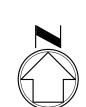


TEMPORARY CHILLER PLAN SCALE: 1/4" = 1'-0"



0 2' 4'

1/4" = 1'-0"

HYDRONIC PIPING MATERIAL SCHEDULE							
PIPING SYSTEM	SIZE	MATERIAL SPECIFICATION	SHUTOFF VALVE				
CHILLED WATER SUPPLY & RETURN	2" AND SMALLER	COPPER, TYPE L, ASTM B88, SOLDERED JOINTS	BALL VALVE, BRONZE ALLOY BODY, THREE PIECE FULL PORT, SOLDER ENDS				
	2-1/2" - 3"	COPPER, TYPE L, ASTM B88, BRAZED JOINTS	PLITTEDELY VALVE CARRON CTEEL BODY OF ACC 450 ELANOE OR LUC CTVLE				
	4" AND LARGER	CARBON STEEL, SCHEDULE 40, ASTM A53 GRADE B, WELDED JOINTS	BUTTERFLY VALVE, CARBON STEEL BODY, CLASS 150 FLANGE OR LUG STYLE				
LOW CONDUCTIVITY WATER SUPPLY & RETURN	2" AND SMALLER	COPPER, TYPE L, ASTM B88, SOLDERED JOINTS	BALL VALVE, BRONZE ALLOY BODY, THREE PIECE FULL PORT, SOLDER ENDS				
	2-1/2" - 3"	COPPER, TYPE L, ASTM B88, BRAZED JOINTS	PLITTERELY VALVE CARRON CTEEL BODY OF ACCUSE AND FOR LUC CTVI E				
	4" AND LARGER	CARBON STEEL, SCHEDULE 40, ASTM A53 GRADE B, WELDED JOINTS	BUTTERFLY VALVE, CARBON STEEL BODY, CLASS 150 FLANGE OR LUG STYLE				
HEATING HOT WATER SUPPLY & RETURN	2" AND SMALLER	COPPER, TYPE L, ASTM B88, SOLDERED JOINTS	BALL VALVE, BRONZE ALLOY BODY, THREE PIECE FULL PORT, SOLDER ENDS				
	2-1/2" - 3"	COPPER, TYPE L, ASTM B88, BRAZED JOINTS	BUTTERFLY VALVE, CARBON STEEL BODY, CLASS 150 FLANGE OR LUG STYLE				

TEMPORARY CHILLER SCHEDULE (RCHSR)																
TAG NO.	NOMINAL COOLING	EVAPORATOR			COMPRESSOR			ELECTRICAL				INSTALLED WEIGHT (LBS.)	BASIS OF DESIGN		NOTES	
IAG NO.	CAPACITY (TONS)	FLUID TYPE	DESIGN FLOW (GPM)	EWT (DEG. F.)	LWT (DEG. F.)	TYPE	QUANTITY / CIRCUITS	REF TYPE	V	PH	MCA	MOCP	INSTALLED WEIGHT (LBS.)	MFR	MODEL	NOTES
(T)432RCHSR01	80	WATER	192	55	45	SCROLL	1	R-134A	460	3	189	200	10300	TRANE	CGAM	ALL
NOTEO																

- 1. UNIT IS TEMPORARY AND SHOULD BE USED ONLY TO PROVIDE CHILLED WATER BEFORE INSTALLATION AND STARTUP OF NEW CHILLER.
- 2. PROVIDE UNIT WITH INTEGRAL CIRCUIT BREAKER FOR OVERCURRENT PROTECTION AND DISCONNECTING MEANS.
- 3. PROVIDE UNIT WITH INTEGRAL PUMP PACKAGE.
- 4. PROVIDE UNIT WITH TRAILER AND TEMPORARY POWER CABLE AND HOSES OF SUFFICIENT LENGTH FOR INSTALLATION.

	ENERAL NOTES	
1.	REFER TO M-001 FOR MECHANICAL ABBREVIATIONS, LEGEND, SYMBOLS, AND GENERAL NOTES.	
2.	TEMPORARY CHILLER WORK MUST BE SEQUENCED (RECOMMENDED BY KEYED NOTE ORDER) AND COMPLETED SUCH THAT BUILDING SERVICE IS NOT INTERUPTED FOR MORE THAN 48 HOURS.	
3.	REMOVE AND DISPOSE OF ALL EXISTING EXTERIOR CHW AND LCW PIPING, FITTINGS AND APPURTENANCES SERVING EXISTING CHILLER AS REQUIRED TO PERFORM NEW WORK.	
4.	EXISTING CHILLED WATER MAKEUP WATER CONNECTION, PRV, BACKFLOW PREVENTER, AND EXPANSION TANK MUST REMAIN CONNECTED TO CHILLED WATER SYSTEM WHILE TEMPORARY CHILLER IS IN OPERATION.	
5.	SUBCONTRACTOR MUST SAMPLE CHILLED WATER FOR CHEMICAL TREATMENT ANALYSIS PRIOR TO CONSTRUCTION START. FORWARD REPORT AND ANY RECOMMENDATIONS FOR RESPONSE.	
6.	PROVIDE LOCKOUT-TAGOUT PLAN FOR APPROVAL PRIOR TO DEMOLITION START.	
KE	YED NOTES	
1	EXISTING LCW AND CHW PIPING PENETRATIONS THROUGH EXTERIOR WALL TO REMAIN.	KEY PLAN
2	EXISTING CHILLER SHELTER WALL TO REMAIN.	
3	INSTALL SELECT CHWS, CHWR, LCWS, & LCWR PIPING AND LINE-SIZE ISOLATION VALVES TO EXTENTS INDICATED IN D1 / M-002 (SEE KEYED NOTES 7 THROUGH 13) WITHIN FIRST SYSTEM SHUTDOWN AT BEGINNING OF CONSTRUCTION PROJECT. ALL WORK REQUIRING CHILLED WATER SYSTEM SHUTDOWN MUST BE ACCOMPLISHED IN THIS OUTAGE. REFER TO M-413 FOR ADDITIONAL WORK REQUIRED DURING FIRST SHUTDOWN. WORK SHALL BE ACCOMPLISHED WITHOUT DRAINING FULL SYSTEM. FREEZING PIPE OR USING HOT TAP PIPE PLUG INSERTION SOLUTION IS ACCEPTABLE.	
4	EXTEND NEW CHWS AND CHWR PIPING THROUGH EXISTING CHILLER SHELTER WALL TO TEMPORARY CHILLER CONNECTIONS WITH BLIND FLANGED TERMINATIONS AT 12" ABOVE GRADE. APPLY SEALANT AROUND NEW PIPE PENETRATIONS.	
5	FURNISH, INSTALL, AND STARTUP TEMPORARY 80 TON (NOMINAL) AIR- COOLED CHILLER (WITH INTEGRAL PUMP PACKAGE). RETURN RENTAL CHILLER ONLY AFTER OWNER AND ENGINEER ACCEPTANCE OF NEW WATER-COOLED CHILLER AND CHILLED WATER PUMPS.	
6	FURNISH AND INSTALL FLEXIBLE 4" CHWS AND CHWR HOSES TO TEMPORARY CHILLER.	
KEY	ED NOTES CONTINUED; DETAIL D1 ONLY	
7	FURNISH AND INSTALL (2) NEW 4"Ø PIPING TEES FOR CHWS AND CHWR CONNECTIONS TO TEMPORARY CHILLER AND NEW CHILLER.	
	FURNISH AND INSTALL NEW 4"ø CHW	Sheet Title

8 FURNISH AND INSTALL NEW 4"ø CHW ISOLATION BUTTERFLY VALVE.	MECHANICAL TEMPORARY
9 FURNISH AND INSTALL NEW 3"ø LCW ISOLATION BUTTERFLY VALVE.	CHILLER PLAN

FLANGE CONNECTION. (11) FOR PERMANENT LCW CONNECTIONS TO PLM2021-0432-0002D CHILLER.

(10) FURNISH AND INSTALL TEMPORARY BLIND

 $\langle 12 \rangle$ BUILDING EXTERIOR.

(13) EXISTING STEEL CHILLER YARD STRUCTURE.

M-002