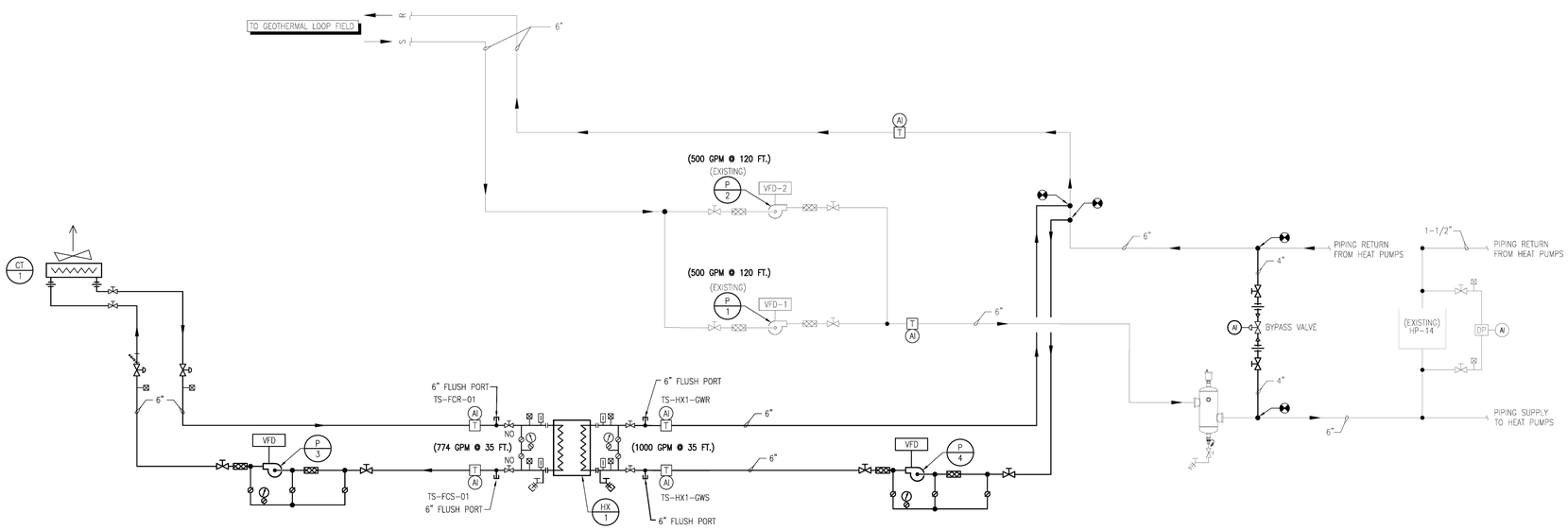

1 PIPING FLOW DIAGRAM

NOT TO SCALE

MECHANICAL PIPING LEGEND

DOUBLE ELBOW DOWN	DOUBLE ELBOW DOWN (AT CORNER)
ELBOW DOWN	ELBOW UP
TEE	TEE DOWN
ELBOW	TEE UP
ELBOW DOWN TO TEE	END CAP
TYPICAL TEE CONNECTION (PLANS ONLY)	REDUCER
AUTOMATIC AIR VENT	NEW TO EXISTING PIPE CONNECTION
WATER FLOW MEASURING DEVICE	FLOW DIRECTION ARROW
PIPE ANCHOR	MANUAL AIR VENT (MAV)
PIPE GUIDE / SLEEVE	PRESSURE GAUGE
BALANCING VALVE	UNION
CIRCUIT SETTER	PRESSURE RELIEF VALVE
PRESSURE REDUCING VALVE	PRESSURE/TEMPERATURE PORT
BALL VALVE/SHUT-OFF VALVE	AIR SEPARATOR
SILENT CHECK VALVE	PUMP OR PUMP
GLOBE VALVE	
TWO-WAY VALVE	FLEX CONNECTION
THREE-WAY VALVE	THERMOMETER
BUTTERFLY VALVE	
TRIPLE DUTY VALVE	STEAM GAUGE SIPHON
SHUT-OFF COCK	STEAM TRAP & DRIP ASSEMBLY
STRAINER	COIL
STRAINER WITH BLOWDOWN	PIPE VIEW
SUCTION DIFFUSER W/ STRAINER AND BLOWDOWN	ANALOG INPUT
DRAIN VALVE	ANALOG OUTPUT
VACUUM BREAKER	DIGITAL INPUT
FLOW CONTROL VALVE W/ PRESSURE DIFFERENTIAL SENSOR	DIGITAL OUTPUT
DIFFERENTIAL PRESSURE SENSOR	

INPUT/OUTPUT SUMMARY (FLUID COOLER, BOILER'S, & PUMP ROOM)

SYSTEM, APPARATUS OR AREA POINT DESCRIPTION	INPUTS																	OUTPUTS						SYSTEM FEATURES													REMARKS
	ANALOG																	ANALOG				DIGITAL		ALARMS				PROGRAMS									
	MEASURED					CALC.			DIGITAL																												
	TEMPERATURE	RELATIVE HUMIDITY	STATIC PRESSURE	DIFFERENTIAL PRESSURE	AIR FLOW (CFM)	CURRENT	KWH	ENTHALPY	RUN TIME	EFFICIENCY	TEMPERATURE SWITCH	PRESSURE SWITCH	FLOW SWITCH	END SWITCH	CURRENT SWITCH	AUXILIARY CONTACTS	SMOKE DETECTOR	FREEZE STAT	STATUS	BURNER MODULATION	VALVE MODULATION	DAMPER MODULATION	VFD MODULATION	SET POINT ADJUST.	START/STOP	OPEN/CLOSE	HIGH/LOW	HIGH ANALOG	LOW ANALOG	HIGH DIGITAL	LOW DIGITAL	PROOF	TIM SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/STOP OPT.	ENTHALPY OPT.	SMOKE CNT.	TREND	ALARM INSTRUCT	GRAPHIC	
ENTIRE HYDRONIC SYSTEM																																										
VFD CONTROL																							X																		X	P-1, P-2, P-3, P-4
START/STOP																									X																X	P-1, P-2, P-3, P-4
VFD TROUBLE ALARM																X															X								X	X	P-1, P-2, P-3, P-4
STATUS						X	X																					X											X	X	P-1, P-2, P-3, P-4
BUILDING DIFFERENTIAL PRESSURE				X																																					
COOLING TOWER	X																	X	X				X		X															X	
BUILDING SUPPLY TEMPERATURE	X																																				X				TS-GWS-
BUILDING RETURN TEMPERATURE	X																																				X				TS-GWR-
GEO WATER SUPPLY TEMPERATURE	X																																				X				TS-GWS-
GEO WATER RETURN TEMPERATURE	X																																				X				TS-GWR-
HX WATER SUPPLY TEMPERATURE	X																																				X				TS-HX1-
HX WATER RETURN TEMPERATURE	X																																				X				TS-HX1-

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CIVIL

KFC ENGINEERING
STRUCTURAL

SALAS O'BRIEN
MECHANICAL / ELECTRICAL

STATE OF OKLAHOMA PROFESSIONAL ENGINEER
Dylan Gaines
Dylan Gaines
14308?2
01/29/26

KF
drawn by

DG
checked by

JANUARY 2026
date

REVISIONS

Δ	DESCRIPTION	DATE

MOORE PUBLIC SCHOOLS

WAYLAND BONDS
2025 HVAC

sheet no:

M501

Salas O'Brien
Oklahoma City
2900 S. Telephone Road, Suite 120
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CA#: 7058 Expiration Date: 06/30/2027
Salas O'Brien Project Number: 2550-01872-00

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