

3.3 MAIN EQUIPMENT MANUFACTURERS

The following table shows the list of suppliers preliminarily selected for your project, subject to “or equal” substitution, where applicable, during the detailed engineering phase of the project.

Equipment Description	Manufacturer
1st Stage Feed Pumps	Goulds
Sand Separators	Lakos
Automatic Backwash Strainers	Amiad
UF Membranes	Toray
Backwash Pumps	Goulds
2 nd Stage Feed Pumps	Sulzer
CIP/Neutralization Pumps	Grundfos
Air Blower	Aerzen GM Series
Air Compressor	Quincy Compressors Series
Air Dryer	Quincy Compressors QPNC Series
High Performance Butterfly Valves	Keystone K-Lok
Lugged Style Butterfly Valves	Keystone 222
Swing Check Valves	Con-Val
Actuators	K-tork
Couplings	Piedmont Pacific Corporation
XLPE Tanks	ATCO
Instruments –	
Pressure Transmitters	Endress & Hauser Cerebar M55
Magnetic Flowmeters	Endress & Hauser Promag 53
Thermal Mass Flow Meters	FCI
Pressure Gauges	Ashcroft
Ultrasonic Level Transmitter	Endress & Hauser
Laser Turbidimeters	Hach FilterTrak 660 with SC 200 controller
Turbidimeters	Hach 1720E with SC 200 controller
Temperature Gauges	Ashcroft
Temperature Transmitters	Endress & Hauser
Temperature/pH Transmitters	Hach, Model EC310
Chlorine Residual Transmitters	Hach/ATI
Diaphragm Seal	Matching supplier of instrument
Dew Point Analyzer	GE Panametrics; Model MMY31
PLC	Allen Bradley ControlLogix
HMI	Allen Bradley PanelView +
Solenoids	Asco

It is worth highlighting that our offer includes the use of stainless steel couplings that will ensure years of trouble free operation as well as a system that is aesthetically pleasing to look at (i.e., no rusted couplings).

3.4 SCOPE OF SUPPLY

Please refer to the table below for clarity on the scope of supply we have proposed for the UF system. Each piece of equipment as referenced on the P&IDs included in Appendix D of the proposal document. If there are discrepancies between the scope of supply table below and the P&IDs, the scope of supply table takes precedence. All equipment not described below is entirely by others.

1 st Stage UF Feed Pumps P-14030-C01-0003	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Skids/Frames	N/A	N/A		
Vertical Turbine Feed Pump 1 & 2 (each capable of 100% of the initial flowrate) c/w motor and Can, loose shipped		2	√	
Vertical Turbine Feed Pumps 1 & 2 VFDs		2		√
Vertical Turbine Pumps 1 & 2 Discharge Check Valve, loose shipped		2	√	
Vertical Turbine Pumps 1 & 2 Discharge Hand Isolation Valve, loose shipped		2	√	
Vertical Turbine Pumps 1 & 2 Discharge Pressure Gauge c/w isolation valve, loose shipped		2	√	
Vertical Turbine Pumps 1 & 2 Discharge Air Release Valve, loose shipped		2	√	
Common discharge temperature transmitter, loose shipped		1	√	
Common discharge pressure transmitter with, loose shipped		1	√	
Common discharge magnetic flow transmitter, loose shipped		1	√	
Common discharge sample valve, loose shipped		1	√	
Common discharge pH transmitter, loose shipped		1	√	

Common discharge high range turbidimeter, loose shipped	1	√
Installation of equipment	-	√
Associated interconnecting piping	-	√

1 st Stage Feed Sand Separators P-14030-C01-0004	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Skids/Frames	N/A	N/A		
Sand Separators 1, 2 & 3 (each capable of 50% of the initial flowrate), loose shipped ¹		3	√	
Bypass hand isolation valves, loose shipped		2		√
Sand Separators 1, 2 & 3 Suction Hand Isolation Valve, loose shipped		3	√	
Sand Separators 1, 2 & 3 Discharge Hand Isolation Valve, loose shipped		2	√	
Sand Separators Waste Discharge Automatic Valve, loose shipped		3	√	
Coagulant Dosing Injection Check Valve, loose shipped		1	√	
Coagulant Dosing Injection Hand Valve, loose shipped		1	√	
Installation of equipment		-		√
Associated interconnecting piping		-		√

Notes:

¹ See Section 6.5 for clarification on Sand Separators.

UF Strainers P-14030-C01-0300	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Skids/Frames	N/A	N/A		
Common Influent Sample Valve, loose shipped		1	√	
Automatic Strainers, loose shipped		2	√	
Differential pressure transmitter, loose shipped		2	√	
Automatic Strainer Suction Isolation Valve, loose shipped		2	√	
Automatic Strainer Discharge Isolation Valve, loose shipped		2	√	
External backwash automatic valve, loose shipped		2	√	
Backwash automatic drain valve, loose shipped		2	√	
Common Discharge Sample Valve, loose shipped		1	√	
Influent high range turbidimeter c/w isolation valve, loose shipped		1	√	

Feed pump, sand separators, and filter screens solenoid rack in a NEMA 4 box, loose shipped	1	√
External Backwash Water Source	-	√
Installation of equipment	-	√
Associated interconnecting piping	-	√

1 st Stage UF Train P-14030-C01-0310	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
UF Membrane Train Frame	4 (1 per train)		√	
On-Skid Equipment Per Frame:				
UF Membranes – Toray HFU-2020N		45	√	
Associated on-skid HDPE Headers ¹		10	√	
Installation of skid		-		√
Associated off-skid piping		-		√
UF Membrane Train Valve Skid Frame	4 (1 per train)		√	
Inlet Block Flow Valve with limit switches		1	√	
Inlet Block Flow Control Valve with limit switches		1	√	
Inlet Bleed Flow Valve with limit switches		1	√	
Inlet Pressure Gauge with isolation valve		1	√	
Inlet Pressure Transmitter		1	√	
Inlet Feed Magnetic Flow Transmitter		1	√	
Air Scour Flow Valve		1	√	
MIT Air Flow Valve		1	√	
Backpulse Inlet Block Flow Valve with limit switches		1	√	
Backpulse Inlet/Permeate Discharge Block Flow Valve with limit switches		1	√	
Backpulse Inlet/Permeate Discharge Bleed Flow Valve with limit switches		1	√	
Backpulse Reject Flow Valve with limit switches		1	√	
Backpulse Reject Block Flow Valve with limit switches		1	√	
Backpulse Reject Bleed Flow Valve with limit switches		1	√	
Backpulse Reject Pressure Gauge with isolation valve		1	√	
Backpulse Reject Sample Valve		1	√	
Backpulse Reject Air Release Flow Valve (with silencer)		1	√	
Permeate Discharge Flow Valve		1	√	
Permeate Discharge Pressure Gauge		1	√	

Permeate Discharge Pressure Transmitter	1	√	
Permeate Discharge Low Range Laser Turbidimeter with inlet sample isolation valve	1	√	
CIP Inlet Block Flow Valve with limit switches	1	√	
CIP Inlet Bleed Flow Valve with limit switches	1	√	
CIP to Discharge of Membranes Block Flow Valve with limit switches	1	√	
CIP Inlet to Membranes/Discharge Block Flow Valve with limit switches	1	√	
CIP Discharge Block Flow Valve with limit switches	1	√	
CIP Discharge Bleed Flow Valve with limit switches	1	√	
Solenoid rack inside NEMA 4 box	1	√	
Associated on-skid sch 80 PVC piping	-	√	
Installation of skid	-		√
Associated off-skid piping	-		√

2 nd Stage UF Train P-14030-C01-0320	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
UF Membrane Train Frame	1		√	
On-Skid Equipment Per Frame:				
UF Membranes – Toray HFU-2020N		10	√	
Associated on-skid HDPE Headers ¹		4	√	
Installation of skid		-		√
Associated off-skid piping		-		√
UF Membrane Train Valve Skid Frame	1		√	
Inlet Block Flow Valve with limit switches		1	√	
Inlet Block Flow Control Valve with limit switches		1	√	
Inlet Bleed Flow Valve with limit switches		1	√	
Inlet Pressure Gauge with Isolation valve		1	√	
Inlet Pressure Transmitter		1	√	
Inlet Feed Magnetic Flow Transmitter		1	√	
Air Scour Flow Valve		1	√	
MIT Air Flow Valve		1	√	
Backpulse Inlet Block Flow Valve with limit switches		1	√	
Backpulse Inlet/Permeate Discharge Block Flow Valve with limit switches		1	√	
Backpulse Inlet/Permeate Discharge Bleed Flow Valve with limit switches		1	√	

Backpulse Reject Flow Valve with limit switches	1	√	
Backpulse Reject Pressure Gauge with isolation valve	1	√	
Backpulse Reject Sample Valve	1	√	
Backpulse Reject Air Release Flow Valve (with silencer)	1	√	
Permeate Discharge Flow Valve	1	√	
Permeate Discharge Pressure Gauge	1	√	
Permeate Discharge Pressure Transmitter	1	√	
Permeate Discharge Low Range Laser Turbidimeter with inlet sample isolation valve	1	√	
CIP Inlet Block Flow Valve with limit switches	1	√	
CIP Inlet Bleed Flow Valve with limit switches	1	√	
CIP to Discharge of Membranes Block Flow Valve with limit switches	1	√	
CIP Inlet to Membranes/Discharge Block Flow Valve with limit switches	1	√	
CIP Discharge Block Flow Valve with limit switches	1	√	
CIP Discharge Bleed Flow Valve with limit switches	1	√	
Solenoid rack in NEMA 4 box	1	√	
Associated on-skid sch 80 PVC piping	-	√	
Installation of skid	-		√
Associated off-skid piping	-		√

Blower P-14030-C01-0350	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Skids/Frames	N/A	N/A		
Air Blower including inlet air filter, inlet and discharge silencers, pressure gauge, pressure relief valve, discharge check valve all within an acoustic enclosure, loose shipped		2	√	
Blower Discharge Hand Isolation Valve, loose shipped		2	√	
Blower Discharge Thermal Flow Transmitter, loose shipped		1	√	
Installation of equipment		-		√
Associated interconnecting piping		-		√

Common Backwash System P-14030-C01-0360	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Skids/Frames	N/A	N/A		
Witch hat strainer, loose shipped		2	√	
Vertical Turbine Backwash Pumps c/w motor, loose shipped		2	√	
Vertical Turbine Backwash Pump VFDs		2		√
Vertical Turbine Backwash Pump Discharge Check Valve, loose shipped		2	√	
Vertical Turbine Backwash Pump Discharge Hand Isolation Valve, loose shipped		2	√	
Vertical Turbine Backwash Pump Discharge Pressure Gauge c/w isolation valve, loose shipped		2	√	
Vertical Turbine Backwash pump Discharge Air Release Valve, loose shipped		2	√	
Common discharge pressure transmitter, loose shipped		1	√	
Common discharge magnetic flow transmitter, loose shipped		1	√	
Level Switches (high, low), loose shipped		2	√	
Sodium hypochlorite injection check valve, loose shipped		1	√	
Sodium hypochlorite injection hand isolation valve, loose shipped		1	√	
Chlorine Contact Tank Fill Automatic Valve, loose shipped		1		√
Below-grade Concrete Chlorine Contact Tank and Reservoir		1		√
Post-sodium hypochlorite injection check valve, loose shipped		1	√	
Post-sodium hypochlorite injection hand isolation valve, loose shipped		1	√	
Post-sodium hydroxide injection check valve, loose shipped		1	√	
Post-sodium hydroxide injection hand isolation valve, loose shipped		1	√	
Chlorine contact tank discharge sample valve, loose shipped		1	√	
Chlorine Contact Tank Discharge Temperature/pH transmitter, loose shipped		1	√	
Chlorine Contact Tank Discharge Chlorine Analyzer, loose shipped		1	√	

High Lift Pump Station, including all pumps, valves, instrumentation, and piping	-	√
High Lift Pump Station Discharge Temperature/pH transmitter, loose shipped	1	√
High Lift Pump Station Discharge Chlorine Analyzer, loose shipped	1	√
Installation of equipment	-	√
Associated interconnecting piping	-	√

UF CIP System P-14030-C01-370	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Skids/Frames	N/A	N/A		
UF CIP Tank A Discharge Flow Valve, loose shipped		1	√	
UF CIP Tank A Fill Flow Valve, loose shipped		1	√	
UF CIP Tank A Fill/Recirculation Flow Valve, loose shipped		1	√	
UF CIP Tank B Discharge Flow Valve, loose shipped		1	√	
UF CIP Tank B Fill Flow Valve, loose shipped		1	√	
UF CIP Tank B Fill/Recirculation Flow Valve, loose shipped		1	√	
UF CIP Tank A, loose shipped		1	√	
UF CIP Tank B, loose shipped		1	√	
UF CIP Tank A Ultrasonic Level Transmitter, loose shipped		1	√	
UF CIP Tank B Ultrasonic Level Transmitter, loose shipped		1	√	
UF CIP Tank A hand isolation drain valve, loose shipped		1	√	
UF CIP Tank B hand isolation drain valve, loose shipped		1	√	
CIP Pump suction pressure gauge c/w hand isolation valve loose shipped		4	√	
CIP Pump Suction Hand Isolation Valve, loose shipped		4	√	
CIP Pump c/w motor		4	√	
CIP Pump VFDs		4		√
CIP Pump Discharge Check Valve, loose shipped		4	√	
CIP Pump Discharge Hand Isolation Valve, loose shipped		4	√	
CIP Pump Discharge Pressure Gauge c/w hand isolation valve, loose shipped		4	√	

Common CIP Pump discharge pressure transmitter, loose shipped	2	√
Analyzer sample flow valve, loose shipped	2	√
pH Transmitter c/w inlet needle valve, loose shipped	2	√
Chlorine Analyzer c/w inlet needed valve, loose shipped	2	√
Discharge magnetic flow transmitter, loose shipped	2	√
CIP Pump discharge recirculation flow valve, loose shipped	2	√
Sodium hypochlorite cleaning chemical injection check valve, loose shipped	2	√
Sodium hypochlorite cleaning chemical injection automated isolation valve, loose shipped	2	√
Citric acid cleaning chemical injection check valve, loose shipped	2	√
Citric acid cleaning chemical injection automated isolation valve, loose shipped	2	√
Sulfuric acid cleaning chemical injection check valve, loose shipped	2	√
Sulfuric acid cleaning chemical injection automated isolation valve, loose shipped	2	√
Sodium bisulfite neutralization chemical injection check valve, loose shipped	2	√
Sodium bisulfite neutralization chemical injection automated isolation valve, loose shipped	2	√
Sodium hydroxide neutralization chemical injection check valve, loose shipped	2	√
Sodium hydroxide neutralization chemical injection automated isolation valve, loose shipped	2	√
CIP Pump discharge to UF Trains, loose shipped	1	√
Neutralized Solution discharge to waste flow valve, loose shipped	1	√
Common CIP/neutralization solenoid rack in NEMA 4 box, loose shipped	1	√
Installation of equipment	-	√
Associated interconnecting piping	-	√

Coagulant Chemical Duplex Pump Skid	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
PACI Dosing Pump HDPE Skid	1		√	
Inlet Hand Isolation Valve		2	√	
In-line Wye strainer		2	√	
Solenoid Dosing Pumps		2	√	
Solenoid Dosing Pump sample valves		2	√	
Inlet to calibration column hand isolation valve		2	√	
Calibration Column		2	√	
Isolation Valves		5	√	
Drain Valves		3	√	
Pressure Relief Valves		2	√	
Pulsation Dampener		2	√	
Pressure Gauge with diaphragm seal		2	√	
Pressure Switch High with diaphragm seal		2	√	
Backpressure valve		2	√	
Associated chemical panel piping constructed of PVC sch 80		-	√	
Chemical Storage Basins		-		√
Chemical		-		√
Installation of skid, if applicable to contractor design		-		√
Installation of loose shipped equipment		-		√
Associated off-skid piping		-		√

Sodium Hypochlorite Membrane Cleaning Duplex Pump Skid	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Sodium Hypochlorite Dosing Pump HDPE Skid	1		√	
Inlet Hand Isolation Valve		2	√	
In-line Wye strainer		2	√	
Solenoid Dosing Pumps		2	√	
Solenoid Dosing Pump sample valves		2	√	
Inlet to calibration column hand isolation valve		2	√	
Calibration Column		2	√	
Isolation Valves		5	√	
Drain Valves		3	√	
Pressure Relief Valves		2	√	
Pulsation Dampener		2	√	
Pressure Switch High with diaphragm seal		2	√	
Pressure Gauge with diaphragm seal		2	√	

Associated chemical panel piping constructed of PVC sch 80	-	√
Chemical Storage Basins	-	√
Chemical	-	√
Installation of skid, if applicable to contractor design	-	√
Installation of loose shipped equipment	-	√
Associated off-skid piping	-	√

Citric Acid Membrane Cleaning Duplex Pump Skid	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Citric Acid Dosing Pump HDPE Skid	1		√	
Inlet Hand Isolation Valve		2	√	
In-line Wye strainer		2	√	
Solenoid Dosing Pumps		2	√	
Solenoid Dosing Pump sample valves		2	√	
Inlet to calibration column hand isolation valve		2	√	
Calibration Column		2	√	
Isolation Valves		5	√	
Drain Valves		3	√	
Pressure Relief Valves		2	√	
Pulsation Dampener		2	√	
Pressure Gauge with diaphragm seal		2	√	
Pressure Switch High with diaphragm seal		2	√	
Associated chemical panel piping constructed of PVC sch 80	-		√	
Chemical Storage Basins	-			√
Chemical	-			√
Installation of skid, if applicable to contractor design	-			√
Installation of loose shipped equipment	-			√
Associated off-skid piping	-			√

Sulfuric Acid Membrane Cleaning Duplex Pump Skid	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Sulfuric Acid Dosing Pump HDPE Skid	1		√	
Inlet Hand Isolation Valve		2	√	
In-line Wye strainer		2	√	
Solenoid Dosing Pumps		2	√	
Solenoid Dosing Pump sample valves		2	√	
Inlet to calibration column hand isolation valve		2	√	
Calibration Column		2	√	

Isolation Valves	5	√
Drain Valves	3	√
Pressure Relief Valves	2	√
Pulsation Dampener	2	√
Pressure Gauge with diaphragm seal	2	√
Pressure Switch High with diaphragm seal	2	√
Associated chemical panel piping constructed of PVC sch 80	-	√
Chemical Storage Basins	-	√
Chemical	-	√
Installation of skid, if applicable to contractor design	-	√
Installation of loose shipped equipment	-	√
Associated off-skid piping	-	√

Sodium Bisulfite Neutralization Chemical Duplex Pump Skid	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Sodium Bisulfite Dosing Pump HDPE Skid	1		√	
Inlet Hand Isolation Valve		2	√	
In-line Wye strainer		2	√	
Solenoid Dosing Pumps		2	√	
Solenoid Dosing Pump sample valves		2	√	
Inlet to calibration column hand isolation valve		2	√	
Calibration Column		2	√	
Isolation Valves		5	√	
Drain Valves		3	√	
Pressure Relief Valves		2	√	
Pulsation Dampener		2	√	
Pressure Gauge with diaphragm seal		2	√	
Pressure Switch High with diaphragm seal		2	√	
Associated chemical panel piping constructed of PVC sch 80		-	√	
Chemical Storage Basins		-		√
Chemical		-		√
Installation of skid, if applicable to contractor design		-		√
Installation of loose shipped equipment		-		√
Associated off-skid piping		-		√

Sodium Hydroxide Neutralization Chemical Duplex Pump Skid	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Sodium Hydroxide Dosing Pump HDPE Skid	1		√	
Inlet Hand Isolation Valve		2	√	
In-line Wye strainer		2	√	
Solenoid Dosing Pumps		2	√	
Solenoid Dosing Pump sample valves		2	√	
Inlet to calibration column hand isolation valve		2	√	
Calibration Column		2	√	
Isolation Valves		5	√	
Drain Valves		3	√	
Pressure Relief Valves		2	√	
Pulsation Dampener		2	√	
Pressure Gauge with diaphragm seal		2	√	
Pressure Switch High with diaphragm seal		2	√	
Associated chemical panel piping constructed of PVC sch 80		-	√	
Chemical Storage Basins		-		√
Chemical		-		√
Installation of skid, if applicable to contractor design		-		√
Installation of loose shipped equipment		-		√
Associated off-skid piping		-		√

Sodium Hypochlorite For Combined Filtrate Duplex Pump Skid	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Sodium Hypochlorite Dosing Pump HDPE Skid	1		√	
Inlet Hand Isolation Valve		2	√	
In-line Wye strainer		2	√	
Peristaltic Dosing Pumps		2	√	
Peristaltic Dosing Pump VFDs		2	√	
Peristaltic Dosing Pump sample valves		2	√	
Inlet to calibration column hand isolation valve		2	√	
Calibration Column		2	√	
Isolation Valves		5	√	
Drain Valves		3	√	
Pressure Relief Valves		2	√	
Pulsation Dampener		2	√	
Pressure Gauge with diaphragm seal		2	√	
Pressure Switch High with diaphragm seal		2	√	

Associated chemical panel piping constructed of PVC sch 80	-	√
Chemical Storage Basins	-	√
Chemical	-	√
Installation of skid, if applicable to contractor design	-	√
Installation of loose shipped equipment	-	√
Associated off-skid piping	-	√

Sodium Hypochlorite For Finished Water Duplex Pump Skid	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Sodium Hypochlorite Dosing Pump HDPE Skid	1		√	
Inlet Hand Isolation Valve		2	√	
In-line Wye strainer		2	√	
Peristaltic Dosing Pumps		2	√	
Peristaltic Dosing Pump VFDs		2	√	
Peristaltic Dosing Pump sample valves		2	√	
Inlet to calibration column hand isolation valve		2	√	
Calibration Column		2	√	
Isolation Valves		5	√	
Drain Valves		3	√	
Pressure Relief Valves		2	√	
Pulsation Dampener		2	√	
Pressure Gauge with diaphragm seal		2	√	
Pressure Switch High with diaphragm seal		2	√	
Associated chemical panel piping constructed of PVC sch 80		-	√	
Chemical Storage Basins		-		√
Chemical		-		√
Installation of skid, if applicable to contractor design		-		√
Installation of loose shipped equipment		-		√
Associated off-skid piping		-		√

Sodium Hydroxide for Post-Chlorine Contact Basin Duplex Pump Skid	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Sodium Hydroxide Dosing Pump HDPE Skid	1		√	
Inlet Hand Isolation Valve		2	√	
In-line Wye strainer		2	√	
Peristaltic Dosing Pumps		2	√	
Peristaltic Dosing Pump VFDs		2	√	
Peristaltic Dosing Pump sample valves		2	√	

Inlet to calibration column hand isolation valve	2	√
Calibration Column	2	√
Isolation Valves	5	√
Drain Valves	3	√
Pressure Relief Valves	2	√
Pulsation Dampener	2	√
Pressure Gauge with diaphragm seal	2	√
Pressure Switch High with diaphragm seal	2	√
Associated chemical panel piping constructed of PVC sch 80	-	√
Chemical Storage Basins	-	√
Chemical	-	√
Installation of skid, if applicable to contractor design	-	√
Installation of loose shipped equipment	-	√
Associated off-skid piping	-	√

2nd Stage UF Feed Pumps P-14030-C01-0920	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Skids/Frames	N/A	N/A		
2 nd Stage Submersible Feed Pumps c/w motors, loose shipped		2	√	
2 nd Stage Submersible Feed Pump VFDs		2		√
Submersible 2 nd Stage Feed Pump Discharge Check Valve, loose shipped		2	√	
Submersible 2 nd Stage Feed Pump Discharge Hand Isolation Valve, loose shipped		2	√	
Submersible 2 nd Stage Feed Pump Discharge Pressure Gauge c/w isolation valve, loose shipped		2	√	
Submersible 2 nd Stage Feed Pump Air Release Valve, loose shipped		2	√	
Common discharge pressure transmitter, loose shipped		1	√	
Common discharge magnetic flow transmitter, loose shipped		1	√	
Common discharge sample valve, loose shipped		1	√	
Common discharge high range turbidimeter, loose shipped		1	√	
Ultrasonic Level Transmitter, loose shipped		1	√	
Level Switches (high, low), loose shipped		2	√	
Below-grade Concrete Basin		1		√

Installation of equipment	-	√
Associated interconnecting piping	-	√

Instrument & MIT Air P-13049-C01-950	Quantity of Skids	Quantity of Equipment Per Skid	By H ₂ O	By Contractor
Air Compressor, loose shipped		2	√	
1" Discharge Air Compressor Check Valve, loose shipped		2	√	
1" Discharge Air Compressor Hand Isolation Valve, loose shipped		2	√	
Pressure Relief Valve, loose shipped		2	√	
Air Receiver Tank Inlet Hand Valve, loose shipped		2	√	
1,500 L Receiver Tank with pressure relief valve and local GFCI receptacle drain valve, loose shipped		2	√	
Air Receiver Tank Discharge Hand Valve, loose shipped		2	√	
Coalescing Filter Inlet Hand Valve, loose shipped		2	√	
Coalescing Filter, loose shipped		2	√	
Coalescing Filter Discharge Hand Valve, loose shipped		2	√	
Desiccant Air Dryer (Instrument air)		1	√	
Air Dryers Inlet Isolation Valve, loose shipped		2	√	
Air Dryer, loose shipped		2	√	
Air Dryers Discharge Isolation Valve, loose shipped		2	√	
Instrument Air Pressure Gauge c/w isolation valve, loose shipped		1	√	
Instrument Air Pressure Control Valve, loose shipped		1	√	
Instrument Air Pressure Relief Valve, loose shipped		1	√	
Instrument Air Pressure Transmitter, loose shipped		1	√	
MIT Air Oil Filter, loose shipped		1	√	
MIT Air Oil Filter Hand Isolation Valve, loose shipped		2	√	
MIT Air Pressure Gauge c/w isolation valve, loose shipped		1	√	
MIT Air Pressure Regulating Valve, loose shipped		1	√	
MIT Air Pressure Discharge Isolation Valves, loose shipped		1	√	
MIT Air Pressure Relief Valve, loose shipped		1	√	
Installation of equipment		-		√
Associated interconnecting piping		-		√

Additional Equipment	Quantity of Equipment	By H ₂ O	By Contractor
Installation of equipment	-		√
Supply of chemicals	-		√
Associated interconnecting piping between loose shipped equipment and inlets/common connections to membrane valve skids ¹	-		√
Supply of all other common filtrate equipment	-		√
Installation of equipment	-		√

Note:

¹ H2O Innovation will supply the spool pieces between the membrane valve skid and its designated membrane rack, but will not supply interconnecting piping between different trains or anything beyond the flange connections on the valve skids.

In addition to the equipment provided on the P&IDs, we are also providing the following:

Electrical System	Quantity of Equipment	By H ₂ O	By Contractor
NEMA 4X Main Control Panel with ControlLogix PLC, loose shipped	1	√	
NEMA 4X UF 1 st Stage Feed Pumps Remote I/O Panel, loose shipped	1	√	
NEMA 4X UF Train Remote I/O Panel (mounted on each UF train valve skid)	5	√	
NEMA 4X UF 2 nd Stage Feed Pumps Remote I/O Panel, loose shipped	1	√	
NEMA 4X UF Backwash System Remote I/O Panel, loose shipped	1	√	
NEMA 4X UF CIP System Remote I/O Panel, loose shipped	1	√	
NEMA 4X UF Blower/Air Compressor Remote I/O Panel, loose shipped	1	√	
Installation of MCP and remote I/O panels that are not frame mounted	-		√

General	By H ₂ O	By Contractor
One (1) Custom Made Module Removal Device	√	
Operation and Maintenance Manuals	√	
Commissioning start-up, support assistance, and operator training (see Section 4.8)	√	

The following visits to site for the following people:

- Project manager to visit site for one (1) day, 7 days after notice of award
- Project manager, mechanical engineer, and field service representative (note that field service representative visit to site is listed in Section 4.8) for two (2) days for project kick-off meeting
- Project Manager, Mechanical Engineer, and Electrical Engineer for two (2) days for Engineer's 30% design submittal
- Project Manager and Process Engineer for two (2) days for Engineer's 60% design submittal
- Project Manager, Mechanical Engineer, and Electrical Engineer for two (2) days during Engineer's 90% design submittal

Note: The designated persons per trip can be adjusted as desired, provided the total number of trips and persons remains the same.

Spare Parts (see Section 4.12)	√
Shipping DDP from Ham-Nord, QC to site	√

4
3
2
1

VALVE SYMBOLS

N.OPEN N.CLOSED

FLOWMETER SYMBOLS

PIPING ABBREVIATIONS

316 SS 316 STAINLESS STEEL
 304 SS 304 STAINLESS STEEL
 316L SS LOW CARBON 316 STAINLESS STEEL
 304L SS LOW CARBON 304 STAINLESS STEEL
 CPVC CHLORINATED POLYVINYL CHLORIDE
 CS CARBON STEEL
 DI DUCTILE IRON
 HDPE HIGH-DENSITY POLYETHYLENE
 PE POLYETHYLENE
 PVC POLYVINYL CHLORIDE
 RLCS RUBBER LINED CARBON STEEL
 SCH. SCHEDULE
 SDR STANDARD DIMENSION RATIO

MISCELLANEOUS EQUIPMENT SYMBOLS

FLOW INSTRUMENTS

FAH FLOW ALARM HIGH
 FAL FLOW ALARM LOW
 FCV FLOW CONTROL VALVE
 FE FLOW ELEMENT
 FI FLOW INDICATOR
 FIC FLOW INDICATING CONTROLLER
 FIT FLOW INDICATING TRANSMITTER
 FR FLOW RECORDING
 FSH FLOW SWITCH HIGH
 FSL FLOW SWITCH LOW
 FV FLOW CONTROL OR ON/OFF VALVE
 FQ FLOW TOTALIZER
 FY FLOW SIGNAL CONVERT, I/P, OR SOLN

PRESSURE INSTRUMENTS

PAH PRESSURE ALARM HIGH
 PAL PRESSURE ALARM LOW
 PC PRESSURE CONTROLLER
 PCV SELF REG PRESS CONTROL VALVE
 PDH DIFFERENTIAL PRESSURE HIGH
 PDI DIFFERENTIAL PRESSURE INDICATOR
 PDIT DIFF PRESS INDICATING TRANSMITTER
 PDSH DIFFERENTIAL PRESS SWITCH HIGH
 PG PRESSURE GAUGE
 PI PRESSURE INDICATOR
 PIC PRESSURE INDICATING CONTROLLER
 PSH PRESSURE SWITCH HIGH
 PSL PRESSURE SWITCH LOW
 PSV SELF REG PRESS SAFETY VALVE
 PT PRESSURE TRANSMITTER
 PY PRESS SIGNAL CONVERT, I/P, OR SOLN
 PSLH PRESSURE SWITCH LOW HIGH

LEVEL INSTRUMENTS

LAH LEVEL ALARM HIGH
 LAL LEVEL ALARM LOW
 LCV SELF REG LEVEL CONTROL VALVE
 LE LEVEL ELEMENT
 LG LEVEL GAUGE
 LI LEVEL INDICATOR
 LIC LEVEL INDICATING CONTROLLER
 LIT LEVEL INDICATING TRANSMITTER
 LSH LEVEL SWITCH HIGH
 LSL LEVEL SWITCH LOW
 LT LEVEL TRANSMITTER
 LV LEVEL CONTROL OR ON/OFF VALVE
 LY LEVEL SIGNAL CONVERT, I/P, OR SOLN

TEMPERATURE INSTRUMENTS

TAH TEMPERATURE ALARM HIGH
 TAL TEMPERATURE ALARM LOW
 TC TEMPERATURE CONTROLLER
 TE TEMPERATURE ELEMENT
 TG TEMPERATURE GAUGE
 TI TEMPERATURE INDICATOR
 TIC TEMP INDICATING CONTROLLER
 TIT TEMP INDICATING TRANSMITTER
 TSH TEMPERATURE SWITCH HIGH
 TSL TEMPERATURE SWITCH LOW
 TT TEMPERATURE TRANSMITTER
 TV TEMP CONTROL OR ON/OFF VALVE
 TY TEMP SIGNAL CONVERT, I/P, OR SOLN

ELECTRICAL ABBREVIATIONS

JB JUNCTION BOX
 MCP MAIN CONTROL PANEL
 RIO REMOTE I/O PANEL
 PP POWER PANEL
 VFD VARIABLE FREQUENCY DRIVE
 HOA HAND-OFF-AUTO

ANALYTICAL INSTRUMENTS

AAH ANALYTICAL ALARM HIGH
 AAL ANALYTICAL ALARM LOW
 AE ANALYTICAL ELEMENT
 AI ANALYTICAL INDICATOR
 AIC ANAL INDICATING CONTROLLER
 AIT ANAL INDICATING TRANSMITTER
 ASH ANALYTICAL SWITCH HIGH
 ASL ANALYTICAL SWITCH LOW
 AT ANALYTICAL TRANSMITTER
 AY ANALYTICAL SIGNAL CONVERT, I/P, OR SOLN

MISCELLANEOUS INSTRUMENTS

HS HAND SWITCH
 HI HAND SWITCH POSITION INDICATOR
 II CURRENT INDICATOR
 QQI TOTALIZER INDICATOR
 SC SPEED CONTROLLER
 SI SPEED INDICATOR
 YA MOTOR ALARM
 YC MOTOR CONTROL
 YI MOTOR ON/OFF INDICATOR
 ZI POSITION INDICATOR
 ZIC SWITCH CLOSE INDICATOR
 ZIO SWITCH OPEN INDICATOR
 ZSC POSITION SWITCH CLOSED
 ZSO POSITION SWITCH OPEN
 ZT POSITION TRANSMITTER
 ZY POSITIONER

VALVES & EQUIPMENT

AC AIR COMPRESSOR
 ARV AIR RELEASE VALVE
 AS AIR SUPPLY
 B BLOWER
 BT BULK TOTE
 CBD COARSE BUBBLE DIFFUSER
 CV CHECK VALVE
 ED EDUCTOR
 F FILTER
 FBD FINE BUBBLE DIFFUSER
 FL FAIL LAST (DEFAULT IF NOT SHOWN)
 FC FAIL CLOSED
 FO FAIL OPEN
 FQG CALIBRATION COLUMN
 H HEATER
 HCV HAND CONTROL VALVE
 HTR HEATER
 HV HAND VALVE
 M MOTOR
 MX MIXER
 P PUMP
 RT RESIN TRAP
 ST SPILL TANK
 STR STRAINER
 T TANK
 UV ULTRAVIOLET
 HV HAND VALVE
 MV MULTI FUNCTION VALVE

OTHER ABBREVIATIONS

CAP CAPACITANCE
 CIP CLEAN-IN-PLACE
 COND CONDUCTIVITY
 DO₂ DISSOLVED OXYGEN
 ESP EMERGENCY STOP
 IA INSTRUMENT AIR
 I/P CURRENT TO PNEUMATIC CONVERTER
 ORP OXIDATION REDUCTION POTENTIAL
 pH HYDROGEN ION
 RES RESISTIVITY
 RTD RESISTANCE TEMP DETECTOR
 SOL SOLENOID
 SP SET POINT
 uS MICROSIEMENS

LINE SYMBOLOGY

— MAIN PROCESS LINE
 - - - SECONDARY PROCESS LINE
 - - - PROCESS LINE, BY OTHERS
 ○ - ○ COMM LINK (EX. PLC TO HMI)
 ● - ● COMM LINK (EX. PLC TO DCS)
 - - - - - ELECTRIC WIRING
 - - - - - PNEUMATIC LINE
 —+— LINE JUMPER
 —+— PIPE DISCONTINUATION
 → FLOW DIRECTION ARROWS

4" 316 SS SCH.10 LINES SIZE/
 MATERIAL IDENTIFIER

SKID BOUNDARY
 NOT BY H₂O Innovation SKID BY H₂O Innovation

⚠ REVISION
 LINES TO/FROM OTHER SHEETS
 DESCRIPTION
 C01-0001 SHT 1
 DESTINATION

INSTRUMENTATION SYMBOLS

LOCALLY MOUNTED	IN CONTROL PANEL	DESCRIPTION
X nnnnn	X nnnnn	DISCRETE INSTRUMENT
X nnnnn	X nnnnn	PRIMARY PLC OR DCS SHARED CONTROL
X nnnnn	X nnnnn	SECONDARY PLC OR DCS SHARED CONTROL
X nnnnn	X nnnnn	COMPUTER FUNCTION

INSTRUMENT FUNCTIONS

[K] SIGNAL PROCESSING FUNCTION
 [A/M] AUTO/MANUAL
 [Σ] ADDITION/SUMMATION
 [Δ] DIFFERENTIAL
 [◇] INTERLOCK LOGIC FUNCTION
 [Σ/Δ] AVERAGING

INSTRUMENT CONNECTIONS

⌋ THREADED ⌋ SOCKETWELD ⌋ WELDED

PIPING CONNECTIONS & SYMBOLS

— — FLANGE	— — QUICK DISCONNECT HOSE/TUBE
— — THREADED CONNECTION	— — EXPANSION/FLEXIBLE/ISOLATION JOINT
— — UNION	— — GROOVED COUPLING
— — BLIND FLANGE	— — DOUBLE CONTAINMENT
— — CAPPED END	— — INSULATION THICKNESS
— — REDUCER	— — INSULATION
— — ECCENTRIC REDUCER	— — INSULATION THICKNESS
— — DRAIN OUTLET	— — HEAT TRACING E-ELECTRIC S-STEAM G=GLYCOL

PUMP SYMBOLS

4
3
2
1

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0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.

UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5

TOLERANCES:
 FRACTIONS: ±.0005
 DECIMALS: ±.0005
 ANGLES: ±.01°
 HOLE SIZES: ±.0005
 HOLE CENTERS: ±.0005

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ENGLISHMAN RIVER, BC

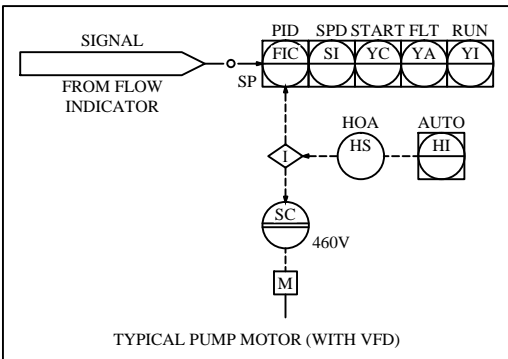
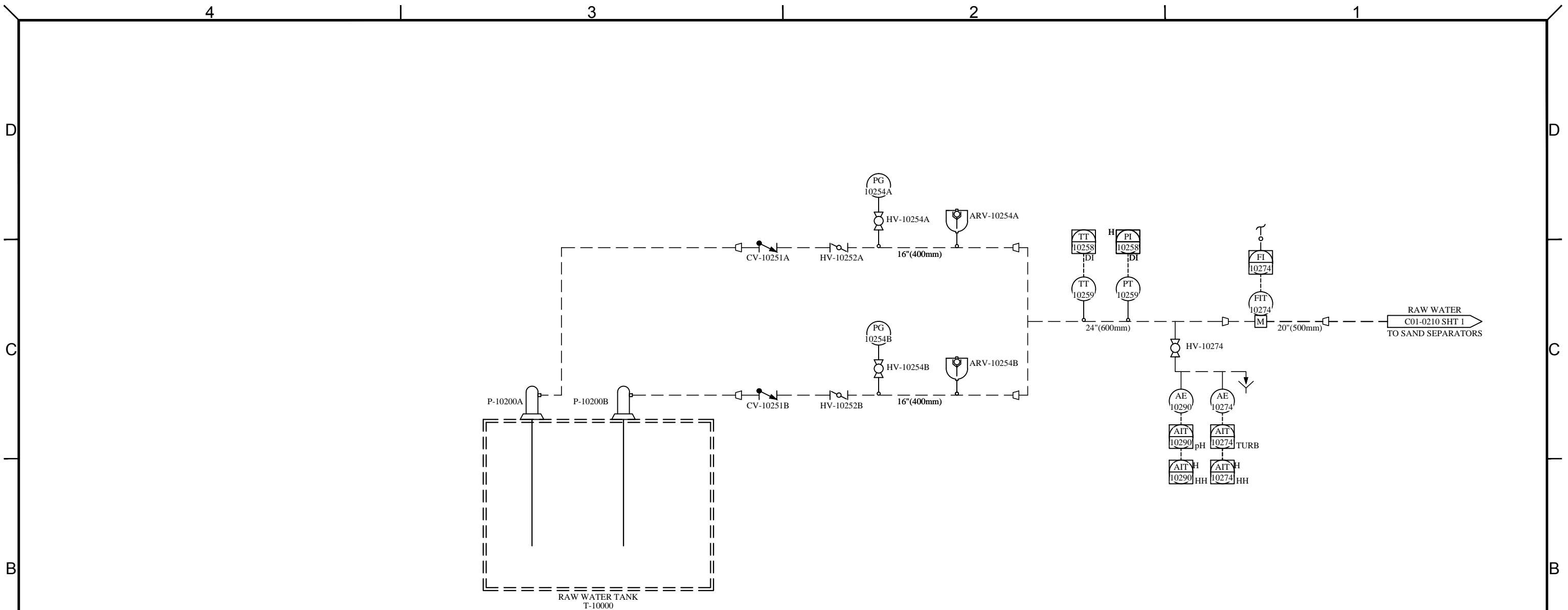
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SCALE: N/A

DRAWING NUMBER: P15105-C01.0001

REVISION: 0

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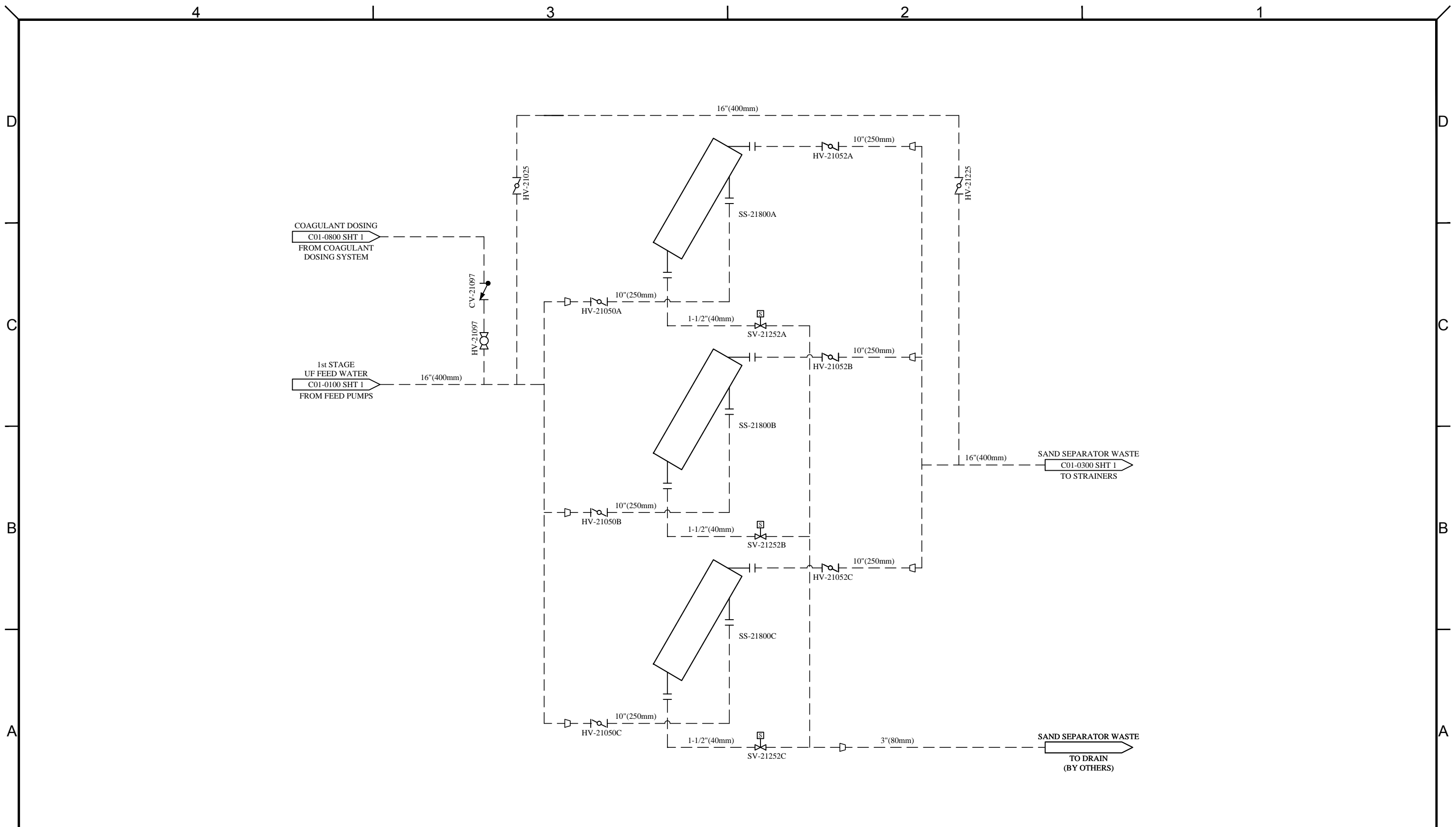
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0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5
 TOLERANCES:
 FRACTIONS: 1/16" ±0.005
 DECIMALS 0.XX: ±0.015
 0.XXX: ±0.015
 ANGLES: 16° ±0.5°
 HOLE SIZES: 1/8" ±0.005
 HOLE CENTERS: 1/8" ±0.005
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ENGLISHMAN RIVER, BC

TITLE: 1ST STAGE RAW WATER FEED PUMPS PROCESS <input type="checkbox"/> INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105 C01 0100	REVISION 0
SHEET: 1 of 1		



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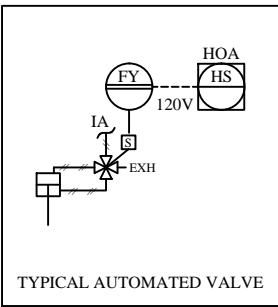
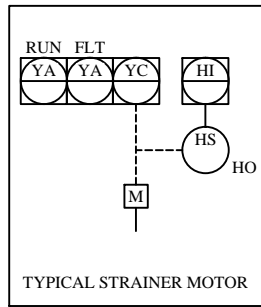
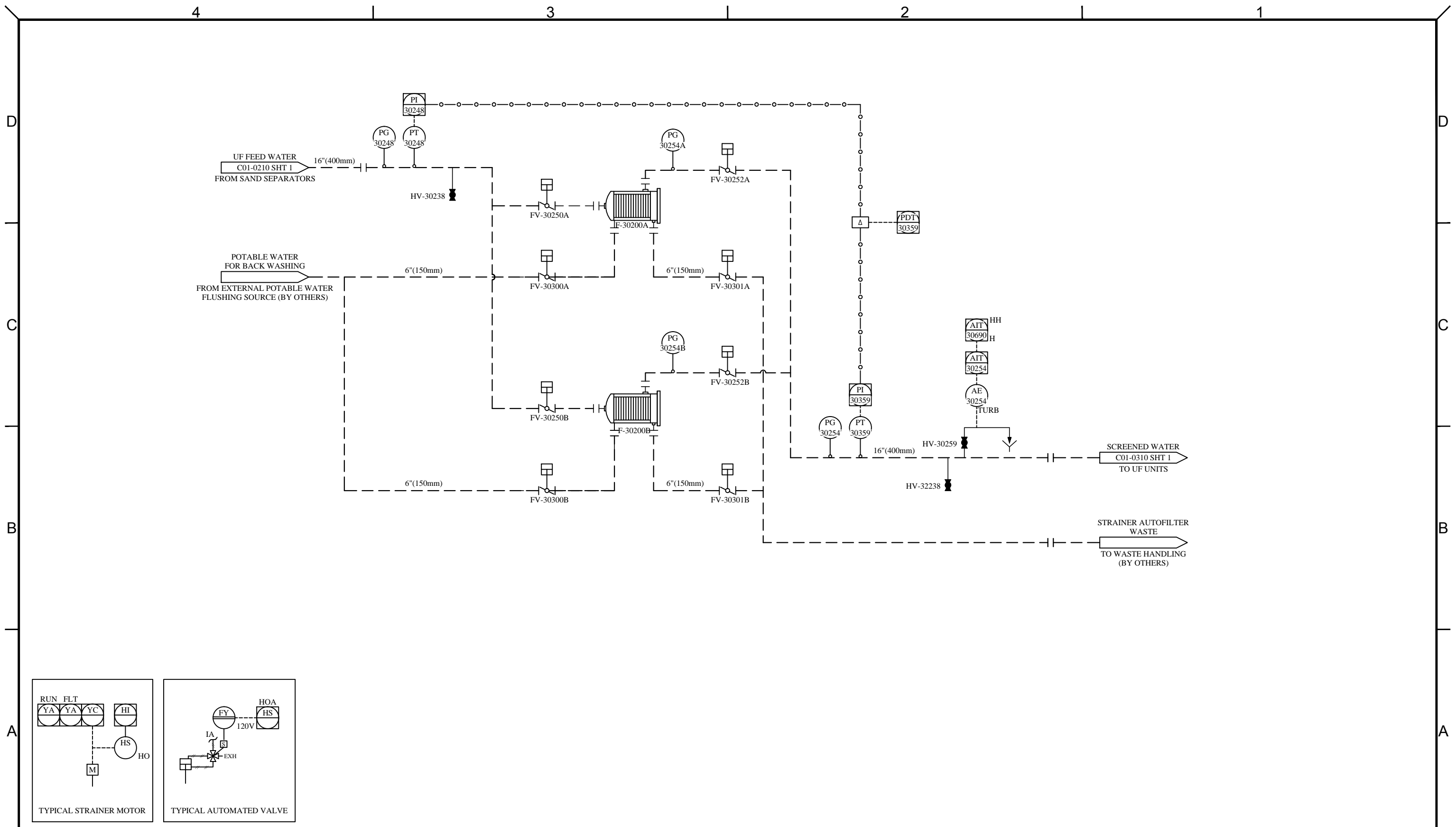
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0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5
 TOLERANCES: FRACTIONS: $\pm 1/16$
 DECIMALS: 0.005
 ANGLES: 0.0001
 HOLE SIZES: ± 0.0005
 HOLE CENTERS: ± 0.005
 DO NOT SCALE PRINTS

ENGLISHMAN RIVER, BC

TITLE: 1ST STAGE SAND SEPARATORS PROCESS INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105 C01 0210	REVISION 0
SHEET: 1 of 1		



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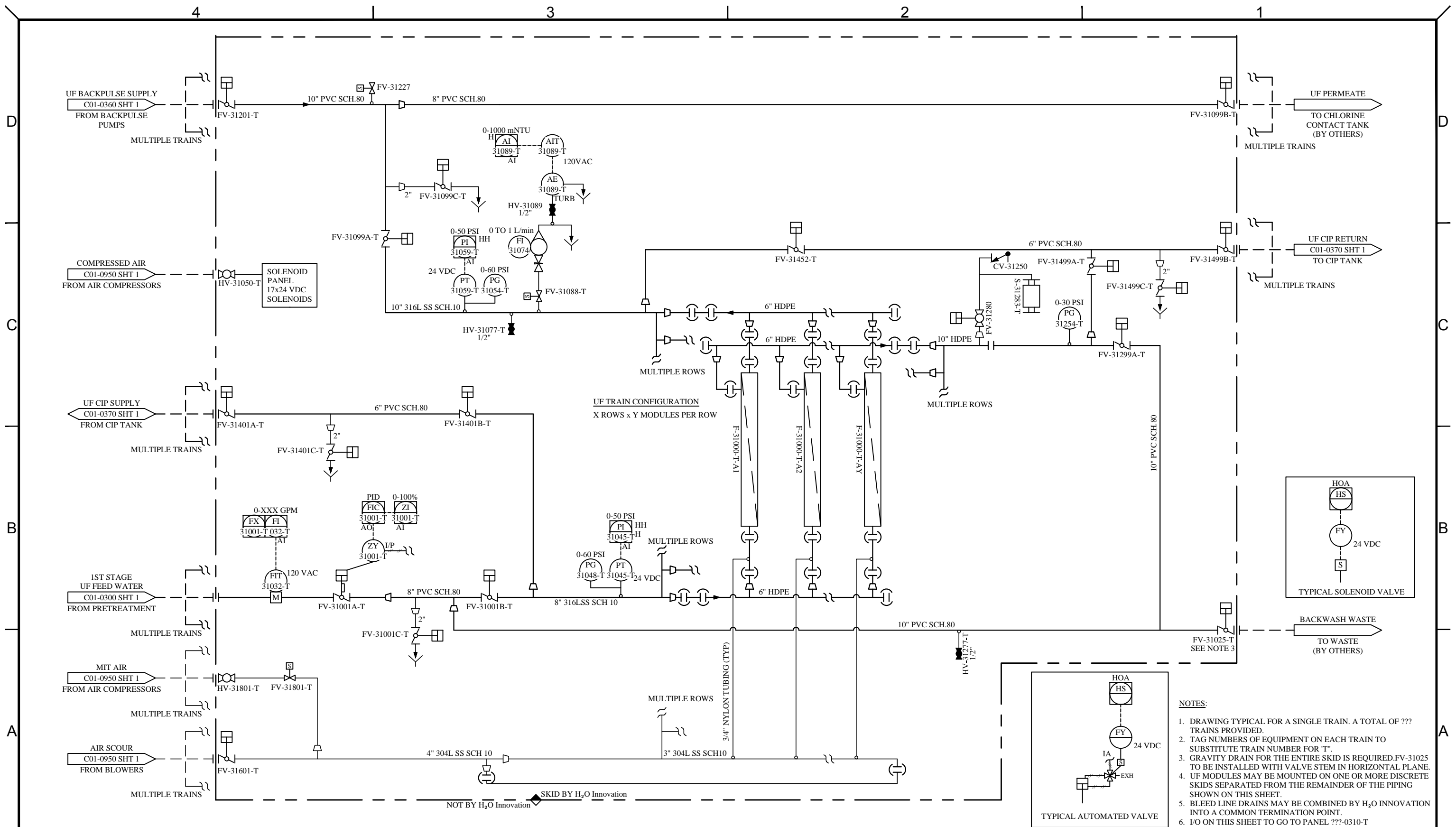
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0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5
 TOLERANCES:
 FRACTIONS: $\frac{1}{16}$
 DECIMALS: 0.000
 ANGLES: 0.000
 HOLE SIZES: $\frac{1}{16}$
 HOLE CENTERS: $\frac{1}{16}$
 DO NOT SCALE PRINTS

ENGLISHMAN RIVER, BC

TITLE: UF STRAINER STATION PROCESS INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105/C01/0300	REVISION 0
SHEET: 1		



- NOTES:**
1. DRAWING TYPICAL FOR A SINGLE TRAIN. A TOTAL OF ??? TRAINS PROVIDED.
 2. TAG NUMBERS OF EQUIPMENT ON EACH TRAIN TO SUBSTITUTE TRAIN NUMBER FOR "T".
 3. GRAVITY DRAIN FOR THE ENTIRE SKID IS REQUIRED. FV-31025 TO BE INSTALLED WITH VALVE STEM IN HORIZONTAL PLANE.
 4. UF MODULES MAY BE MOUNTED ON ONE OR MORE DISCRETE SKIDS SEPARATED FROM THE REMAINDER OF THE PIPING SHOWN ON THIS SHEET.
 5. BLEED LINE DRAINS MAY BE COMBINED BY H₂O INNOVATION INTO A COMMON TERMINATION POINT.
 6. I/O ON THIS SHEET TO GO TO PANEL ???-0310-T

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UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5

TOLERANCES:
 FRACTIONS: 1/4" ± 0.005
 DECIMALS 0.XX: ± 0.005
 0.XXX: ± 0.015
 ANGLES: 90° ± 30'
 HOLE SIZES: 1/4" ± 0.005
 HOLE CENTERS: ± 0.015

DO NOT SCALE PRINTS

ENGLISHMAN RIVER, BC

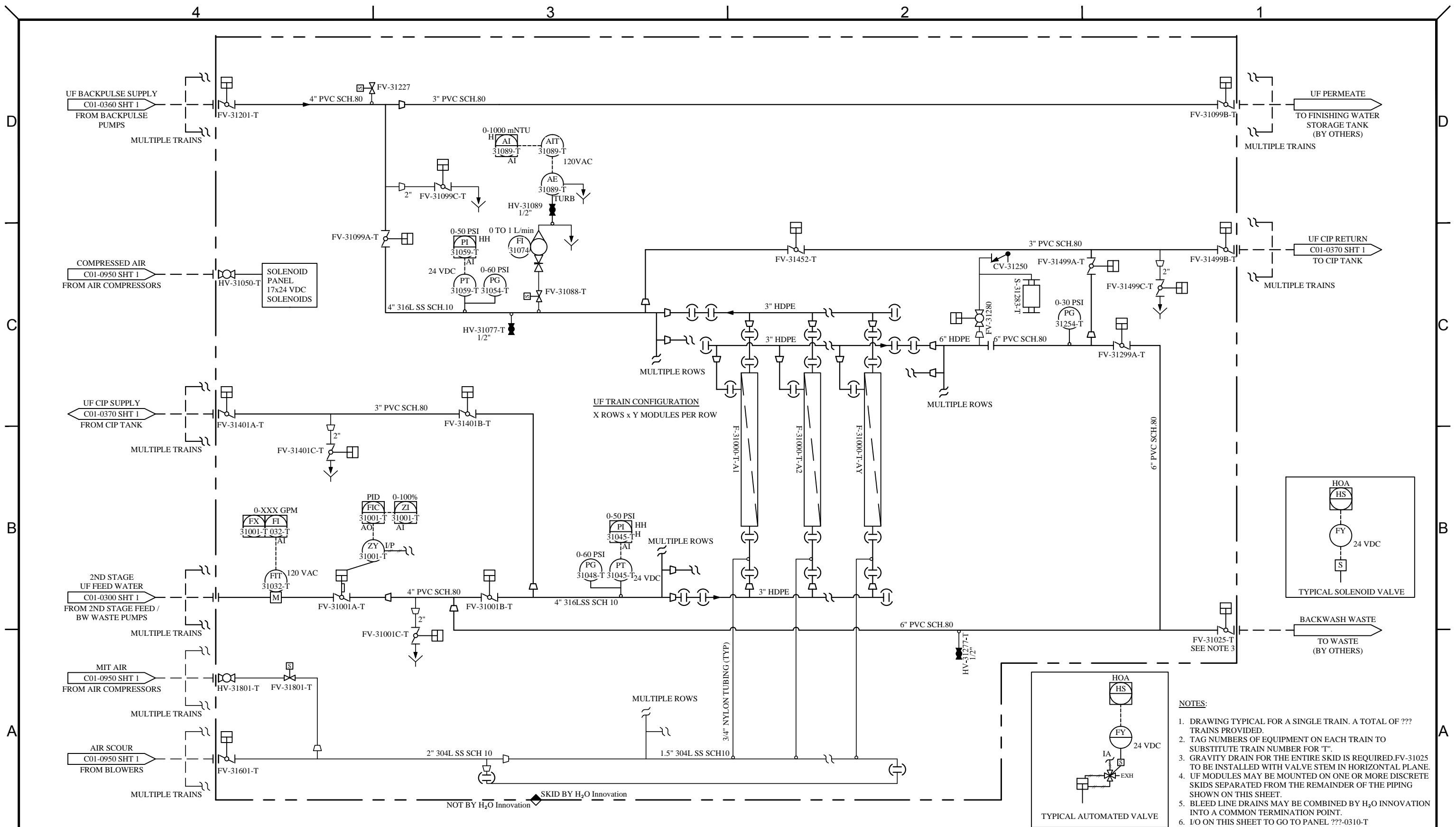
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1ST STAGE ULTRA FILTRATION TRAIN WITH BLOCK BLEED PROCESS INSTRUMENTATION DIAGRAM

SCALE: N/A

DRAWING NUMBER: P15105:C01:0310

REVISION: 0

SHEET: 1



- NOTES:**
1. DRAWING TYPICAL FOR A SINGLE TRAIN. A TOTAL OF ??? TRAINS PROVIDED.
 2. TAG NUMBERS OF EQUIPMENT ON EACH TRAIN TO SUBSTITUTE TRAIN NUMBER FOR "T".
 3. GRAVITY DRAIN FOR THE ENTIRE SKID IS REQUIRED. FV-31025 TO BE INSTALLED WITH VALVE STEM IN HORIZONTAL PLANE.
 4. UF MODULES MAY BE MOUNTED ON ONE OR MORE DISCRETE SKIDS SEPARATED FROM THE REMAINDER OF THE PIPING SHOWN ON THIS SHEET.
 5. BLEED LINE DRAINS MAY BE COMBINED BY H₂O INNOVATION INTO A COMMON TERMINATION POINT.
 6. I/O ON THIS SHEET TO GO TO PANEL ???-0310-T

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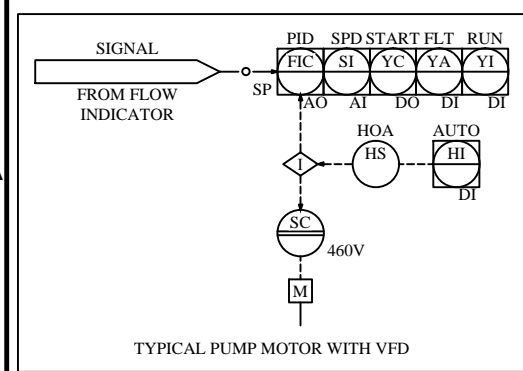
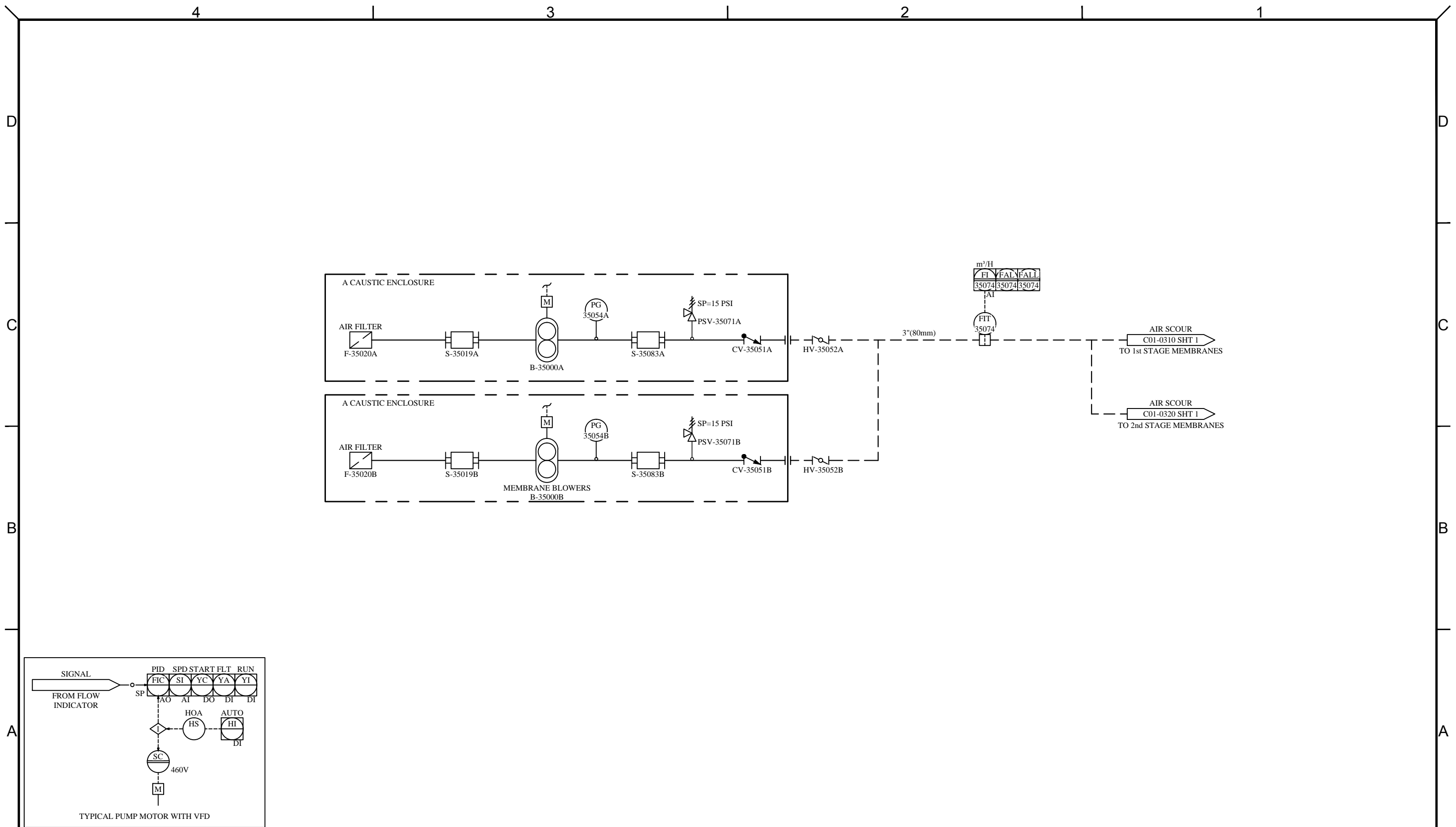
UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5

TOLERANCES:
 FRACTIONS: 1/16" ± 0.0030
 DECIMALS: 0.00 ± 0.0015
 ANGLES: 90° ± 0.015
 HOLE SIZES: 1/8" ± 0.0030
 HOLE CENTERS: 1/8" ± 0.0030

DO NOT SCALE PRINTS

ENGLISHMAN RIVER, BC

TITLE: 2ND STAGE ULTRA FILTRATION TRAIN WITH BLOCK □ BLEED PROCESS □ INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105:C01.0320	REVISION: 0
SHEET: 1		



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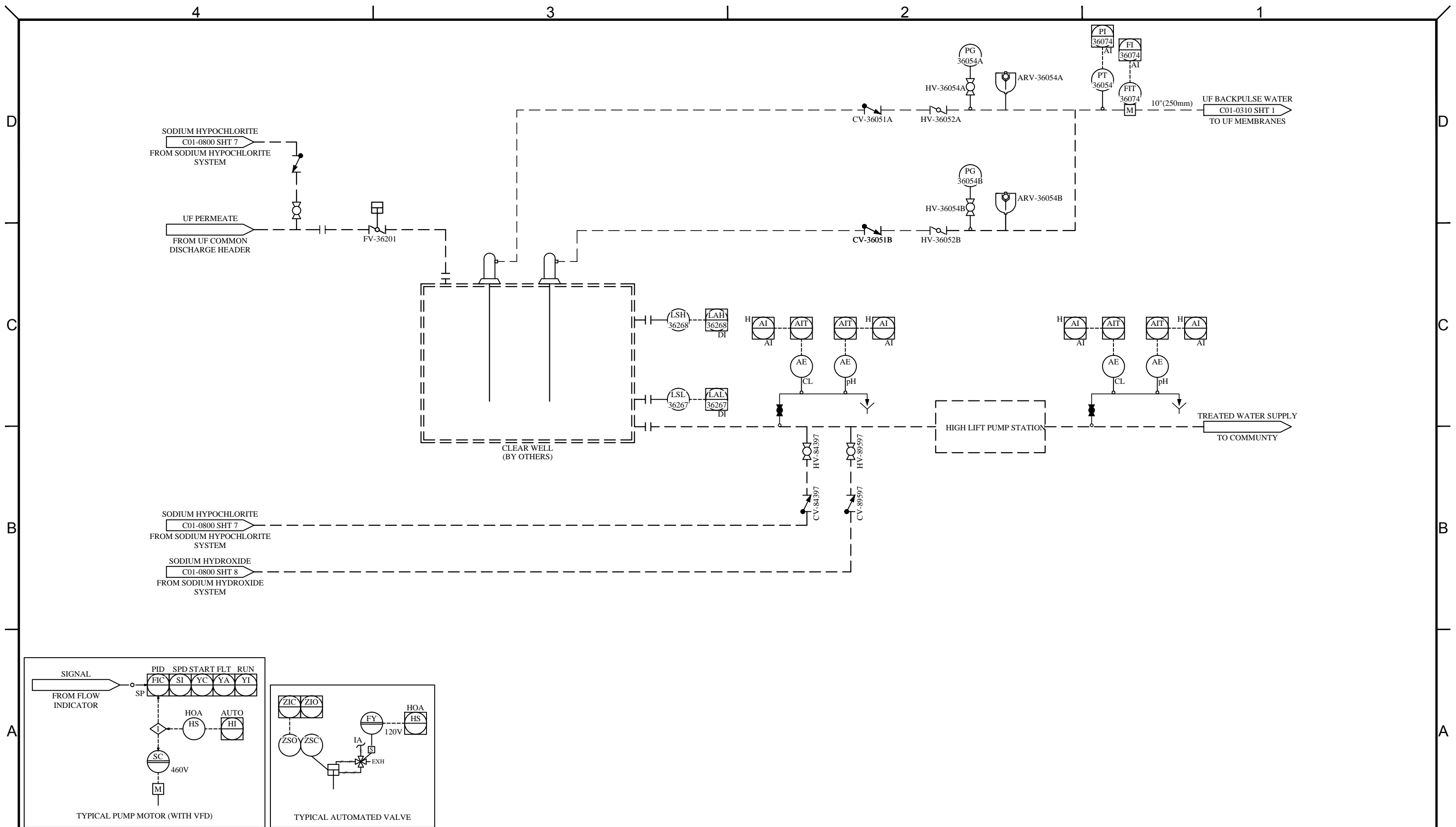
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0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5
 TOLERANCES:
 FRACTIONS: 1/16" - 3/16"
 DECIMALS: 0.001" - 0.010"
 ANGLES: 0.001" - 0.010"
 HOLE SIZES: 1/16" - 3/16"
 HOLE CENTERS: 1/16" - 3/16"
 DO NOT SCALE PRINTS

ENGLISHMAN RIVER, BC

TITLE: MEMBRANE BLOWERS PROCESS INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105/C01.0350	REVISION 0
SHEET: 1 of 1		



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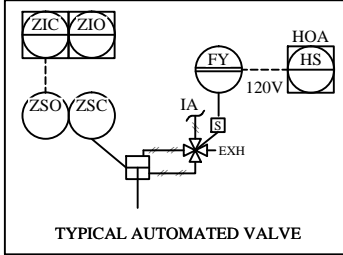
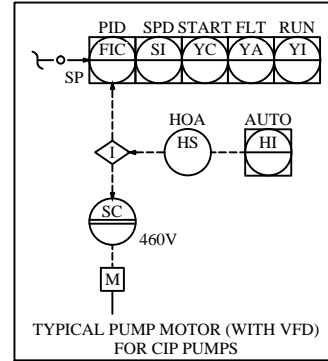
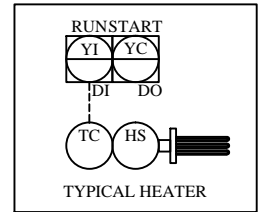
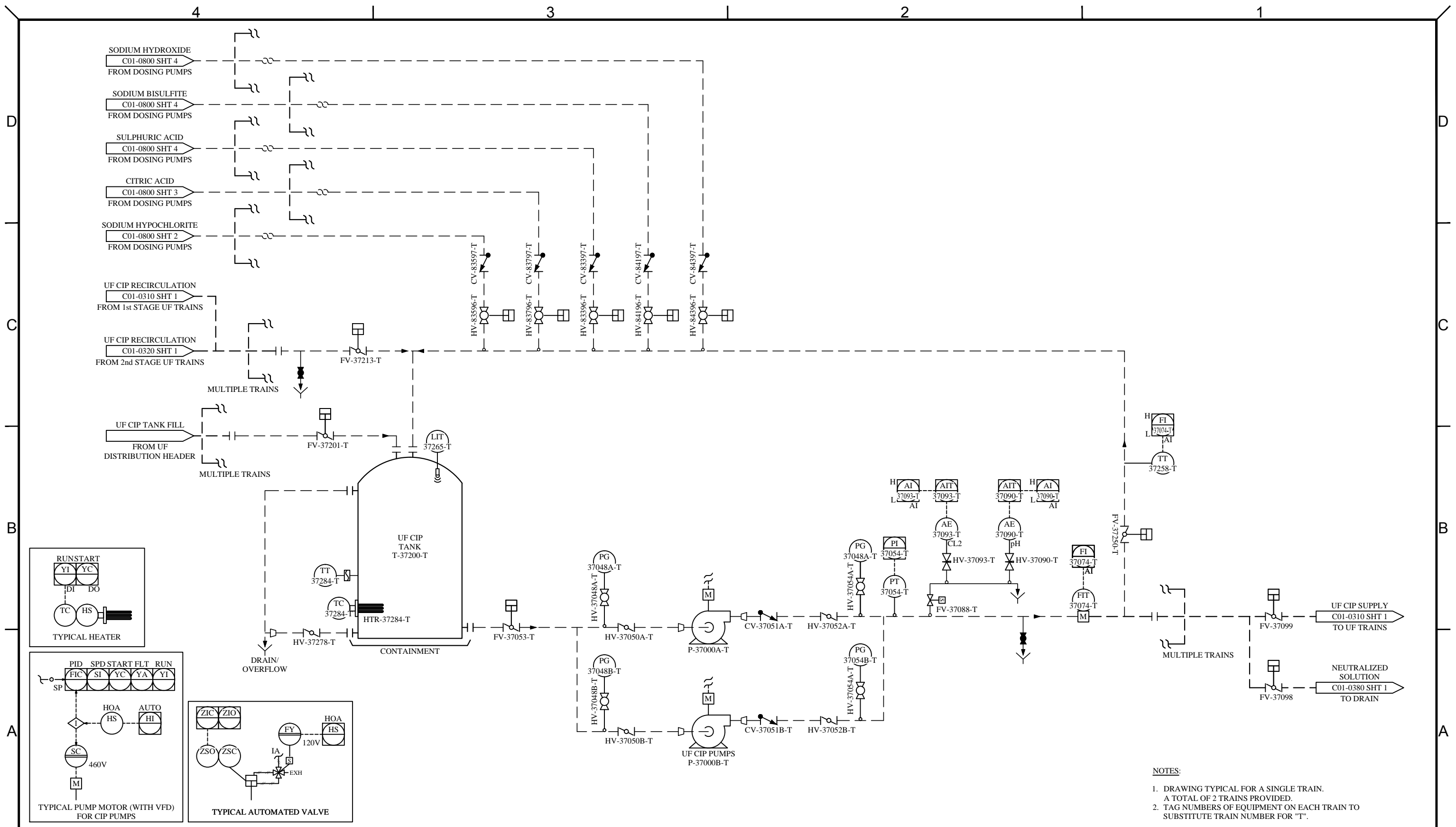
DRAWING REVISION						
REV	DATE	REVISION DESCRIPTION	DRAWN	CHKD	ENG	APPVD
0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5
 TOLERANCES:
 FRACTIONS: $\pm 1/16$
 DECIMALS: 0.005
 ANGLES: 0.015
 HOLE SIZES: ± 0.001
 HOLE CENTERS: ± 0.005
 DO NOT SCALE PRINTS

ENGLISHMAN RIVER, BC

TITLE: UF BACKPULSE SYSTEM PROCESS INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105/C01/0360	REVISION 0
SHEET: 1		



- NOTES:
1. DRAWING TYPICAL FOR A SINGLE TRAIN. A TOTAL OF 2 TRAINS PROVIDED.
 2. TAG NUMBERS OF EQUIPMENT ON EACH TRAIN TO SUBSTITUTE TRAIN NUMBER FOR "T".

NOTE:
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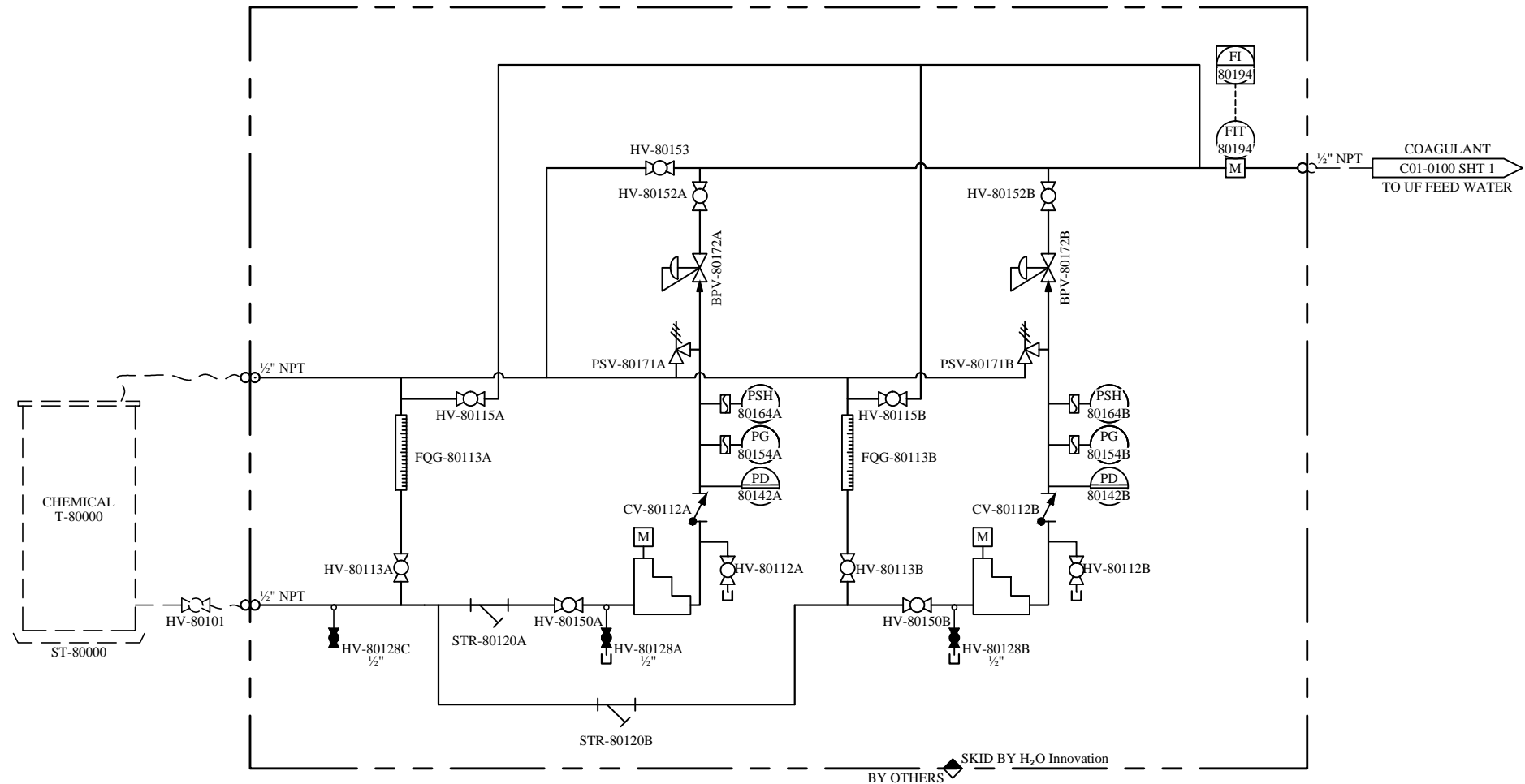
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REV	DATE	REVISION DESCRIPTION	DRAWN	CHKD	ENG	APPVD
0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5
 TOLERANCES: FRACTIONS: 1/16" - 3/16" AS SHOWN
 DECIMALS: 0.001 - 0.010 AS SHOWN
 ANGLES: 30°, 45°, 60°, 90°, 120°, 150°, 180° AS SHOWN
 HOLE SIZES: 1/16" - 1/2" AS SHOWN
 HOLE CENTERS: 1/16" - 1/2" AS SHOWN
 DO NOT SCALE PRINTS

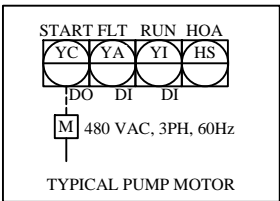
ENGLISHMAN RIVER, BC

TITLE: UF CIP SYSTEM W/ VFD CONTROLLED PUMP PROCESS INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105/C01/0370	REVISION: 0
SHEET: 1 of 1		



CHEMICAL DOSING SYSTEM

SKID BY H₂O Innovation
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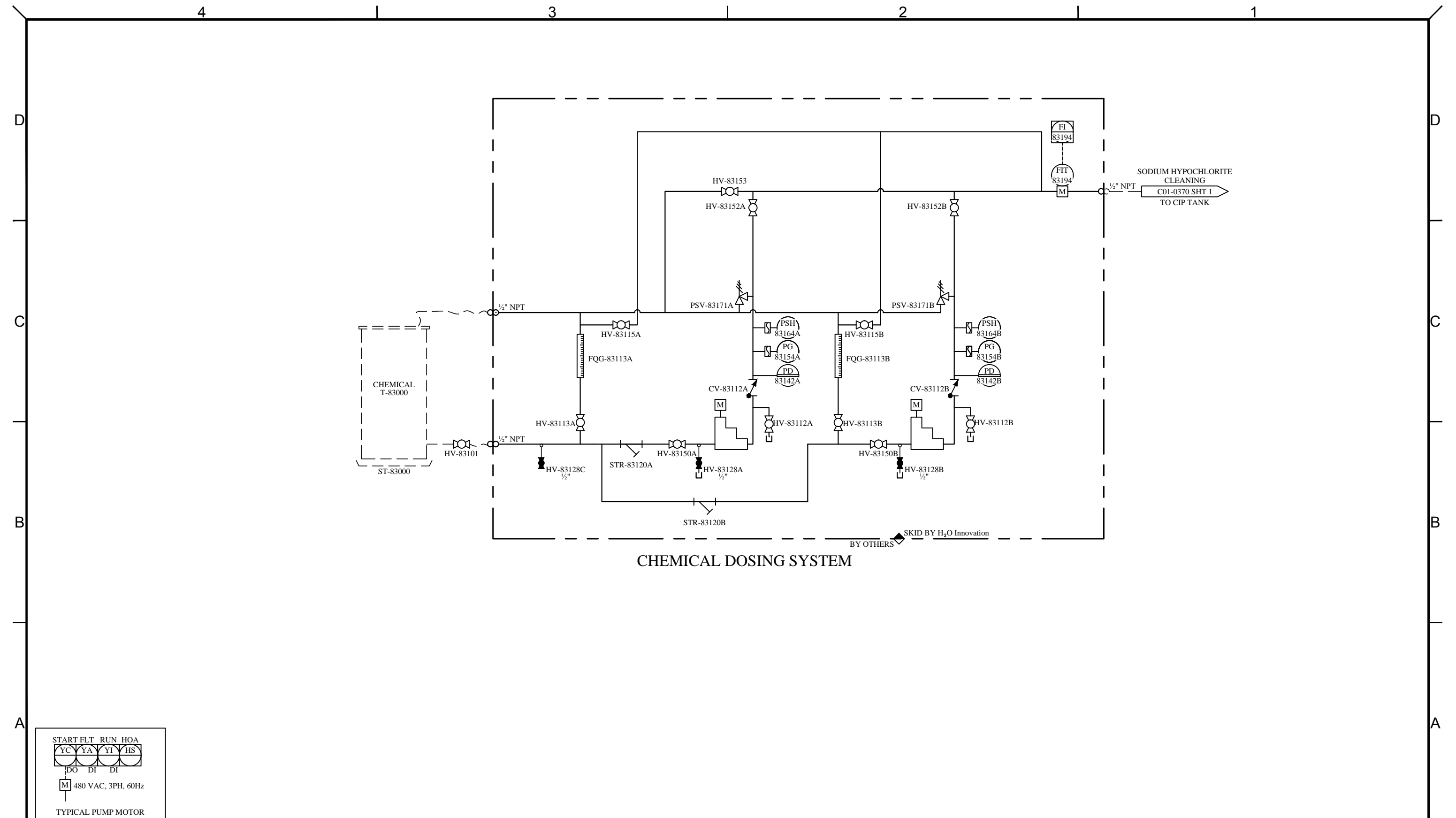
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0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



UNLESS NOTED OTHERWISE
INTERPRETATION: ANSI Y14.5
TOLERANCES: FRACTIONS: 1/16" 1/32" 1/64" DECIMALS: 0.000 0.015 0.030 0.060 0.125 0.250 0.500 1.000 ANGLES: 30° 45° 60° 90° HOLE SIZES: 1/16" 1/8" 3/16" 1/4" HOLE CENTERS: 1/16" 1/8" 3/16" 1/4"
DO NOT SCALE PRINTS

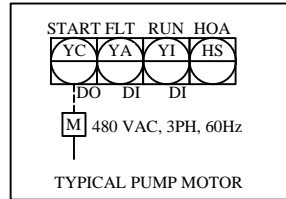
ENGLISHMAN RIVER, BC

TITLE: COAGULANT DOSING SYSTEM DUPLEX PUMP SKID PROCESS INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105 C01 0800	REVISION: 0
SHEET: 1 of 9		



CHEMICAL DOSING SYSTEM

BY OTHERS SKID BY H₂O Innovation



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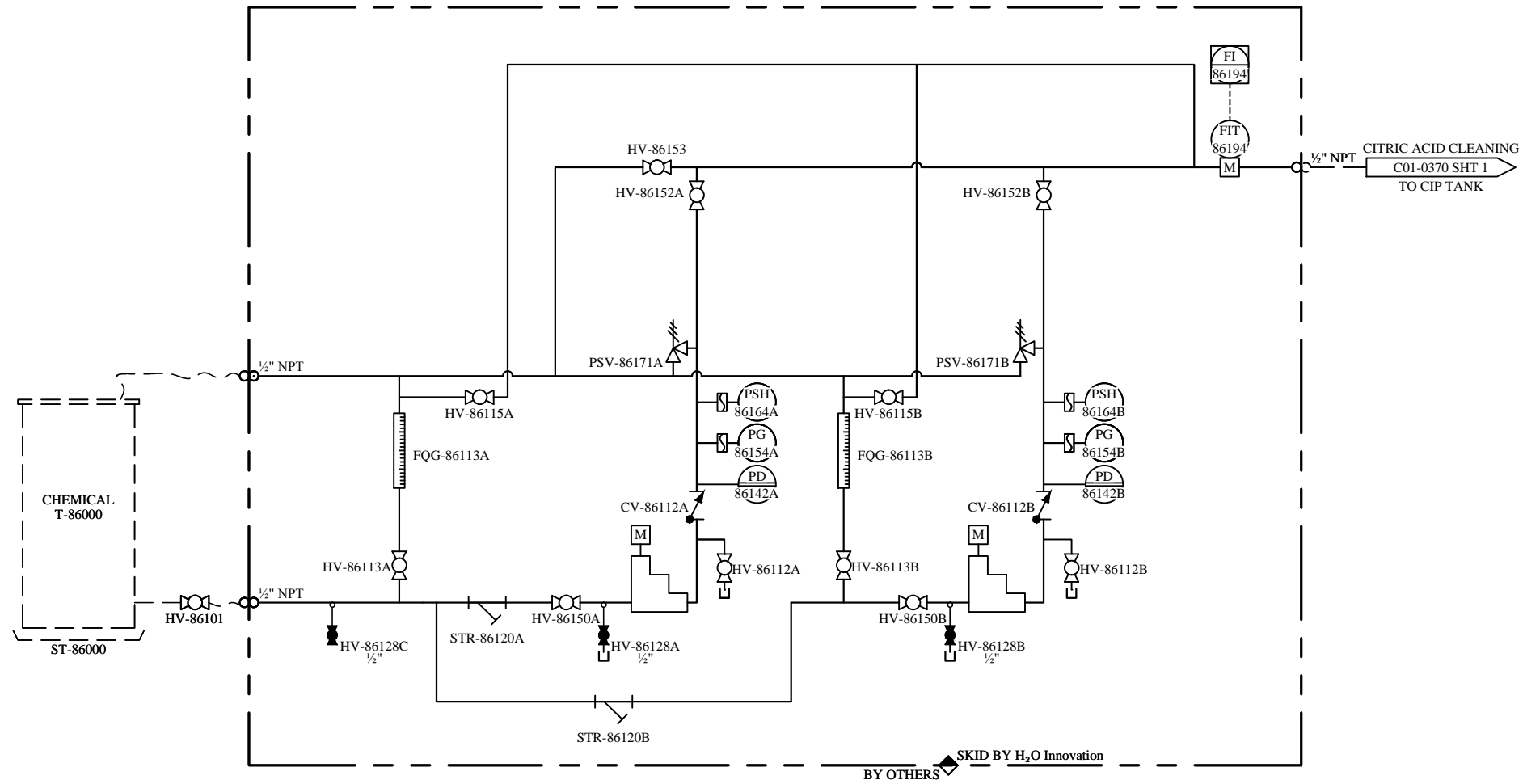
DRAWING REVISION						
REV	DATE	REVISION DESCRIPTION	DRAWN	CHKD	ENG	APPVD
0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5
 TOLERANCES:
 FRACTIONS: 1/16" - 3/32"
 DECIMALS: 0.001" - 0.015"
 ANGLES: 0.001" - 0.015"
 HOLE SIZES: 1/16" - 3/32"
 HOLE CENTERS: 1/16" - 3/32"
 DO NOT SCALE PRINTS

ENGLISHMAN RIVER, BC

TITLE: SODIUM HYPOCHLORITE CLEANING CHEMICAL <input type="checkbox"/> DUPLEX PUMP SKID PROCESS <input type="checkbox"/> INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105 C01 0800	REVISION 0
SHEET: 2 of 9		



CHEMICAL DOSING SYSTEM



M 480 VAC, 3PH, 60Hz

TYPICAL PUMP MOTOR

NOTE:
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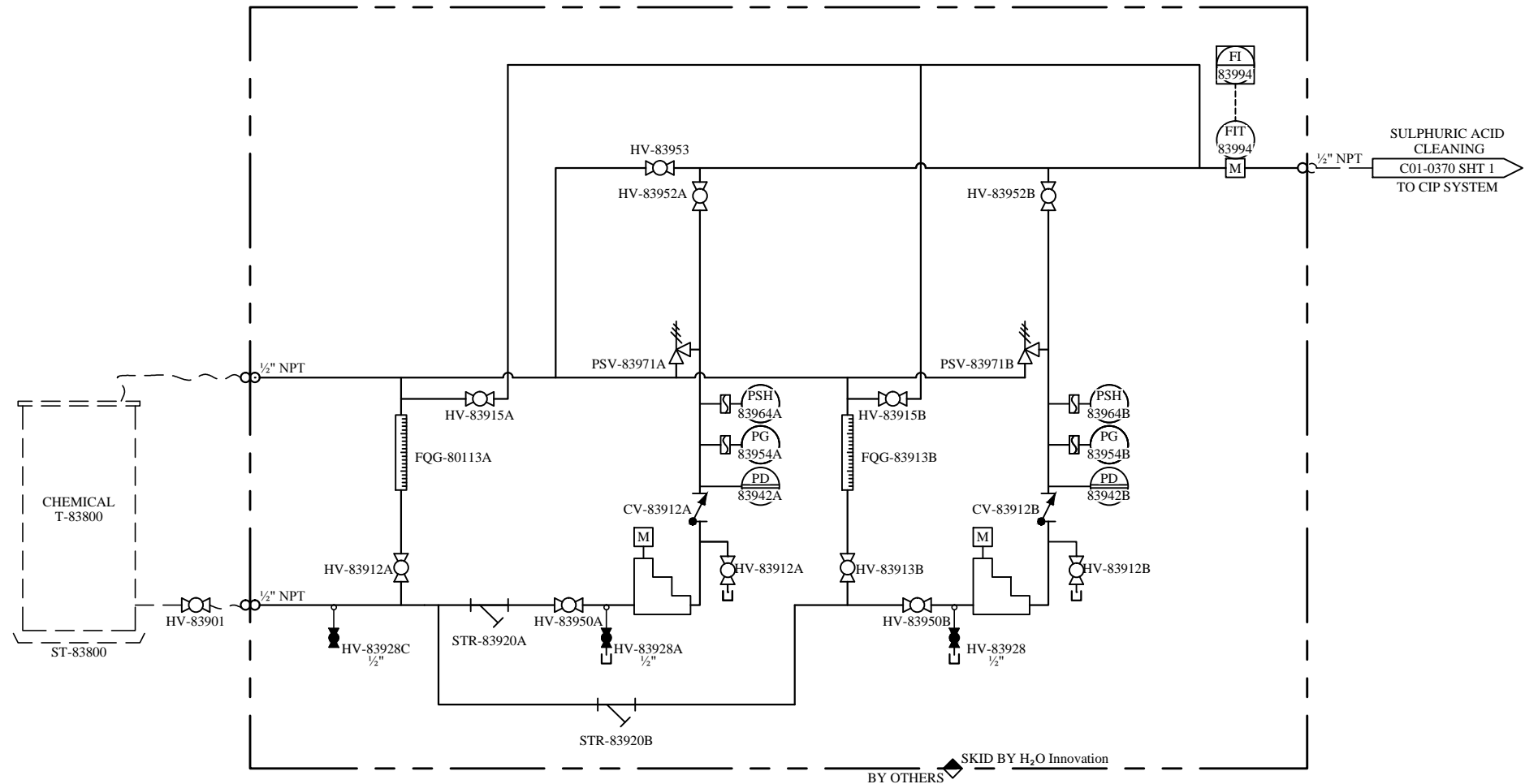
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REV	DATE	REVISION DESCRIPTION	DRAWN	CHKD	ENG	APPVD
0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



UNLESS NOTED OTHERWISE
INTERPRETATION: ANSI Y14.5
TOLERANCES: FRACTIONS: ± 0.005 , DECIMALS: ± 0.030 , ANGLES: ± 0.015 , HOLE SIZES: ± 0.005 , HOLE CENTERS: ± 0.005
DO NOT SCALE PRINTS

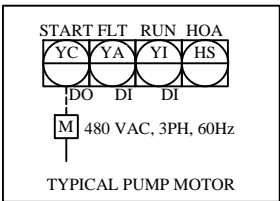
ENGLISHMAN RIVER, BC

TITLE: CITRIC ACID MEMBRANE CLEANING CHEMICAL <input type="checkbox"/> DUPLEX PUMP SKID PROCESS <input type="checkbox"/> INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105 C01 0800	REVISION 0
SHEET: 3 of 9		



CHEMICAL DOSING SYSTEM

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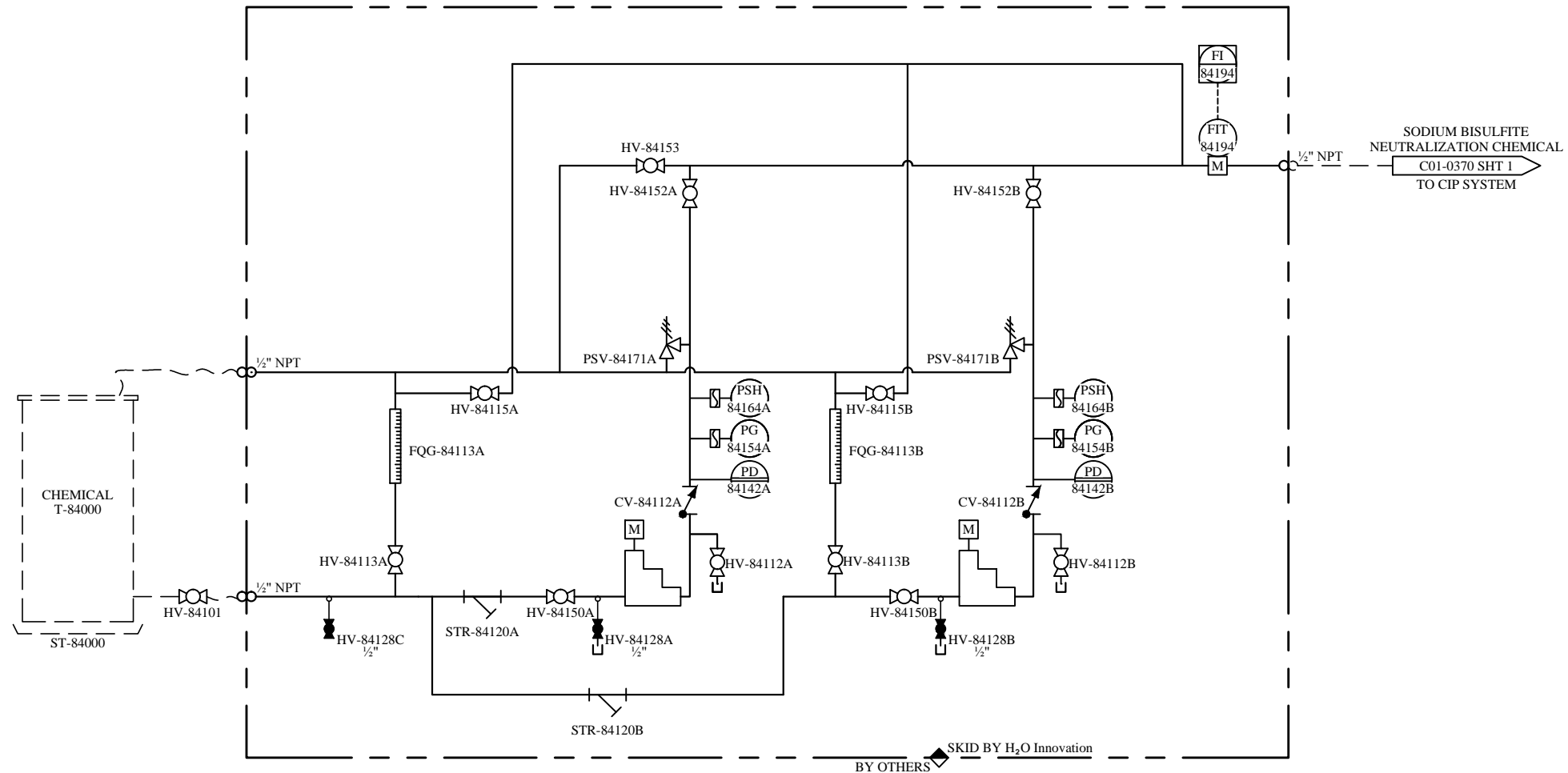
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REV	DATE	REVISION DESCRIPTION	DRAWN	CHKD	ENG	APPVD
0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



UNLESS NOTED OTHERWISE
INTERPRETATION: ANSI Y14.5
TOLERANCES:
FRACTIONS: 1/16" - 3/16"
DECIMALS: 0.000 - 0.015
ANGLES: 30° - 90°
HOLE SIZES: 1/16" - 1/2"
HOLE CENTERS: 1/16" - 1/2"
DO NOT SCALE PRINTS

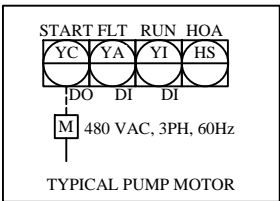
ENGLISHMAN RIVER, BC

TITLE: SULPHURIC ACID MEMBRANE CLEANING CHEMICAL <input type="checkbox"/> DUPLEX PUMP SKID PROCESS <input type="checkbox"/> INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105-C01-0800	REVISION 0
SHEET: 4 of 9		



CHEMICAL DOSING SYSTEM

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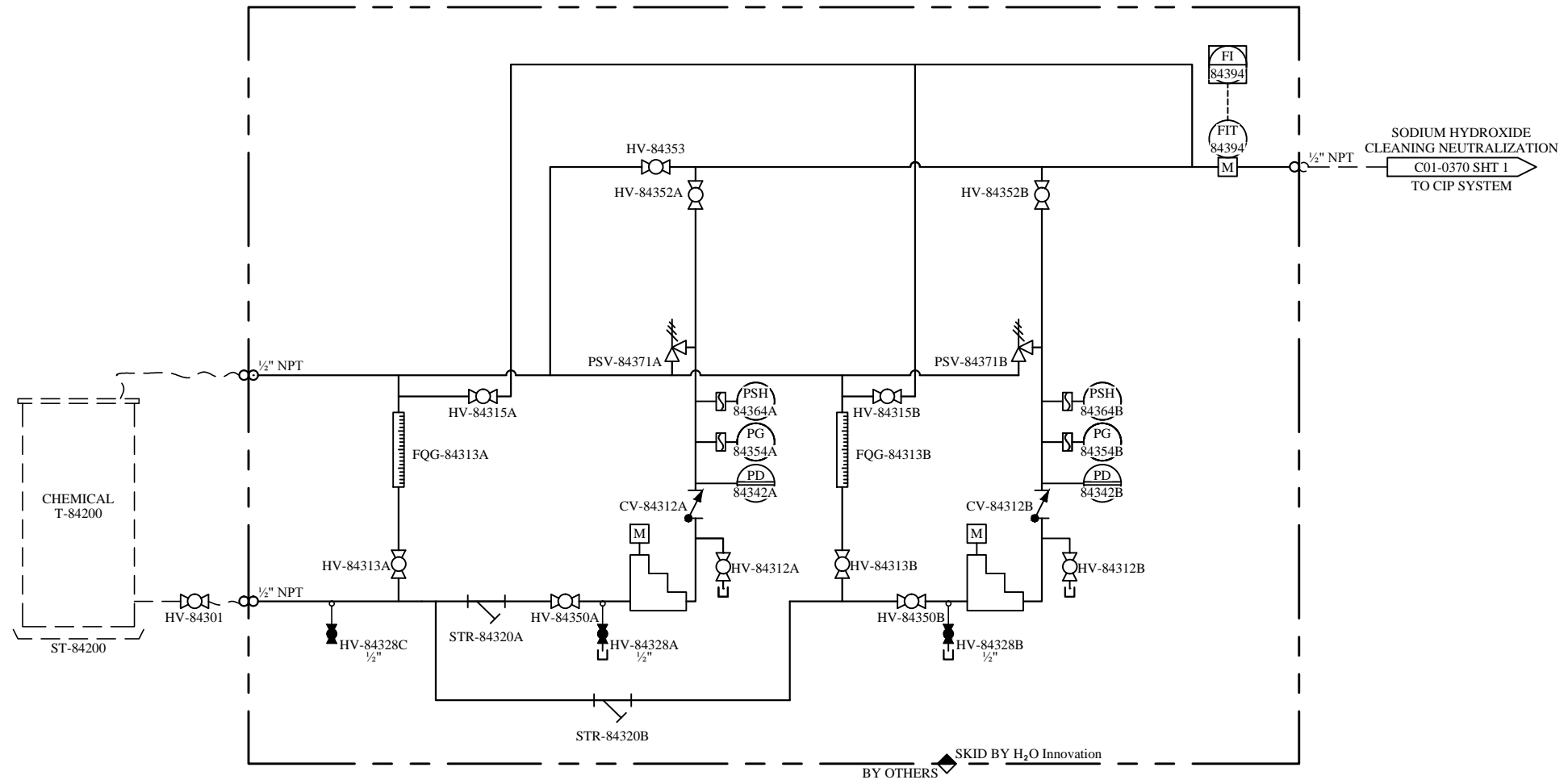
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0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



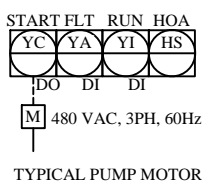
UNLESS NOTED OTHERWISE
INTERPRETATION: ANSI Y14.5
TOLERANCES: FRACTIONS: 1/16", 1/8", 3/16", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1.000
DECIMALS: 0.XX, 0.000, 0.015, 0.030, 0.045, 0.060, 0.075, 0.090, 0.105, 0.120, 0.135, 0.150, 0.165, 0.180, 0.195, 0.210, 0.225, 0.240, 0.255, 0.270, 0.285, 0.300, 0.315, 0.330, 0.345, 0.360, 0.375, 0.390, 0.405, 0.420, 0.435, 0.450, 0.465, 0.480, 0.495, 0.510, 0.525, 0.540, 0.555, 0.570, 0.585, 0.600, 0.615, 0.630, 0.645, 0.660, 0.675, 0.690, 0.705, 0.720, 0.735, 0.750, 0.765, 0.780, 0.795, 0.810, 0.825, 0.840, 0.855, 0.870, 0.885, 0.900, 0.915, 0.930, 0.945, 0.960, 0.975, 0.990, 1.000
ANGLES: 0.000, 0.015, 0.030, 0.045, 0.060, 0.075, 0.090, 0.105, 0.120, 0.135, 0.150, 0.165, 0.180, 0.195, 0.210, 0.225, 0.240, 0.255, 0.270, 0.285, 0.300, 0.315, 0.330, 0.345, 0.360, 0.375, 0.390, 0.405, 0.420, 0.435, 0.450, 0.465, 0.480, 0.495, 0.510, 0.525, 0.540, 0.555, 0.570, 0.585, 0.600, 0.615, 0.630, 0.645, 0.660, 0.675, 0.690, 0.705, 0.720, 0.735, 0.750, 0.765, 0.780, 0.795, 0.810, 0.825, 0.840, 0.855, 0.870, 0.885, 0.900, 0.915, 0.930, 0.945, 0.960, 0.975, 0.990, 1.000
HOLE SIZES: 1/16", 1/8", 3/16", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1.000
HOLE CENTERS: 1/16", 1/8", 3/16", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1.000
DO NOT SCALE PRINTS

ENGLISHMAN RIVER, BC

TITLE: SODIUM BISULFITE NEUTRALIZATION CHEMICAL <input type="checkbox"/> DUPLEX PUMP SKID PROCESS <input type="checkbox"/> INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105 C01 0800	REVISION 0
SHEET: 5 of 9		



CHEMICAL DOSING SYSTEM



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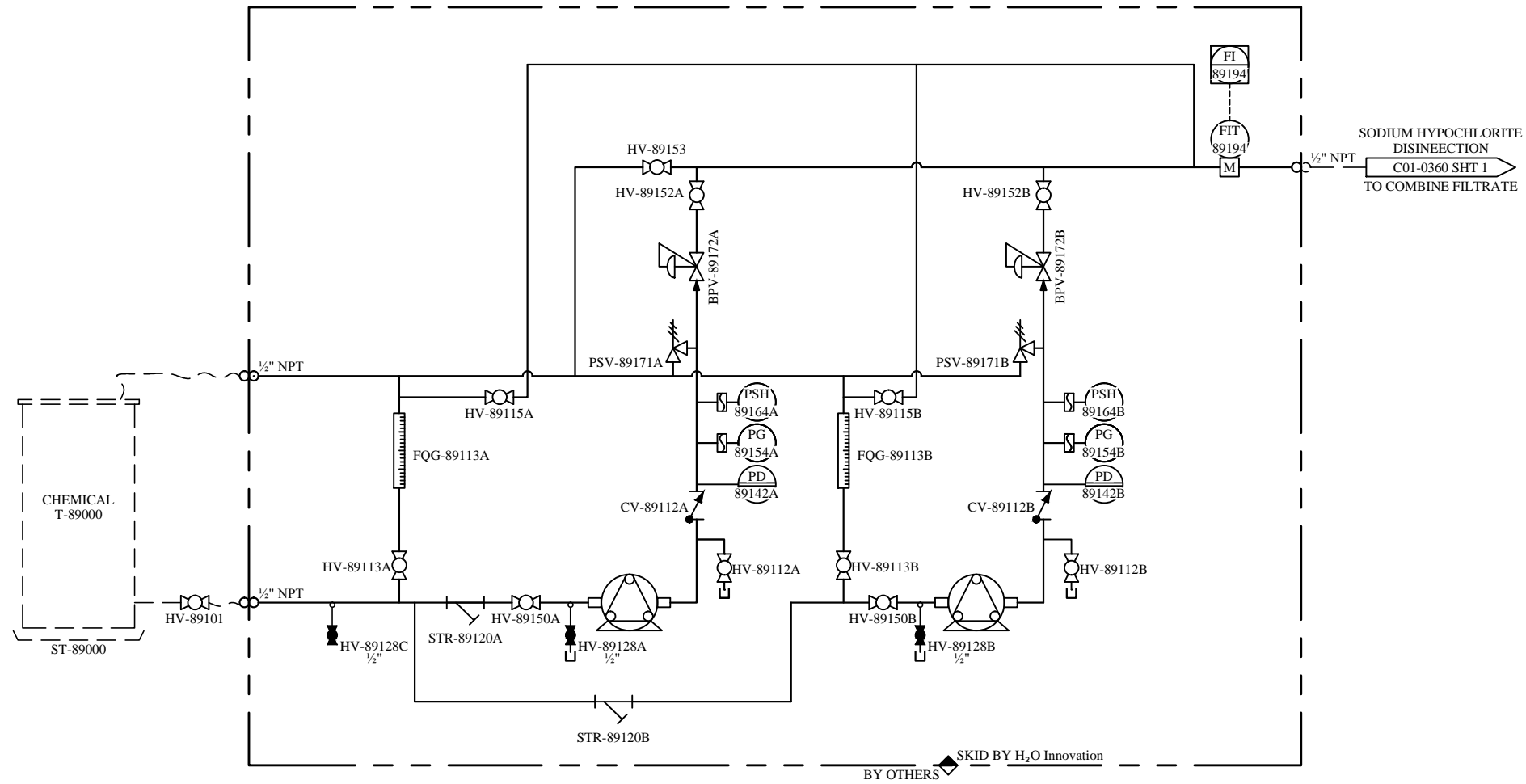
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0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



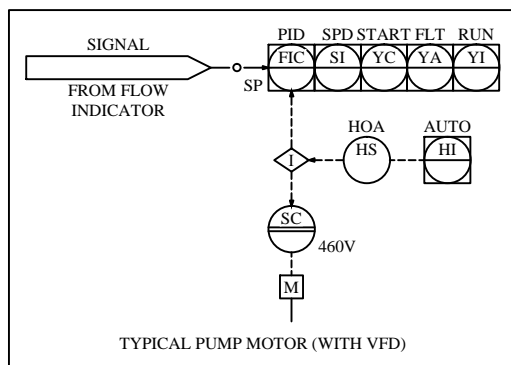
UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5
 TOLERANCES:
 FRACTIONS: 1/16"
 DECIMALS: 0.0005
 ANGLES: 0.0001
 HOLE SIZES: 1/16"
 HOLE CENTERS: 1/16"
 DO NOT SCALE PRINTS

ENGLISHMAN RIVER, BC

TITLE: SODIUM HYDROXIDE CHEMICAL <input type="checkbox"/> DUPLEX PUMP SKID PROCESS <input type="checkbox"/> INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105 C01 0800	REVISION: 0
SHEET: 6 OF 9		



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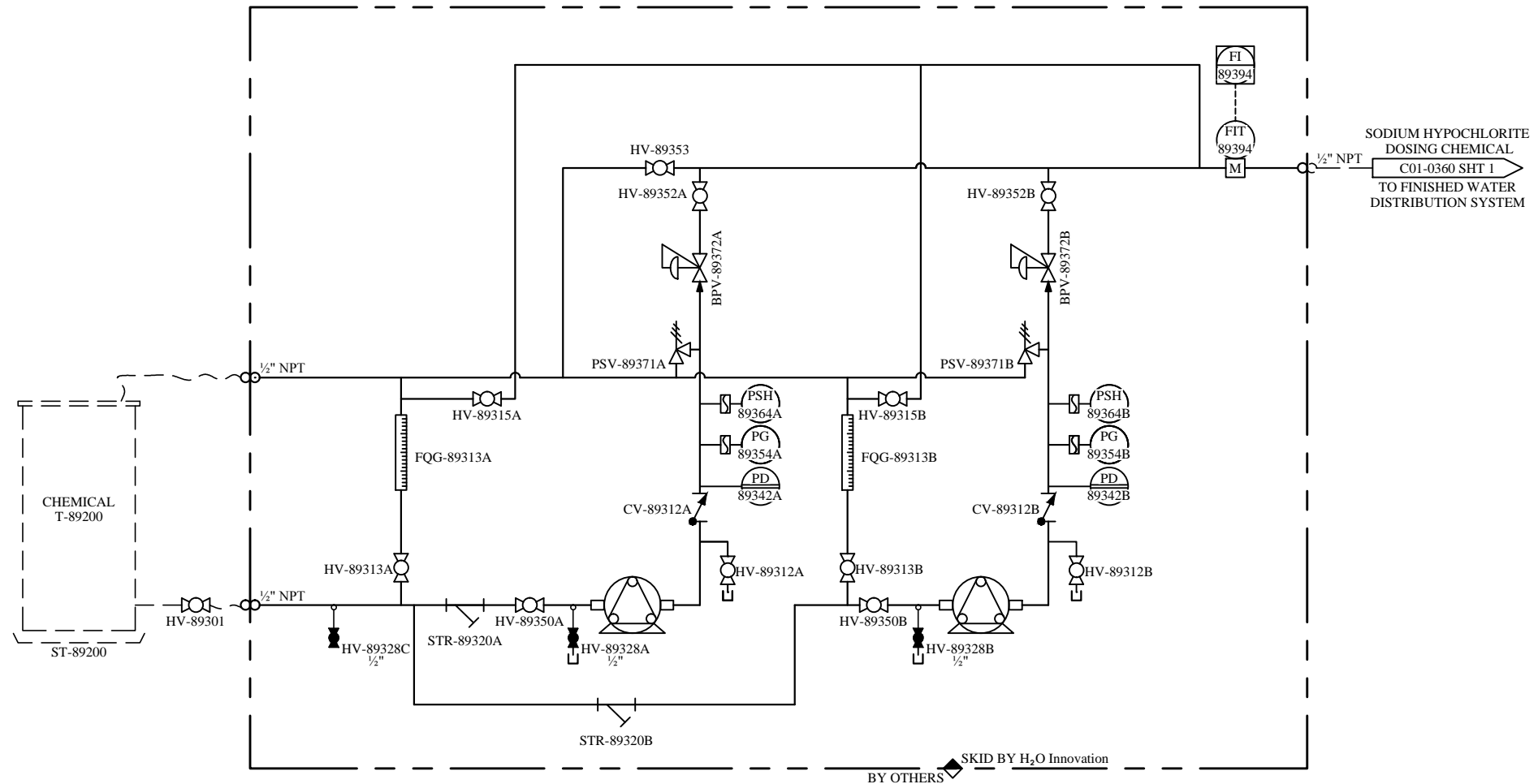
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0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



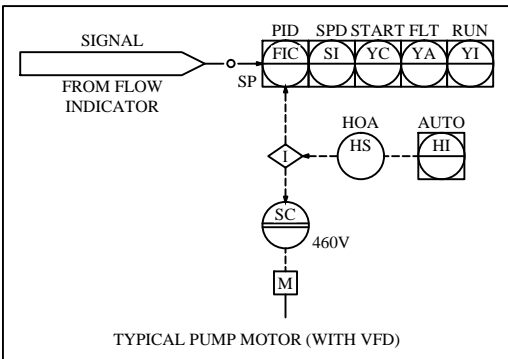
UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5
 TOLERANCES: FRACTIONS: 1/16" - 3/32" OTHERWISE
 DECIMALS: 0.001" - 0.015" OTHERWISE
 ANGLES: 0.001" - 0.015" OTHERWISE
 HOLE SIZES: 1/16" - 3/32" OTHERWISE
 HOLE CENTERS: 1/16" - 3/32" OTHERWISE
 DO NOT SCALE PRINTS

ENGLISHMAN RIVER, BC

TITLE: SODIUM HYPOCHLORITE FOR COMBINED FILTRATE <input type="checkbox"/> DUPLEX PUMP SKID PROCESS <input type="checkbox"/> INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105.C01.0800	REVISION 0
SHEET: 7 of 9		



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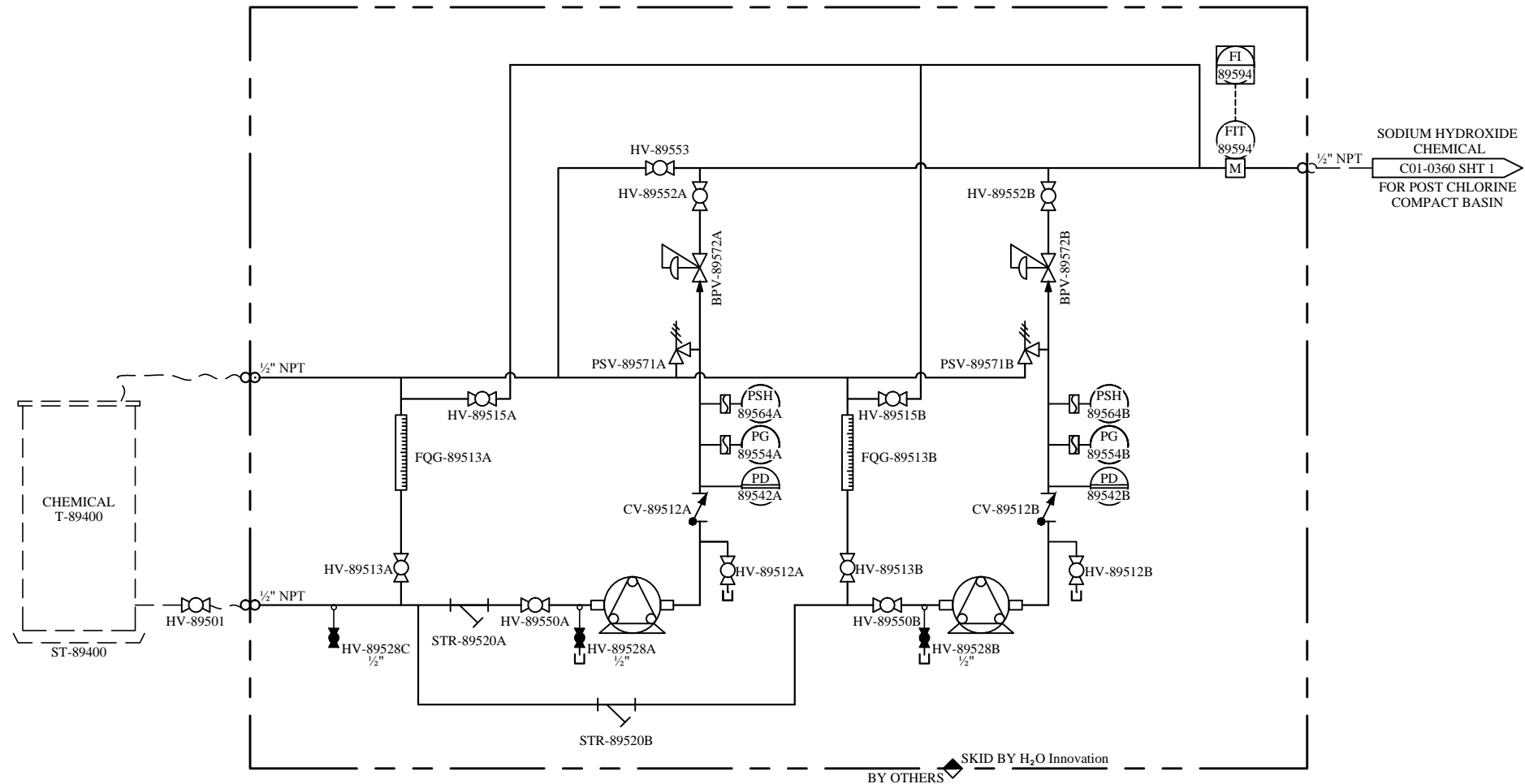
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0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



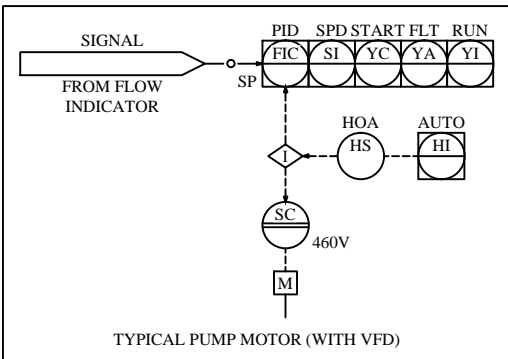
UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5
 TOLERANCES:
 FRACTIONS: 1/16"
 DECIMALS: 0.0005
 ANGLES: 0.0001
 HOLE SIZES: 1/16"
 HOLE CENTERS: 1/16"
 DO NOT SCALE PRINTS

ENGLISHMAN RIVER, BC

TITLE: SODIUM HYPOCHLORITE FOR FINISHED WATER <input type="checkbox"/> DUPLEX PUMP SKID PROCESS <input type="checkbox"/> INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105.C01.0800	REVISION 0



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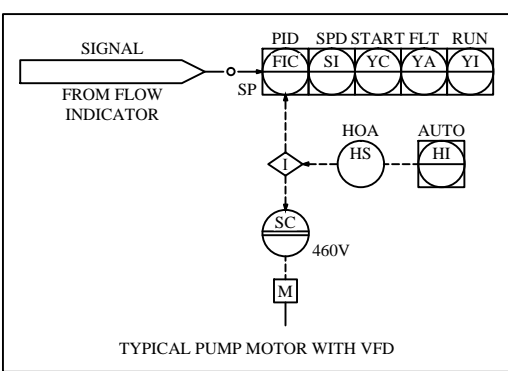
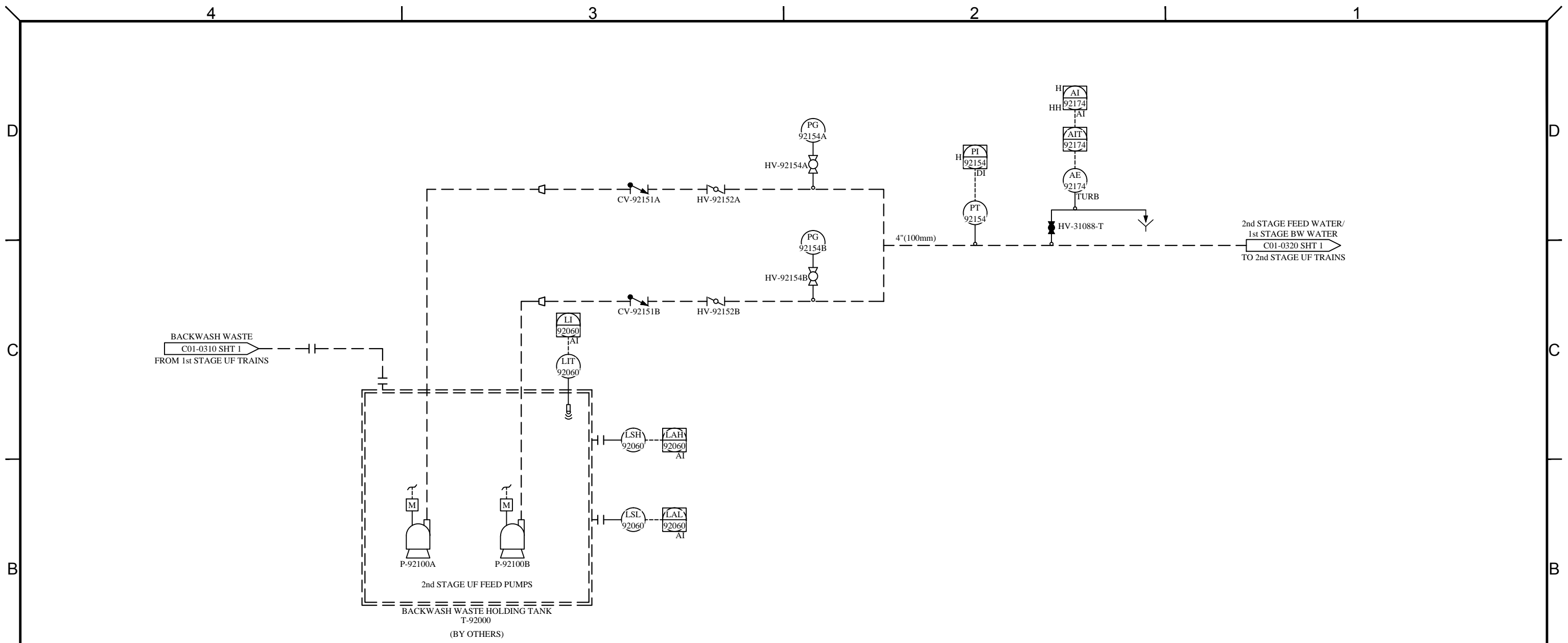
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REV	DATE	REVISION DESCRIPTION	DRAWN	CHKD	ENG	APPVD
0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5
 TOLERANCES:
 FRACTIONS: 1/16"
 DECIMALS: 0.0005
 ANGLES: 0.0001
 HOLE SIZES: 1/16"
 HOLE CENTERS: 1/16"
 DO NOT SCALE PRINTS

ENGLISHMAN RIVER, BC

TITLE: SODIUM HYDROXIDE DUPLEX PUMP SKID PROCESS INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105-C01-0800	REVISION 0



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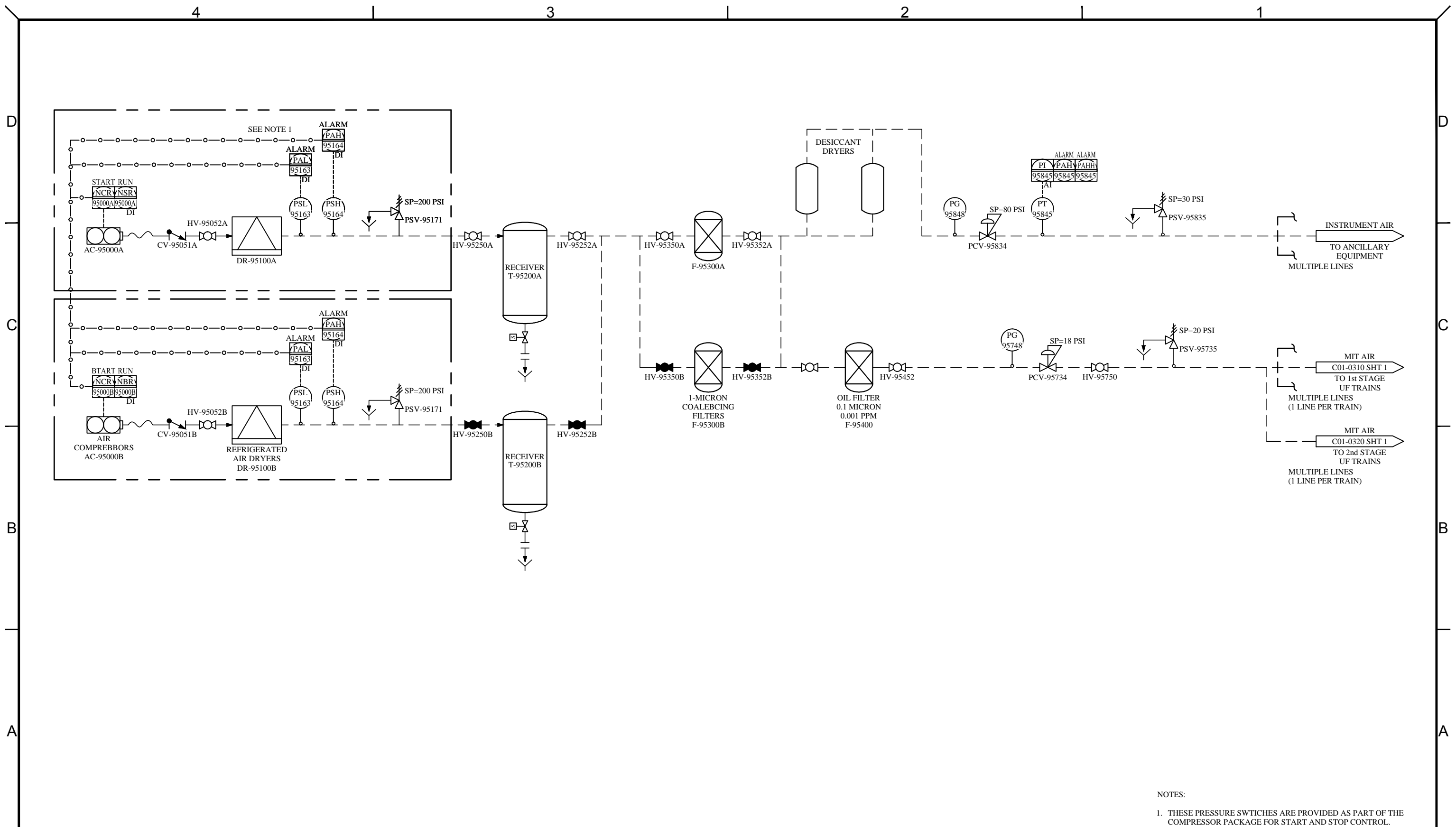
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0	02/10/2015	PRELIMINARY	M.P.	J.V.	J.V.	J.V.



UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5
 TOLERANCES:
 FRACTIONS: 1/16" - 3/32"
 DECIMALS: 0.001" - 0.015"
 ANGLES: 0.001" - 0.015"
 HOLE SIZES: 1/16" - 3/32"
 HOLE CENTERS: 1/16" - 3/32"
 DO NOT SCALE PRINTS

ENGLISHMAN RIVER, BC

TITLE: BACKWASH WASTE HANDLING PROCESS INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105-C01-0920	REVISION 0
		SHEET: 1 of 1



NOTES:
 1. THESE PRESSURE SWITCHES ARE PROVIDED AS PART OF THE COMPRESSOR PACKAGE FOR START AND STOP CONTROL.

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DRAWING REVISION						
REV	DATE	REVISION DESCRIPTION	DRAWN	CHKD	ENG	APPVD



UNLESS NOTED OTHERWISE
 INTERPRETATION: ANSI Y14.5
 TOLERANCES:
 FRACTIONS: $\frac{1}{16}$
 DECIMALS: 0.0005
 ANGLES: 0.0001
 HOLE SIZES: $\frac{1}{16}$
 HOLE CENTERS: $\frac{1}{16}$
 DO NOT SCALE PRINTS

ENGLISHMAN RIVER, BC

TITLE: AIR COMPRESSOR SYSTEM <input type="checkbox"/> AIR SCOUR <input type="checkbox"/> MIT AS SINGLE LINE PROCESS <input type="checkbox"/> INSTRUMENTATION DIAGRAM		
SCALE: N/A	DRAWING NUMBER: P15105/C01/0950	REVISION 0
SHEET: 1A		