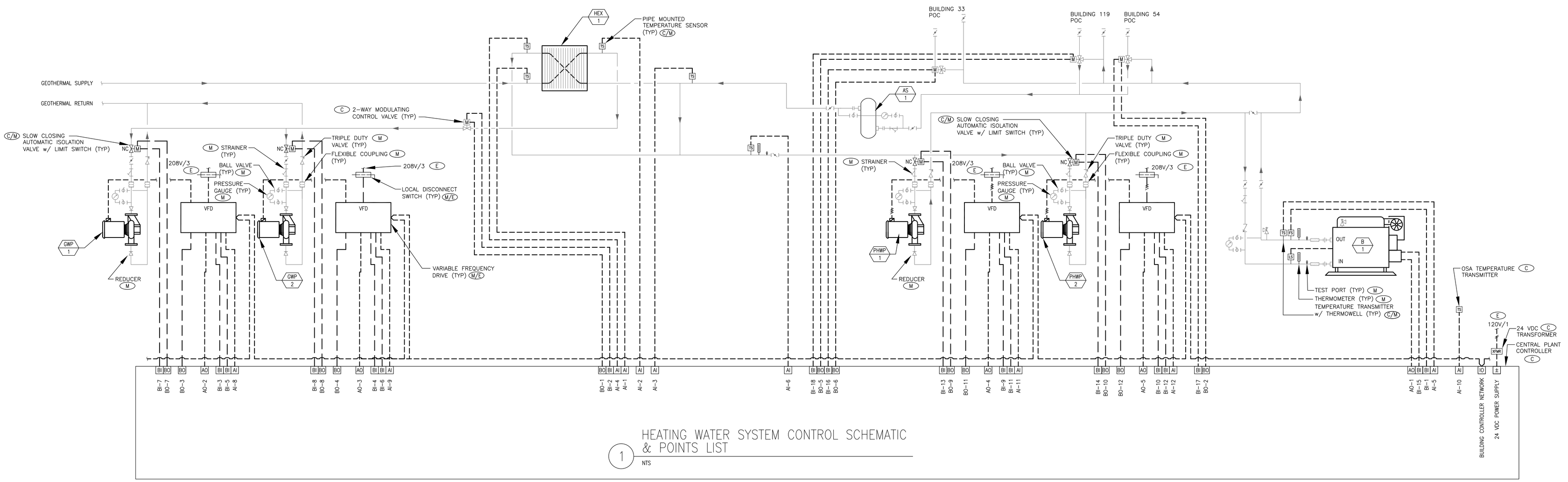
JOB: 531-10-114
BUILDING: 33

SYSTEM: HEATING WATER SYSTEM

SYSTEM COMPONENT	POINT ID	ABBREVIATION	POINT LEGEND: DIGITAL/ANALOG/GENERAL SO	SYSTEM OUTPUTS: BINARY: DIGITAL LIMIT SWITCH (LS)	SYSTEM OUTPUTS: BINARY: DIGITAL STATUS (DS)	SYSTEM OUTPUTS: BINARY: DIGITAL COMMAND (DC)	SYSTEM OUTPUTS: BINARY: DIGITAL ON/OFF (OO)	SYSTEM OUTPUTS: ANALOG: ANALOG OUTPUT (AO)	SYSTEM INPUTS: BINARY: DIGITAL TEMPERATURE (DT)	SYSTEM INPUTS: BINARY: DIGITAL PRESSURE (DP)	SYSTEM INPUTS: BINARY: DIGITAL FLOW (DF)	SYSTEM INPUTS: BINARY: DIGITAL VIBRATION (DV)	SYSTEM INPUTS: BINARY: DIGITAL POSITION (DP)	SYSTEM INPUTS: BINARY: DIGITAL ENERGY (DE)	SYSTEM INPUTS: ANALOG: ANALOG TEMPERATURE (AT)	SYSTEM INPUTS: ANALOG: ANALOG PRESSURE (AP)	SYSTEM INPUTS: ANALOG: ANALOG FLOW (AF)	SYSTEM INPUTS: ANALOG: ANALOG VIBRATION (AV)	SYSTEM INPUTS: ANALOG: ANALOG POSITION (AP)	SYSTEM INPUTS: ANALOG: ANALOG ENERGY (AE)	SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING: CONTROL START/STOP	SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING: CONTROL SETPOINT	SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING: CONTROL LOOP TUNING	SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING: ALARM LIMITS	SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING: ALARM PRIORITY	SYSTEM SOFTWARE/CONTROL: ALARM PROCESSING: ALARM DELAYS	SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION: SEQUENCE OF CONTROL	SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION: CONTROL LOOP TUNING	SYSTEM SOFTWARE/CONTROL: APPLICATION/FUNCTION: TRENDING	REMARKS
HEX-1 GEO ENTERING TEMP	AI-1	HEX1-GENTT							●			●						●	●								●			●	
HEX-1 GEO DISCHARGE TEMP	AI-2	HEX1-GDICST							●			●						●		●							●			●	
BLD RETURN TEMP	AI-3	BRETT							●			●						●	●								●			●	
HEX-1 BLD SUPPLY TEMP	AI-4	HEX1-BSUPT							●			●						●		●							●			●	
B-1 DISCHARGE TEMP	AI-5	B1-DICST							●			●						●		●							●			●	
BLD LOOP HWS TEMP	AI-6	BLDHWST							●			●						●		●							●			●	
BLD LOOP PRESSURE	AI-7	BLDPRES							●				●					●		●							●			●	
GWP-1 VFD LOAD (%)	AI-8	GWP1-VFD%				●								●													●			●	
GWP-2 VFD LOAD (%)	AI-9	GWP2-VFD%				●								●													●			●	
OSA TEMPERATURE	AI-10	OSA-TMP							●			●															●			●	
PHWP-1 VFD LOAD (%)	AI-11	PHWP1-VFD%				●								●													●			●	
PHWP-2 VFD LOAD (%)	AI-12	PHWP2-VFD%				●								●													●			●	
BUILDING LOOP FLOW STATUS	BI-1	FLO-STS							●																		●			●	
GEO CONTROL VALVE POSITION	BI-2	GEO-VP					●						●														●			●	
GWP-1 VFD STATUS	BI-3	GWP1-VFDSTS							●																		●			●	
GWP-2 VFD STATUS	BI-4	GWP2-VFDSTS							●																		●			●	
GWP-1 VFD ALARM	BI-5	GWP1-ALA							●										●								●			●	
GWP-2 VFD ALARM	BI-6	GWP2-ALA							●										●								●			●	
GWP-1 ISO. VALVE POSITION	BI-7	GWP1-IVP										●		●													●			●	
GWP-2 ISO. VALVE POSITION	BI-8	GWP2-IVP										●		●													●			●	
PHWP-1 VFD STATUS	BI-9	PHWP1-VFDSTS							●																		●			●	
PHWP-2 VFD STATUS	BI-10	PHWP2-VFDSTS							●																		●			●	
PHWP-1 VFD ALARM	BI-11	PHWP1-ALA							●										●								●			●	
PHWP-2 VFD ALARM	BI-12	PHWP2-ALA							●										●								●			●	
PHWP-1 ISO. VALVE POSITION	BI-13	PHWP1-IVP										●		●													●			●	
PHWP-2 ISO. VALVE POSITION	BI-14	PHWP2-IVP										●		●													●			●	
B-1 GENERAL ALARM	BI-15	B1-ALA							●										●								●			●	
BLDG 33 CNT. VALVE POISTION	BI-16	B33-CVP										●		●													●			●	
BLDG 54 CNT. VALVE POSITION	BI-17	B54-CVP										●		●													●			●	
BLDG 119 CNT. VALVE POSITION	BI-18	B119-CVP										●		●													●			●	
B-1 FIRING RATE (0-100%)	AO-1	B1-PERCENT						●											●								●			●	
GWP-1 VFD SPEED	AO-2	GWP1-SPD				●																					●		●	●	FULL COMMUNICATION
GWP-2 VFD SPEED	AO-3	GWP2-SPD				●																					●		●	●	FULL COMMUNICATION
PHWP-1 VFD SPEED	AO-4	PHWP1-SPD				●																					●		●	●	FULL COMMUNICATION
PHWP-2 VFD SPEED	AO-5	PHWP2-SPD				●																					●		●	●	FULL COMMUNICATION
GEO CONTROL VALVE COMMD	BO-1	GEO-CVC			●																									●	
BLDG 54 CNT. VALVE COMMD	BO-2	B54-CVC			●																									●	
GWP-1 PUMP START/STOP	BO-3	GWP1-SST		●																	●									●	
GWP-2 PUMP START/STOP	BO-4	GWP2-SST		●																	●									●	
BLDG 119 CNT. VALVE COMMD	BO-5	B119-CVC			●																									●	
BLDG 33 CNT. VALVE COMMD	BO-6	B33-CVC			●																									●	
GWP-1 ISO. VALVE COMMAND	BO-7	GWP1-IVC			●																									●	
GWP-2 ISO. VALVE COMMAND	BO-8	GWP2-IVC			●																									●	
PHWP-1 ISO. VALVE COMMAND	BO-9	PHWP1-IVC			●																									●	
PHWP-2 ISO. VALVE COMMAND	BO-10	PHWP2-IVC			●																									●	
PHWP-1 PUMP START/STOP	BO-11	PHWP1-SST		●																	●									●	
PHWP-2 PUMP START/STOP	BO-12	PHWP2-SST		●																	●									●	



1 HEATING WATER SYSTEM CONTROL SCHEMATIC & POINTS LIST
NTS

95% SUBMISSION

REVISIONS | DATE

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DRAWING TITLE: HEATING WATER SYSTEM CONTROL SCHEMATIC AND POINTS LIST

APPROVED: DIVISION CHIEF

APPROVED: SERVICE DIRECTOR

PROJECT TITLE: VAMC ENERGY UPGRADES PHASE ONE BUILDING 33

BUILDING NUMBER: 33 | CHECKED: RME | DRAWN: DRG

LOCATION: BOISE, IDAHO

DATE: 03/03/11

PROJECT NO. 531-10-114

DRAWING NO. M3.6

DWG. 24 OF 32

DEPARTMENT OF VETERANS AFFAIRS

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