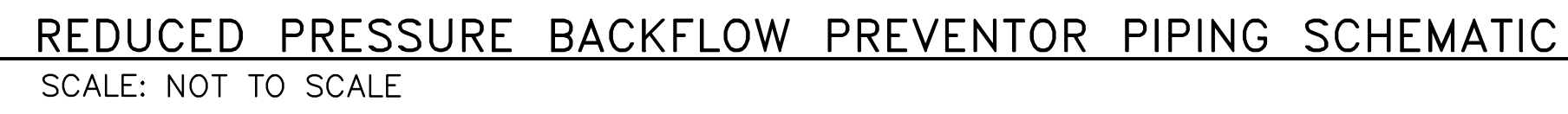
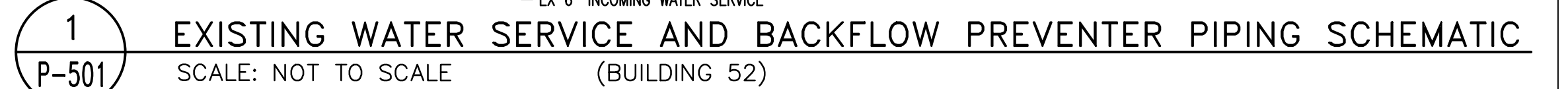




QUADRUPLIX DOMESTIC WATER BOOSTER PUMP DETAIL
SCALE: NOT TO SCALE (BUILDING 58)



TRIPLEX DOMESTIC WATER BOOSTER PUMP DETAIL
SCALE: NOT TO SCALE (BUILDING 52)

VA FORM 08-6231

A

B

C

D

E

F

	ii	iii	iv
L:\Projects - Eng\2017 Projects\17-119-VA Muskogee-Upgrade	Water	Dist Sys-OK\Dwg\Plumb\99-P-601	Controls.dwg
			3-29-18
			11:56:53 AM
			bfaryna



SEQUENCE OF OPERATION

FLOW METER:

FLOW METER SHALL PROVIDE CONTINUOUS FLOW RATE READINGS (GPM) AND TOTALIZATION OF USAGE PER HOUR, DAY, MONTH, AND YEAR. FLOW METER SHALL REPORT TO THE TL SYSTEMS CONTROLS.

DOMESTIC HOT WATER MIXING VALVE:

MIXING VALVES SHALL MODULATE TO MAINTAIN 130°F BUILDING WATER SUPPLY.

DOMESTIC HOT WATER BUILDING SUPPLY TEMPERATURE:

TEMPERATURE SENSOR SHALL REPORT TO THE BAS CONTROL SYSTEM.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- TEMPERATURE EXCEEDS 140°F
- TEMPERATURE FALLS BELOW 124°F



POINTS LIST												
POINT NAME	HARDWARE POINTS				SOFTWARE POINTS						SHOW ON GRAPHIC	
	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND	ALARM		
BUILDING DOMESTIC HOT WATER SUPPLY TEMP	X								X	X	X	
BUILDING DOMESTIC HOT WATER FLOW	X								X		X	
TOTALS	2								2	2	2	

POINTS LIST



SEQUENCE OF OPERATION

THIS SYSTEM MONITORS THE REMOTE DOMESTIC COLD WATER OXIDANT RESIDUAL AND REMOTE DOMESTIC HOT WATER TEMPERATURE FOR LEGIONELLA GUIDELINE COMPLIANCE.

MONITORING CONDITIONS: THE REMOTE DOMESTIC COLD WATER OXIDANT RESIDUAL AND REMOTE DOMESTIC HOT WATER TEMPERATURE SHALL BE MONITORED AND TRENDING AT ALL TIMES.

REMOTE OXIDANT RESIDUAL:

ALARMS SHALL BE PROVIDED AS FOLLOWS:

ALARM IF RESIDUAL OXIDANT LEVEL FALLS BELOW 0.5 mg/L.

REMOTE HOT WATER TEMPERATURE:

ALARMS SHALL BE PROVIDED AS FOLLOWS:

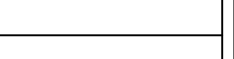

ALARM IF TEMPERATURE FALLS BELOW 124 F.

POINTS LIST											
POINT NAME	HARDWARE POINTS				SOFTWARE POINTS						SHOW ON GRAPHIC
	AI	AO	BI	BO	AV	BV	LOOP	SCHED	TREND	ALARM	
COLD WATER OXIDANT RESIDUAL BUILDING 58	X								X	X	X
COLD WATER OXIDANT RESIDUAL FIFTH FLOOR EAST BUILDING 53	X								X	X	X
COLD WATER OXIDANT RESIDUAL FIFTH FLOOR WEST BUILDING 53	X								X	X	X
COLD WATER OXIDANT RESIDUAL BUILDING 18	X								X	X	X
COLD WATER OXIDANT RESIDUAL THIRD FLOOR MEZZANINE MECHANICAL ROOM BUILDING 1 C	X								X	X	X
HOT WATER TEMPERATURE FIFTH FLOOR EAST BLDG 53	X								X	X	X
HOT WATER TEMPERATURE FIFTH FLOOR WEST BLDG 53	X								X	X	X
HOT WATER TEMPERATURE THIRD FLOOR MEZZANINE MECHANICAL ROOM BUILDING 1 C	X								X	X	X
TOTALS	8								8	8	8

POINTS LIST

[illegible]



CONSULTANT		ARCHITECT/ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title INSTRUMENTATION DETAILS		Phase 100% CONSTRUCTION DOCUMENTS		Project Title Upgrade Site Water Systems		Project Number VA #623-16-113	
		A/E: Apogee Consulting Group 1152 Kildaire Farm Rd., Suite 120 Cary, NC 27511 919-858-7420 Josh VandenEnde				 U.S. Department of Veterans Affairs		Approved:		FULLY SPRINKLERED		Location Muskogee, OK		Building Number ALL	
												Issue Date March 29, 2018		Checked CAS	
												Drawn BDB		Drawing Number P-602	