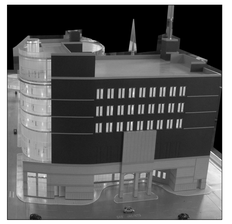
SHEET NOTES:

1. EF-4 COMPONENTS AND ACCESSORIES SHALL ONLY BE MADE OUT OF ALUMINUM. ALL ASSOCIATED DUCTWORK AND AIR DEVICE SHALL ALSO BE MADE OUT OF ALUMINUM. NO EXCEPTIONS.
2. ALL (E) VAV BOXES SHALL BE REBLANCED TO THE NEW AIRFLOWS AS SHOWN ON THE PLANS.
3. CONTRACTOR SHALL HAVE TAB CONTRACTOR BALANCE AHU-B-2 TO THE NEW AIRFLOW AS SHOWN ON THE PLANS.
4. CONFIRM ALL ROUTING WITH EXISTING CONDITIONS.

NOTES BY SYMBOL: "⬡"

1. REBLANCE EXHAST FAN TO NEW CFM VALUE AS SHOWN ON THE PLANS.
2. INSTALL IN-DUCT SINGLE TUBE HUMIDIFICATION DISPERSION SYSTEM IN SUPPLY DUCTWORK. PROVIDE IN-DUCT HUMIDIFIER WITH A DRIP PAN WITH WATER ALARM ABOVE CEILING UNDER DISPERSION TUBE AND ROUTE TO NEARBY DRAIN. ALARM SHALL NOTIFY BCS.
3. NEW AHU TO BE INSTALLED BY TRANE. CONNECT NEW AHU TO EXISTING SUPPLY DUCTWORK AS SHOWN. REFER TO MANUFACTURER FOR CONNECTION REQUIREMENTS.
4. INSTALL RETURN AIR TRANSFER DUCTWORK WITH FIRE DAMPER AS SHOWN AND TERMINATE WITH BIRD SCREEN.
5. PROVIDE AND INSTALL NEW HYDRONIC FAN COIL UNIT SUSPENED FROM STRUCTURE. ROUTE NEW HYDRONIC PIPING FROM EXISTING HYDRONIC PIPING MAIN AND ROUTE DUCTWORK AS SHOWN. PROVIDE HYDRONIC REHEAT COIL AND ELECTRIC HUMIDIFIER DOWNSTREAM OF SUPPLY DUCTWORK AS SHOWN.
6. CONNECT NEW LOW PRESSURE SUPPLY AIR DUCTWORK TO (E) VAV BOX AND ROUTE AS SHOWN.
7. PROVIDE AND INSTALL NEW AIR DEVICE. EXTEND NEW DUCTWORK FROM (E) DUCTWORK TO NEW AIR DEVICE. FIELD VERIFY EXACT LOCATION AND SIZE.
8. CONNECT NEW DUCTWORK TO (E) DUCTWORK.
9. ROUTE EXHAUST DUCTWORK UP TO BOTTOM OF COLUMN CHASE AND TERMINATE 16'-0" ABOVE ENTRY DRIVE WITH BIRD SCREEN. CONCEAL EXPOSED DUCTWORK.
10. CONNECT NEW OUTSIDE AIR DUCTWORK TO (E) OUTSIDE AIR DUCTWORK AND ROUTE ABOVE SUPPLY DUCTWORK AS SHOWN.
11. PROVIDE FIRE DAMPER IN DUCTWORK AS SHOWN.
12. RETURN AIR TRANSFER DUCTWORK AND ASSOCIATED AIR DEVICES SHALL BE ALUMINUM.
13. PROVIDE AND INSTALL MOTORIZED DAMPER IN AN ACESSIBLE LOCATION. MOTORIZED DAMPER TO CLOSE WHEN AHU IS DE-ENERGIZED.
14. PROVIDE AND INSTALL MOTORIZED DAMPER IN AN ACESSIBLE LOCATION. MOTORIZED DAMPER TO CLOSE WHEN FCU IS DE-ENERGIZED.
15. ROUTE OUTSIDE AIR DUCTWORK UP TO AVOID NEW HYDRONIC PIPING.
16. COORDINATE CONTROL CLEARANCE REQUIREMENTS WITH NEW CONDENSATE AND STEAM PIPING.

DALLAS CITY STAMP AREA KEEP CLEAR



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FIRST BAPTIST DALLAS

CRISWELL BASEMENT RENOVATION - MECHANICAL

175821 JOB NO.

M0.01 SHEET

True North

Project North

1 CRISWELL BASEMENT RENOVATION - MECHANICAL
SCALE: 1/8" = 1'-0"

HYDRONICS LEGEND

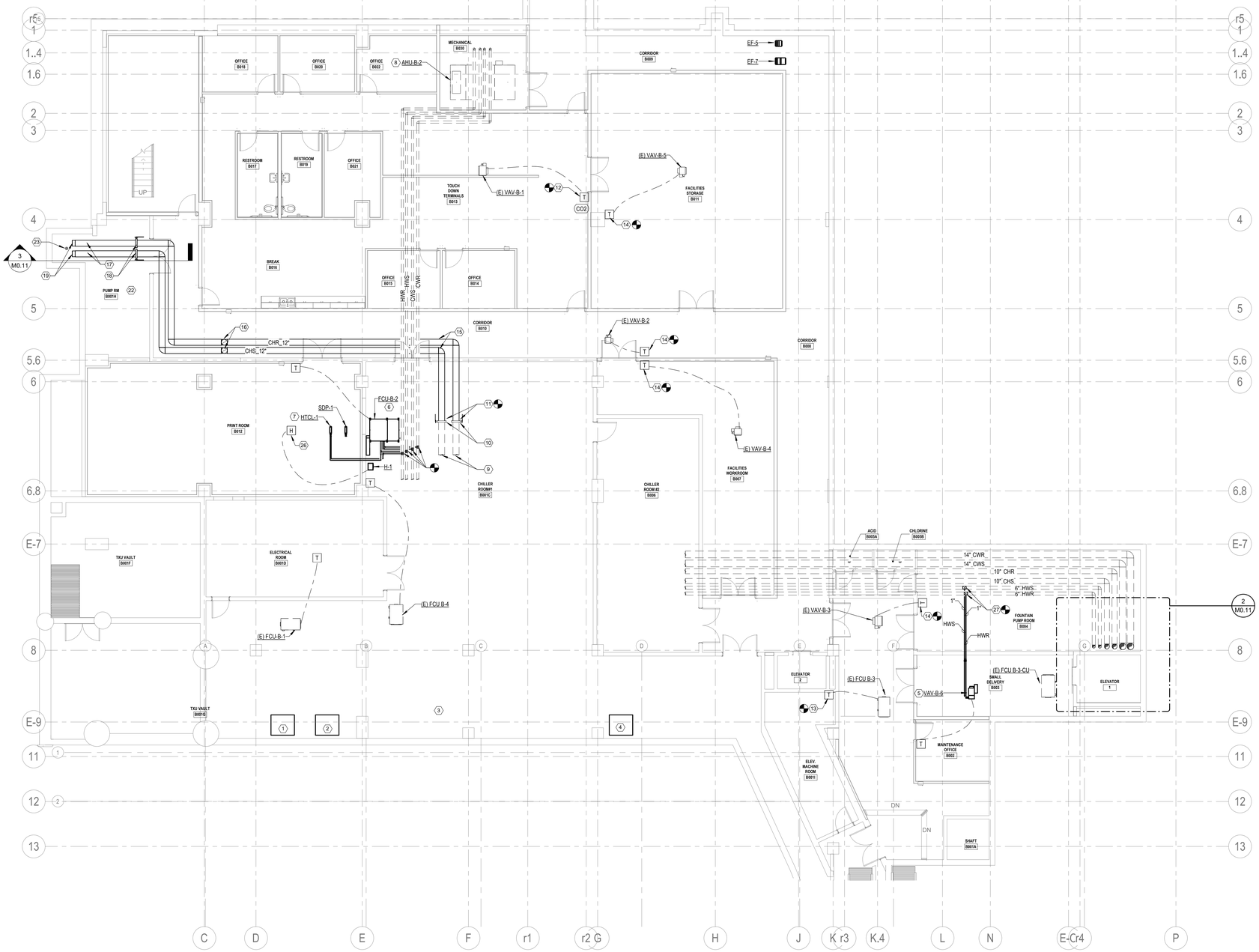
CWS	CHILLED WATER SUPPLY		RISER UP
CWR	CHILLED WATER RETURN		DIRECTION OF FLOW
HWS	HEATING WATER SUPPLY		CONNECT TO EXISTING
HWR	HEATING WATER RETURN		CONTROL WIRING
	EXISTING UTILITY	T	TEMPERATURE SENSOR
	ITEM TO BE REMOVED	H	HUMIDITY SENSOR
	RISER DOWN	CO2	CARBON DIOXIDE SENSOR

SHEET NOTES:

1. REFER TO ARCHITECT SHEETS FOR FIRE RATED WALLS.
   A. FOR EACH NEW PENETRATION OF A FIRE RATED WALL, INSTALL APPROPRIATE UL FIRE RATED ASSEMBLY.
   B. FOR EACH EXISTING PENETRATION OF A FIRE RATED WALL, CHECK IF THE EXISTING FIRE PENETRATION SEALANT IS DAMAGED OR IN AN ACCEPTABLE CONDITION. IF DAMAGED, COMPLETELY REMOVE AND INSTALL APPROPRIATE UL FIRE RATED ASSEMBLY.
2. THIS BUILDING WILL BE OCCUPIED DURING CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL CAREFULLY COORDINATE AND SCHEDULE ANY REQUIRED SHUTDOWNS WITH THE CHURCH TO MINIMIZE DISRUPTIONS TO BUILDING OCCUPANTS.

NOTES BY SYMBOL: "⬡"

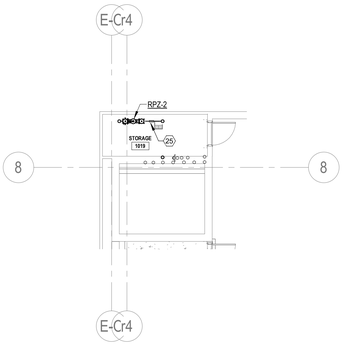
1 FUTURE LOCATION FOR NEW CHILLED HYDRONIC BOOSTER PUMP SERVING THE NEW SANCTUARY.
2 FUTURE LOCATION FOR NEW HEATING WATER BOOSTER PUMP SERVING THE NEW SANCTUARY.
3 ADD NEW TEE TO EXISTING 12" CHILLED WATER PIPING AND CAP WATER-TIGHT. FUTURE WORK WILL CONNECT TO THESE TEE'S TO ROUTE CHILLED WATER PIPING THRU THE NEW CHILLED WATER BOOSTER PUMP THEN TO THE NEW SANCTUARY.
4 FUTURE LOCATION FOR NEW DOMESTIC WATER BOOSTER PUMP SERVING THE NEW SANCTUARY. FUTURE HYDRONIC PIPING WILL BE ROUTED OVER FROM THE HYDRONIC BOOSTER PUMPS THRU THE WALL ABOVE THE DOMESTIC WATER BOOSTER PUMP INTO THE SANCTUARY BACK OF HOUSE.
5 EXTEND EXISTING HYDRONIC PIPING IN THIS AREA TO CONNECT 3/4" HWS AND 3/4" HWR TO VAV-B-6.
6 EXTEND EXISTING HYDRONIC PIPING IN THIS AREA TO CONNECT 1" CWS AND CWR, AND 1" HWS AND HWR TO FCU-B-2.
7 EXTEND EXISTING HYDRONIC PIPING IN THIS AREA TO CONNECT 3/4" HWS AND HWR TO HWC-1.
8 HYDRONIC AND CONDENSATE CONNECTIONS TO UNIT BY TRANE. COORDINATE WITH CONTRACTOR TO CONFIRM ALL CONNECTIONS ARE COMPLETED.
9 12" CHS / CHR PIPING CONNECTIONS TO CHILLERS AND ROUTING TO BUILDING SERVICES NOT SHOWN. REFER TO SHEET pM-3.01 OF THE 2011 CENTRAL PLAN RENOVATION.
10 EXISTING 12" CHILLED WATER PIPING TERMINATED WITH FULL LUG BUTTERFLY VALVE WITH BLIND FLANGE FOR TEMPORARY CHILLER CONNECTIONS.
11 CONNECT NEW PIPING TO EXISTING BUTTERFLY VALVES. COORDINATE THIS WITH THE CHURCH AND GV PRIOR TO REMOVING THE EXISTING TEMPORARY CHILLER PIPING. THE CHURCH SHALL REMAIN OCCUPIED AND CONDITIONED THROUGHOUT CONSTRUCTION.
12 INSTALL NEW TEMPERATURE SENSOR AND CO2 SENSOR. RECONNECT NEW CONTROLS TO (E) VAV BOX.
13 INSTALL NEW TEMPERATURE SENSOR RECONNECT NEW CONTROLS TO (E) FCU-B-3.
14 INSTALL NEW TEMPERATURE SENSOR. RECONNECT NEW CONTROLS TO (E) VAV BOX.
15 ROUTE PIPING IN CORRIDOR ABOVE CEILING AS SHOWN. ADJUST LOCATION OF PIPING ABOVE HALLWAY AS NEEDED TO AVOID EXISTING EQUIPMENT AND PIPING LAYOUT.
16 OFFSET HYDRONIC PIPING DOWN TO BELOW STRUCTURE THEN CONTINUE AS SHOWN.
17 OPENING TO VAULT TO BE SEALED WATER-TIGHT BY OTHERS. REFER TO ARCHITECT SHEETS. REFER TO EXTERIOR WALL PIPING PENETRATION DETAIL ON SHEET P0.11.
18 PROVIDE NORMALLY CLOSED BUTTERFLY VALVE IN SUMP PUMP ROOM FOR HYDRONIC SUPPLY AND RETURN.
19 EXTEND PIPING 1'-0" INTO VAULT AND TERMINATE WITH GROOVED END.
20 WATER-TIGHT ACCESS PANEL BY OTHERS.
21 ADJUSTMENTS TO VAULT DRAINAGE BY OTHERS. REFER TO SHEET P0.04.
22 ADD FLOAT SENSOR IN EXISTING SANITARY SEWER SUMP. CONNECT TO BCS AND TO FOUNTAIN PUMP BACKWASH SYSTEM. CONTROL POINT WILL TELL FOUNTAIN PUMP BACKWASH SYSTEM TO TURN OFF BEFORE THE SUMP PUMP IS OVERWHELMED. COORDINATE WITH FOUNTAIN PUMP CONTRACTOR.
23 PROVIDE LEVEL SENSOR IN VAULT CONNECTED TO BCS TO ALERT CHURCH IF WATER ENTERS THE VAULT. SENSOR SHALL BE EQUAL TO KELE WD-2PT TAPE STYLE WATER DETECTOR. DETECTOR SHALL BE INSTALLED AROUND THE NEW DRAIN. REFER TO SHEET P0.04.
24 MAKEUP AIR DUCT. REFER TO SHEET M0.01.
25 BUILDING DOMESTIC WATER WILL BE SUB-METERED USING AN ONICON F-3100 SERIES FLOW METER. METER FLOW RATE SHALL CONNECT TO THE EMCS AND HAVE A D-100 FLOW DISPLAY. THIS FLOW METER SHALL BE INSTALLED BY OTHERS IN THE 2" CW PIPE. CONNECT METER TO BCS TO TREND USAGE.
26 HI-LIMIT HUMIDISTAT IN THE DUCTWORK NO LESS THAN 6'-0" FROM THE STEAM DISTRIBUTOR PIPE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
27 CONNECT NEW 1" HWS AND HWR LINE TO THE EXISTING HYDRONIC MAIN PIPING AND ROUTE TO NEW VAV BOX AS SHOWN. FIELD VERIFY EXISTING MAIN SIZING AND EXACT LOCATION AND SIZING.



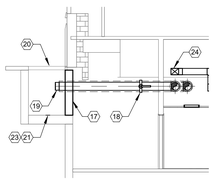
1 HYDRONICS FLOOR PLAN - BASEMENT - CRISWELL
SCALE: 1/8" = 1'-0"

WATER METER NOTES

WATER METER SHALL INCLUDE THE FOLLOWING:
- ONICON F-3100 SERIES FLOW METER
- D-100 FLOW DISPLAY
- NYLON NEMA 4 ENCLOUSURE
- 120 VAC 50/60HZ - 15A ELECTRIC SERVICE
- 18-22 AWG SHIELDED CABLE



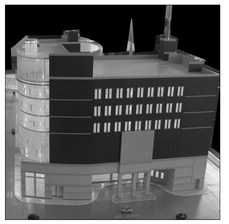
2 LEVEL ABOVE - CONTROLS
SCALE: 1/8" = 1'-0"



3 TEMPORARY CHILLER CONNECTIONS
SCALE: 1/8" = 1'-0"

True North
Project North

DALLAS CITY STAMP AREA KEEP CLEAR



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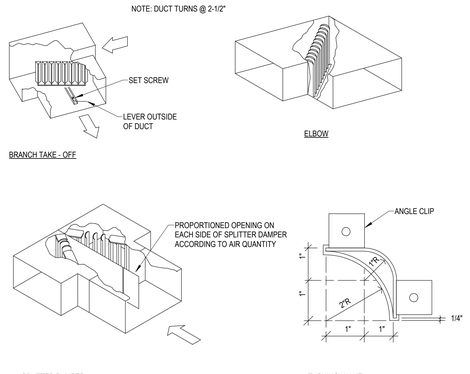
CRISWELL BASEMENT RENOVATION - HYDRONICS AND CONTROLS

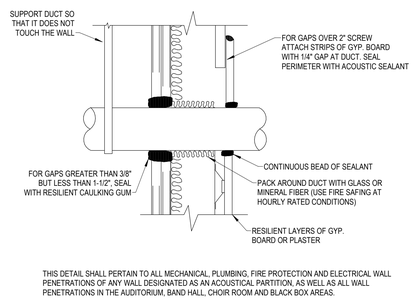
175821 JOB NO.

M0.11 SHEET



1 DUCT CONSTRUCTION DETAILS

SCALE: NO SCALE



THIS DETAIL SHALL PERTAIN TO ALL MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL WALL PENETRATIONS OF ANY WALL DESIGNATED AS AN ACOUSTICAL PARTITION, AS WELL AS ALL WALL PENETRATIONS IN THE AUDITORIUM, BAND HALL, CHOIR ROOM AND BLACK BOX AREAS.

2 DUCT PENETRATION DETAIL STUD WALL - SEVERAL CONDITIONS

SCALE: NO SCALE

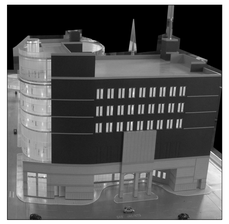
HVAC LEGEND

- EXISTING TO REMAIN
- ITEM TO BE REMOVED
- NEW DUCTWORK
- FD
- 12"x8" — INDICATES 12" x 8" INS. DIM. NET (1ST FIGURE = SIDE SHOWN, 2ND FIGURE = SIDE NOT SHOWN)
- TYPE A1 150 CFM — DIFFUSER OR GRILLE DESIGNATION
- CONNECT TO EXISTING
- (E) EXISTING

HVAC GENERAL NOTES

1. FURNISH AND INSTALL ALL MATERIALS AND LABOR REQUIRED TO PROVIDE COMPLETE AND OPERABLE HVAC SYSTEMS WITH ALL ITEMS AND APPURTENANCES NECESSARY EVEN THOUGH NOT SPECIFICALLY IDENTIFIED.
2. ALL WORK AND/OR MATERIALS SHALL BE INSTALLED BY A LICENSED CONTRACTOR AND SHALL CONFORM TO ALL APPLICABLE NATIONAL AND LOCAL BUILDING AND MECHANICAL CODES.
3. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. INSTALL TURNING VANES IN ALL DUCTWORK ELBOWS.
4. ALL INTERIOR DUCTS SHALL BE CONSTRUCTED WITH G-60 OR BETTER GALVANIZED STEEL (ASTM A 653/A 653M) LFQ, CHEM TREAT.
5. COORDINATE EXACT ROUTING OF ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF WORK.
6. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF AIR DEVICES AND ROUTING OF DUCTWORK WITH REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING LAYOUT.
7. ALL SUPPLY/RETURN DUCTWORK FROM AIR HANDLING UNITS SHALL BE LINED WITH 2" THICK ACOUSTICAL LINING 20' BEYOND UNIT.
8. FLEXIBLE DUCTWORK RUNOUTS SHALL BE LIMITED TO 6'-0" EXTENDED LENGTH. FLEXIBLE DUCTWORK SHALL BE EQUAL TO ATCO #036. FLEXIBLE DUCTS, BOTH SUPPLY AND RETURN, SHALL HAVE INSULATION WITH A MINIMUM R-VALUE OF 6.0, PER IECC. DUCT SHALL HAVE A CONTINUOUS FLEXIBLE FIBERGLASS SHEATH WITH UL APPROVED METALIZED POLYESTER BARRIER JACKET.
9. INSTALL FLEXIBLE DUCTWORK CONNECTIONS AT ALL DUCT CONNECTIONS TO AIR HANDLING UNITSAND FANS.
10. ALL DUCT DIMENSIONS SHOWN ARE NET CLEAR INSIDE DIMENSIONS.
11. MOUNT ALL TEMPERTURE SENSORS 4'-0" ABOVE FLOOR (TYPICAL).
12. FOR ALL VOLUME DAMPERS LOCATED ABOVE A HARD CEILING, PROVIDE AND INSTALL A WORM GEAR REMOTE VOLUME DAMPER REGULATOR. INSTALL KEY ACCESS IN THE CEILING DIRECTLY BELOW THE DAMPER AND PAINT CAP TO MATCH CEILING.
13. DO NOT ROUTE ANY DUCTWORK OR PIPING OVER ELECTRICAL PANELS OR I.T. SERVERS.
14. THE MECHANICAL CONTRACTOR SHALL HIRE AN INDEPENDENT TESTING AND BALANCING AGENCY CERTIFIED BY THE AABC TO TEST AND BALANCE THE HVAC SYSTEMS. SYSTEMS SHALL BE BALANCED TO PLUS/MINUS 10% OF DESIGN REQUIREMENTS. THE CONTRACTOR SHALL PLACE ALL SYSTEMS AND EQUIPMENT INTO FULL OPERATION FOR TESTING AND BALANCING. ONE COPY OF THE FINAL TEST AND BALANCE REPORT WITH THE AABC NATIONAL PERFORMANCE GUARANTY SHALL BE SENT DIRECTLY TO THE ENGINEER OF RECORD. PROVIDE FIVE (5) ADDITIONAL COPIES TO THE CONTRACTOR.
15. ALL DUCTWORK SERVING THE FOUNTAIN PUMP ROOM AND CHEMICAL ROOM SHALL BE ALUMINUM.

DALLAS CITY STAMP AREA KEEP CLEAR



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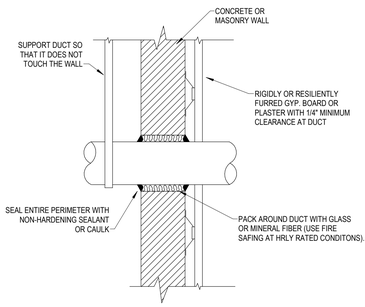
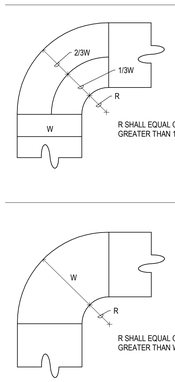


3 DUCT PENETRATION DETAIL CONCRETE OR MASONRY WALL

SCALE: NO SCALE

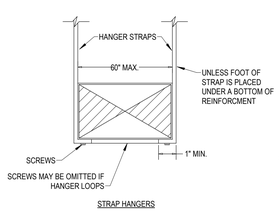


NOTES:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.
3. TURNING VANES SHALL NOT BE INSTALLED IN GREASE EXHAUST DUCTWORK.

4 RADIUS ELBOW DUCT DETAIL

SCALE: NO SCALE



RECTANGULAR DUCT HANGERS MINIMUM SIZE								
MAXIMUM HALF OF DUCT PERIMETER	PAIR AT 10 FT. SPACING		PAIR AT 8 FT. SPACING		PAIR AT 5 FT. SPACING		PAIR AT 4 FT. SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2=30"	1" X 22 GA.	10 GA. (.135")	1" X 22 GA.	10 GA. (.135")	1" X 22 GA.	12 GA. (.106")	1" X 22 GA.	10 GA. (.135")
P/2=72"	1" X 18 GA.	3/8"	1" X 20 GA.	1/4"	1" X 22 GA.	1/4"	1" X 22 GA.	1/4"
P/2=96"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"	1" X 20 GA.	3/8"	1" X 22 GA.	1/4"
P/2=120"	1-1/2" X 16 GA.	1/2"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"	1" X 20 GA.	1/4"
P/2=168"	1-1/2" X 16 GA.	1/2"	1-1/2" X 16 GA.	1/2"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"
P/2=192"	NOT GIVEN	1/2"	1-1/2" X 16 GA.	1/2"	1" X 16 GA.	3/8"	1" X 16 GA.	3/8"
P/2=193" UP	SPECIAL ANALYSYS REQUIRED							

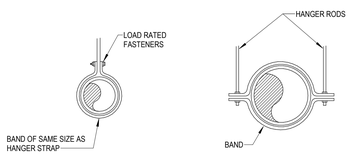
WHEN STRAPS ARE LAP JOINED USE THESE MINIMUM FASTENERS:	SINGLE HANGER MAXIMUM ALLOWABLE LOAD	
	STRAP	WIRE OR ROD (DIA.)
1" X 18, 20, 22 GA. -TWO #10 OR ONE 1/4" BOLT 1" X 16GA. - TWO 1/4" DIA. 1-1/2" X 16 GA. -TWO 3/8" DIA. PLACE FASTENERS IN SERIES, NOT SIDE BY SIDE.	1" X 22 GA. - 260 LBS 1" X 20 GA. - 320 LBS 1" X 18 GA. - 420 LBS 1" X 16 GA. - 700 LBS 1-1/2" X 16 GA. - 1100 LBS	0.106" - 80 LBS 0.135" - 120 LBS 0.162" - 160 LBS 1/4" - 270 LBS 3/8" - 680 LBS 1/2" - 1250 LBS 5/8" 2000 LBS 3/4" - 3000 LBS

NOTES:

1. REFER TO LATEST EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR ADDITIONAL DETAIL. DUCT HANGERS SHALL MEET THIS STANDARD
2. DIMENSIONS OTHER THAN GAGE ARE IN INCHES.
3. TABLES ALLOW FOR DUCT WEIGHT, 1 LB./SF INSULATION WEIGHT AND NORMAL REINFORCMENT AND TRAPEZE WEIGHT, BUT NO EXTERNAL LOADS!
4. STRAPS ARE GALVANIZED STEEL; OTHER MATERIALS ARE UNCOATED STEEL
5. ALLOWABLE LOADS FOR P/2 ASSUME THAT DUCTS ARE 16 GA MAXIMUM, EXCEPT THAT WHEN MAZIMUM DUCT DIMENSION (W) IS OVER 60" THEN P/2 MAXIMUM IS 1.25 W.
6. 12, 10, OR 8 GA. WIRE IS STEEL OF BLACK ANNEALED, BRIGHT BASIC, OR GALVANIZED TYPE.

5 RECTANGULAR DUCT HANGERS

SCALE: NO SCALE



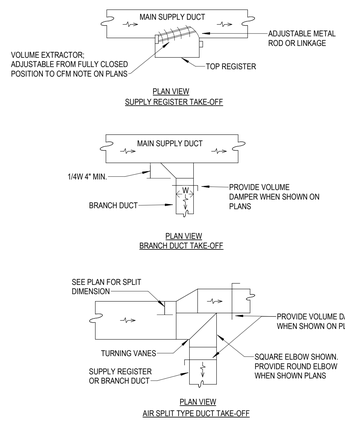
HANGER STRAPS OR RODS			
MAX. DUCT DIA.	HANGER	MAX. LOAD LBS.	MAX. SPACING FT.
26"	ONE 1" X 22 GA STRAP	260	12
36"	ONE 1" X 18 GA STRAP	420	12
50"	ONE 1" X 16 GA STRAP	700	12
60"	TWO 3/8" DIA. RODS	1320	12
84"	TWO 1/2" DIA. RODS	2500	12

NOTES:

1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

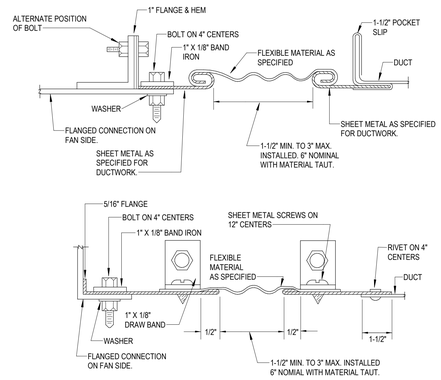
6 ROUND DUCT HANGERS

SCALE: NO SCALE



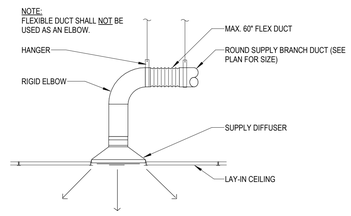
7 SUPPLY DUCT TAKE-OFFS

SCALE: NO SCALE



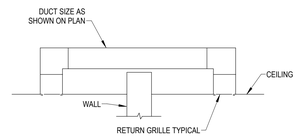
8 TYPICAL FLEX CONNECTION DETAIL

SCALE: NO SCALE



9 DIFFUSER CONNECTION DETAIL

SCALE: NO SCALE



10 CEILING TRANSFER AIR DUCT

SCALE: NO SCALE

CURRENT SUBMISSION: CONSTRUCTION DOCUMENTS

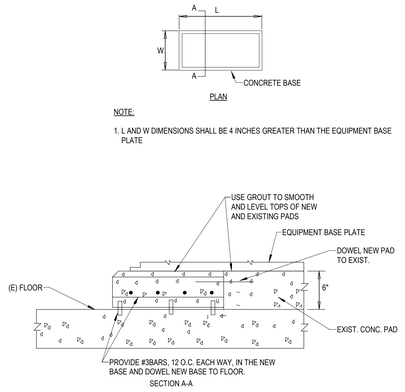
#	DATE	SUBMISSION
-	7/18/2025	CONSTRUCTION DOCUMENTS

FIRST BAPTIST DALLAS

CRISWELL BASEMENT RENOVATION
MECHANICAL DETAILS

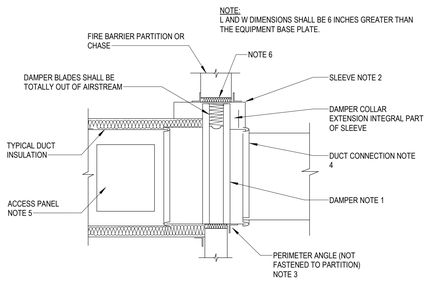
175821
JOB NO.

M0.20
SHEET



1 EQUIPMENT PAD DETAIL

SCALE: NO SCALE

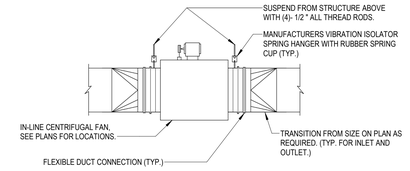


NOTES:

1. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE & PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR, NOT OUTSIDE THE PENETRATION.
2. GALVANIZED SLEEVE: GAGE NOT LESS THAN THAT OF CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME & PERIMETER ANGLES.
3. PERIMETER ANGLES: GALVANIZED STEEL NOT LESS THAN 1-1/2"x1-1/2"x1/4", TO PROVIDE 1" MINIMUM OVERLAP OF OPENING ON ALL SIDES.
4. BREAKAWAY DUCT CONNECTION: CONTRACTORS OPTION OF TYPES SHOWN IN SMACNA LPDS, FIG. 2-13. SEAL JOINTS.
5. ACCESS PANEL: SIZE & LOCATE TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.
6. PROVIDE 1/4" TO 1/2" CLEARANCE ON HEIGHT & WIDTH FILL OPEN SPACE WITH ROCK WOOL FIRESTOP FIBER.
7. FIRE DMAPER SHLL BE TYPE "C" - BLADES TOTALLY OUT OF AIRSTREAM.

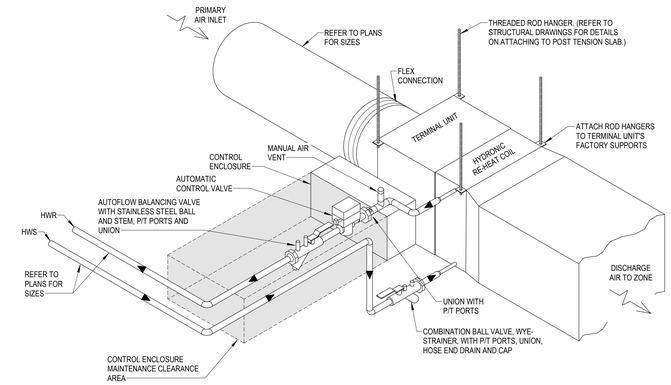
2 FIRE DAMPER INSTALLATION DETAIL

SCALE: NO SCALE



3 IN-LINE CENTRIFUGAL EXHAUST FAN DETAIL

SCALE: NO SCALE

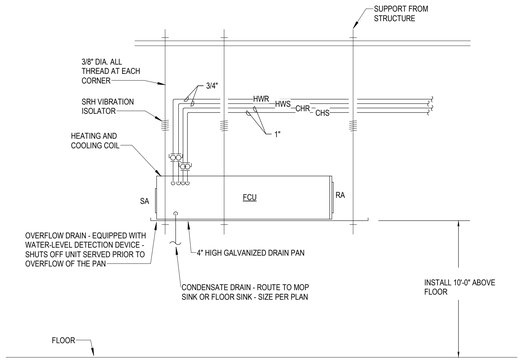


NOTES:

1. THE TERMINAL UNIT'S CONTROL ENCLOSURE SHALL HAVE AN UNOBSTRUCTED, ACCESSIBLE CLEARANCE OF 2'-6" MINIMUM DIRECTLY IN FRONT OF ENCLOSURE FROM THE BOTTOM OF THE CEILING UP TO THE TOP OF THE ENCLOSURE.
2. PRIMARY AIR INLET DUCT SHALL HAVE A MINIMUM OF 3 DUCT DIAMETERS OF STRAIGHT RUN UPSTREAM OF THE TERMINAL UNIT INLET.
3. ALL TERMINAL UNIT'S INSTALLED ABOVE A GYP. CEILING SHALL HAVE AN ACCESS PANEL LOCATED DIRECTLY BENEATH THE CONTROL ENCLOSURE. COORDINATE CEILING TYPE AND ACCESS PANEL WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

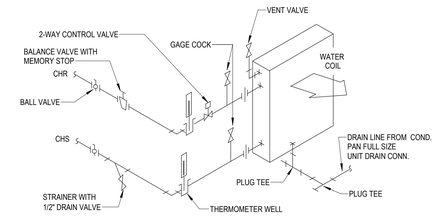
4 TERMINAL UNIT DETAIL (VAV w/HYDRONIC RE-HEAT)

SCALE: NO SCALE



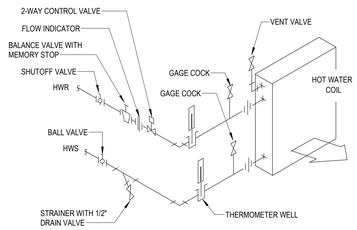
5 FAN COIL UNIT DETAIL

SCALE: NO SCALE



6 AHU/FCU CHILLED WATER COIL PIPING DIAGRAM

SCALE: NO SCALE

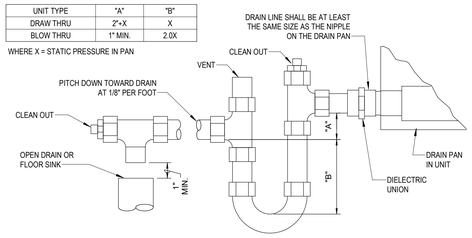


7 AHU HOT WATER COIL PIPING DIAGRAM

SCALE: NO SCALE

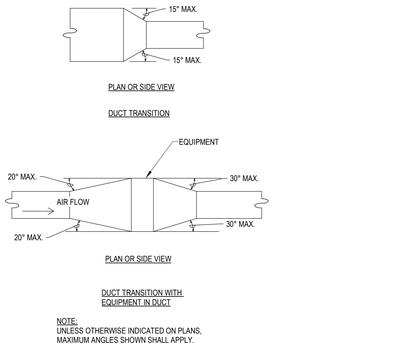
UNIT TYPE	"A"	"B"
DRAW THRU	2"+X	X
BLOW THRU	1" MIN.	2.0X

WHERE X = STATIC PRESSURE IN PAN



8 AIR HANDLING UNIT AND FAN COIL UNIT DRAIN DETAIL

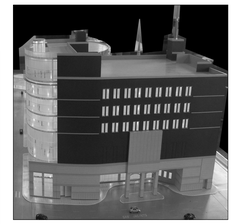
SCALE: NOT TO SCALE



NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

9 DUCT TRANSITIONS WITH AND WITHOUT EQUIPMENT IN DUCT

SCALE: NO SCALE



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FIRST BAPTIST DALLAS

CRISWELL BASEMENT RENOVATION MECHANICAL DETAILS

175821
JOB NO.

M0.21
SHEET

AIR HANDLING UNIT SCHEDULE - BASEMENT

TAG	TYPE	SUPPLY AIR		ECONOMIZER CFM	OUTSIDE AIR		SUPPLY FAN										PRE-HEAT COIL				HEATING WATER					COOLING COIL						CHILLED WATER					MANUFACTURER	MODEL NO.
		MAX. CFM	MIN. CFM		MAX. CFM	MIN. CFM	EXTERNAL S.P. (IN. OF WTR.)	TOTAL S.P. (IN. OF WTR.)	WHEEL		MOTOR					FAN CONTROL	MAX FACE VELOCITY (FT / MIN.)	MAX. P.D. (IN. OF WTR.)	E.A.T. (°F)	MIN. CAPACITY (BTUH)	ROWS	E.W.T. (°F)	L.W.T. (°F)	MAX. P.D. (FT. OF WTR.)	GPM	MAX. FACE VELOCITY (FT / MIN.)	MAX. P.D. (IN. OF WTR.)	E.A.T.		SENSIBLE (BTUH)	TOTAL (BTUH)	ROWS	E.W.T. (°F)	L.W.T. (°F)	MAX. P.D. (FT. OF WTR.)	GPM		
									TYPE	DIA.	MAX. RPM	QTY (EA)	TOTAL KW	VOLTS/ PHASE														Db (°F)	Wb (°F)										
AHU-B-2	MULTIZONE VAV	8,500	--	8,500	1,000	1,000	2.00	4.44	DIRECT	17.7	2213	2	6.99	460/3	VFD	570	0.14	45.0	414,820	1	180.0	160.0	4.49	41.4	510	0.63	80.0	67.0	232,240	327,280	4	42.0	57.0	6.38	43.5	TRANE	CSAA017UA

NOTES:

1. EXTERNAL STATIC PRESSURE INCLUDES ALL AIR DEVICES, TERMINAL UNITS, DUCTWORK, FITTINGS, AND DAMPERS WHICH ARE EXTERNAL TO THE AIR HANDLING UNIT. EXT. S.P. DOES NOT INCLUDE FILTERS, COILS, OR FACTORY FABRICATED RETURN AIR PLENUMS.
2. ALL MOTORS CONTROLLED BY VARIABLE FREQUENCY CONTROLLERS SHALL BE EQUIPPED WITH AEGIS SHAFT GROUNDING RING KIT TO BE INSTALLED BY EQUIPMENT MANUFACTURER OR INSTALLED IN THE FIELD BY CONTRACTOR.
3. TO BE INSTALLED BY A SEPERATE ENABLING PROJECT.

FAN COIL UNIT SCHEDULE (HYDRONIC) - BASEMENT

TAG	FAN		MOTOR				E.A.T.		COOLING COIL		CHILLED WATER					HEATING COIL				HEATING WATER				MANUFACTURER	MODEL NO.
	CFM	EXTERNAL S.P. (IN. OF WTR.)	QTY.	MAX. HP	VOLTS	PHASE	Db (°F)	Wb (°F)	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	MIN. ROWS	E.W.T. (°F)	L.W.T. (°F)	MAX. P.D. (FT. OF WTR.)	GPM	MIN. CAPACITY (BTUH)	E.A.T. (°F)	MIN. ROWS	E.W.T. (°F)	L.W.T. (°F)	MAX. P.D. (FT. OF WTR.)	GPM		
FCU-B-2	880	0.75	1	1	460	3	94.2	70.6	44,890	38,170	6	44.0	60.0	0.97	5.6	70,290	26.3	1	180.0	150.0	2.04	7.0	TRANE	BCHE054

NOTES:

1. S.P. INCLUDES GRILLES, DUCTWORK, AND DAMPERS.
2. COOLING CAPACITY, HEATING CAPACITY AND CFM ARE REQUIRED. ALL UNITS SHALL HAVE NO LESS THAN THESE CAPACTIES.
3. DUCT MOUNTED HYDRONIC REHEAT COIL AND STEAM DISPERSION SHALL BE PROVIDED DOWNSTREAM OF THE SUPPLY DUCTWORK FOR THE FCU.
4. FCU SHALL BE CONTROLLED AS A SINGLE ZONE VAV SYSTEM.

FAN SCHEDULE - BASEMENT

TAG	SERVICE	LOCATION	CFM	T.S.P.	MAX. SONES	FAN TYPE	WHEEL		DRIVE	MOTOR				CONTROL	MANUFACTURER	MODEL NO.
							TYPE	DIA.		RPM	HP	VOLTS	PHASE			
EF-5	EXHAUST	CRISWELL BASEMENT	125	0.25	9	INLINE	FC	12	BELT	1725	1/6	115	1	BCS	Loren Cook Company	60SQN-B
EF-7	EXHAUST	CRISWELL BASEMENT	550	0.50	8	INLINE	FC	12	DIRECT	1200	1/6	115	1	BCS	Loren Cook Company	100SQN12D

NOTES:

1. STATIC PRESSURE INCLUDES CRILLES, DUCTWORK AND DAMPERS.
2. IN-LINE EXHAUST FANS SHALL BE SUSPEND FROM STRUCTURE WITH (4) - 1/2" ALL THREAD RODS AND MASON VIBRATION ISOLATOR SPRING HANGER WITH LDS RUBBER SPRING CUP.
3. EF-7 SHALL HAVE ALL ALUMINUM HOUSING AND COMPONENTS.

HOT WATER HEATING COILS

TAG	CFM	DUCT SIZE		AIR			MIN. ROWS	WATER				MANUFACTURER AND MODEL
		W "	H "	MAX. P.D. (IN. OF WTR.)	E.A.T. Db (°F)	L.A.T. Db (°F)		GPM	EWT (°F)	LWT (°F)	MAX. P.D. (FT. OF WTR.)	
HWC-1	880	16	15	0.134	55	95	2	2.79	180	150	3.35	TRANE-DSTB15016G0BA080BABA00A

NOTES:

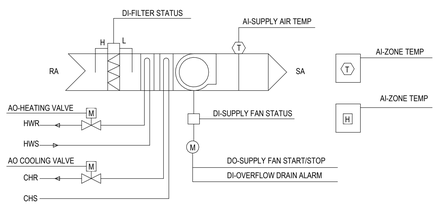
1. INSTALL IN SUPPLY DUCTWORK DOWNSTREAM OF FCU-B-2 AND AS LOCATED ON THE CONSTRUCTION DOCUMENTS.

ELECTRIC STEAM HUMIDIFIER

TAG	LOCATION	STEAM CAPACITY LB/HR	CFM	ELECTRIC		MANUFACTURER & MODEL NUMBER
				VOLTS	PHASE	
H-1	CHILLER ROOM	40	880	460	3	CAREL - UE010XM0U1

NOTES:

1. REFER TO ELECTRIC HUMIDIFIER MANUFACTURER FOR INSTALLATION INSTRUCTIONS.

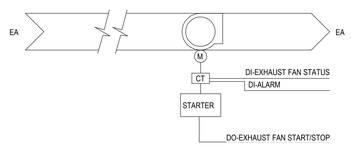


NOTES:

1. INSTALL NEW CONTROLS AS SHOWN FOR ALL FCU'S.

1 FAN COIL UNIT CONTROL DIAGRAM

SCALE: NO SCALE



2 EXHAUST FAN CONTROL DIAGRAM (CV)

SCALE: NO SCALE

TERMINAL UNIT SCHEDULE (SINGLE DUCT/HOT WATER REHEAT) - BASEMENT

TAG	LOCATION	NECK SIZE	COOLING		HEATING		MIN. INLET S.P. (IN. OF WTR.)	MAX. RD. DISCH. NC	RE-HEAT COIL					MANUFACTURER	MODEL NO.
			MAX. CFM	MIN. CFM	MAX. CFM	MIN. CFM			E.A.T. (°F)	L.A.T. (°F)	MIN. CAPACITY (BTUH)	E.W.T. (°F)	L.W.T. (°F)	GPM	
VAV-B-6	SMALL DELIVERY B003	8"	500	150	150	150	0.25	<25	55	95	6,000	180	160	0.6	Titus HVAC	DESV

AIR DEVICE SCHEDULE - BASEMENT

TAG	DESCRIPTION	OPPOSED BLADE DAMPER	FINISH	PRICE MODEL NO.
S1	24"x24" SQ. LOUVERED FACE CEILING DIFFUSER 10"ø NECK	NO	OFF-WHITE	SCD
S2	12"x12" SQ. LOUVERED FACE CEILING DIFFUSER 6"ø NECK	NO	OFF-WHITE	SCD
S3	24"x24" SQ. LOUVERED FACE CEILING DIFFUSER 10"ø NECK	NO	WHITE ENAMEL	SCD
S4	14"x8" SIDEWALL GRILLE, DOUBLE DEFLECTION, STEEL WITHOUT DAMPER, 12"x6" NECK	NO	WHITE ENAMEL	520
S5	12"x6" SIDEWALL GRILLE, DOUBLE DEFLECTION, STEEL WITHOUT DAMPER, 10"x4" NECK	NO	WHITE ENAMEL	520
S6	20"x10" SIDEWALL GRILLE, 45 DEGREES DOUBLE DEFLECTION, ALUMINUM WITHOUT DAMPER, 18"x8" NECK	NO	WHITE ENAMEL	620
S7	24"x24" SQ. LOUVERED FACE CEILING DIFFUSER 6"ø NECK	NO	WHITE ENAMEL	ASCD
R1	12"x12" PERFORATED FACE CEILING GRILLE 10"x10" NECK	NO	WHITE ENAMEL	PDDR-F-AL
R2	24"x24" PERFORATED FACE CEILING GRILLE 22"x22" NECK	NO	OFF-WHITE	PDDR
E1	12"x12" PERFORATED FACE CEILING GRILLE 6"ø NECK	NO	OFF-WHITE	PDDR
E2	24"x24" PERFORATED FACE CEILING GRILLE 8"ø NECK	YES	WHITE ENAMEL	PDDR

NOTES:

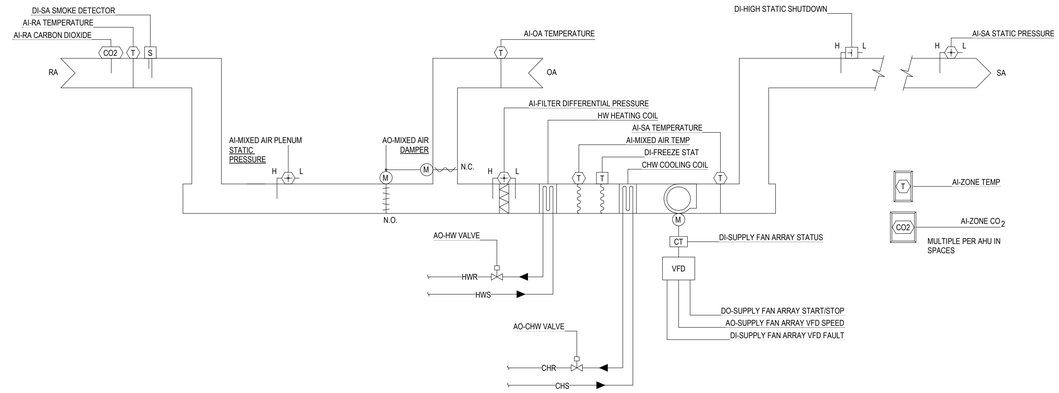
1. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
2. ALL AIR DEVICES INSTALLED IN GYP BOARD, PLASTER, OR OTHER HARD CEILING SHALL HAVE A SEPARATE MOUNTING FRAME.
3. AIR DEVICES S6, S7, AND R1 SHALL BE ALUMINUM AIR DEVICES.

EXISTING TERMINAL UNIT SCHEDULE - BASEMENT

TAG	COOLING		HEATING AIRFLOW (CFM)	REMARKS
	MAX. CFM	MIN. CFM		
(E) VAV-B-1	1,655	320	320	EXISTING - SEE NOTE 2
(E) VAV-B-2	340	100	100	EXISTING - SEE NOTE 2
(E) VAV-B-3	2,125	180	180	EXISTING - SEE NOTE 2
(E) VAV-B-4	615	90	90	EXISTING - SEE NOTE 2
(E) VAV-B-5	935	275	275	EXISTING - SEE NOTE 2

NOTES:

1. VAV BOXES LISTED ABOVE ARE EXISTING TO REMAIN.
2. AIRFLOWS FOR THIS VAV BOX HAS CHANGED. REVISED AIRFLOWS ARE SHOWN ABOVE.



3 AIR HANDLING UNIT CONTROL DIAGRAM

SCALE: NO SCALE

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: First Baptist Dallas - Criswell Basement Renovation
Location: Dallas, Texas
Climate Zone: 2a
Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Mechanical Systems List

Quantity System Type & Description

1 FCU-B-2 (Single Zone)
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 70 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 44 kBtu/h, Unknown Economizer
No minimum efficiency requirement applies
Fan System: FCU-B-2 – Compliance (Motor nameplate HP and fan efficiency method) : Passes

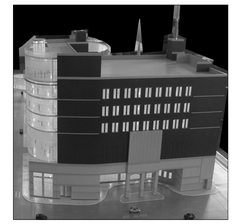
Fans:
FAN 1 Supply, Single-Zone VAV, 880 CFM, 1.0 motor nameplate hp, 0.95 fan energy index

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Richard Tran - EIT — Signature — 07/17/2025
Name - Title — Date

DALLAS CITY STAMP AREA KEEP CLEAR



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PROFESSIONAL ENGINEER
07/18/2025

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FIRST BAPTIST DALLAS

CRISWELL BASEMENT RENOVATION MECHANICAL CONTROL DIAGRAMS AND SCHEDULES

175821 JOB NO.

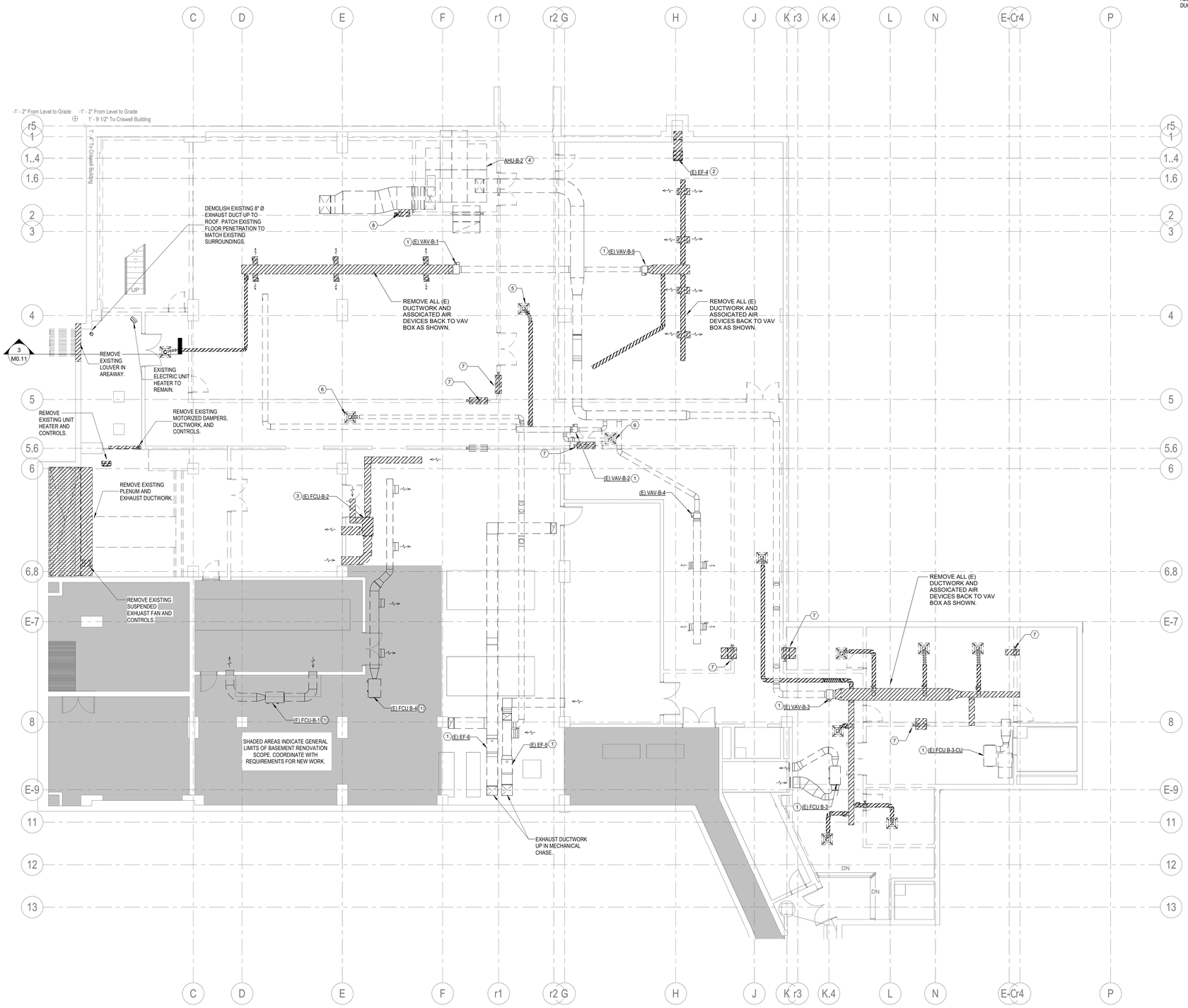
M0.22 SHEET

SHEET NOTES:

1. FOR ANY ITEMS NOTED TO BE REMOVED, CONTRACTOR SHALL COORDINATE WITH THE OWNER IF THESE ITEMS SHALL BE SALVAGED.

NOTES BY SYMBOL: "⬡"

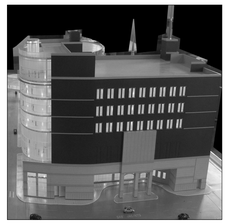
1 (E) MECHANICAL EQUIPMENT TO REMAIN.
2 REMOVE (E) EXHAUST FAN, DUCTWORK UP IN CHASE TO LOUVER, AND CONTROLS.
3 REMOVE (E) FCU AND ALL ASSOCIATED DUCTWORK, CONTROLS, AIR DEVICES, AND HYDRONIC PIPING.
4 (E) AHU-B TO BE PROVIDED AND INSTALLED AS A PART ON ANOTHER PROJECT. AS A PART ON THIS PROJECT'S SCOPE OF WORK, NEW BCS SHALL BE PROVIDED.
5 REMOVE (E) AIR DEVICE AND ASSOCIATED BRANCH DUCTWORK BACK TO MAIN DUCTWORK. PATCH MAIN DUCTWORK.
6 REMOVE (E) AIR DEVICE AND ASSOCIATED BRANCH DUCTWORK AS REQUIRED TO INSTALL NEW AIR DEVICE.
7 REMOVE (E) RETURN AIR TRANSFER DUCTWORK.
8 REMOVE (E) AIR DEVICE, MOTORIZED DAMPER, AND ASSOCIATED BRANCH DUCTWORK BACK TO MAIN DUCTWORK. PATCH MAIN DUCTWORK.



1 CRISWELL BASEMENT RENOVATION DEMOLITION - MECHANICAL
SCALE: 1/8" = 1'-0"

True North
Project North

DALLAS CITY STAMP AREA KEEP CLEAR



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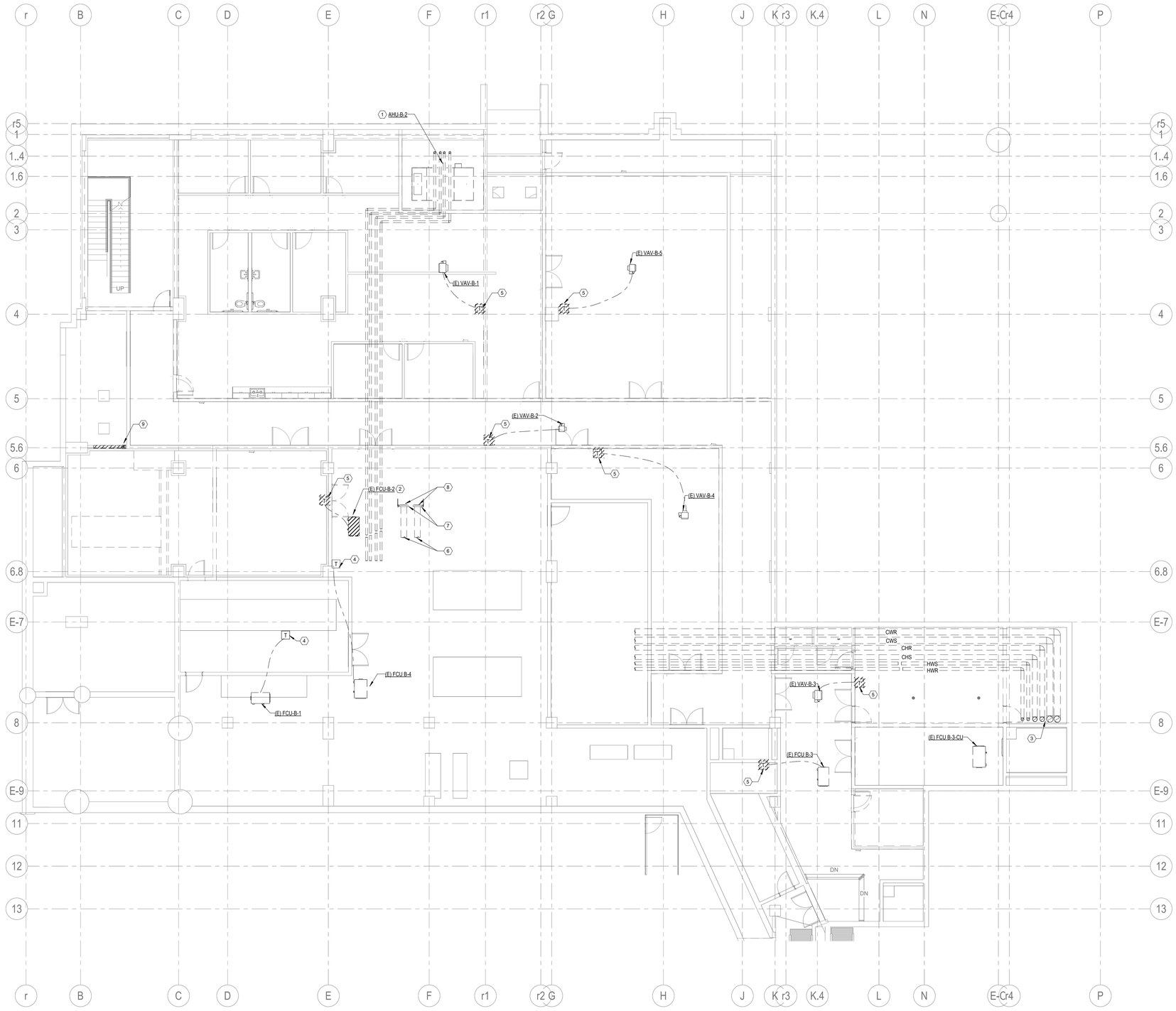
JOB NO.

MD0.01
SHEET



1 HYDRONICS DEMOLITION PLAN - BASEMENT - CRISWELL

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

SHEET NOTES:

1. REFER TO ARCHITECT SHEETS FOR FIRE RATED WALLS.
   A. FOR EACH NEW PENETRATION OF A FIRE RATED WALL, INSTALL APPROPRIATE UL FIRE RATED ASSEMBLY.
   B. FOR EACH EXISTING PENETRATION OF A FIRE RATED WALL, CHECK IF THE EXISTING FIRE PENETRATION SEALANT IS DAMAGED OR IN AN ACCEPTABLE CONDITION. IF DAMAGED, COMPLETELY REMOVE AND INSTALL APPROPRIATE UL FIRE RATED ASSEMBLY.
2. THIS BUILDING WILL BE OCCUPIED DURING CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL CAREFULLY COORDINATE AND SCHEDULE ANY REQUIRED SHUTDOWNS WITH THE CHURCH TO MINIMIZE DISRUPTIONS TO BUILDING OCCUPANTS.
3. REFER TO SHEET M0.11 FOR HYDRONICS AND CONTROLS LEGEND. REFER TO SHEET M0.20 FOR MECHANICAL GENERAL NOTES.

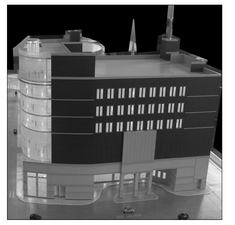
NOTES BY SYMBOL: "○"

1. EXISTING AIR HANDLING UNIT TO BE REMAIN.
2. DEMOLISH EXISTING FCU.
3. EXISTING TO REMAIN RISERS ALONG THIS WALL INCLUDE HYDRONIC PIPING, DOMESTIC PIPING, WASTE PIPING, FIRE PROTECTION PIPING, AND VARIOUS ELECTRICAL CONDUITS.
4. (E) TEMPERATURE SENSOR AND CONTROLS TO REMAIN.
5. REMOVE (E) TEMPERATURE SENSOR AND CONTROLS.
6. 12" CHS / CHR PIPING CONNECTIONS TO CHILLERS AND ROUTING TO BUILDING SERVICES NOT SHOWN. REFER TO SHEET pM-3.01 OF THE 2011 CENTRAL PLAN RENOVATION.
7. EXISTING 12" CHILLED WATER PIPING TERMINATED WITH FULL LUG BUTTERFLY VALVE WITH BLIND FLANGE FOR TEMPORARY CHILLER CONNECTIONS.
8. TEMPORARY CHILLER IS CURRENTLY CONNECTED VIA BRAIDED STAINLESS STEEL PIPING. COORDINATE WITH OWNER PRIOR TO REMOVAL OF TEMPORARY BRAIDED PIPING FOR INSTALLATION OF NEW PERMENANT PIPING. REFER TO THE NEW WORK FOR ADDITIONAL INFORMATION.
9. REMOVE EXISTING MOTORIZED DAMPERS, DUCTWORK, AND CONTROLS.

True North

Project North

DALLAS CITY STAMP AREA KEEP CLEAR



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BHB Project # 2024.170.000

IAN L. BOST
96649
LICENSED
PROFESSIONAL ENGINEER
07/18/2025

CURRENT SUBMISSION: CONSTRUCTION DOCUMENTS

#	DATE	SUBMISSION
-	7/18/2025	CONSTRUCTION DOCUMENTS

FIRST BAPTIST DALLAS

CRISWELL BASEMENT RENOVATION DEMOLITION - HYDRONICS AND CONTROLS

175821
JOB NO.

MD0.11
SHEET