

WESLACO
CENTRAL MIDDLE SCHOOL ANNEXES
CHILLER REPLACEMENT
TEXAS

M0.0

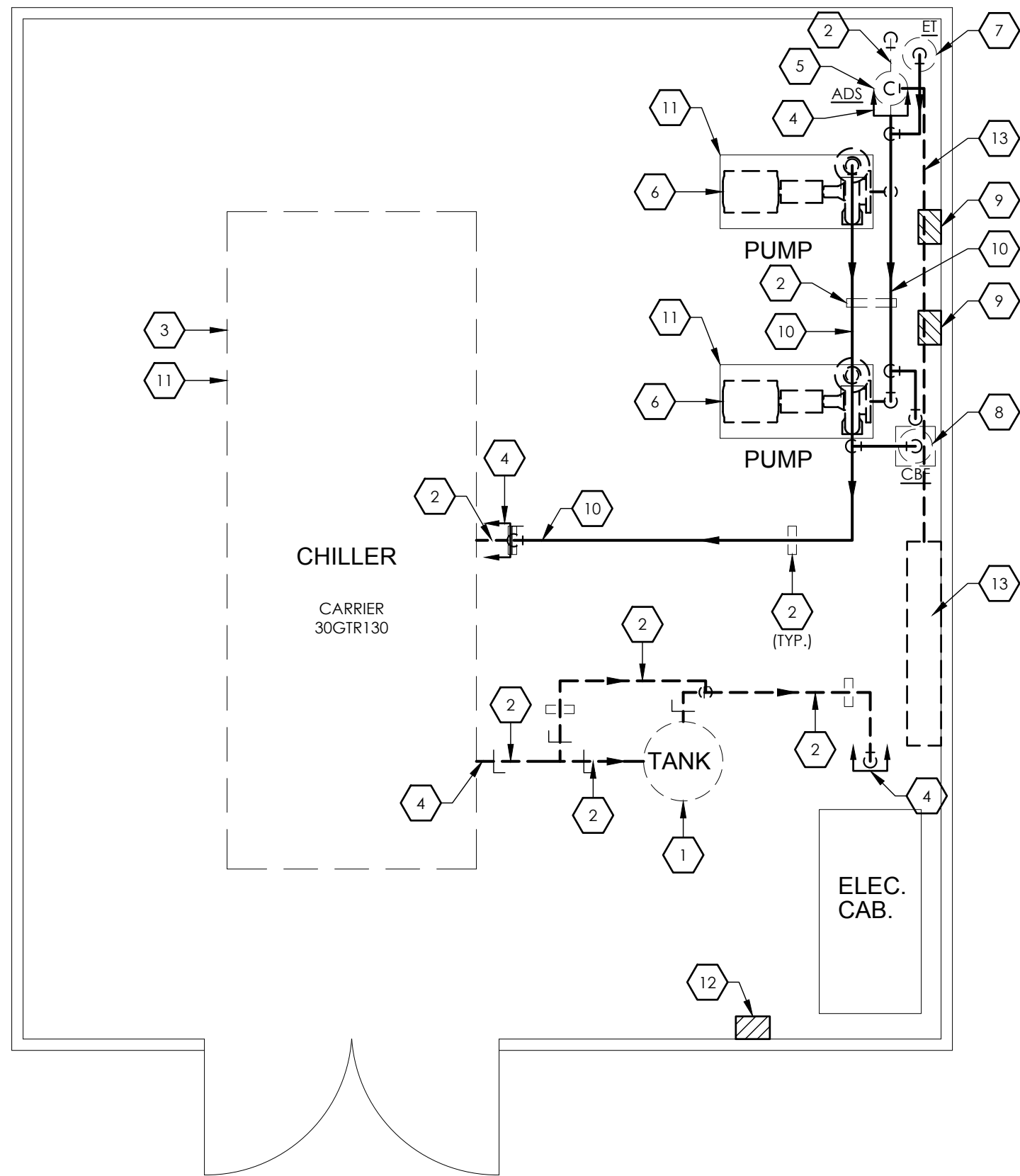
GENERAL NOTES - MECHANICAL:

- (1) THE MECHANICAL CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE WORK IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES UNDER THIS SECTION OF THE CONTRACT. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE LOCAL CODES, HE/SHE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET APPLICABLE LOCAL CODES, AND RE-WORK SHALL BE AT CONTRACTOR'S EXPENSE.
- (2) CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK FLUSH WITH THE BUILDING STRUCTURE TO ACCOMMODATE NEW CEILINGS. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH ARCHITECTURAL AND ELECTRICAL DESIGN. ALL DUCTWORK SHALL BE MODIFIED AS NECESSARY AND REQUIRED TO FIT AROUND BUILDING STRUCTURES, ARCHITECTURAL BUILD-OUT AND ELECTRICAL CABLE TRAY INSTALLATIONS. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.
- (3) CONNECT EACH DIFFUSER TO THE MAIN DISTRIBUTION DUCTS WITH A FLEX-DUCT SECTION; CONNECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAIL. EACH FLEX-DUCT CONNECTION SHALL INCLUDE A BUTTERFLY DAMPER TO BE INSTALLED AT THE TRUNK DUCT.
- (4) CONTRACTOR SHALL PROVIDE ALL DUCTWORK REQUIRED TO COMPLETE THE HVAC SYSTEM. TIE IN BRANCH DUCTS TO MAIN DUCTS WITH SHEET METAL FLANGES. FLANGE CONNECTION SHALL BE FASTENED WITH CRIMPED SHEET METAL STRIPS AND SEALED WITH SILICONE CAULK.
- (5) CONTRACTOR SHALL SUPPLY AND INSTALL FIRE DAMPERS AND ACCESS DOORS IN THE HORIZONTAL DUCTS WHERE THEY PENETRATE FIRE WALLS & BARRIERS.
- (6) ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS. CONTRACTOR SHALL REINFORCE ALL OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 8000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES
- (7) ON ANY WORK SHOWN ON MECHANICAL DRAWINGS REQUIRING DEMOLITION OF EXISTING OR NEW BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS. REPAIRS SHALL BE COMPLETED ACCORDING TO ARCHITECTURAL SPECIFICATIONS. ALL REFINISHING SHALL BE APPROVED BY THE ARCHITECT.
- (8) CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE INSTALLATION OF THE AIR DISTRIBUTION SYSTEM SHOWN. DUCTWORK, DUCT ACCESSORIES AND CONTROLS SHOWN AND REQUIRED SHALL BE SUPPLIED AND INSTALLED. ALL INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES, INCLUDING NFPA 90A AND 90B.(NFPA 90A: STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS)(NFPA 90B: STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS)
- (9) CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS, SHUTTER DAMPERS, ZONE DAMPERS (IF REQUIRED), BUTTERFLY DAMPERS AND INDIVIDUAL DIFFUSER VOLUME DAMPERS (FINAL BALANCING ONLY). CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A COMPLETE BALANCING REPORT WHICH INCLUDES, VOLUME, ROOM REFERENCE AND ZONE VOLUME TOTALS.
- (10) MOUNT ALL THERMOSTATS (SENSORS) 48" ABOVE THE FINISHED FLOOR LEVEL. THERMOSTATS SHOWN SHALL BE IN CONTROL OF THE ZONE SYSTEM WHICH IS SUPPLYING AIR TO THE AREA WHERE THE THERMOSTAT IS LOCATED. CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONTROL VOLTAGE WIRING AND CONDUIT FOR THERMOSTAT (DDC CONTROL) INSTALLATION.
- (11) CONTRACTOR SHALL INSTALL NEW REFRIGERANT PIPING FLUSH WITH THE BUILDING STRUCTURE AND MECHANICAL ROOM BOUNDARIES AS SHOWN. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH DUCTS AND ELECTRICAL CONDUIT. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.
- (12) ALL PIPING SHALL BE INSULATED AND JACKETED. REFER TO THE SPECIFICATIONS. THE CONDENSING AND ROOF TOP CONDENSER COILS ARE TO BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS.
- (13) PROVIDE SMOKE DETECTOR AND SHUTDOWN CONTROLS ON AIR HANDLERS AND SUPPLY FANS. SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL AND INSTALLED BY MECHANICAL. COORDINATE TO PROVIDE A COMPLETE SYSTEM. PROVIDE BOTH SUPPLY AND RETURN SIDE DEVICES.
- (14) ALC CONTROLLERS IN NEMA 4 ENCLOSURE WIRED STOP/ START AND BUILDING SUPPLY AND RETURN TEMPERATURE SENSORS.
- (15) **FILTER INSTALLATION AND REPLACEMENT**
A. INSTALL CONSTRUCTION RETURN FILTER AT EACH RETURN GRILLE BEFORE OPERATING PERMANENT AIR HANDLERS DURING CONSTRUCTION.
B. REPLACE FILTERS AFTER COMPLETING CONSTRUCTION AND BEFORE CONDUCTING BUILDING FLUSH-OUT.
1. REPLACE CONSTRUCTION RETURN FILTERS WITH FLUSH-OUT RETURN FILTERS.
2. REPLACE SUPPLY FILTERS.

MECHANICAL SYMBOL LEGEND		MECHANICAL ABBREVIATIONS			
		A/C	AIR CONDITIONED	MAX	MAXIMUM
		AD	ACCESS DOOR	MBD	MANUAL BALANCING DAMPER
		AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
		AHU	AIR HANDLING UNIT	MECH	MECHANICAL
		APPROX	APPROXIMATE	MIN	MINIMUM
		ARCH	ARCHITECTURAL	MS	MOTOR STARTER
		BDD	BACK DRAFT DAMPER	NA	NOT APPLICABLE
		BHP	BRAKE HORSEPOWER	NC	NORMALLY CLOSED
		BTU	BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT
		CFM	CUBIC FEET PER MINUTE	NO	NORMALLY OPEN
		CH	CHILLER	NTS	NOT TO SCALE
		CHP	CHILLED WATER PUMP		
		CLG	CEILING	OA	OUTSIDE AIR
		CWP	CONDENSER WATER PUMP	OAH	OUTSIDE AIR INTAKE HOOD
		CO	CLEANOUT	OBD	OPPOSED BLADE DAMPER
		CT	COOLING TOWER	OC	ON CENTER
		CU	CONDENSING UNIT		
		CW	COLD WATER	P	PUMP
		CL	CENTER LINE	PBD	PARALLEL BLADE DAMPER
		DB	DRY BULB	PP	PRIMARY CHILLED WATER PUMP
		DIA	DIAMETER	PRESS	PRESSURE
		DN	DOWN	PRV	PRESSURE REDUCING VALVE
		DWG	DRAWING	PSIG	POUNDS PER SQUARE INCH (GAUGE)
		DX	DIRECT EXPANSION		
		EAT	ENTERING AIR TEMPERATURE	R	RETURN (AIR DEVICE)
		EDH	ELECTRIC DUCT HEATER	RA	RETURN AIR
		EF	EXHAUST FAN	RE: 4M7.01	REFER TO DETAIL 4, SHEET M7.01
		ELEC	ELECTRICAL	RET	RETURN
		ELEV	ELEVATION	RH	RELATIVE HUMIDITY
		F	DEGREES FAHRENHEIT	RHD	RELIEF HOOD
		FC	FAN COIL	RPM	REVOLUTIONS PER MINUTE
		FD	FIRE DAMPER W/ DUCT ACCESS DOOR	RTU	ROOF TOP UNIT
		FLEX	FLEXIBLE		
		FLG	FLANGE	S	SUPPLY (AIR DEVICE)
		FLR	FLOOR	SA	SUPPLY AIR
		FPM	FEET PER MINUTE	SCH	SCHEDULE
		FT	FEET, FOOT	SCHP	SECONDARY CHILLED WATER PUMP
		FS	FLOW SWITCH	SD	SMOKE DAMPER
		GAL	GALLON	SEC	SECOND
		GALV	GALVANIZED	SF	SUPPLY FAN
		GPM	GALLONS PER MINUTE	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
		HB	HOSE BIBB	SP	STATIC PRESSURE
		HP	HORSEPOWER	SPEC	SPECIFICATION
		HR	HEAT PUMP (WATER SOURCE)	SF	SQUARE FOOT
		HR	HOUR	STD	STANDARD
		HVAC	HEATING/VENTILATING/ AIR CONDITIONING	TEMP	TEMPERATURE
		HWP	HOT WATER PUMP	TSTAT	THERMOSTAT
		HZ	HERTZ	TYP	TYPICAL
		ID	INSIDE DIAMETER	UF	UNDER FLOOR
		IE	INVERT ELEVATION (FLOW LINE)	UH	UNIT HEATER
		IN	INCHES	UL	UNDERWRITERS LABORATORIES
		INSUL	INSULATION	VEL	VELOCITY
		IN WG	INCHES OF WATER	VENT	VENTILATE
		KW	KILOWATT(S)	VF	VENTILATION FAN
		LAT	LEAVING AIR TEMPERATURE	VOL	VOLUME
		LB	POUND	VOLT	VOLTAGE
		L	LOUVER	W	WIDE, WIDTH
				W/	WITH
				WB	WET BULB
				W/O	WITHOUT

GYM CHW SYSTEM SEQUENCES
SEQUENCE OF OPERATION: CHILLED WATER SYSTEMS

- A. CHILLED WATER SYSTEMS SHALL BE ENABLED TO OPERATE WHEN THE OUTSIDE AIR TEMPERATURE IS ABOVE 65°F, OR WHEN ONE UNIT REQUIRING CHILLED WATER IS INDICATED TO BE OPERATIONAL, OR AS REQUIRED TO MAINTAIN SPACE HUMIDITY PARAMETERS.
- C. WHEN THE CHILLER CONTROL PANEL IS ENABLED, THE BAS SHALL OPEN THE CHILLER ISOLATION VALVES. AFTER A USER ADJUSTABLE DELAY, THE PRIMARY CHILLED WATER PUMP SHALL START. AFTER PROOF OF PRIMARY CHILLED WATER FLOW, THE CHILLER WILL START. THE BAS SHALL MONITOR AND DISPLAY PUMP COMMAND AND STATUS. THE BAS WILL GENERATE AN ALARM IF THE PUMP FAILS TO RUN OR IF THE CHILLER CONTROLS INDICATE AN ALARM. CHILLER ISOLATION VALVES WILL CLOSE UPON CHILLER SHUT-DOWN AFTER A USER ADJUSTABLE DELAY. ALL CHILLER ISOLATION VALVE DELAY TIMES SHALL BE SET APPROPRIATELY TO ALLOW FOR ORDERLY CHILLED WATER SYSTEM START-UP, SHUTDOWN AND SEQUENCING.
- E. FOR AIR COOLED CHILLERS, EACH OF THE PRIMARY CHILLED WATER PUMPS, AND ASSOCIATED AIR COOLED CHILLER SHALL BE STARTED BY THE BAS ON A LEAD/ LAG BASIS.
- F. THE DISCHARGE WATER TEMPERATURE FROM THE CHILLERS SHALL BE CONTROLLED BY THE CHILLER CONTROLS. THE BAS SHALL SEND A CHILLED WATER SUPPLY TEMPERATURE SETPOINT COMMAND TO THE CHILLER CONTROL PANEL(S). THE SETPOINT SHALL BE CAPABLE OF BEING RESET FROM 42°F CHS TEMPERATURE, AT 85°F OAT, TO 50°F CHS, AT 60°F OAT. THE INITIAL SETPOINT FOR THE CHILLED WATER SUPPLY TEMPERATURE SHALL BE 44°F. THE BAS WILL GENERATE AN ALARM IF THE CHILLED WATER SUPPLY TEMPERATURE INCREASES ABOVE THE INDICATED HIGH LIMIT.



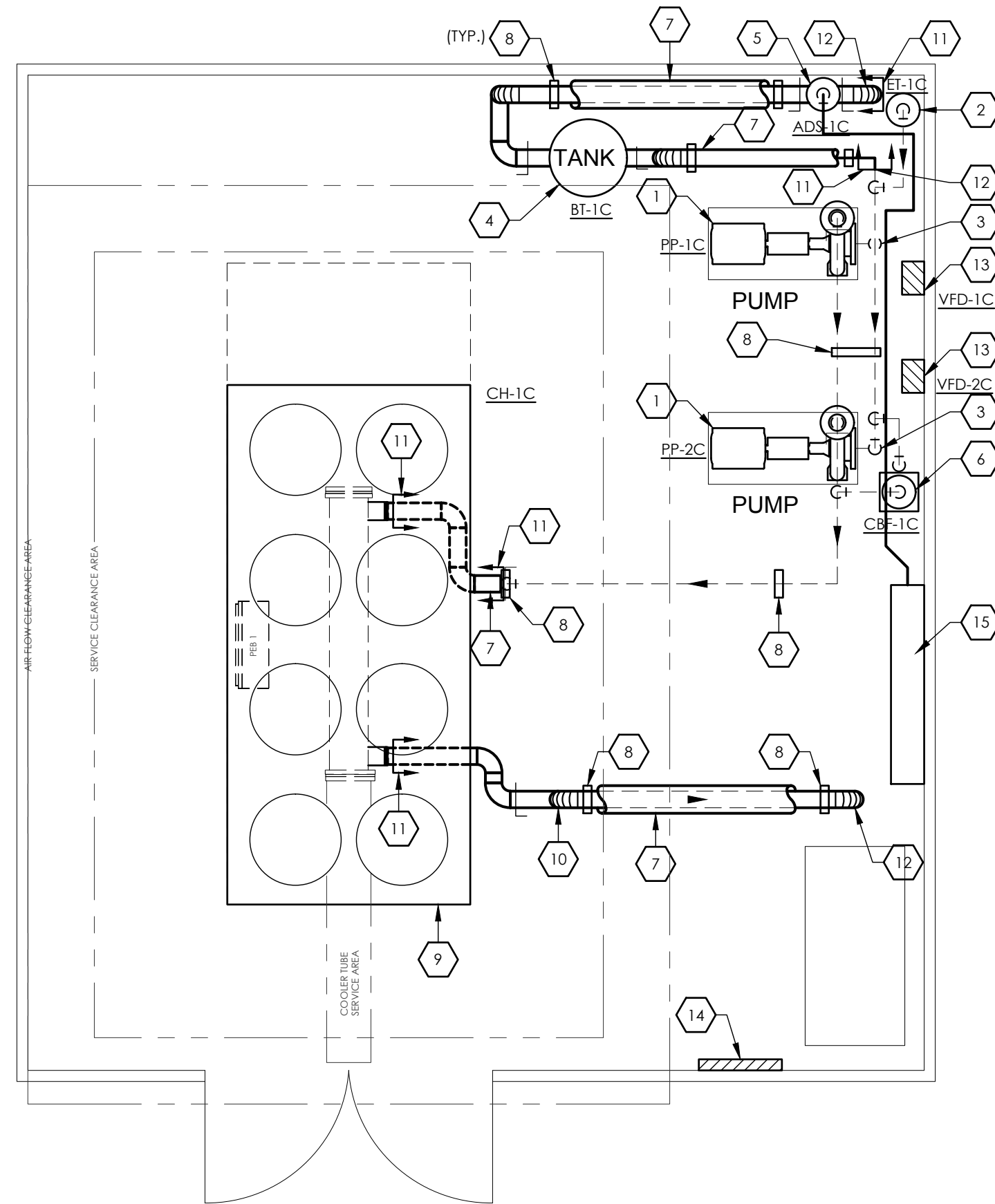
1 GYM MECHANICAL YARD DEMOLITION PLAN
SCALE: 1/4"=1'-0"

GENERAL DEMOLITION NOTES

- A. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE WILL BE REQUIRED TO PROPERLY BID THE DEMOLITION WORK.
- B. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL AND/OR RELOCATION OF HVAC FIXTURES AND EQUIPMENTS AND ASSOCIATED SERVICES TO PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
- C. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE ARCHITECTURAL DOCUMENTS IN ADDITION TO THE DIVISION 15 AND 16 DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK.
- D. WHERE EQUIPMENT IS INDICATED OR REQUIRED TO BE REMOVED, THE ASSOCIATED SERVICES SHALL BE CAPPED AT A CONCEALED LOCATION.
- E. WHERE SERVICES RUN ABOVE INACCESSIBLE CEILINGS OR IN WALLS WHICH ARE TO REMAIN UNDISTURBED, SERVICES SHALL BE CAPPED AT CONCEALED LOCATION AND ABANDONED.
- F. WHERE THE REMOVAL OF EQUIPMENT RENDERS EQUIPMENT DOWNSTREAM INOPERABLE, SERVICES SHALL BE EXTENDED TO THE DOWNSTREAM EQUIPMENT SO THAT THE FIXTURES ARE LEFT IN OPERATING CONDITION.
- G. COORDINATE DEMOLITION OF DIVISION 15 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.
- H. ALL EXISTING H.V.A.C. AND EQUIPMENT REMOVED DURING CONSTRUCTION THAT ARE NOT TO BE REUSED SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
- I. WHERE EXISTING EQUIPMENT IS TO BE RELOCATED, BE CAUTIOUS TO PREVENT DAMAGE DURING THE REMOVAL AND REINSTALLATION. WHERE DAMAGE OCCURS, THE EQUIPMENT SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION AND APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- J. EXISTING EQUIPMENT TO BE REUSED SHALL BE CLEANED AND REPAIRED AT THE DISCRETION OF THE ARCHITECT WHERE APPLICABLE.
- K. ALL DEVICES ATTACHED TO WALLS OR CEILINGS SHALL BE REMOVED PER DEMOLITION NOTE A - L WHETHER SHOWN ON DRAWINGS OR NOT.

KEYED NOTES: MECHANICAL DEMOLITION

- 1 EXISTING BUFFER TANK TO BE REMOVED AND RETURNED TO OWNER, TO BE REPLACED WITH NEW TANK.
- 2 EXISTING CHILLED WATER LINES, INSULATION, AND ALUMINUM JACKET TO BE REMOVED. ALL EXISTING PIPE STANDS TO BE REMOVED AND REPLACED WITH NEW. FIELD VERIFY HEIGHT AND QUANTITY.
- 3 CHILLER TO BE REMOVED AND RETURNED TO OWNER (IF OWNER SO DESIRES).
- 4 CHILLED WATER LINES TO BE REMOVED UP TO THIS POINT....
- 5 EXISTING AIR-DIRT SEPARATOR TO BE REMOVED AND RETURNED TO OWNER. TO BE REPLACED WITH NEW.
- 6 EXISTING PRIMARY PUMPS TO BE REMOVED AND RETURNED TO OWNER (IF OWNER SO DESIRES) AS WELL AS ALL ASSOCIATED ACCESSORIES.
- 7 EXISTING EXPANSION TANK TO BE REMOVED AND RETURNED TO OWNER. TO BE REPLACED WITH NEW.
- 8 EXISTING CHEMICAL BYPASS POT FEEDER TO BE REMOVED AND RETURNED TO OWNER. TO BE REPLACED WITH NEW.
- 9 EXISTING MOTOR STARTERS TO BE RETURNED TO OWNER. TO BE REPLACED WITH NEW.
- 10 EXISTING CHILLED WATER LINE AND ASSOCIATED ACCESSORIES TO REMAIN.
- 11 CONCRETE PADS TO REMAIN.
- 12 EXISTING HVAC CONTROLS ENCLOSURE TO BE REMOVED AND RETURNED TO OWNER. TO BE REPLACED WITH NEW.
- 13 REMOVE ALL EXISTING MAKE-UP WATER SYSTEM AND DISPOSE OF. TO BE REPLACED WITH NEW.



2 GYM MECHANICAL YARD REMODEL PLAN
SCALE: 1/4"=1'-0"

HVAC CONTROLS GENERAL NOTES:

- (1) PROVIDE WITH NEW HVAC CONTROLS ENCLOSURE TO COMFORTABLY FIT EXISTING CONTROLLERS IN. FIELD VERIFY SIZE (APPROXIMATE 30"X30"X4" NEMA 4-ENCLOSURE)
- (2) DISCONNECT OLD EQUIPMENT AND RECONNECT TO NEW. GENERAL CONTRACTOR TO COORDINATE TYPE OF INTERFACE REQUIRED FOR EACH PIECE OF EQUIPMENT. REPLACE EXISTING WIRE AND SENSOR WITH NEW EQUIPMENT.
- (3) VFD SPEED IS TO BE USED FOR BALANCING PURPOSES. TO BE ON/ OFF OPERATION (AS PER EXISTING) WITH ADDITION OF SOFT START.
- (4) BACNET COMMUNICATION TO/FROM CHILLER NEEDS TO BE IMPLEMENTED TO READ ALARMS, DIAGNOSTICS & STATUS FOR ALL INTERNAL CONDITIONS. PROVIDE ADDITIONAL HARDWARE/WIRING TO ADD THIS FUNCTIONALITY. UPDATE GRAPHICS TO INCLUDE BACNET POINTS RUN EXISTING SEQUENCE OF OPERATIONS.

KEYED NOTES: MECHANICAL

- 1 NEW PUMPS REFERENCE SCHEDULES. MOUNT TO EXISTING PAD.
- 2 NEW EXPANSION TANK, REFERENCE SCHEDULES.
- 3 PIPE DROP INTO SUCTION GUIDE OF PUMP. PROVIDE W/ ALL GAUGES AND SENSOR PORTS AS SHOWN ON DETAIL 06.
- 4 NEW BUFFER TANK, REFERENCE SCHEDULES. PROVIDE WITH NEW CONCRETE PAD.
- 5 NEW AIR-DIRT SEPARATOR, REFERENCE SCHEDULES.
- 6 NEW CHEMICAL BYPASS POT FEEDER, REFERENCE SCHEDULES.
- 7 PROVIDE WITH NEW CHILLED WATER PIPING, INSULATION, AND PIPE JACKETING TO MATCH EXISTING. TIE INTO EXISTING PIPING/ EXISTING CHILLER.
- 8 PROVIDE WITH NEW CHILLED WATER PIPE SUPPORTS WHERE INDICATED, TO MATCH EXISTING.
- 9 PLACE NEW CHILLER ON EXISTING CONCRETE PAD.
- 10 CHILLED WATER SUPPLY/RETURN LINES TO DROP FROM OVERHEAD HEIGHT DOWN INTO CHILLER'S CHILLED WATER SERVICE INLET/OUTLET.
- 11 NEW CHILLED WATER PIPING UP TO THIS EXTENT.
- 12 TIE NEW PIPING INTO EXISTING PIPING.
- 13 PROVIDE NEW VFD, REFER TO VFD SCHEDULES.
- 14 NEW HVAC CONTROLS ENCLOSURE. COORDINATE WITH HVAC CONTROLS VENDOR FOR REQUIRED SIZE. TO BE NEMA 4.
- 15 PROVIDE WITH NEW MAKE-UP WATER SYSTEM WITH NEW WATER METER AND BACKFLOW PREVENTER. TIE INTO AIR-DIRT SEPARATOR.

PROJECT # : 18.4.25
DATE: 04/16/19
CHECKED BY: WM,LM

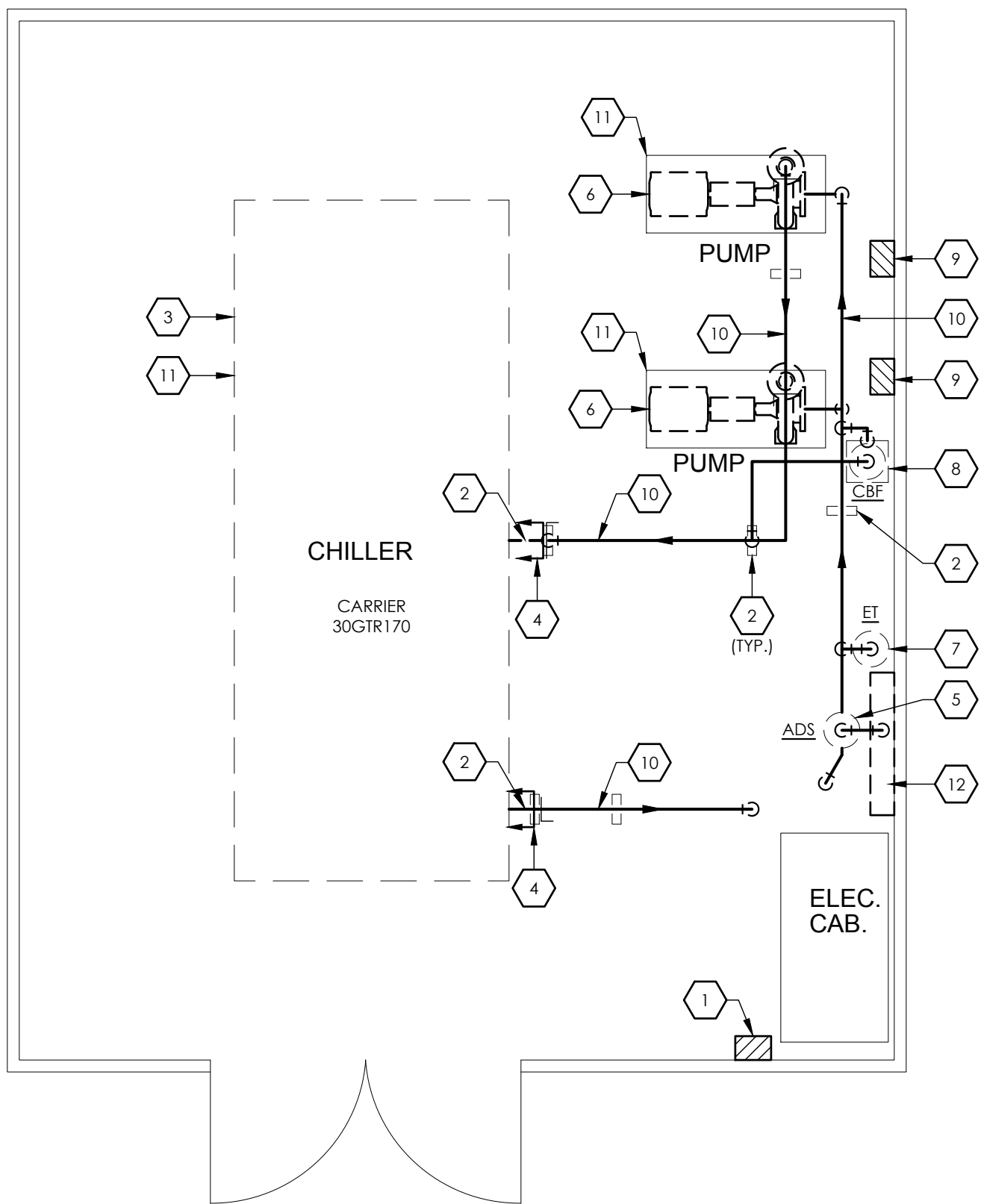
REVISION:

CENTRAL MIDDLE SCHOOL ANNEXES
CHILLER REPLACEMENT
WESLACO TEXAS

M1.1

ANNEX B (COSMETOLOGY) CENTRAL PLANT SEQUENCES
SEQUENCE OF OPERATION: CHILLED WATER SYSTEMS

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- C. WHEN THE CHILLER CONTROL PANEL IS ENABLED, AND AFTER A USER ADJUSTABLE DELAY, THE PRIMARY CHILLED WATER PUMP SHALL START. AFTER PROOF OF PRIMARY CHILLED WATER FLOW, THE CHILLER WILL START. THE BAS SHALL MONITOR AND DISPLAY PUMP COMMAND AND STATUS. THE BAS WILL GENERATE AN ALARM IF THE PUMP FAILS TO RUN OR IF THE CHILLER CONTROLS INDICATE AN ALARM. CHILLER ISOLATION VALVE DELAY TIMES SHALL BE SET APPROPRIATELY TO ALLOW FOR ORDERLY CHILLED WATER SYSTEM STARTUP, SHUTDOWN AND SEQUENCING.
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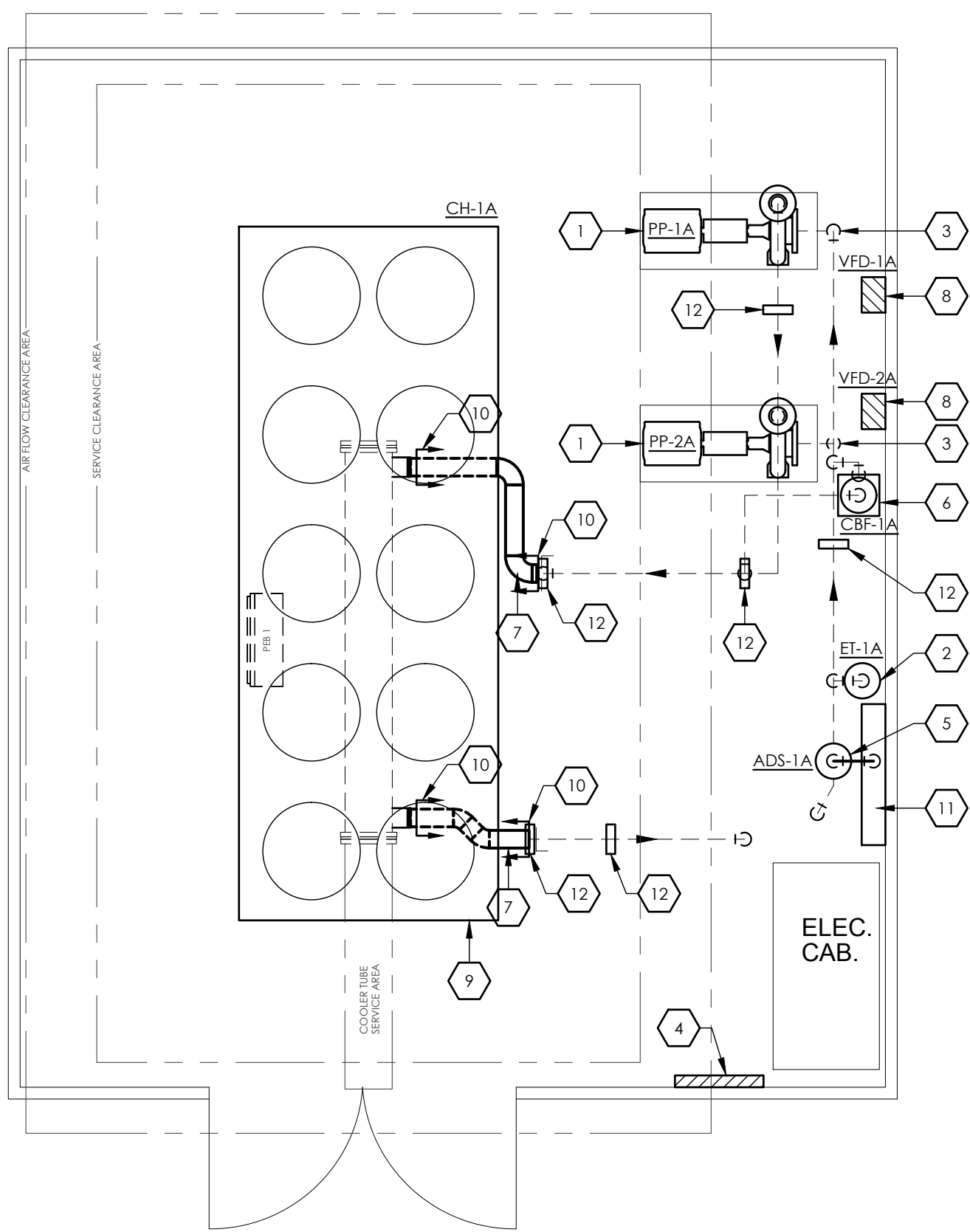
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- 10 EXISTING CHILLED WATER LINE AND ASSOCIATED ACCESSORIES TO REMAIN.
- 11 CONCRETE PADS TO REMAIN.
- 12 REMOVE ALL EXISTING MAKE-UP WATER SYSTEM AND DISPOSE OF. TO BE REPLACED WITH NEW.



2 COSMETOLOGY MECHANICAL YARD REMODEL PLAN
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- 6 NEW CHEMICAL BYPASS POT FEEDER. REFERENCE SCHEDULES.
- 7 TIE NEW PIPING INTO EXISTING PIPING.
- 8 PROVIDE NEW VFD. REFER TO VFD SCHEDULES.
- 9 PLACE NEW CHILLER ON EXISTING CONCRETE PAD.
- 10 NEW CHILLED WATER PIPING UP TO THIS EXTENT.
- 11 PROVIDE WITH NEW MAKE-UP WATER SYSTEM WITH NEW WATER METER AND BACKFLOW PREVENTER. TIE INTO AIR-DIRT SEPARATOR.
- 12 PROVIDE WITH NEW CHILLED WATER PIPE SUPPORTS WHERE INDICATED. TO MATCH EXISTING.

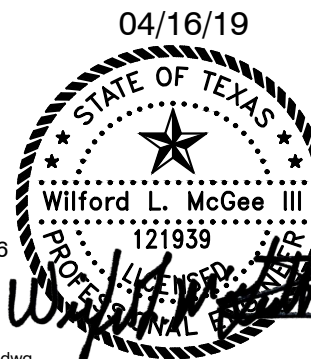
PROJECT # : 18.4.25
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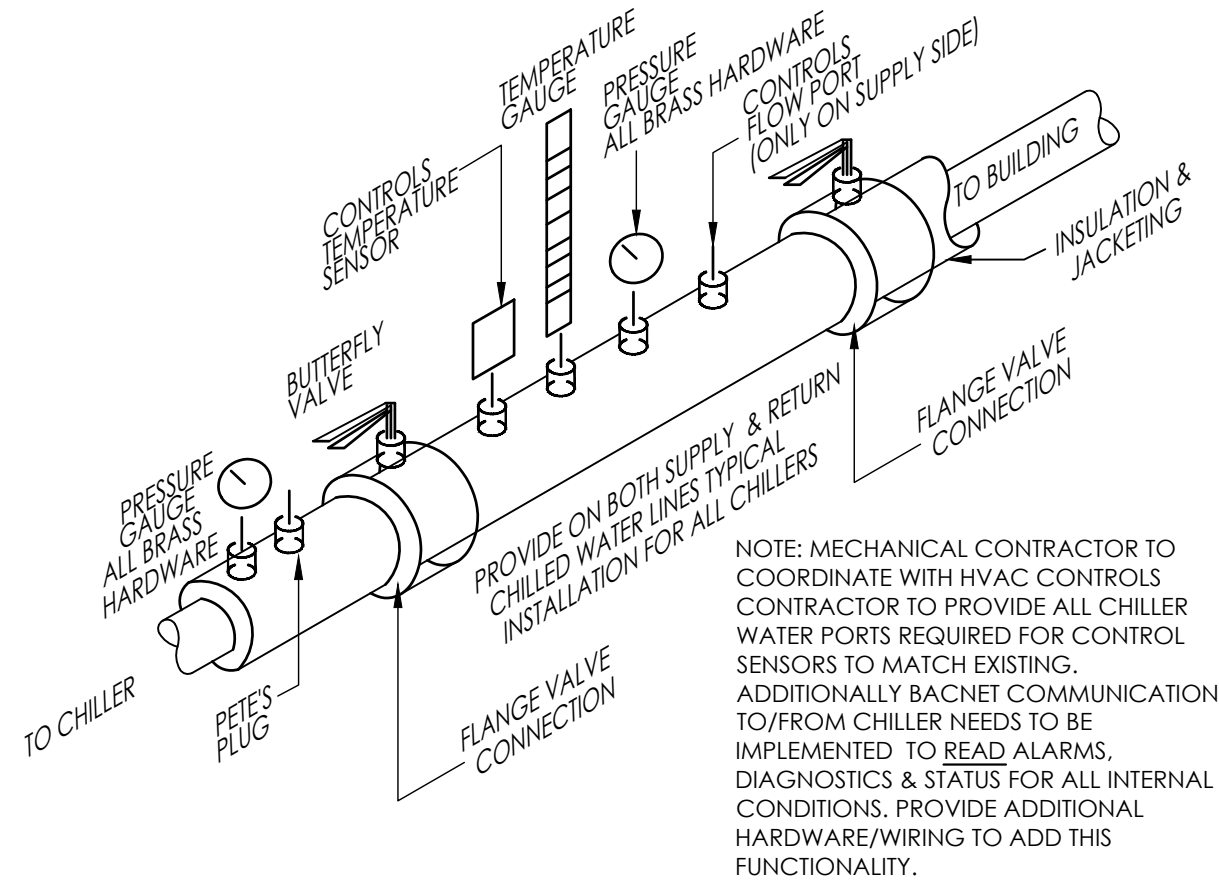
CENTRAL MIDDLE SCHOOL ANNEXES
CHILLER REPLACEMENT
WESLACO TEXAS

M1.2

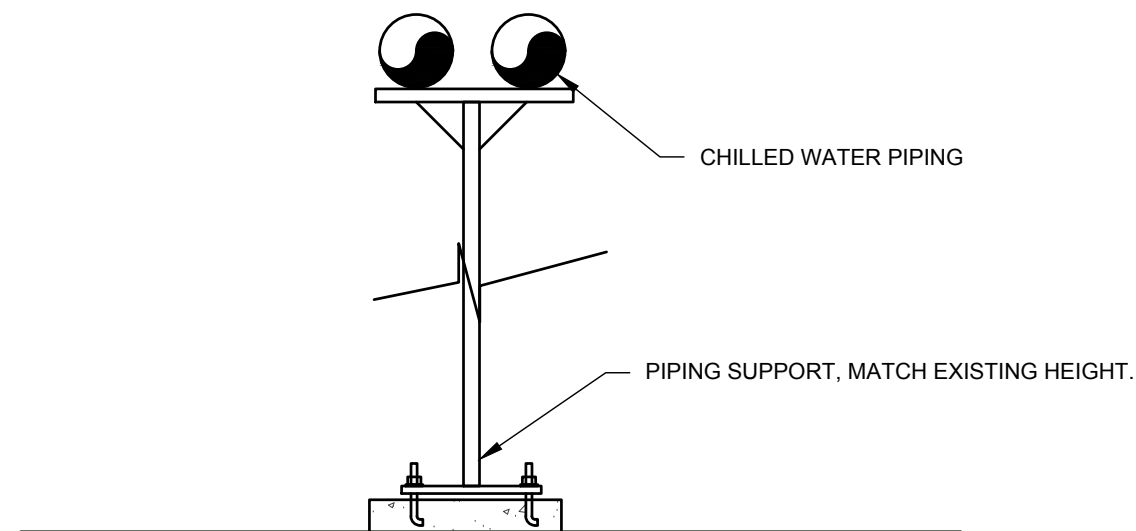
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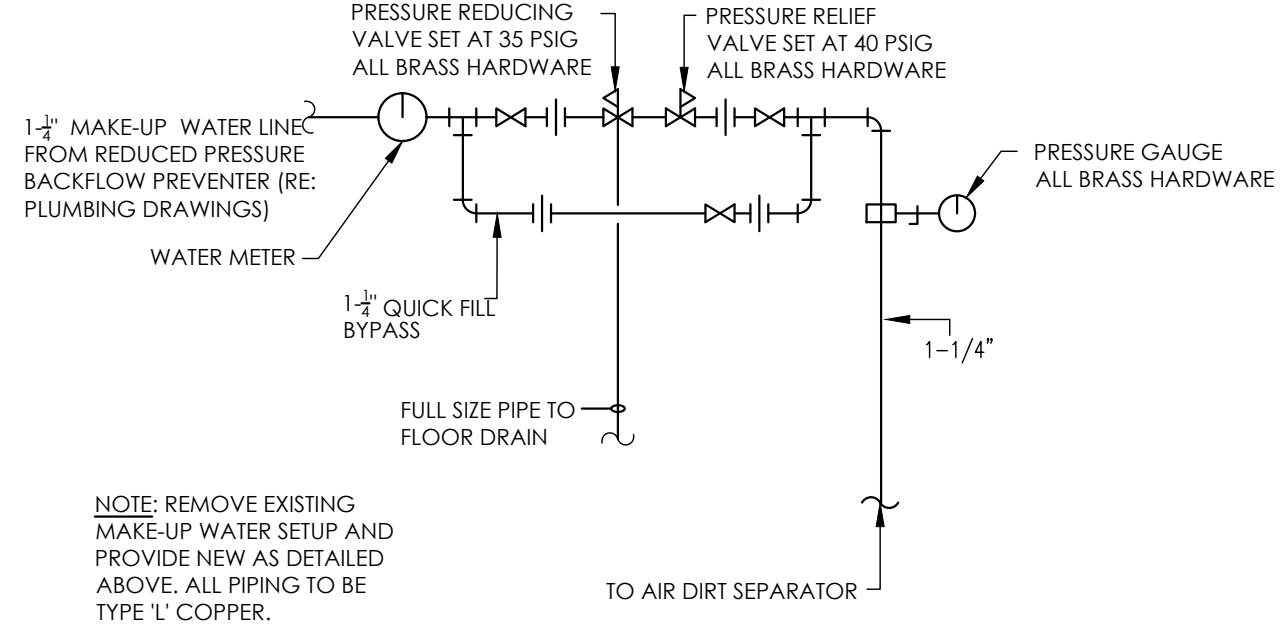
01

CHILLED WATER LINE AT CHILLERS
NO SCALE

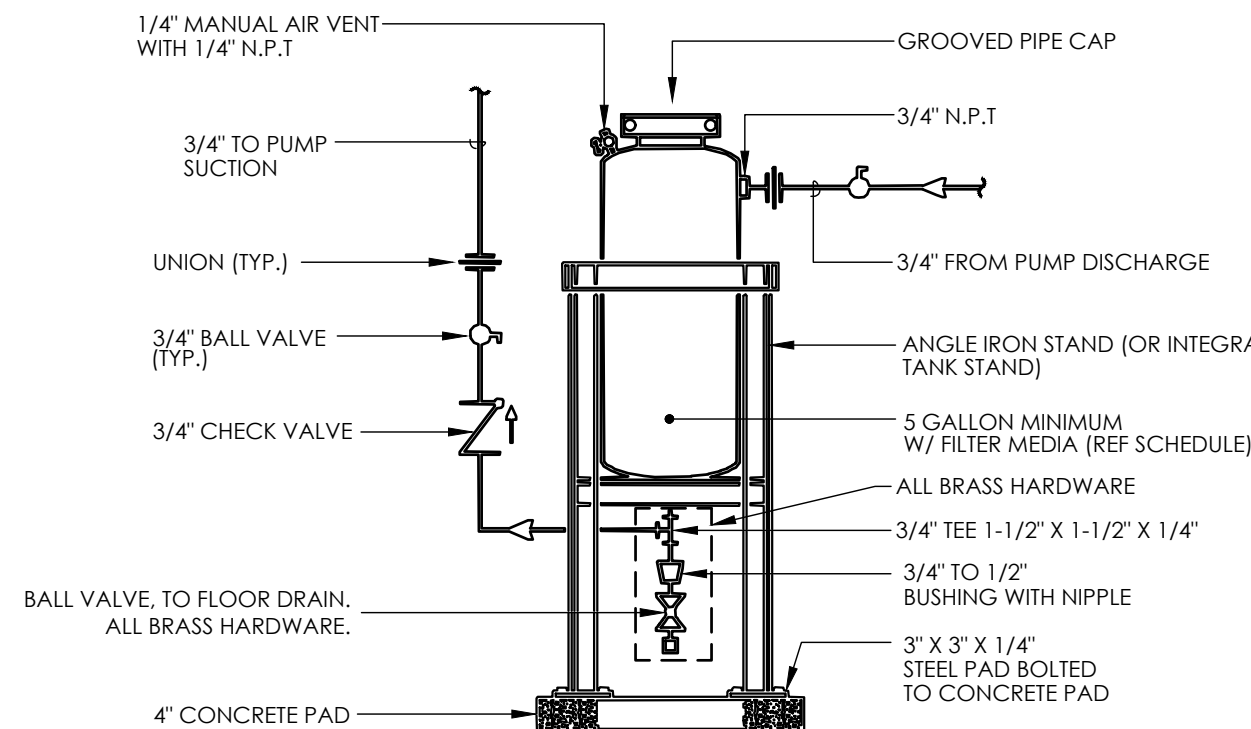
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PIPE SUPPORT
NO SCALE

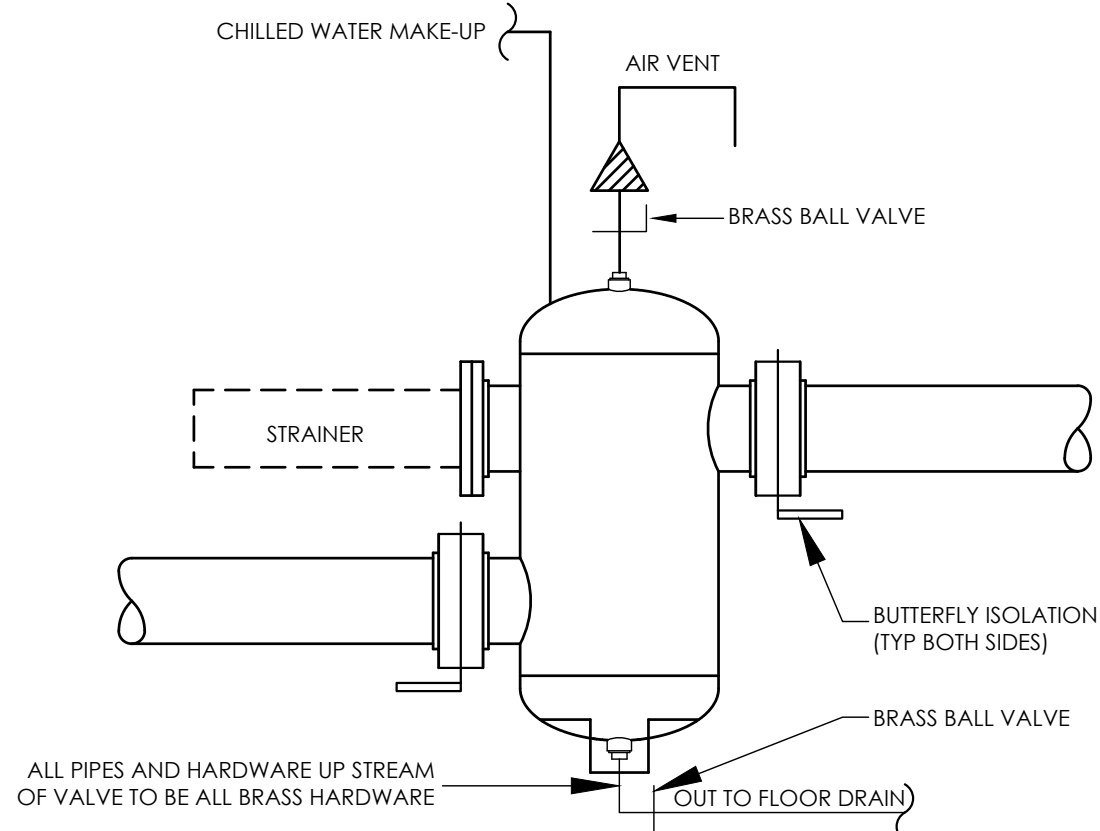
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CHILLED WATER SYSTEM MAKE UP WATER
NO SCALE

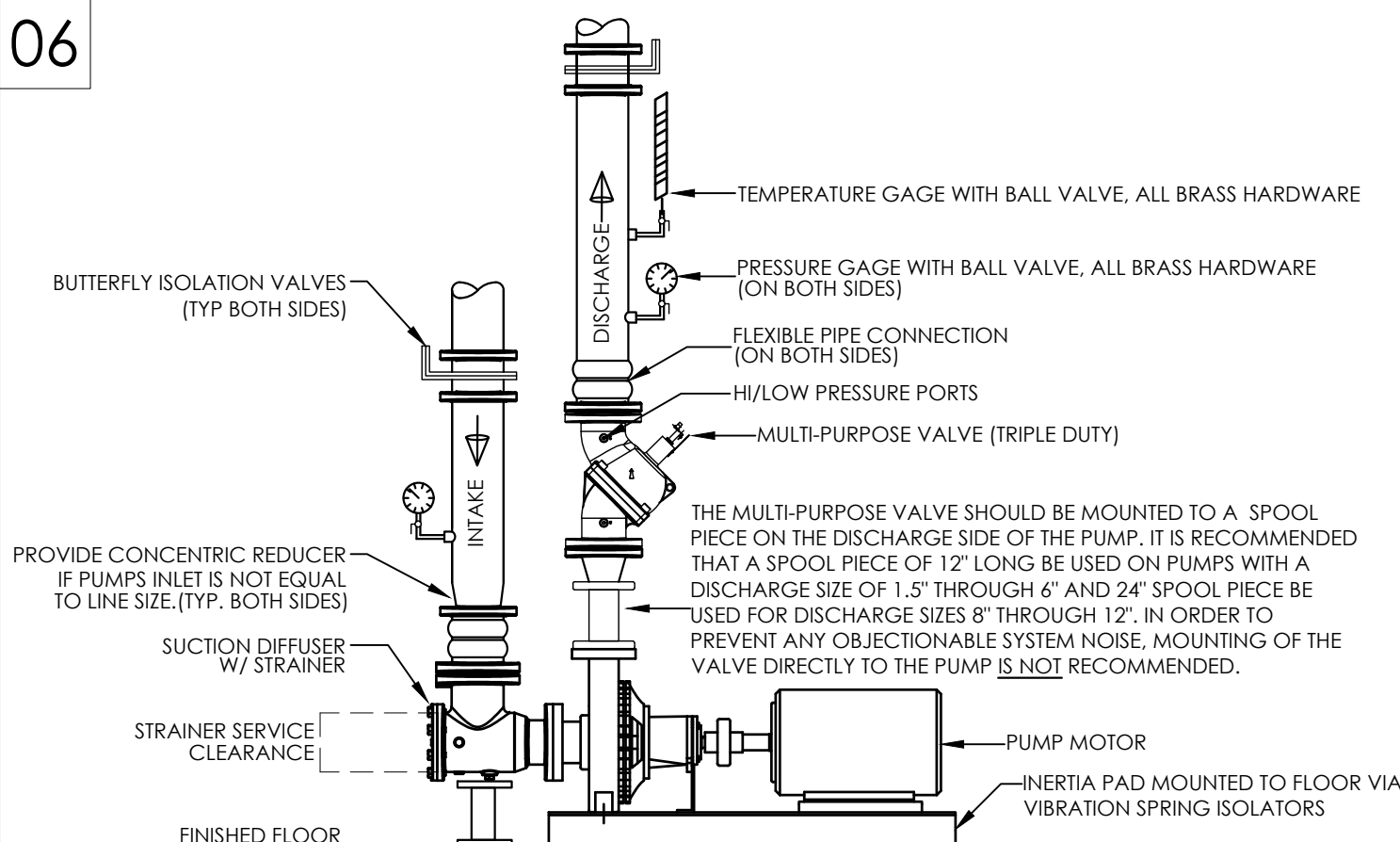
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CHEMICAL BYPASS FEEDER
NO SCALE

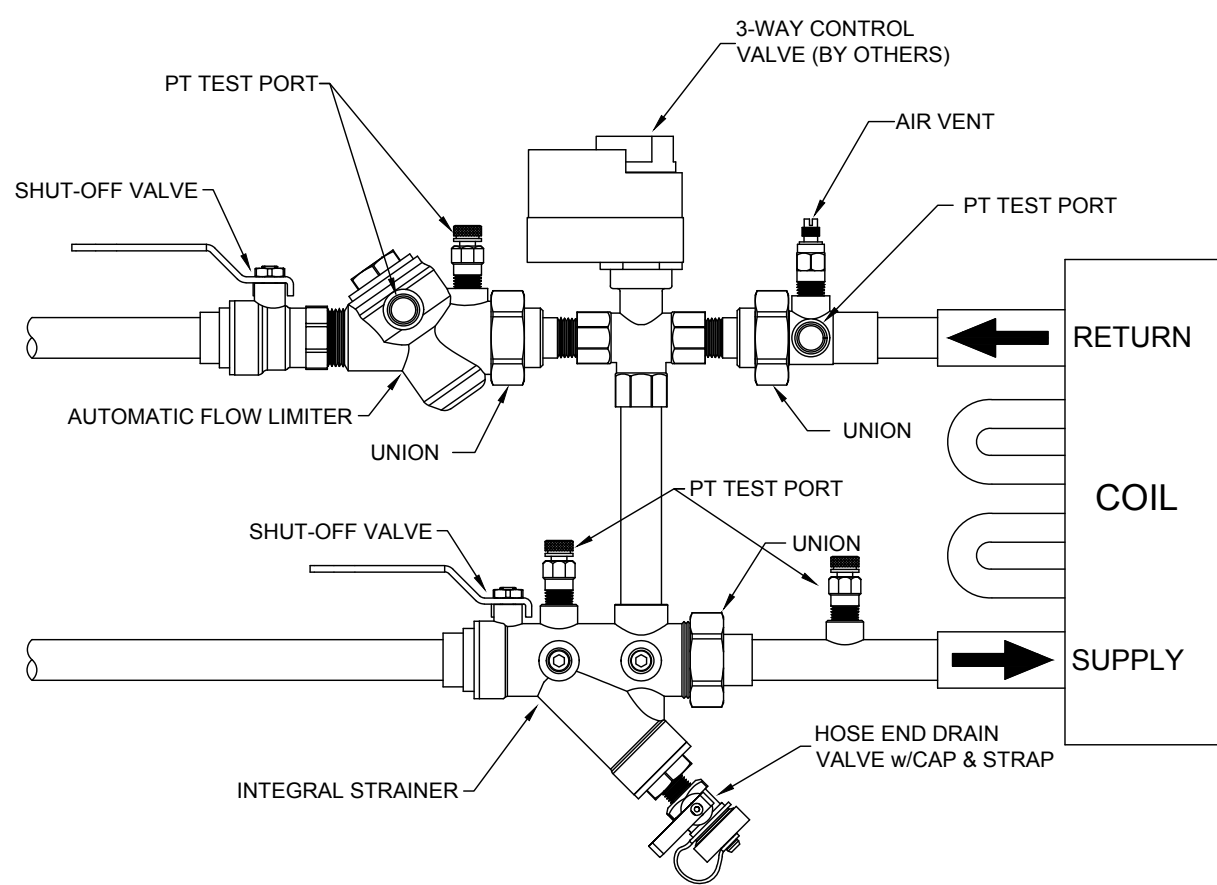
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AIR-DIRT SEPARATOR
NO SCALE

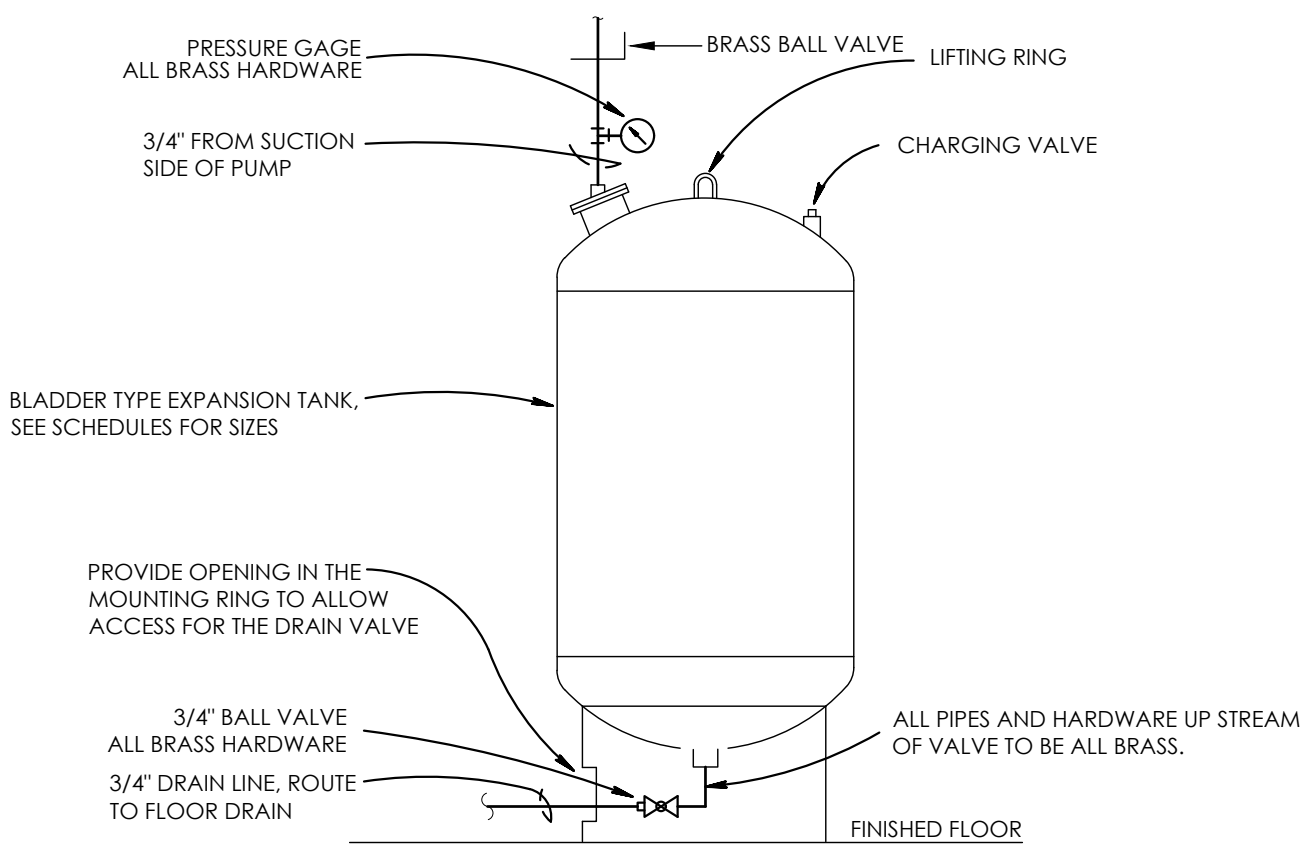
06

PUMP DETAIL (END SUCTION)
NO SCALE

07

HYDRONIC COIL CONNECTION (3-WAY)
AUTOMATIC BALANCING

08

EXPANSION TANK DETAIL
NO SCALE

AIR-COOLED CHILLER SCHEDULE

TAG	CH-1A (Cosmetology)	CH-1C (Gymnasium)
TYPE	SCROLL	SCROLL
PHYSICAL PARAMETERS		
NOMINAL CAPACITY (TONS)	160	130
CAPACITY AT DESIGN CONDITIONS (TONS)	144.6	120.4
ENTERING WATER TEMP (DEG F)	56	56
LEAVING WATER TEMP (DEG F)	44	44
FOULING FACTOR	0.0001	0.0001
EVAP CONFIG	1 PASS	1 PASS
DESIGN FLOW RATE (GPM)	290	240
MIN WATER FLOW RATE (GPM)	192	156
DESIGN PRESS. DROP FT. WATER	5.4	8.01
DETAILS AND ACCESSORIES		
AMBIENT DB (°F)	103	103
KW INPUT (MAX)	191.5 KW	162.3 KW
VOLTS / PHASE	460/3	460/3
POWER CONNECTION	SINGLE POINT	SINGLE POINT
CKT 1 MCA/MOCP	329/350	277/300
CKT 2 MCA/MOCP	-	-
MIN. FULL LOAD EFFICIENCY @ ARI (EER)	10.23	10.07
MIN. PART LOAD EFFICIENCY @ ARI (PLV)	17.08	16.66
MANUFACTURER	CARRIER	CARRIER
MODEL	30RB160	30RB130
MAX OPER. WEIGHT	10,300 LBS	8,100 LBS
NOTES	ALL	ALL

NOTES:

- SINGLE POINT POWER OF CONNECTION WITH FACTORY CIRCUIT BREAKER.
- PROVIDE COMPLETE CONDENSER COIL COATING WITH MINIMUM 5,000 HR. SALT SPRAY RATING PER ASTM B117. COATING TO BE UV RESISTANT.
- PROVIDE HVAC CONTROLS COMMUNICATION INTERFACE CARD - COORDINATE REQUIREMENTS WITH EXISTING CONTROLS MANUFACTURER & STANDARDS.
- PROVIDE 120V CONVENIENCE GFI DUPLEX RECEPTACLE, UNIT POWERED.
- PROVIDE 5-YR ENTIRE UNIT PARTS, LABOR AND REFRIGERANT WARRANTY.
- PROVIDE WITH HUMAN INTERFACE PANEL.
- PROVIDE LOUVERED HAIL GUARDS FOR EXPOSED COILS AND SECURITY GRILLES PROTECTING COMPRESSORS
- PROVIDE WITH LOW NOISE FANS AND SOUND ENHANCEMENT PACKAGE
- PROVIDE PHASE AND UNDER/OVER VOLTAGE PROTECTION.
- PROVIDE W/ HIGH EFFICIENCY CHILLERS.
- PROVIDE W/ FACTORY INSTALLED FLOW SWITCHES.
- CHILLER CONDENSER COIL TO BE CONSTRUCTED OF COPPER TUBING W/ ALUMINUM FINS. MICROCHANNEL COILS WILL NOT BE ACCEPTED.
- PROVIDE W/ VARIABLE SPEED CONDENSER FANS.
- PROVIDE W/ FACTORY FREEZE PROTECTION & SUCTION LINE INSULATION.
- CHILLER TO USE ELECTRONIC EXPANSION VALVES. TXVs WILL NOT BE ACCEPTED.
- MECHANICAL CONTRACTOR TO PROVIDE & MOUNT CHILLER ON 2" TALL VIBRATION PADS EQUAL TO 'NRC ELASTOMERIC PAD' ISOLATORS BY 'VMC GROUP' OR 'XIP ELASTOMERIC COATED FIBERGLASS PAD' ISOLATORS BY 'KINETICS NOISE CONTROL'.

PUMPS SCHEDULE

TAG	PP-1A,2A	PP-1C,2C
LOCATION	MECH YARD	MECH YARD
SERVICE	CH-1A(Cosmo)	CH-1C(Gym)
TYPE	END SUCTION	END SUCTION
PUMP DETAILS AND ACCESSORIES		
FLOW (GPM)	290	240
DESIGN HEAD (FT.)	90	65
PUMP EFF. (%)	71%	77%
MOTOR TYPE	NEMA PREMIUM	NEMA PREMIUM
MOTOR POWER	10 HP	7.5 HP
MOTOR SPEED	1760 RPM	1760 RPM
IMPELLER DIA. (IN.)	10.3"	8.1"
SUCTION SIZE (IN.)	3"	3"
DISCHARGE (IN.)	2.5"	2.5"
VOLTS/PHASE	480/3	480/3
MANUFACTURER	TACO	TACO
MODEL	F12511D	F12510C
NOTES	ALL	ALL

NOTES:

- PROVIDE W/ PREMIUM EFFICIENT MOTOR, EQUAL TO BALDOR SUPER E-.
- PROVIDE W/ MOTOR SHAFT GROUNDING RINGS.
- MECHANICAL CONTRACTOR TO PROVIDE VFD W/ MANUAL BYPASS & DISCONNECT. ELECTRICAL CONTRACTOR TO MOUNT & WIRE VFD.
- PROVIDE W/ ISOLATION VALVE, CONCENTRIC REDUCER & SUCTION DIFFUSER ON PUMP SUCTION INLET.
- PROVIDE W/ PIPING SPOOL PIECE, CONCENTRIC REDUCER, TRIPLE-DUTY VALVE & ISOLATION VALVE ON PUMP DISCHARGE OUTLET.

VFD SCHEDULE

TAG	PP-1A,2A	PP-1C,2C
SERVES	2	2
QUANTITY	2	2
DETAILS AND ACCESSORIES		
HP	10	7.5
INPUT VOLTAGE	480/3	480/3
MOUNTING SURFACE	WALL	WALL
ENCLOSURE	NEMA 4X	NEMA 4X
DDC SYSTEM INTERFACE	(SEE NOTE 3)	bacnet/lon
MANUFACTURER	YASKAWA	YASKAWA
MODEL	Z1000	Z1000
NOTES	1,2,3,4	1,2,3,4

NOTES:

- PROVIDE VFD W/ INTEGRAL BYPASS AND DISCONNECT.
- VFD SHALL BE PROVIDED BY MECHANICAL CONTRACTOR & WIRE BY ELECTRICAL CONTRACTOR.
- PROVIDE W/ ANY DDC INTERFACE REQUIRED FOR CONTROL BY EXISTING HVAC CONTROLS. COORDINATE W/ EXISTING CONDITIONS & SERVICES
- MOUNT VFD'S ON MECHANICAL YARD WALL, REPLACING EX. MS.

CHILLED WATER VALVE SCHEDULE

TAG	VLV-1A	VLV-2A	VLV-1B	VLV-1C	VLV-2C	VLV-3C	VLV-4C
SERVICE	AHU-1A	AHU-2A	AHU-1B	AHU-1C	AHU-2C	AHU-3C	AHU-4C
TYPE	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY
PHYSICAL PARAMETERS							
GPM	58.0	79.0	146.0	37.0	80.0	80.0	37.0
SIZE	1.5"	1.5"	2"	1.5"	2"	2"	1.5"
Cv	29	46	83	19	46	46	19
dP (PSI)	4	4	4	4	4	4	4
PIPE	2.5" (note 2)	2.5" (note 2)	3" (note 2)	2" (note 2)	2.5" (note 2)	2.5" (note 2)	2" (note 2)
MANUFACTURER	BELIMO	BELIMO	BELIMO	BELIMO	BELIMO	BELIMO	BELIMO
MODEL	B339	B341	B352	B3	B3	B349	B338
NOTES	ALL	ALL	ALL	ALL	ALL	ALL	ALL

NOTES

- VALVE SIZES BASED ON 12" (DEGREE DELTA) 9T.
- CONTRACTOR TO FIELD VERIFY SIZE OF EXISTING PIPE NEW VALVES ARE TO BE INSTALLED ON & WHETHER VALVE IS MIXING OR DIVERTING
- MECHANICAL CONTRACTOR TO PROVIDE & INSTALL VALVES AND ACTUATORS.
- BELIMO CHARACTERIZED CONTROL VALVE WITH MODULATING, NON-FAILSAFE ACTUATORS.

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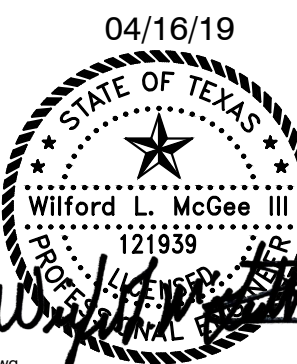
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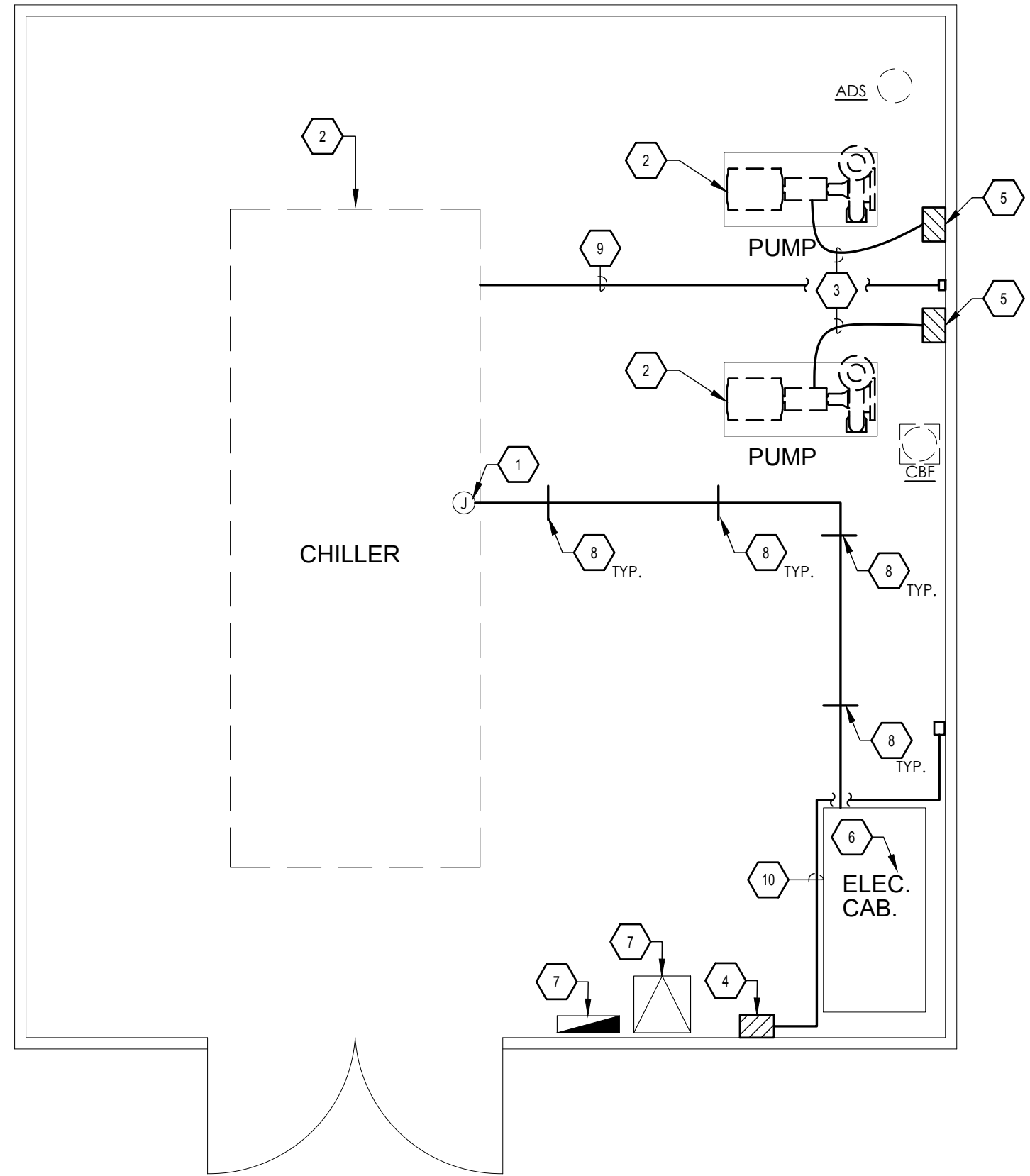
CENTRAL MIDDLE SCHOOL ANNEXES
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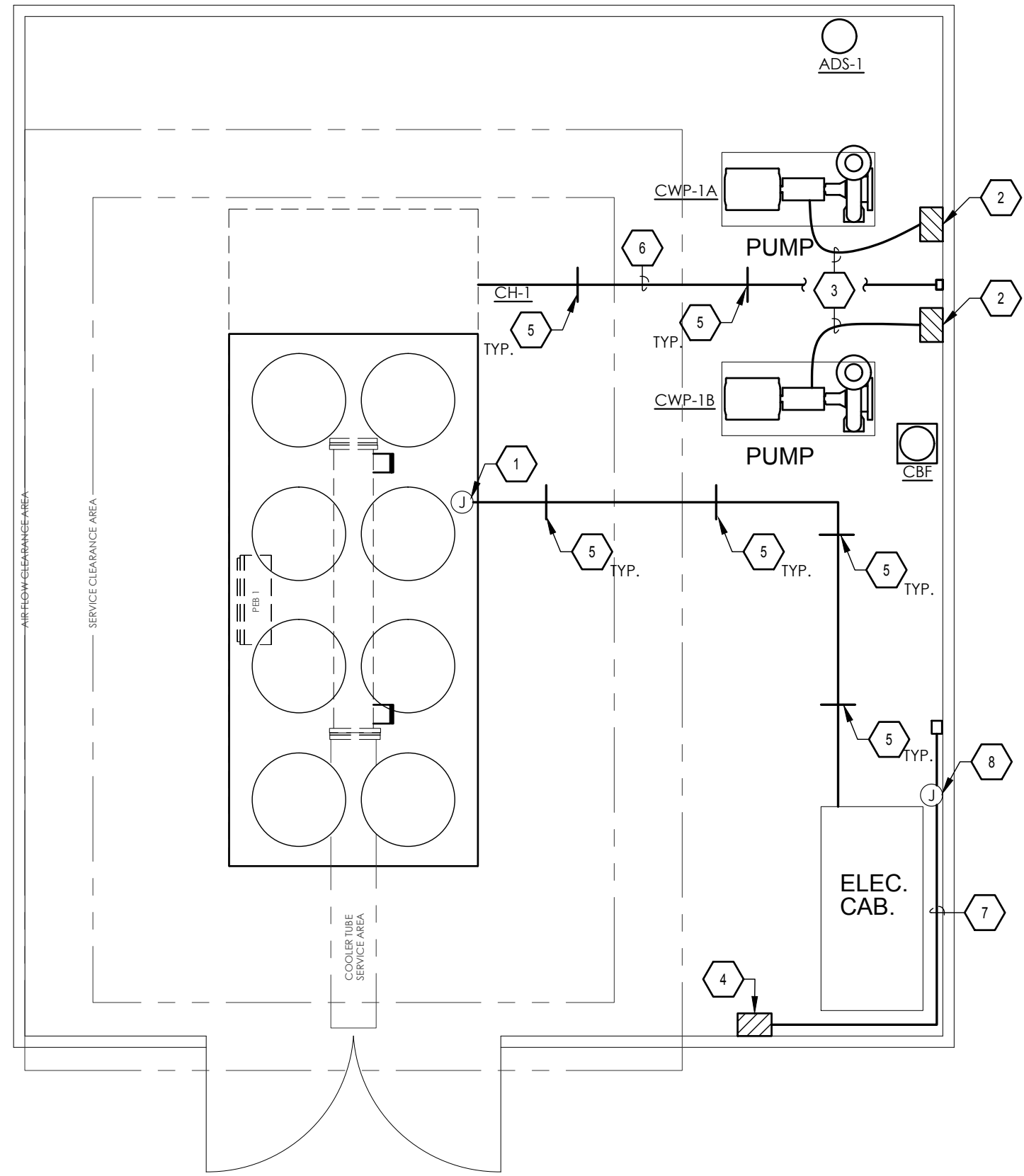
1 GYM MECHANICAL YARD DEMOLITION PLAN
SCALE: 1/4"=1'-0"

GENERAL DEMOLITION NOTES: (TO ALL SHEETS)

- THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE MECHANICAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE WILL BE REQUIRED TO PROPERLY BID THE DEMOLITION WORK.
- PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL EQUIPMENT AND ASSOCIATED CONDUCTORS, CONDUIT, BOXES, ETC. TO PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE MECHANICAL DOCUMENTS IN ADDITION TO THE DIVISION 16 DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK.
- WHERE DEVICES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE REMOVED, THE ASSOCIATED BOXES, CONDUIT, AND CONDUCTORS SHALL BE REMOVED BACK TO THEIR SOURCE.
- WHERE DEVICES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE RELOCATED, THE ASSOCIATED BOXES, CONDUIT, AND CONDUCTORS SHALL BE REMOVED BACK TO A CONCEALED JUNCTION BOX AND NEW PRODUCTS SHALL BE USED TO EXTEND THE SERVICE TO THE NEW LOCATION.
- ALL DEVICES ATTACHED TO WALLS OR CEILINGS SHALL BE REMOVED PER DEMOLITION NOTE A - L WHETHER SHOWN ON DRAWINGS OR NOT.
- WHERE THE REMOVAL OF DEVICES OR EQUIPMENT RENDERS EQUIPMENT DOWNSTREAM INOPERABLE, SERVICE SHALL BE EXTENDED TO THE DOWNSTREAM DEVICE OR EQUIPMENT SO THAT THE DEVICE OR EQUIPMENT IS LEFT IN OPERATING CONDITION.
- COORDINATE DEMOLITION OF DIVISION 16 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.
- ALL EXISTING ELECTRICAL EQUIPMENT, CONDUIT AND WIRING REMOVED DURING CONSTRUCTION NO LONGER REQUIRED AS PART OF AN ACTIVE SYSTEM AND NOT TO BE REUSED SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
- WHERE EXISTING EQUIPMENT IS TO BE RELOCATED, EXTREME CARE SHALL BE TAKEN TO PREVENT DAMAGE DURING THE REMOVAL AND REINSTALLATION. WHERE DAMAGE OCCURS, THE EQUIPMENT SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION AND APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- EXISTING DEVICES AND/OR EQUIPMENT TO BE REUSED SHALL BE CLEANED AND REPAIRED AT THE DISCRETION OF THE ARCHITECT WHERE APPLICABLE.
- ALL DEVICES WITH AN "EX" SYMBOL ARE EXISTING TO REMAIN.

KEYED NOTES: DEMOLITION

- EXISTING ELECTRICAL CONNECTION TO BE DISCONNECT AND RECONNECT FOR NEW CHILLER. COORDINATE WITH MECHANICAL CONTRACTOR.
- EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. REFER TO MECHANICAL DOCUMENTS.
- EXISTING ELECTRICAL CONNECTION TO PUMP TO BE REMOVED.
- EXISTING HVAC CONTROLS ENCLOSURE TO BE REMOVED. ELECTRICAL CIRCUIT/ DEVICE TO BE REUSED FOR NEW HVAC CONTROLS. ELECTRICAL CIRCUIT AND DEVICE TO BE RELOCATED INTO NEW CONTROL ENCLOSURE. COORDINATE WITH MECHANICAL DOCUMENTS.
- EXISTING MOTOR STARTERS TO BE REPLACED WITH NEW VFD. REUSE EXISTING ELECTRICAL CIRCUIT FOR NEW VFD. COORDINATE WITH MECHANICAL DOCUMENTS.
- EXISTING ELECTRICAL SWITCHBOARD TO REMAIN. 480/277V, 3Ø, 4W.
- EXISTING ELECTRICAL GEAR TO REMAIN.
- EXISTING PIPE SUPPORTS SHALL BE REPLACED WITH NEW. REFER TO REMODEL PLANS.
- EXISTING CONDUIT ON FLOOR LEVEL SHALL BE ELEVATED WITH PIPE SUPPORTS ALONG EXISTING PATH. REFER TO REMODEL PLANS.
- EXISTING CONDUIT SHALL BE REROUTED. REFER TO REMODEL PLANS.



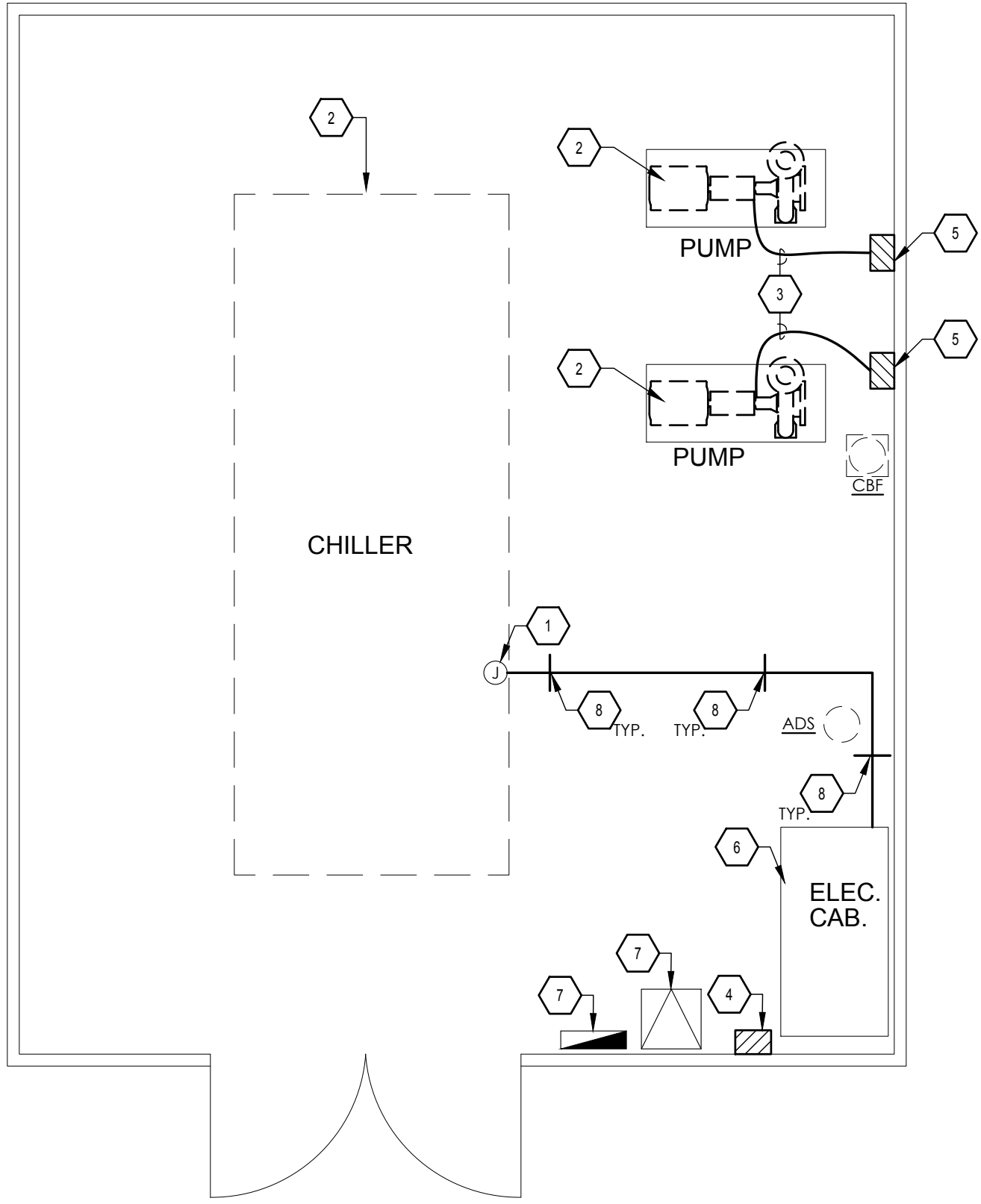
2 GYM MECHANICAL YARD REMODEL PLAN
SCALE: 1/4"=1'-0"

GENERAL ELECTRICAL NOTES (TO ALL SHEETS)

- ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/240V, 1-PHASE, 3-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED FOR ALL CONSTRUCTION NEEDS.
- CONTRACTOR IS RESPONSIBLE TO VERIFY AND COORDINATE WITH EXISTING/NEW UNDERGROUND UTILITIES PRIOR TO ANY WORK.
- CONTRACTOR IS RESPONSIBLE CALL DIG-TESS: 1-800-DIG-TESS 2-BUSINESS DAYS IN ADVANCE.
- ALL ELECTRICAL EQUIPMENT OUTDOORS SHALL BE RATED TYPE NEMA 3R UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES. ALL WORK SHALL CONFORM TO NATIONAL ELECTRICAL CODES AND ALL OTHER AUTHORITY HAVING JURISDICTION. OBTAIN PERMITS AND PAY ALL FEES. PERFORM MODIFICATIONS TO MEET CODE AND ORDINANCE REQUIREMENTS AT NO ADDITIONAL COST TO OWNER, ARCHITECT OR ENGINEER. VERIFY PRIOR TO BID DATE.
- VERIFY AT JOB SITE THE EXACT LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS, COLUMNS, ETC. TO LOCATE EQUIPMENT CONDUIT, PANELS AND DEVICES. IF DEVIATIONS FROM THE DRAWING ARE NECESSARY TO MEET STRUCTURAL CONDITIONS MAKE DEVIATIONS WITHOUT ADDITIONAL COST, TO OWNER, ARCHITECT, OR ENGINEER.
- IN COOPERATION WITH OTHER CONTRACTORS, DETERMINE THE EXACT LOCATION OF EQUIPMENT AND DEVICES AND CONNECTIONS THERETO BY REFERENCE TO THE SUBMITTALS AND ROUGH-IN DRAWINGS, AND BY MEASUREMENTS AT THE SITE. REFER TO ALL OTHER TRADES SUBMITTAL FOR ELECTRICAL INFORMATION.
- GROUND ENTIRE ELECTRICAL SYSTEM IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- VERIFY AT JOB SITE GENERAL WORK TO BE DONE AS SPECIFIED, AS NOTED, OR AS REQUIRED FOR INSTALLATION ELECTRICAL SYSTEMS PRIOR TO SUBMISSION OF BIDS.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND EQUIPMENT TO BE REMOVED AND REPLACED BEFORE SUBMITTING HIS BID.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SMALL SCALE ONLY. THEY CONVEY THE INTENT OF THE WORK BUT DO NOT SHOW DETAIL SUCH AS JUNCTION AND PULL BOXES REQUIRED BY THE SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE(NEC). PROVIDE ALL MATERIALS AND METHODS CALLED FOR IN THE SPECIFICATIONS AND AS REQUIRED IN THE NEC TO PROVIDE A COMPLETE INSTALLATION OF ALL WORK.
- ALL WIRING SHALL BE COPPER.
- ALL SLEEVES, PENETRATIONS, ETC., SHALL BE SEALED SOLID NON-SHRINKING MATERIAL IMMEDIATELY UPON FILLING OF THE OPENING WITH PIPE OR CONDUIT.
- ALL UNISTRUT USED SHALL BE GALVANIZED.

KEYED NOTES: REMODEL

- RECONNECT EXISTING ELECTRICAL CIRCUIT TO NEW CHILLER UNIT.
- INSTALL NEW VFD, PROVIDED BE MECHANICAL CONTRACTOR. INSTALL VFD AT EXISTING LOCATION.
- PROVIDE 4#10, 1#10G, 3/4" C FROM NEW VFD TO PUMP.
- RELOCATE EXISTING ELECTRICAL TO NEW CONTROL ENCLOSURE LOCATION.
- NEW PIPE SUPPORTS TO REPLACE EXISTING. PIPE SUPPORT SHALL BE EQUAL TO MIRO INDUSTRIES #8-BASE STRUT-12. BASE SHALL BE POLYCARBONATE AND ALL METAL PARTS SHALL BE STAINLESS STEEL. CONTRACTOR SHALL FIELD VERIFY EXISTING HEIGHT CONDITIONS TO MATCH FOR NEW SUPPORTS. IF CONDUIT IS ON THE FLOOR LEVEL, VERIFY WITH OWNER FOR HEIGHT.
- CONDUIT SHALL BE ELEVATED ALONG EXISTING PATH. VERIFY WITH OWNER FOR DESIRED HEIGHT.
- REROUTED CONTROLS CONDUIT. FIELD VERIFY EXISTING CONDITIONS AND COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ANY WORK.
- PROVIDE NEMA-3R J-BOX FOR REROUTED CONTROLS CONDUIT. FIELD VERIFY EXISTING CONDITIONS AND COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ANY WORK.

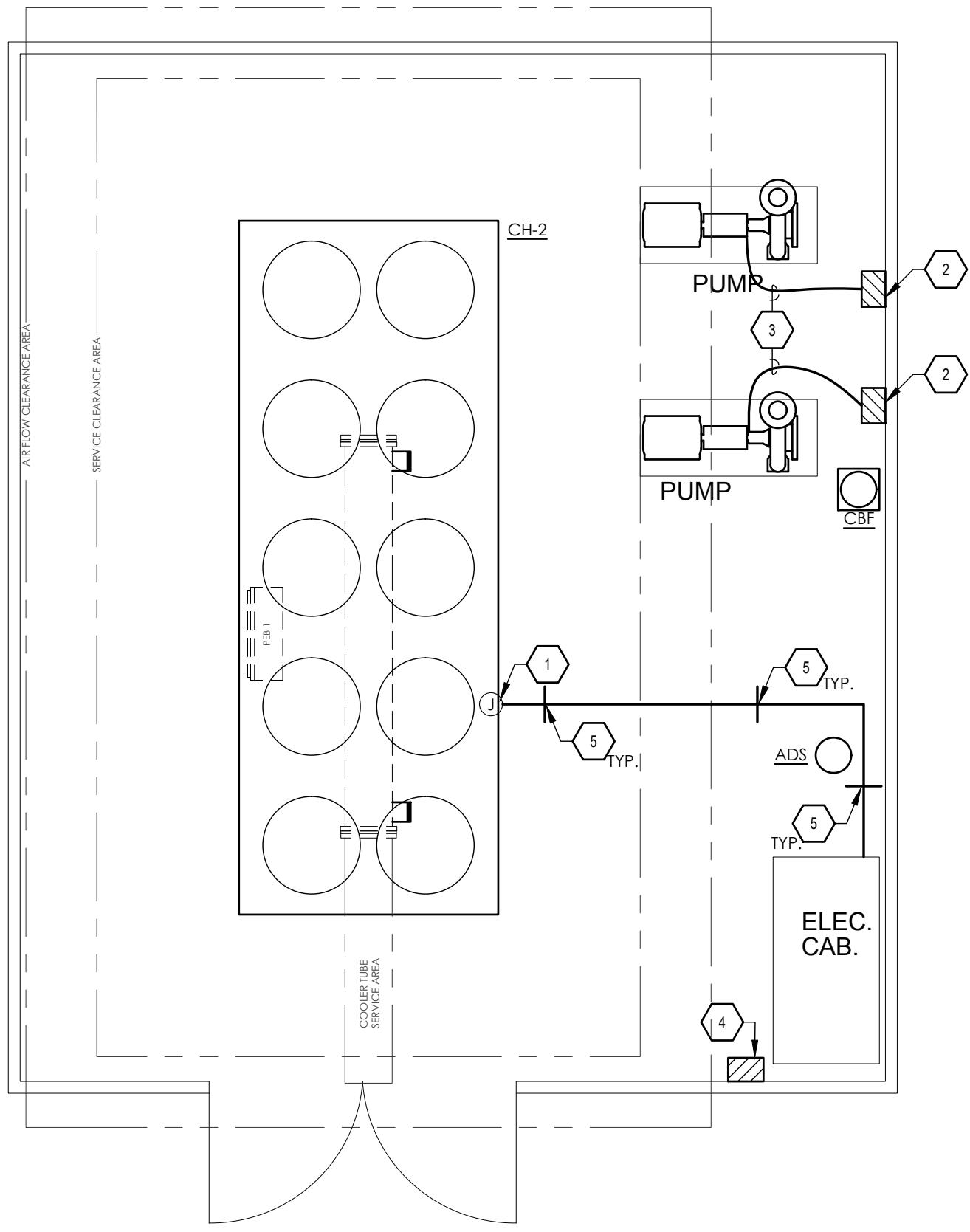


GENERAL DEMOLITION NOTES: (TO ALL SHEETS)

- A. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE MECHANICAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE WILL BE REQUIRED TO PROPERLY BID THE DEMOLITION WORK.
- B. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL EQUIPMENT AND ASSOCIATED CONDUCTORS, CONDUIT, BOXES, ETC., TO PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
- C. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE MECHANICAL DOCUMENTS IN ADDITION TO THE DIVISION 16 DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK.
- D. WHERE DEVICES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE REMOVED, THE ASSOCIATED BOXES, CONDUIT, AND CONDUCTORS SHALL BE REMOVED BACK TO THEIR SOURCE.
- E. WHERE DEVICES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE RELOCATED, THE ASSOCIATED BOXES, CONDUIT, AND CONDUCTORS SHALL BE REMOVED BACK TO A CONCEALED JUNCTION BOX AND NEW PRODUCTS SHALL BE USED TO EXTEND THE SERVICE TO THE NEW LOCATION.
- F. ALL DEVICES ATTACHED TO WALLS OR CEILINGS SHALL BE REMOVED PER DEMOLITION NOTE A - L WHETHER SHOWN ON DRAWINGS OR NOT.
- G. WHERE THE REMOVAL OF DEVICES OR EQUIPMENT RENDERS EQUIPMENT DOWNSTREAM INOPERABLE, SERVICE SHALL BE EXTENDED TO THE DOWNSTREAM DEVICE OR EQUIPMENT SO THAT THE DEVICE OR EQUIPMENT IS LEFT IN OPERATING CONDITION.
- H. COORDINATE DEMOLITION OF DIVISION 16 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.
- I. ALL EXISTING ELECTRICAL EQUIPMENT, CONDUIT AND WIRING REMOVED DURING CONSTRUCTION NO LONGER REQUIRED AS PART OF AN ACTIVE SYSTEM AND NOT TO BE REUSED SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
- J. WHERE EXISTING EQUIPMENT IS TO BE RELOCATED, EXTREME CARE SHALL BE TAKEN TO PREVENT DAMAGE DURING THE REMOVAL AND REINSTALLATION. WHERE DAMAGE OCCURS, THE EQUIPMENT SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION AND APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- K. EXISTING DEVICES AND/OR EQUIPMENT TO BE REUSED SHALL BE CLEANED AND REPAIRED AT THE DISCRETION OF THE ARCHITECT WHERE APPLICABLE.
- L. ALL DEVICES WITH AN "EX" SYMBOL ARE EXISTING TO REMAIN.

KEYED NOTES: DEMOLITION

- 1 EXISTING ELECTRICAL CONNECTION TO BE DISCONNECT AND RECONNECT FOR NEW CHILLER. COORDINATE WITH MECHANICAL CONTRACTOR.
- 2 EXISTING MECHANICAL EQUIPMENT TO BE REMOVED, REFER TO MECHANICAL DOCUMENTS.
- 3 EXISTING ELECTRICAL CONNECTION TO PUMP TO BE REMOVED.
- 4 EXISTING HVAC CONTROLS ENCLOSURE TO BE REMOVED. ELECTRICAL CIRCUIT/ DEVICE TO BE REUSED FOR NEW HVAC CONTROLS. ELECTRICAL CIRCUIT AND DEVICE TO BE RELOCATED INTO NEW CONTROL ENCLOSURE. COORDINATE WITH MECHANICAL DOCUMENTS.
- 5 EXISTING MOTOR STARTERS TO BE REPLACED WITH NEW VFD. REUSE EXISTING ELECTRICAL CIRCUIT FOR NEW VFD. COORDINATE WITH MECHANICAL DOCUMENTS.
- 6 EXISTING ELECTRICAL SWITCHBOARD TO REMAIN. 480/277V, 3Ø, 4W.
- 7 EXISTING ELECTRICAL GEAR TO REMAIN.
- 8 EXISTING PIPE SUPPORTS SHALL BE REPLACED WITH NEW AT EXISTING LOCATIONS. REFER TO REMODEL PLANS.



GENERAL ELECTRICAL NOTES (TO ALL SHEETS)

- A. ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/240V, 1-PHASE, 3-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED FOR ALL CONSTRUCTION NEEDS.
- B. CONTRACTOR IS RESPONSIBLE TO VERIFY AND COORDINATE WITH EXISTING/NEW UNDERGROUND UTILITIES PRIOR TO ANY WORK.
- C. CONTRACTOR IS RESPONSIBLE CALL DIG-TESS: 1-1800-DIG-TESS 2-BUSINESS DAYS IN ADVANCE.
- D. ALL ELECTRICAL EQUIPMENT OUTDOORS SHALL BE RATED TYPE NEMA 3R UNLESS OTHERWISE NOTED.
- E. CONTRACTOR SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES. ALL WORK SHALL CONFORM TO NATIONAL ELECTRICAL CODES AND ALL OTHER AUTHORITY HAVING JURISDICTION. OBTAIN PERMITS AND PAY ALL FEES. PERFORM MODIFICATIONS TO MEET CODE AND ORDINANCE REQUIREMENTS AT NO ADDITIONAL COST TO OWNER. ARCHITECT OR ENGINEER, VERIFY PRIOR TO BID DATE.
- F. VERIFY AT JOB SITE THE EXACT LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS, COLUMNS, ETC., TO LOCATE EQUIPMENT CONDUIT, PANELS AND DEVICES. IF DEVIATIONS FROM THE DRAWING ARE NECESSARY TO MEET STRUCTURAL CONDITIONS MAKE DEVIATIONS WITHOUT ADDITIONAL COST, TO OWNER, ARCHITECT, OR ENGINEER.
- G. IN COOPERATION WITH OTHER CONTRACTORS, DETERMINE THE EXACT LOCATION OF EQUIPMENT AND DEVICES AND CONNECTIONS THERETO BY REFERENCE TO THE SUBMITTALS AND ROUGH-IN DRAWINGS, AND BY MEASUREMENTS AT THE SITE. REFER TO ALL OTHER TRADES SUBMITTAL FOR ELECTRICAL INFORMATION.
- H. GROUND ENTIRE ELECTRICAL SYSTEM IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- I. VERIFY AT JOB SITE GENERAL WORK TO BE DONE AS SPECIFIED, AS NOTED, OR AS REQUIRED FOR INSTALLATION ELECTRICAL SYSTEMS PRIOR TO SUBMISSION OF BIDS.
- J. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND EQUIPMENT TO BE REMOVED AND REPLACED BEFORE SUBMITTING HIS BID.
- K. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SMALL SCALE ONLY. THEY CONVEY THE INTENT OF THE WORK BUT DO NOT SHOW DETAIL SUCH AS JUNCTION AND PULL BOXES REQUIRED BY THE SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE (NEC). PROVIDE ALL MATERIALS AND METHODS CALLED FOR IN THE SPECIFICATIONS AND AS REQUIRED IN THE NEC TO PROVIDE A COMPLETE INSTALLATION OF ALL WORK.
- L. ALL WIRING SHALL BE COPPER.
- M. ALL SLEEVES, PENETRATIONS, ETC. SHALL BE SEALED SOLID NON-SHRINKING MATERIAL IMMEDIATELY UPON FILLING OF THE OPENING WITH PIPE OR CONDUIT.
- N. ALL UNISTRUT USED SHALL BE GALVANIZED.

KEYED NOTES: REMODEL

- 1 RECONNECT EXISTING ELECTRICAL CIRCUIT TO NEW CHILLER UNIT.
- 2 INSTALL NEW VFD, PROVIDED BE MECHANICAL CONTRACTOR. INSTALL VFD AT EXISTING LOCATION.
- 3 PROVIDE 4#10, 1#10G, 3/4" C FORM NEW VFD TO PUMP.
- 4 RELOCATE EXISTING ELECTRICAL TO NEW CONTROL ENCLOSURE LOCATION.
- 5 NEW PIPE SUPPORTS TO REPLACE EXISTING. PIPE SUPPORT SHALL BE EQUAL TO MIRO INDUSTRIES #8-BASE STRUT-12. BASE SHALL BE POLYCARBONATE AND ALL METAL PARTS SHALL BE STAINLESS STEEL. CONTRACTOR SHALL FIELD VERIFY EXISTING HEIGHT CONDITIONS TO MATCH FOR NEW SUPPORTS. IF CONDUIT IS ON THE FLOOR LEVEL, VERIFY WITH OWNER FOR HEIGHT.

1 COSMETOLOGY MECHANICAL YARD DEMOLITION PLAN
SCALE: 1/4"=1'-0"

2 COSMETOLOGY MECHANICAL YARD REMODEL PLAN
SCALE: 1/4"=1'-0"

ELECTRICAL LEGEND-GENERAL

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
	HEAVY DUTY DISCONNECT SWITCH FUSED
	HEAVY DUTY DISCONNECT SWITCH NONFUSED
	HEAVY DUTY COMBINATION DISCONNECT/MOTOR STARTER
	HEAVY DUTY MOTOR STARTER
	ENCLOSED BREAKER, RE-TO SCH, FOR MORE INFO.
	ROTARY TYPE DISCONNECT SWITCH
	120/277-208/480V, 20AMP, MOTOR RATED SWITCH, NEMA-1 (INTERIOR) ENCLOSURE, NEMA-3R (EXTERIOR) ENCLOSURE. VOLTAGE TO BE SELECTED PER EQUIPMENT CIRCUIT REQUIREMENTS.
	MOTOR
	PANELBOARD, CLEARANCE AS PER LATEST NEC
	SWITCH LEG
	ELECTRICAL CONDUIT
	UNDERGROUND ELECTRICAL CONDUIT
	COMMUNICATION CONDUIT AND WIRING
	EMERGENCY STOP CONTROL CIRCUIT WIRING
	MULTI-POLE DEVICE CIRCUIT NUMBERS
	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS
	CONDUIT AND WIRE HOMERUN TO PANEL SHORT HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATES OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION INDICATES PANEL AND BREAKER.
	UNDERGROUND CONDUIT AND WIRE HOMERUN TO PANEL SHORT HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATED OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION INDICATES PANEL AND BREAKER.
	DETAIL NUMBER
	SHEET NUMBER
	1/2\"/>
	4\"/>
	PHOTO CELL (MFR, INTERMATIC #K4136M)
	LIGHTING CONTACTOR, NEMA-1, W/H.O.A. SWITCH
	TIME CLOCK (MFR, TORK #7202Z)
	CIRCULATING PUMP
	ELECTRICAL DEVICE AS SHOWN ON PLANS SURFACE MOUNT RACEWAY. SURFACE MOUNT RACEWAY SHALL BE WIREMOLD #V700 SERIES. PROVIDE ALL RELATED #V700 SERIES ACCESSORIES FOR AN OPERABLE SYSTEM.

ELECTRICAL LEGEND - WIRING DEVICES

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

	SINGLE RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R
	HOSPITAL GRADE DUPLEX RECEPTACLE/GFI - 20A/125V/2P/3W/G NEMA 5-20R
	DUPLEX RCPT, GFI - 20A/125V/2P/3W/G NEMA 5-20R
	DUPLEX RCPT, WEATHER RESISTANT \"WR\", GFI INSTALLED IN A \"IN-USE\" WEATHER PROOF STEEL ENCLOSURE - 20A/125V/2P/3W/G NEMA 5-20R WP/\"IN-USE\" SHALL BE EQUAL TO MFR, CARLON, METALLIC SERIES SINGLE GANG, VERTICAL MOUNT #ME9UVMG DOUBLE GANG, VERTICAL MOUNT #ME9U2VMG
	QUADRAPLEX RECEPTACLE
	ISOLATED GROUND QUADPLEX RECEPTACLE
	ISOLATED GROUND DUPLEX RECEPTACLE - 20A/125V NEMA 5-20R
	208V RECEPTACLE, VERIFY NEMA NO. WITH EQUIPMENT SUPPLIER
	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)
	J-BOX - AIR HAND DRYER: (RECESSED HAND DRYERS TO BE PROVIDED BY DIVISION 16. ELECTRICAL) #B-750 AUTOMATIC HANDCRAFT AS MANUFACTURER BY BOBRICK. (COLOR WHITE) QUANTITY: REFER TO DRAWINGS (MIN. ONE PER LAV. COMPLETE W/ ELEC. CONNECTIONS TYP.)
	4-GANG FLOOR MOUNTED BOX, 2-DUPLEX RECEPTACLE (INCLUDE RECEPTACLE WITH COVER PLATE) 1/2-GANG FOR DATA - FLUSH MOUNTED UNO FLOOR BOX = MFR.-HUBBELL MODEL#CFB4G30CR-24GCVRNK(COVER)-(2)FBMPDUP-FBMP6KS -CFBHR2(MULTISERVICE STEEL RECESSED FLOOR BOX-VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.
	6-GANG FLOOR MOUNTED BOX, 2-DUPLEX RECEPTACLE (INCLUDE RECEPTACLE WITH COVER PLATE) 1/2-GANG FOR DATA - FLUSH MOUNTED UNO FLOOR BOX = MFR.-HUBBELL MODEL#CFB4G30CR-CFBS1R8CVRALU(COVER)-(3)FBMPDUP-FBMP6KS -CFBHR2(MULTISERVICE STEEL RECESSED FLOOR BOX-VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.
	6\"/>
	6\"/>
	6\"/>
	8\"/>
	8\"/>

ELECTRICAL ABBREVIATIONS:

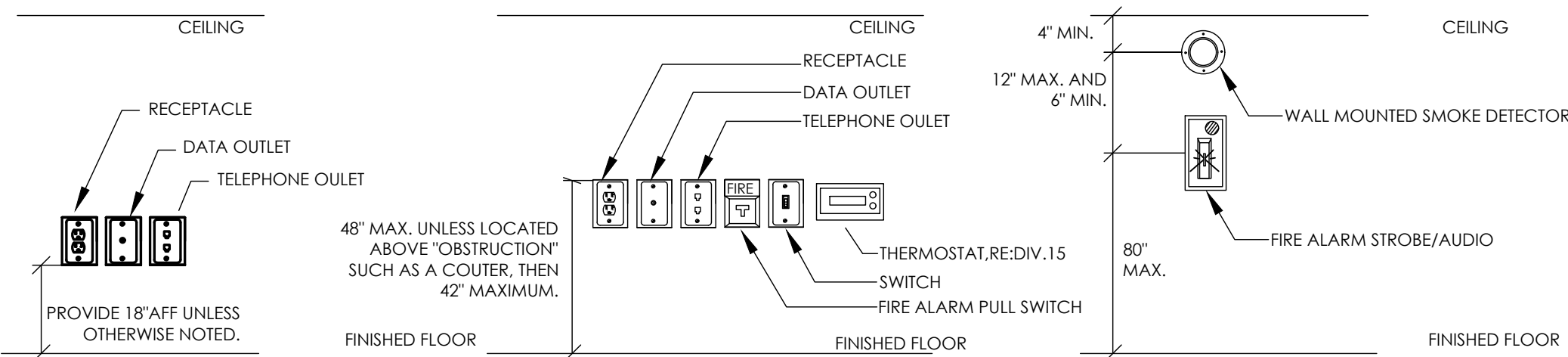
ABBV:	DESCRIPTION	ABBV:	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	MFR.	MANUFACTURER SHARE CIRCUIT
BFC	BELOW FINISHED CEILING	(S.C.)	(S.C.)
C	CONDUIT	GRCP(T)(S)	QUAD RECEPTACLE(S)
CB	CIRCUIT BREAKER	RCPT(S)	DUPLEX RECEPTACLE(S)
EC	EMPTY CONDUIT	CRCP(T)(S)	I.G. RECEPTACLE(S)
EX	EXISTING	QCRCPT(S)	QUAD I.G. RECEPTACLE(S)
F	FUSE	PNL	PANEL
G	GROUND (EQUIPMENT)	SO (S.O.)	SPACE ONLY
GFI	GROUND FAULT INTERRUPTER	SP	SPARE
MTD	MOUNT OR MOUNTED	ST (S.T.)	SHUNT TRIP
NF	NONFUSED	SW	SWITCH
NIC	NOT IN CONTRACT	UF	UNDERFLOOR
H.D	HEAVY DUTY	UG	UNDERGROUND
NL	NIGHT LIGHT	UNO (U.N.O.)	UNLESS NOTED OTHERWISE
AC	ABOVE COUNTER	WG	WIRE GUARD
HT.	HEIGHT	WP	WEATHERPROOF
MTD.	MOUNTING	XFMR	TRANSFORMER
FDR.	FEEDER	MB	MAIN BREAKER
CKT.	CIRCUIT	MLO	MAIN LUGS ONLY
LTG.	LIGHTING	RMC	RIGID METAL CONDUIT
LC	LIGHTING CONTACTOR	RNC	RIGID NONMETALLIC CONDUIT
IG	ISOLATED GROUND	EMT	ELECTRICAL METALLIC TUBING CONDUIT
EA.	EACH	S/N	SOLID NEUTRAL
N1	NEMA-1	AC	ABOVE COUNTER
N3R	NEMA-3R	AHJ	AUTHORITY HAVING JURISDICTION
N4X	NEMA-4X		
SS	STAINLESS STEEL		

NOTES:

- 1.) 48\"/>

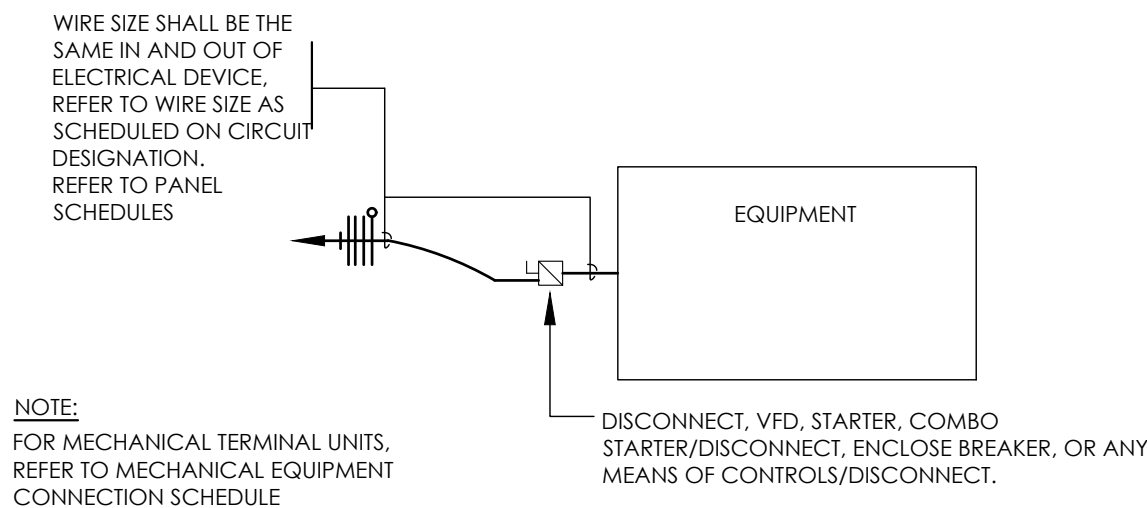
MOUNTING HEIGHT DETAIL

NOTE: VERIFY WITH ARCHITECTURAL FOR **ADA REQUIREMENTS**.



EQUIPMENT CIRCUIT DETAIL

NO SCALE



PROJECT # : 18.4.25
DATE: 04/16/19
CHECKED BY: WM,LM

REVISION:

CENTRAL MIDDLE SCHOOL ANNEXES
CHILLER REPLACEMENT
WESLACO TEXAS

E2.1

TRINITY
MEP ENGINEERING

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