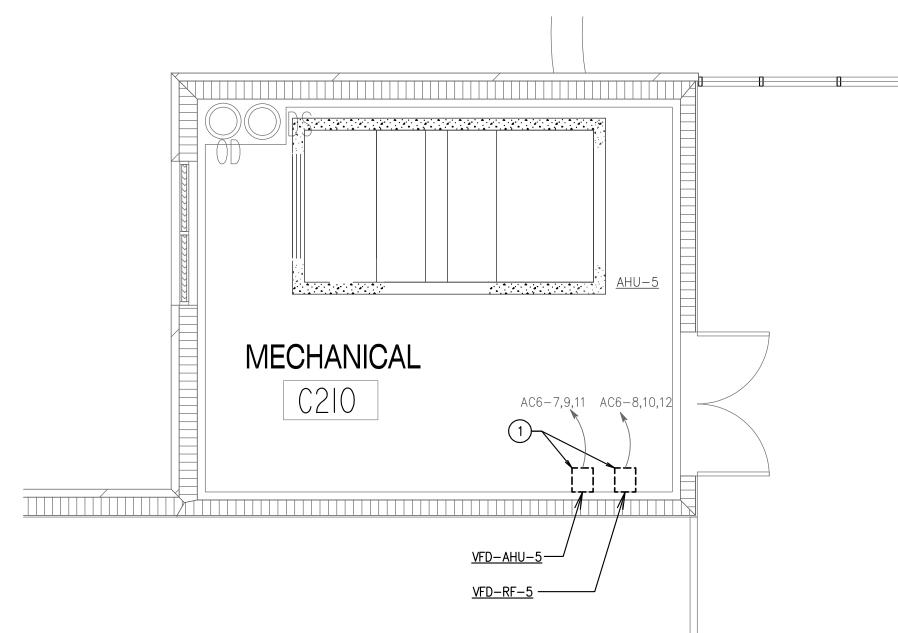
6. DO NOT ABANDON ANY ITEMS IN PLACE, REMOVE ALL COMPONENTS ASSOCIATED WITH EACH

7. ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN OPERATION DURING CONSTRUCTION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT AS NEEDED.

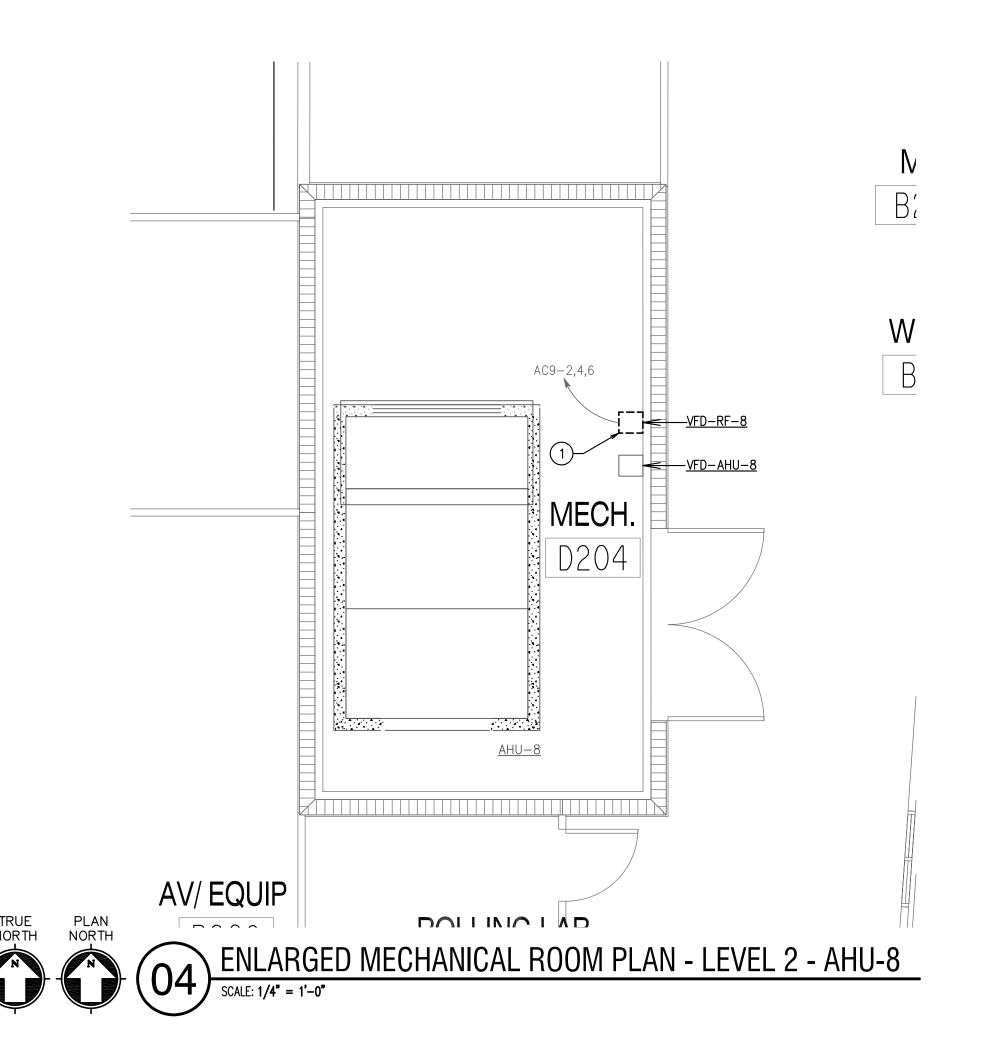
8. ALL EXISTING LIGHTS ARE TO BE REUSED AND REMAIN IN PLACE, UNLESS NOTED OTHERWISE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING DEMOLITION.

UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.

- 9. THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE
- 10. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS WITH DISTRICT, ALLOWING THE DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.
- 11. PROVIDE FLOOR PROTECTION IN ALL AREAS OF DEMOLITION AND NEW WORK THROUGH OUT THE BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

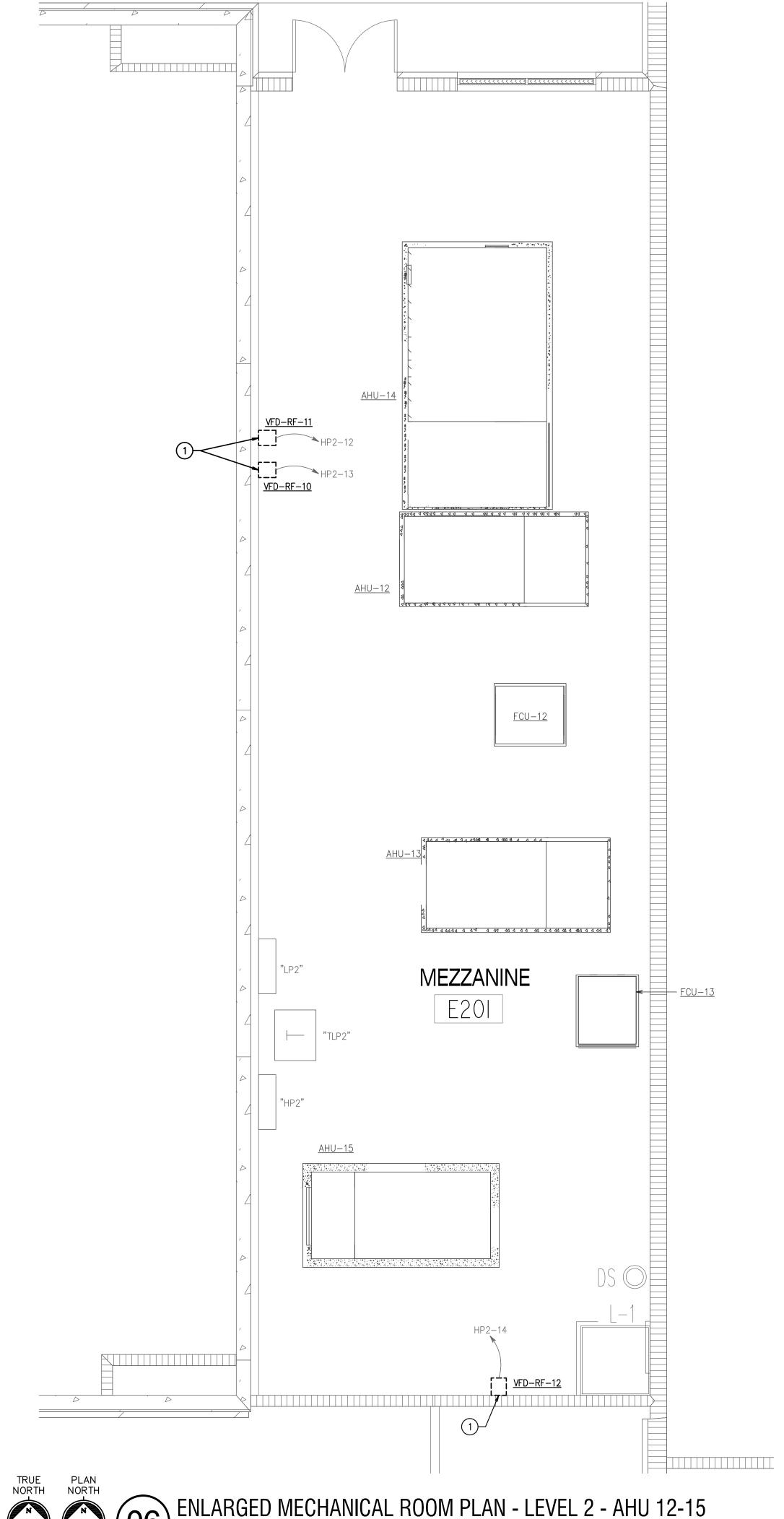






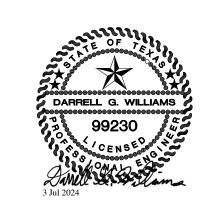
NOTES BY SYMBOL 'O':

DISCONNECT EXISTING POWER FOR EXISTING VFD TO BE DEMOLISHED AND REPLACED WITH NEW. PREPARE CIRCUIT FOR RECONNECTION. ELECTRICAL CONTRACTOR SHALL COORDINATE POWER DISCONNECTION WITH DIVISION 23 CONTRACTOR.









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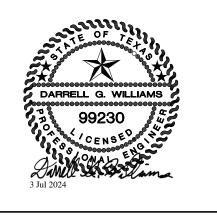
REVISIONS

ENLARGED DEMOLITION FLOOR PLANS - LEVEL 2 -**ELECTRICAL**

JOB NO.: 24040-00 DRAWN BY: BM

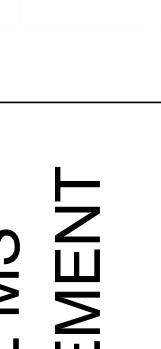
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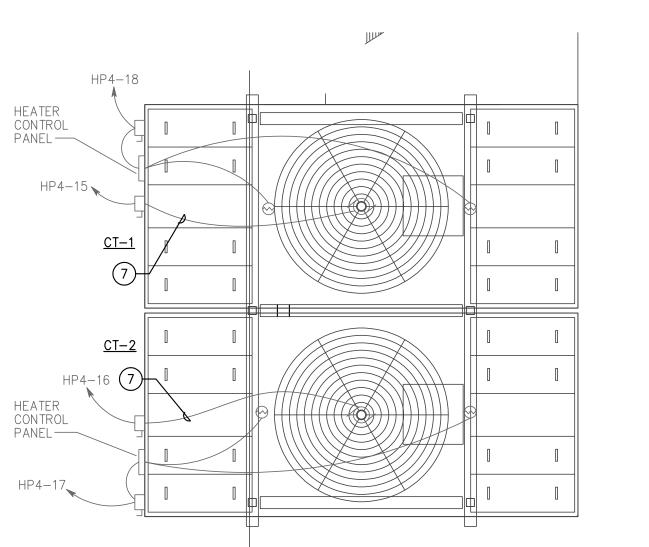


ORIENTATION FLOOR PLAN - LEVEL 1 -ELECTRICAL

JOB NO.: 24040-00 DRAWN BY: BM CHECKED BY: HV

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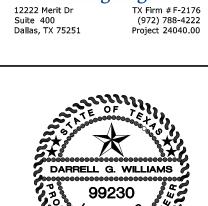
GENERAL POWER NOTES:

- 1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY
- 2. ALL WORK SHALL COMPLY WITH THE BUILDING OWNER'S CONSTRUCTION
- 3. ALL CIRCUITS SHOWN SHALL BE 120V, 20A CIRCUITS UNLESS NOTED
- 4. ALL CONDUCTORS SHALL BE #12 AWG UNLESS NOTED OTHERWISE. 5. ALL 120V RUNS LONGER THAN 60' SHALL BE #10 AWG UNLESS NOTED
- OTHERWISE ON THE PLANS. 6. ALL CONDUCTORS SHALL BE COPPER (#10 AND SMALLER SHALL BE SOLID).
- 7. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT CONDUCTOR SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.
- 8. PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT (EXISTING AND NEW CIRCUITS) IN ALL PANELS WITHIN SCOPE OF WORK. DIRECTORIES SHALL BE TYPEWRÍTTEN.
- 9. REFER TO MECHANICAL FLOOR PLANS FOR WALL MOUNTED THERMOSTAT, SENSOR AND ALL OTHER CONTROL DEVICE LOCATIONS. PROVIDE FLUSH, GALVANIZED STEEL, WALL MOUNTED JUNCTION BOX WITH 3/4" EMT CONDUIT AND NYLON PULL-STRING TO 4" ABOVE ACCESSIBLE CEILING FOR EACH
- 10. ALL RECEPTACLES MOUNTED IN KITCHENS, RESTROOMS, AT COUNTERS CONTAINING SINKS, OUTSIDE THE BUILDING OR SERVING VENDING MACHINES SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER(GFCI) PROTECTION.
- 11. ELECTRIC CONNECTIONS TO PANELBOARDS AND BUS DUCTS SHALL BE MADE ONLY WHEN PANELBOARD OR BUS DUCT HAS BEEN DE-ENERGIZED.
- 12. ALL ELECTRICAL PANELS AND TRANSFORMERS SHALL HAVE PERMANENT ENGRAVED LABELS ON COVER INDICATING PANEL OR TRANSFORMER
- 13. ELECTRICAL CONTRACTOR SHALL X-RAY SLAB PRIOR TO ANY CORE-DRILLING. 14. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ALL MOTOR STARTERS
- AND CONTROL PANEL LOCATIONS. 15. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES, SYMBOLS AND DETAILS.

NOTES BY SYMBOL 'O':

- 1) REUSE EXISTING 120 CIRCUIT POWER FOR NEW REFRIGERANT MONITORING STATION.
- 2 RECONNECT NEW CHP-1 VFD TO EXISTING 480V/3PH, 80A/3P CIRCUIT BREAKER IN EXISTING PANEL "HP4".
- 3 RECONNECT NEW HWP-1 & HWP-2 VFDS TO EXISTING 480V/3PH, 40A/3P CIRCUIT BREAKERS IN PANEL "HP4". TO BE INSTALLED UNDER ALTERNATE SCOPE.
- 4 GFI DUPLEX RECEPTACLE MOUNTED AT 36"AFF FOR NEW EASY WATER SYSTEM CONTROLLER. USE AVAILABLE SPACE IN EXISTING PANEL "LA" AND PROVIDE 20A/1P CIRCUIT BREAKER WITH 2#12,1#12G-3/4"C.
- (5) RECONNECT NEW CENTRIFUGAL CHILLER TO EXISTING 480V/3PH, 450A/3P CIRCUIT BREAKER IN PANEL "HP4". REUSE EXISTING CONDUIT AND WIRE. ADJUST CONDUIT AND WIRE FOR FINAL CONNECTION TO CHILLER.
- (6) RECONNECT EXISTING POWER FOR EXISTING CWP-1 TO BE RE-INSTALLED AFTER THE INSTALLATION OF THE NEW CENTRIFUGAL CHILLER.
- 7) RECONNECT NEW 10HP FAN MOTOR TO EXISTING 480V/3PH, 40A/3P CIRCUIT BREAKER IN EXISTING PANEL "HP4". REUSE EXISTING CONDUIT AND WIRE.
- (8) ELECTRICAL CONTRACTOR SHALL PROVIDE POWER FROM EXISTING 480V/3PH, 40A/3P CIRCUIT BREAKER IN EXISTING PANEL "HP4" TO NEW VFDS FOR COOLING TOWER FAN MOTORS. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO FIELD TRACE ALL EXISTING FEEDERS AND BRANCH CIRCUIT WIRING FOR COOLING TOWER(S) FROM EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT. CONTRACTOR SHALL FIELD DETERMINE THE BEST METHOD TO ACCOMMODATE ANY OBSTRUCTIONS PRIOR TO BID OR ROUGH-IN. REPAIR OF EXISTING CABLES TO REMAIN THAT ARE DAMAGED DURING WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ANY ABANDONED EQUIPMENT, RACEWAYS, AND CONDUCTORS SHALL BE REMOVED IN THEIR ENTIRETY AS REQUIRED BY CODE. THE CONTRACTOR SHALL PROVIDE NEW PULLBOXES, RACEWAYS, AND CONDUCTORS AS REQUIRED TO CONNECT ALL NEW REPLACEMENT HVAC EQUIPMENT, INCLUDING THEIR RESPECTIVE ACCESSORIES, TO EXISTING ELECTRICAL CIRCUITS MADE AVAILABLE BY DEMOLITION OF OLD HVAC EQUIPMENT.





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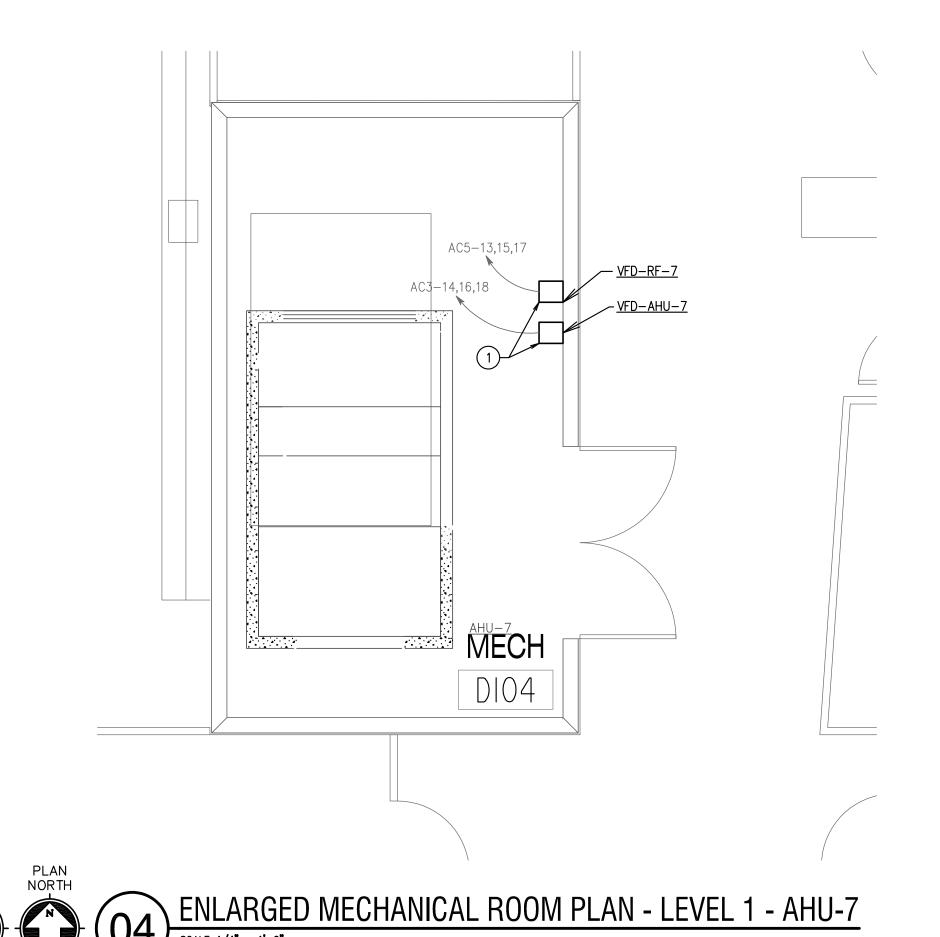
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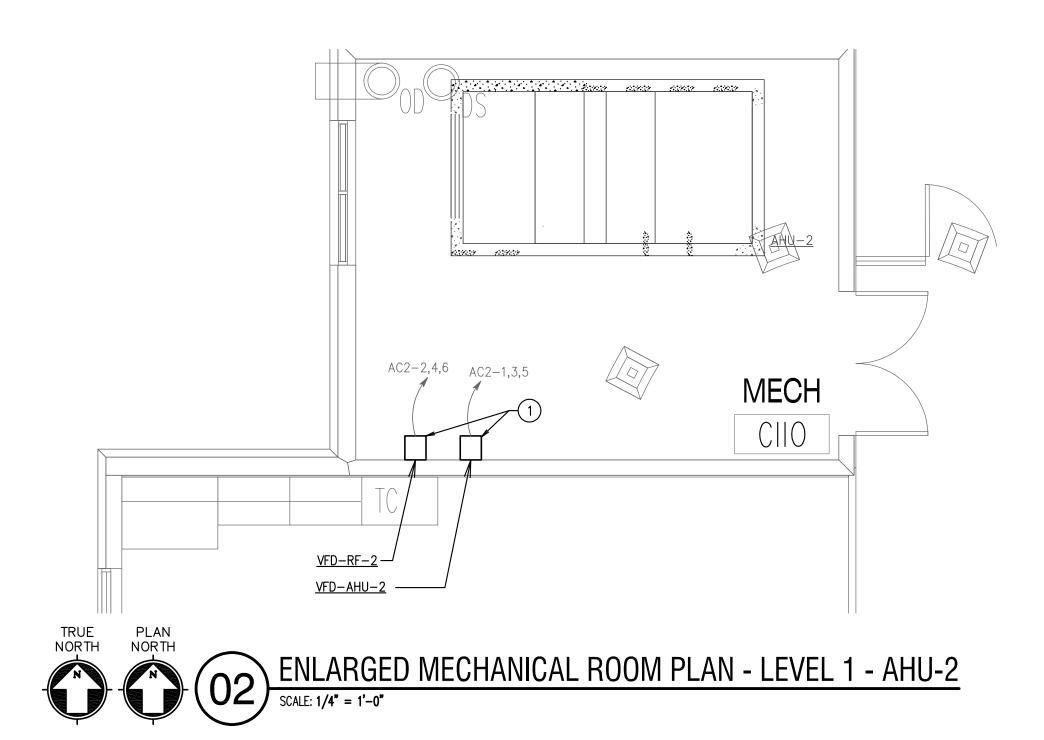
FLOOR PLAN -CENTRAL UTILITY PLANT - ELECTRICAL

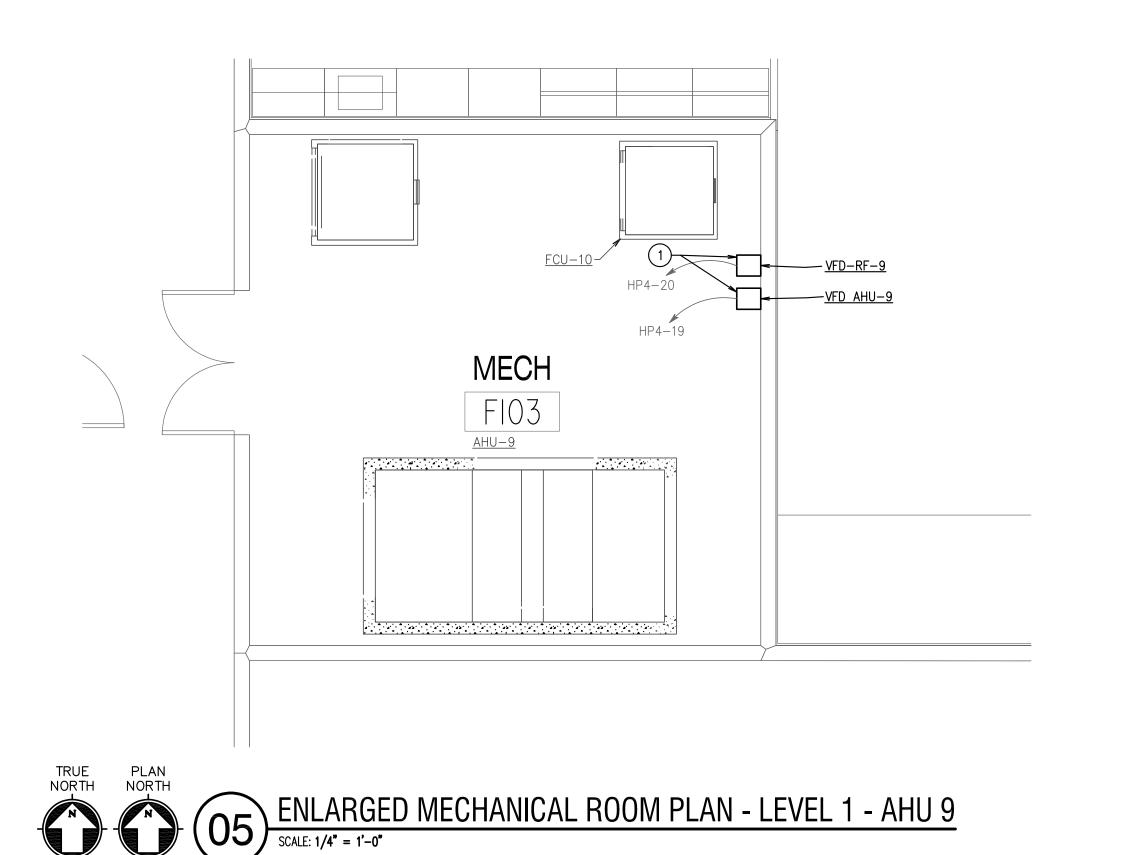
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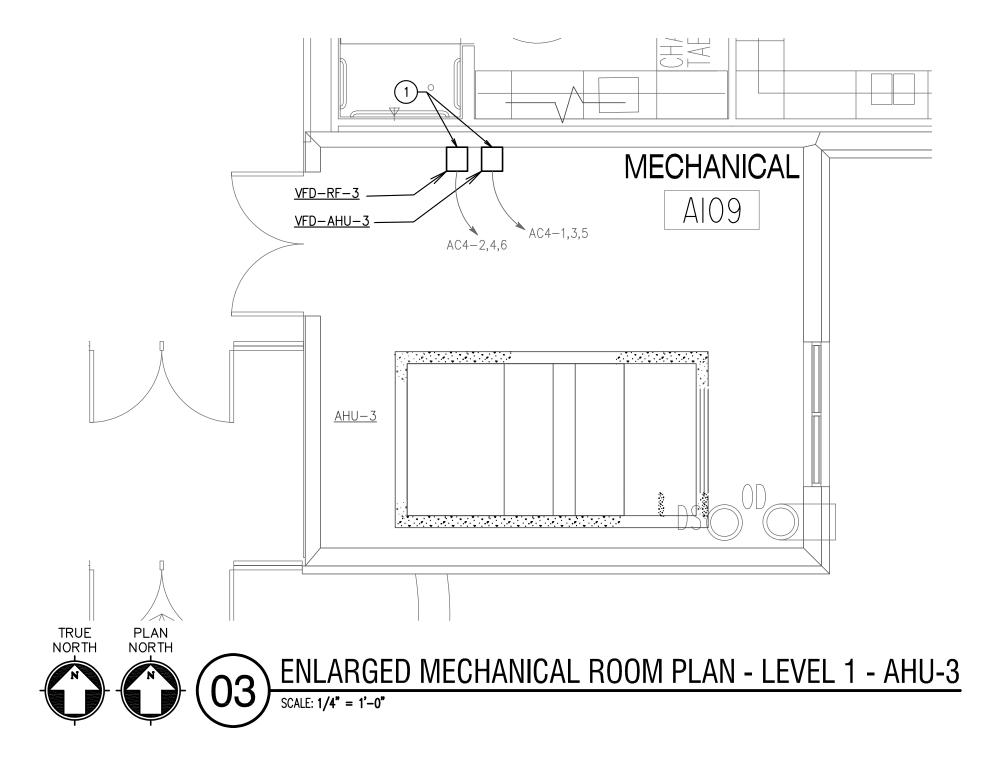
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GENERAL POWER NOTES:

OTHERWISE ON THE PLANS.

- 1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY
- 3. ALL CIRCUITS SHOWN SHALL BE 120V, 20A CIRCUITS UNLESS NOTED OTHERWISE.
- 4. ALL CONDUCTORS SHALL BE #12 AWG UNLESS NOTED OTHERWISE. 5. ALL 120V RUNS LONGER THAN 60' SHALL BE #10 AWG UNLESS NOTED
- 6. ALL CONDUCTORS SHALL BE COPPER (#10 AND SMALLER SHALL BE SOLID).
- 7. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT CONDUCTOR SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.
- 8. PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT (EXISTING AND NEW CIRCUITS) IN ALL PANELS WITHIN SCOPE OF WORK. DIRECTORIES SHALL BE TYPEWRITTEN.
- 9. REFER TO MECHANICAL FLOOR PLANS FOR WALL MOUNTED THERMOSTAT, SENSOR AND ALL OTHER CONTROL DEVICE LOCATIONS. PROVIDE FLUSH, GALVANIZED STEEL, WALL MOUNTED JUNCTION BOX WITH 3/4" EMT CONDUIT AND NYLON PULL—STRING TO 4" ABOVE ACCESSIBLE CEILING FOR EACH
- 10. ALL RECEPTACLES MOUNTED IN KITCHENS, RESTROOMS, AT COUNTERS CONTAINING SINKS, OUTSIDE THE BUILDING OR SERVING VENDING MACHINES SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER(GFCI) PROTECTION.
- 11. ELECTRIC CONNECTIONS TO PANELBOARDS AND BUS DUCTS SHALL BE MADE ONLY WHEN PANELBOARD OR BUS DUCT HAS BEEN DE-ENERGIZED.
- 12. ALL ELECTRICAL PANELS AND TRANSFORMERS SHALL HAVE PERMANENT ENGRAVED LABELS ON COVER INDICATING PANEL OR TRANSFORMER
- 13. ELECTRICAL CONTRACTOR SHALL X-RAY SLAB PRIOR TO ANY CORE-DRILLING.
- 14. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ALL MOTOR STARTERS AND CONTROL PANEL LOCATIONS.
- 15. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL NOTES, SYMBOLS AND

NOTES BY SYMBOL 'O':

1) RECONNECT EXISTING POWER FOR NEW VFD. ELECTRICAL CONTRACTOR TO COORDINATE POWER RECONNECTION WITH DIVISION 23 CONTRACTOR.

2024.07.03

ISSUES

Consulting Engineers

12222 Merit Dr
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Dallas, TX 75251 Project 24040.00

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ENLARGED DEMOLITION FLOOR PLANS - LEVEL 1 -**ELECTRICAL**

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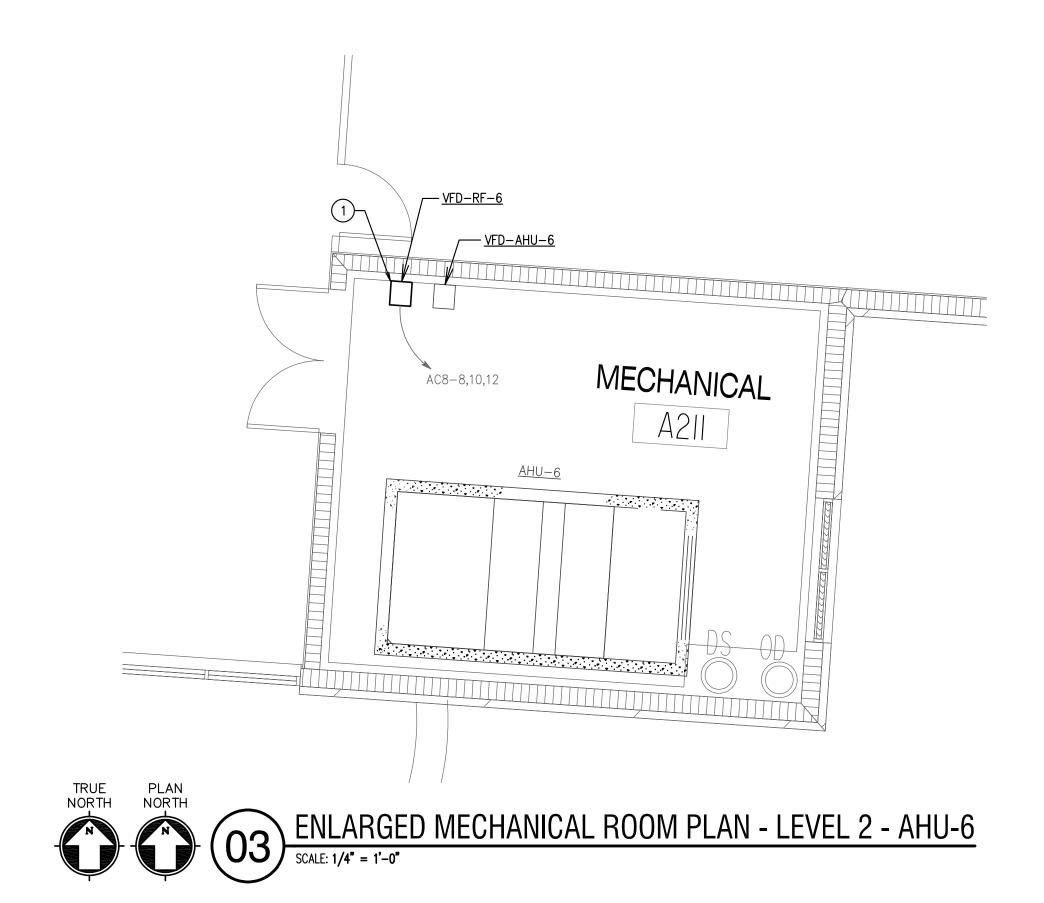
ORIENTATION FLOOR PLAN - LEVEL 2 -ELECTRICAL

JOB NO.: 24040-00 DRAWN BY: BM CHECKED BY: HV

SHEET NO.

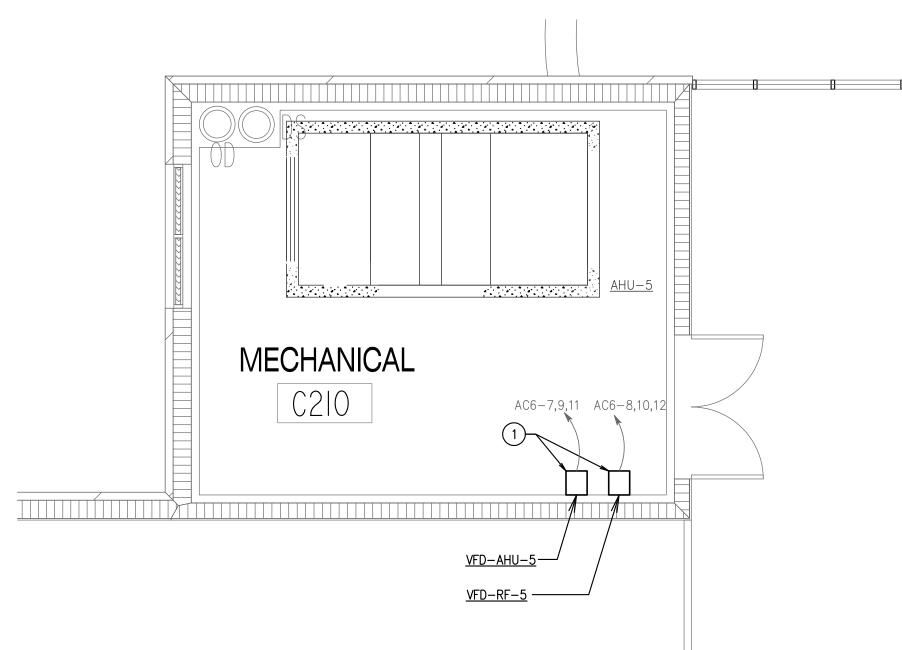
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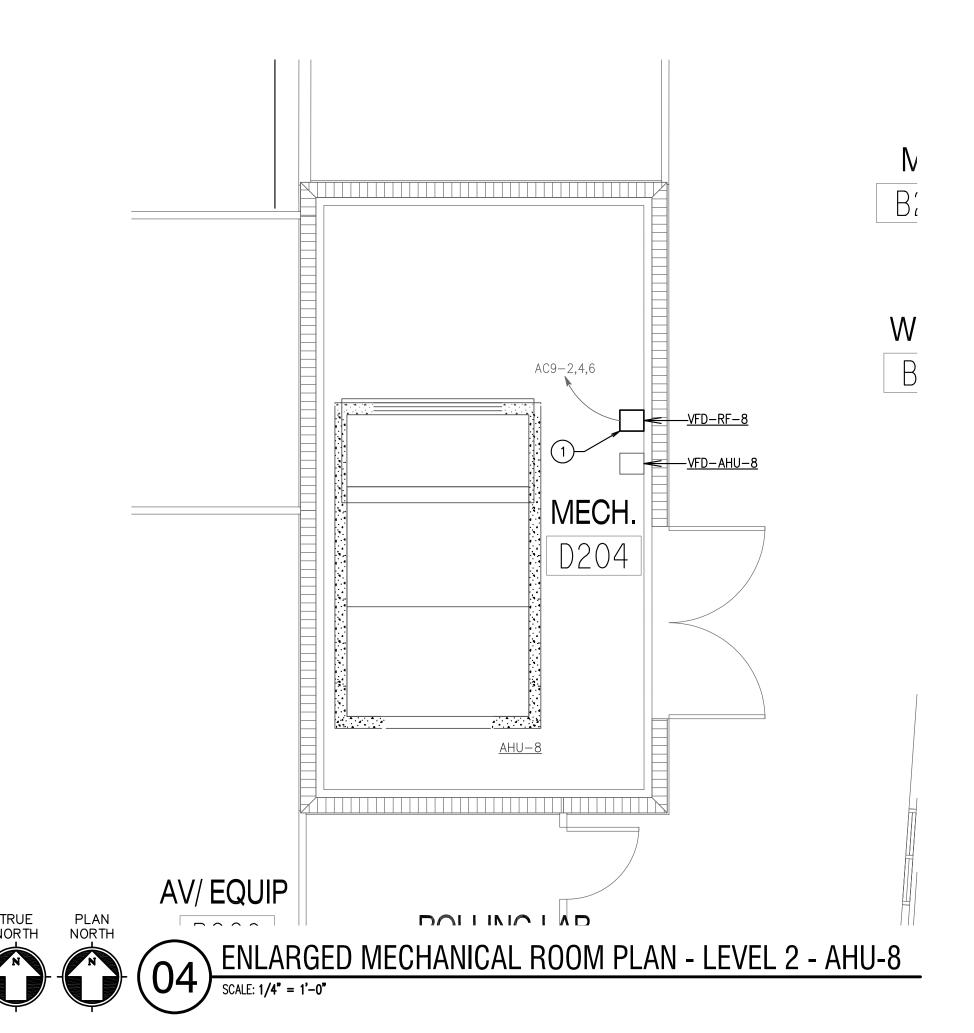
GENERAL POWER NOTES:

- 1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY
- ALL WORK SHALL COMPLY WITH THE BUILDING OWNER'S CONSTRUCTION GUIDELINES.
- 3. ALL CIRCUITS SHOWN SHALL BE 120V, 20A CIRCUITS UNLESS NOTED OTHERWISE.
- 4. ALL CONDUCTORS SHALL BE #12 AWG UNLESS NOTED OTHERWISE.
- 5. ALL 120V RUNS LONGER THAN 60' SHALL BE #10 AWG UNLESS NOTED OTHERWISE ON THE PLANS.
- 6. ALL CONDUCTORS SHALL BE COPPER (#10 AND SMALLER SHALL BE SOLID). 7. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT CONDUCTOR SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.
- 8. PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT (EXISTING AND NEW CIRCUITS) IN ALL PANELS WITHIN SCOPE OF WORK. DIRECTORIES SHALL BE TYPEWRÍTTEN.
- SENSOR AND ALL OTHER CONTROL DEVICE LOCATIONS. PROVIDE FLUSH, GALVANIZED STEEL, WALL MOUNTED JUCTION BOX WITH 3/4" EMT CONDUIT AND NYLON PULL-STRING TO 4" ABOVE ACCESSIBLE CEILING FOR EACH
- 10. ELECTRIC CONNECTIONS TO PANELBOARDS AND BUS DUCTS SHALL BE MADE ONLY WHEN PANELBOARD OR BUS DUCT HAS BEEN DE-ENERGIZED.
- 11. ALL ELECTRICAL PANELS AND TRANSFORMERS SHALL HAVE PERMANENT ENGRAVED LABELS ON COVER INDICATING PANEL OR TRANSFORMER DESIGNATION.
- 12. ELECTRICAL CONTRACTOR SHALL X-RAY SLAB PRIOR TO ANY CORE-DRILLING.
- 13. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ALL MOTOR STARTERS AND CONTROL PANEL LOCATIONS.



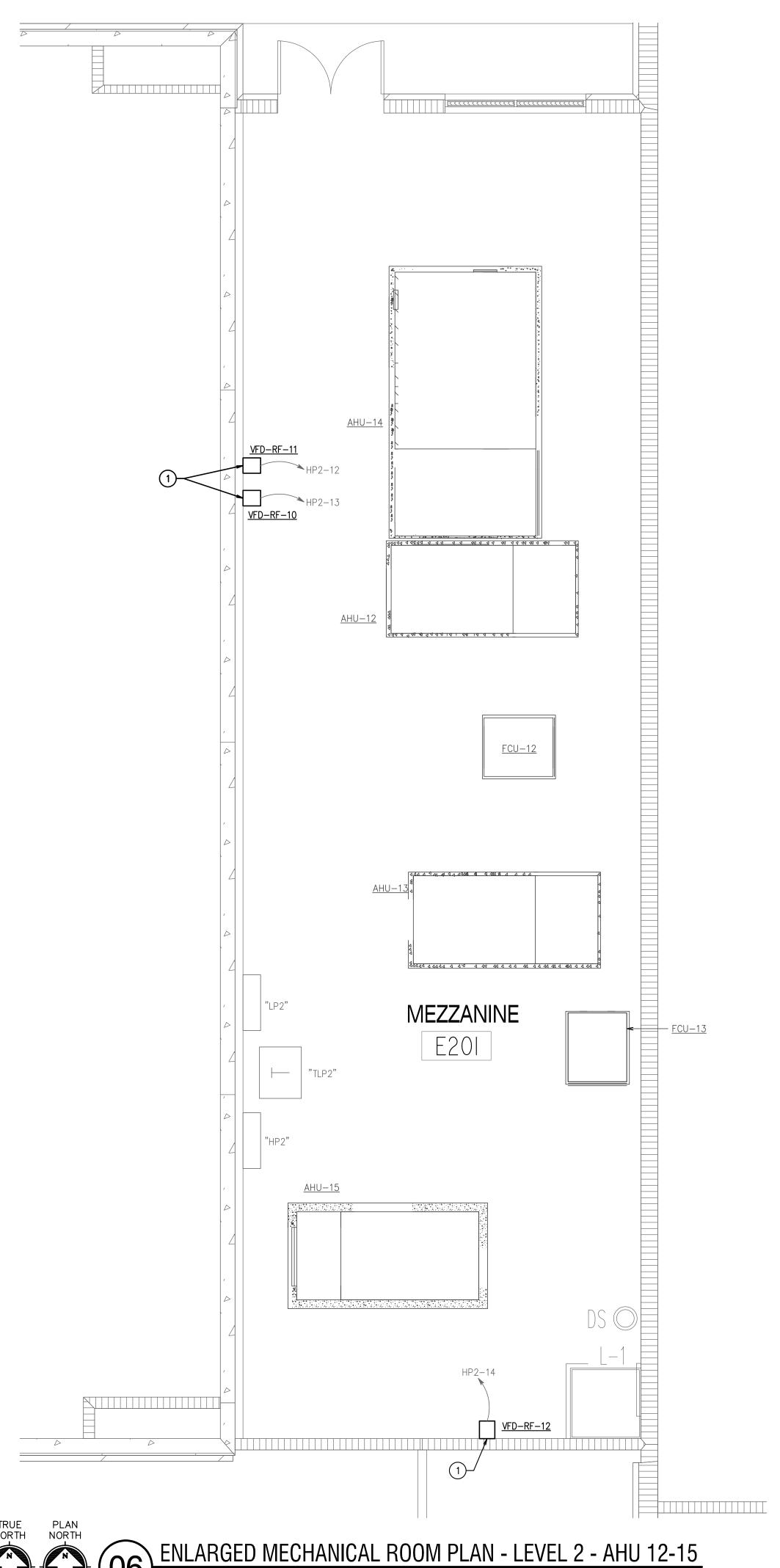
ENLARGED MECHANICAL ROOM PLAN - LEVEL 2 - AHU-5

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



NOTES BY SYMBOL 'O':

1) RECONNECT EXISTING POWER FOR NEW VFD. ELECTRICAL CONTRACTOR TO COORDINATE POWER RECONNECTION WITH DIVISION 23 CONTRACTOR.



ENLARGED MECHANICAL ROOM PLAN - LEVEL 2 - AHU 12-15

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



2024.07.03

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ENLARGED DEMOLITION FLOOR PLANS - LEVEL 2 -**ELECTRICAL**

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