



BUILDING 143 DDC POINTS LIST

SYSTEM COMPONENT	POINT ID	SYSTEM OUTPUTS		SYSTEM INPUTS									SYSTEM SOFTWARE / CONTROL					
		DIGITAL	ANALOG	DIGITAL	ANALOG								ALARM PROCESSING	APPLICATION / FUNCTION				
		COMMAND	POSITION PERCENT	STATUS	CURRENT	PRESSURE	DIFFERENTIAL PRESSURE	LEVEL	FLOW	TEMPERATURE	CONDUCTIVITY	CHLORINE	DATA (COM LINE)	EQUIPMENT STATUS	LOW LIMIT	HIGH LIMIT	LEAD / LAG	START / STOP
INCOMING DOMESTIC COLD WATER PRESSURE						X									X	X		
CHLORINE RESIDUAL												X			X	X		
TEMPERATURE									X						X			
COPPER SILVER IONIZATION 143-CSI-1					X									X				
CIRCULATING PUMP 143-P-1					X									X				
CIRCULATING PUMP 143-P-2					X									X				
DOMESTIC WATER FLOW												X		X				
STATUS												X		X				
COPPER ANALYZER												X						
DOMESTIC HOT WATER SYSTEM																		
HOT WATER SUPPLY TEMPERATURE										X					X			
HOT WATER RETURN TEMPERATURE										X					X			
EXISTING RECIRCULATING PUMP					X									X				
EXISTING RECIRCULATING PUMP					X									X				
REMOTE DOMESTIC COLD WATER TEMPERATURES (SEE PLUMBING DWGS FOR QUANTITIES)										X						X		
REMOTE DOMESTIC HOT WATER TEMPERATURES (SEE PLUMBING DWGS FOR QUANTITIES)										X					X			
REMOTE CHLORINE RESIDUAL (SEE PLUMBING DWGS FOR QUANTITIES)												X		X				

NOTES: 1. REFER TO PLUMBING DRAWINGS FOR DDC PANELS, INSTRUMENTATION, AND EQUIPMENT.
 2. PROVIDE 24 VOLT POWER TO CHLORINE ANALYZERS.

BUILDING 170 DDC POINTS LIST

SYSTEM COMPONENT	POINT ID	SYSTEM OUTPUTS		SYSTEM INPUTS									SYSTEM SOFTWARE / CONTROL					
		DIGITAL	ANALOG	DIGITAL	ANALOG								ALARM PROCESSING	APPLICATION / FUNCTION				
		COMMAND	POSITION PERCENT	STATUS	CURRENT	PRESSURE	DIFFERENTIAL PRESSURE	LEVEL	FLOW	TEMPERATURE	CONDUCTIVITY	CHLORINE	DATA (COM LINE)	EQUIPMENT STATUS	LOW LIMIT	HIGH LIMIT	LEAD / LAG	START / STOP
INCOMING DOMESTIC COLD WATER PRESSURE						X									X	X		
CHLORINE RESIDUAL												X			X	X		
TEMPERATURE									X						X			
COPPER SILVER IONIZATION 170-CSI-1					X									X				
CIRCULATING PUMP 170-P-1					X									X				
CIRCULATING PUMP 170-P-2					X									X				
DOMESTIC WATER FLOW												X		X				
STATUS												X		X				
COPPER ANALYZER												X						
DOMESTIC HOT WATER SYSTEM																		
HOT WATER RETURN TEMPERATURE										X					X			
EXISTING RECIRCULATING PUMP														X				
REMOTE DOMESTIC COLD WATER TEMPERATURE										X						X		
REMOTE CHLORINE RESIDUAL												X		X				

NOTES: 1. REFER TO PLUMBING DRAWINGS FOR DDC PANELS, INSTRUMENTATION, AND EQUIPMENT.
 2. PROVIDE 24 VOLT POWER TO CHLORINE ANALYZERS.

BUILDING 172 DDC POINTS LIST

SYSTEM COMPONENT	POINT ID	SYSTEM OUTPUTS		SYSTEM INPUTS									SYSTEM SOFTWARE / CONTROL					
		DIGITAL	ANALOG	DIGITAL	ANALOG								ALARM PROCESSING	APPLICATION / FUNCTION				
		COMMAND	POSITION PERCENT	STATUS	CURRENT	PRESSURE	DIFFERENTIAL PRESSURE	LEVEL	FLOW	TEMPERATURE	HYDROGEN	PERCENT	CHLORINE	EQUIPMENT STATUS	LOW LIMIT	HIGH LIMIT	LEAD / LAG	START / STOP
POTABLE WATER CHLORINATION																		
MIOX SKID 172-M-1 STATUS					X													
ALARM					X													
AUTO MODE					X													
HAND MODE					X									X				
OFF MODE					X									X				
LOW LEVEL SWITCH									X						X			
LOW LEVEL SWITCH									X						X			
CHEMICAL METERING PUMP 172-P-1 ON/OFF					X									X				
START/STOP		X																X
SPEED			X															
HAND MODE					X									X				
AUTO MODE					X									X				
OFF MODE					X									X				
SPEED CONTROL MODE					X									X				
FLOW CONTROL MODE					X									X				
SPEED INDICATION													X					
FLOW			X															
ALARM					X									X				
CHEMICAL METERING PUMP 172-P-2											X			X				
START/STOP		X																X
SPEED			X															
HAND MODE					X									X				
AUTO MODE					X									X				
OFF MODE					X									X				
SPEED CONTROL MODE					X									X				
FLOW CONTROL MODE					X									X				
SPEED INDICATION													X					
FLOW			X															
ALARM					X									X				
HYDROGEN SENSOR 172-HH-1														X				
ALARM					X									X				
STATUS					X											X		
CHLORINE ANALYZER 172-C-1																		
ALARM														X				
VENTILATION SYSTEM																		
EXHAUST FAN 172-EF-1											X							
ON/OFF											X							
START/STOP		X																X
INTAKE DAMPER		X																
POSITION											X							
EXHAUST DAMPER		X																
ON/OFF											X							
POSITION											X							
ROOM TEMPERATURE																X		
SPRING WOUND TWIST TIMER															X			

NOTES: 1. PROVIDE POWER TO CHLORINE ANALYZER AND TURBIDITY SENSOR, HYDROGEN SENSOR, LOW LEVEL SWITCHES, FLOW METERS AND CONTROL DAMPERS.
 2. REFER TO CIVL DRAWINGS FOR EQUIPMENT, CONTROL DIAGRAM AND SEQUENCE OF OPERATIONS.

Order Plans

Revisions	Date

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Approved: Energy Engineer	Approved: Safety Manager	Approved: Service Chief	Drawing Title	Project Title	Date
			M-704 DDC POINTS LIST	RENOVATE FOR WATER QUALITY	04/28/2017
					Project No. 658-15-101
					DRAWING SET
					2592
					Dwg. 139 Of 155
CONSTRUCTION DOCUMENTS			Approved: Chief of Facility Management Svc.	Building Number 143, 170 & 172	Checked MUG
			Approved: Medical Center Director	Drawn JFC	Location VA MEDICAL CENTER, SALEM, VA 24153

Veterans Affairs