

Client: Agnico Eagle Mines

Project: SaltMaker SM-AEM-01

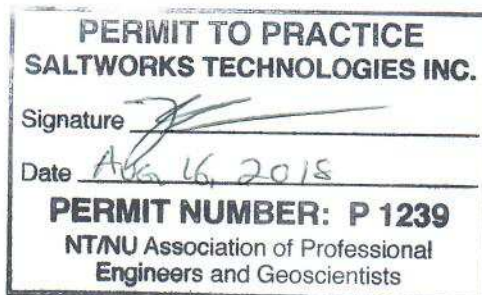
The following engineering document package contains work completed under the guidance and supervision of professional engineers, P.Eng..

The package includes:

- 1) AEM Integration PFD Revision 3, dated 30-Oct-2017
- 2) Solids Extraction:
 - Infographic Revision B, dated 13-Mar-2018
 - Solids Extra Extraction System – Simplified Revision A, dated 23-Nov-2017
- 3) SW_EN_AEM-01_GAD SaltMaker GAD Revision F, dated 13-Jul-2018
- 4) Agnico Eagle Minds P&ID Drawing Package Revision N, dated 06-Jul-2018
- 5) System 100: Post Treatment RO P&ID Revision 3, Project Number 17041-100D, Nav Number: 49-0462, dated 23-Jan-2018



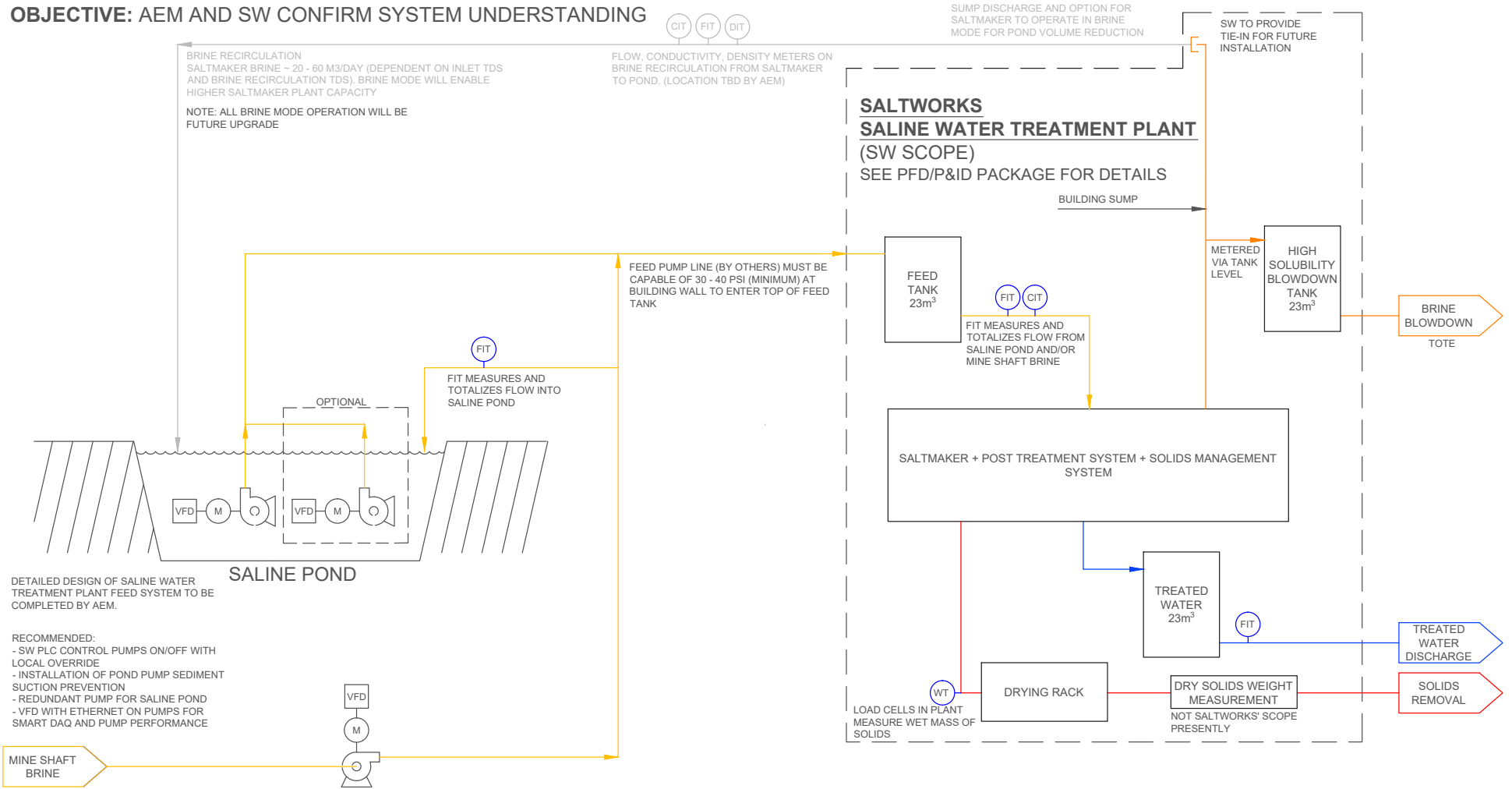
K.K.H. Tsin
Aug 16, 2018



B.S. Sparrow
Aug 16, 2018

AGNICO EAGLE - SALTWORKS: SALINE WATER TREATMENT PLANT INTEGRATION PFD

OBJECTIVE: AEM AND SW CONFIRM SYSTEM UNDERSTANDING

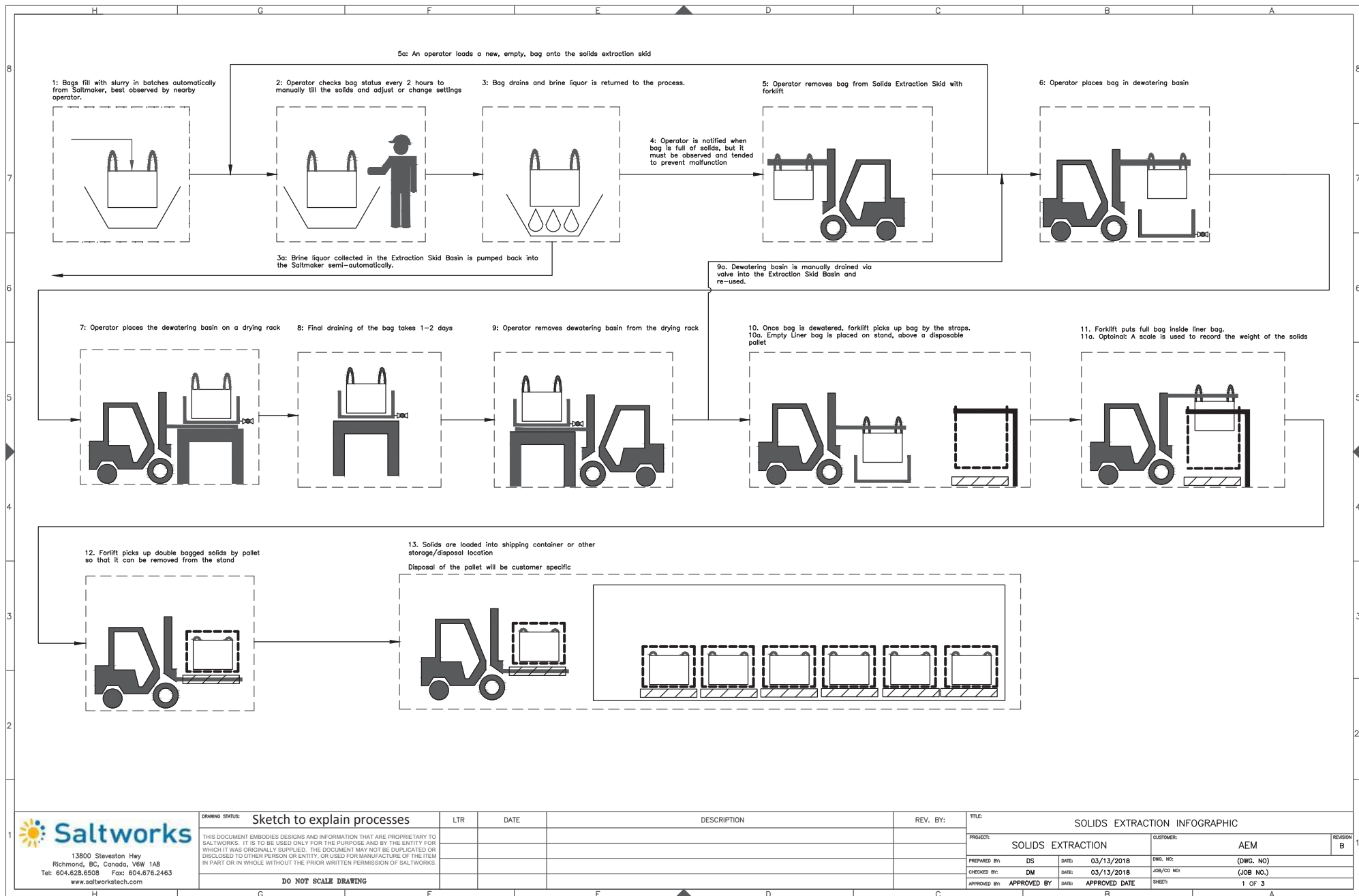


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DRAWING STATUS:	DRAWING STATUS	LTR	DATE	DESCRIPTION	REV. BY:	TITLE:
1	INITIAL DRAFT	1	26-SEP-2017	INITIAL DRAFT	XX	AEM INTEGRATION PFD
2	UPDATED PER AEM COMMENTS	2	06-OCT-2017	UPDATED PER AEM COMMENTS	XX	
3	UPDATED PER AEM COMMENTS	3	30-OCT-2017	UPDATED PER AEM COMMENTS	ML	

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DRAWING STATUS: Sketch to explain processes

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DATE

DESCRIPTION

REV. BY:

TITLE:

SOLIDS EXTRACTION INFOGRAPHIC

PROJECT:

SOLIDS EXTRACTION

CUSTOMER:

AEM

REVISION

B 1

PREPARED BY:

DS

DATE:

03/13/2018

DWG. NO.:

(DWG. NO.)

CHECKED BY:

DM

DATE:

03/13/2018

JOB/CD NO.:

(JOB NO.)

APPROVED BY:

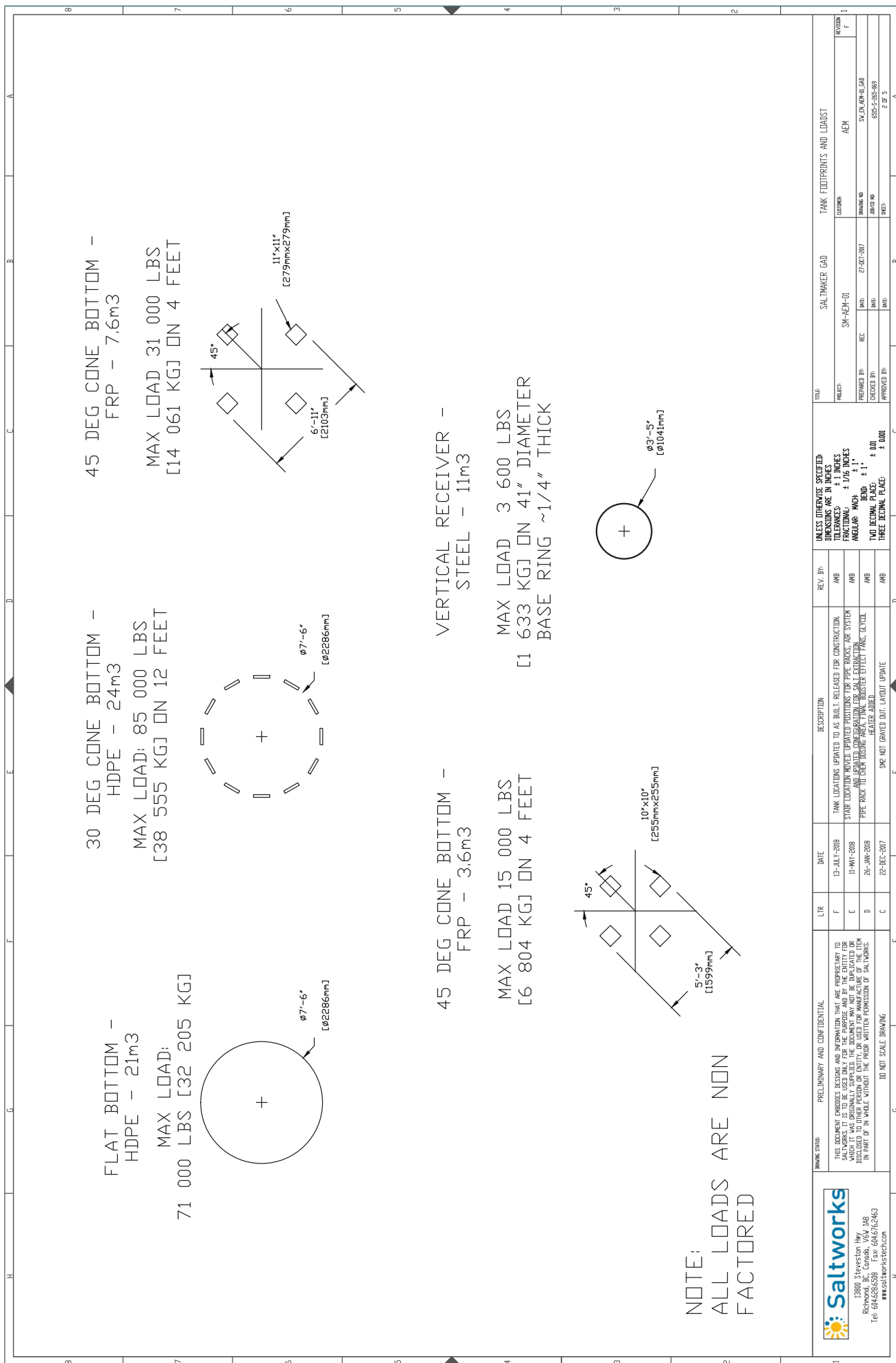
APPROVED BY

DATE:

APPROVED DATE

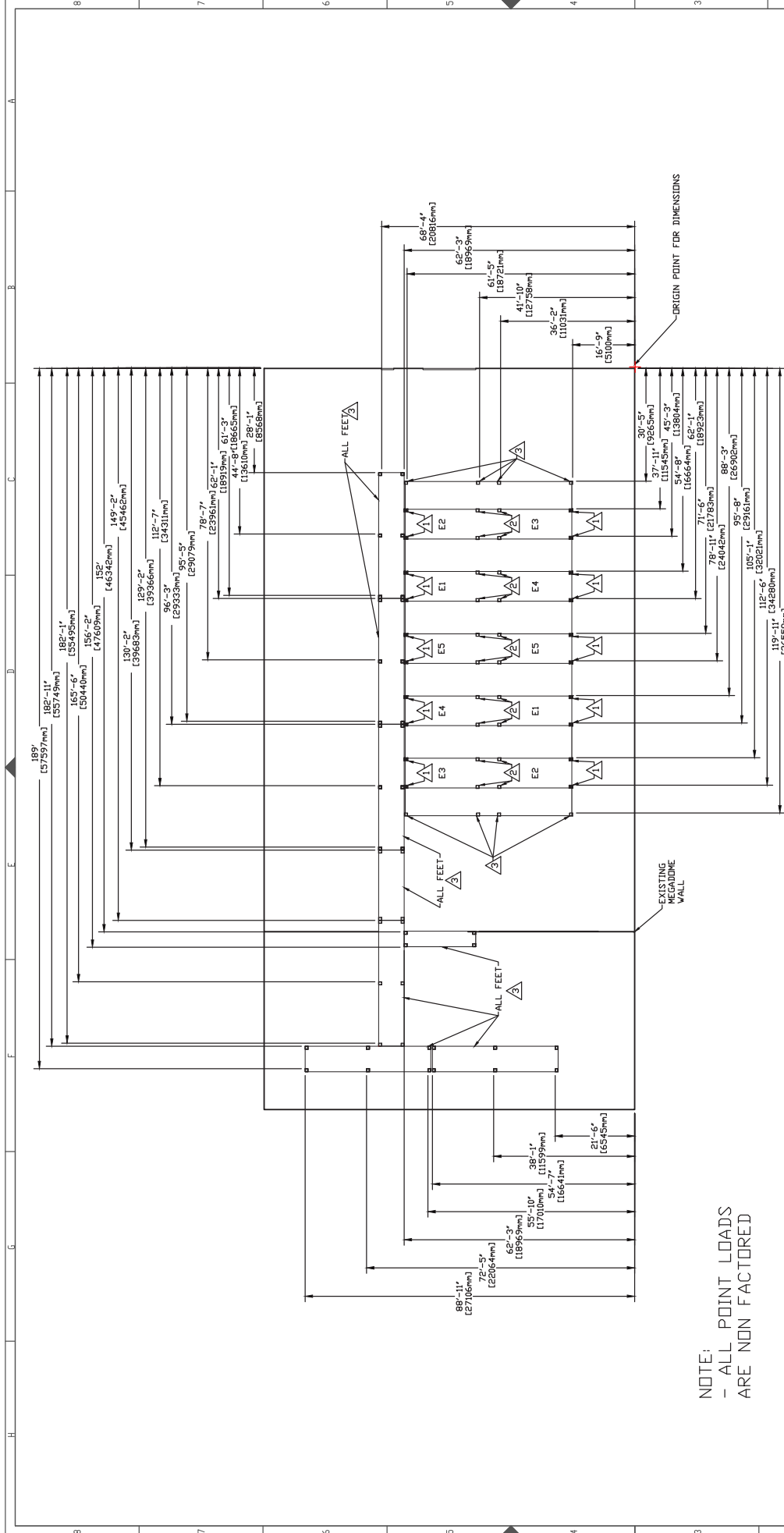
SHEET:

1 OF 3



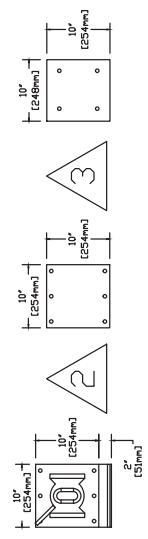
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DO NOT SCALE DRAWING		DO NOT SCALE DRAWING		E		11-MAY-2018		TANK LOCATIONS UPDATED TO AS BUILT. RELEASED FOR CONSTRUCTION. YOUR LOCATION WHEN UPDATED PROVIDES THE PIPE PROXIMITY SYSTEM AND UPDATED COORDINATES FOR SALT EXTRACTION. PIPE PROX TO OBTAINING AREA. TANK BOOSTER EFFECT FANS, CEILING - REATHER ADDED.		AMB		F		SHEET		2 OF 5	
DO NOT SCALE DRAWING		DO NOT SCALE DRAWING		D		25-JAN-2018		TANK LOCATIONS UPDATED TO AS BUILT. RELEASED FOR CONSTRUCTION. YOUR LOCATION WHEN UPDATED PROVIDES THE PIPE PROXIMITY SYSTEM AND UPDATED COORDINATES FOR SALT EXTRACTION. PIPE PROX TO OBTAINING AREA. TANK BOOSTER EFFECT FANS, CEILING - REATHER ADDED.		AMB		F		SHEET		2 OF 5	
DO NOT SCALE DRAWING		DO NOT SCALE DRAWING		C		22-DEC-2017		TANK LOCATIONS UPDATED TO AS BUILT. RELEASED FOR CONSTRUCTION. YOUR LOCATION WHEN UPDATED PROVIDES THE PIPE PROXIMITY SYSTEM AND UPDATED COORDINATES FOR SALT EXTRACTION. PIPE PROX TO OBTAINING AREA. TANK BOOSTER EFFECT FANS, CEILING - REATHER ADDED.		AMB		F		SHEET		2 OF 5	

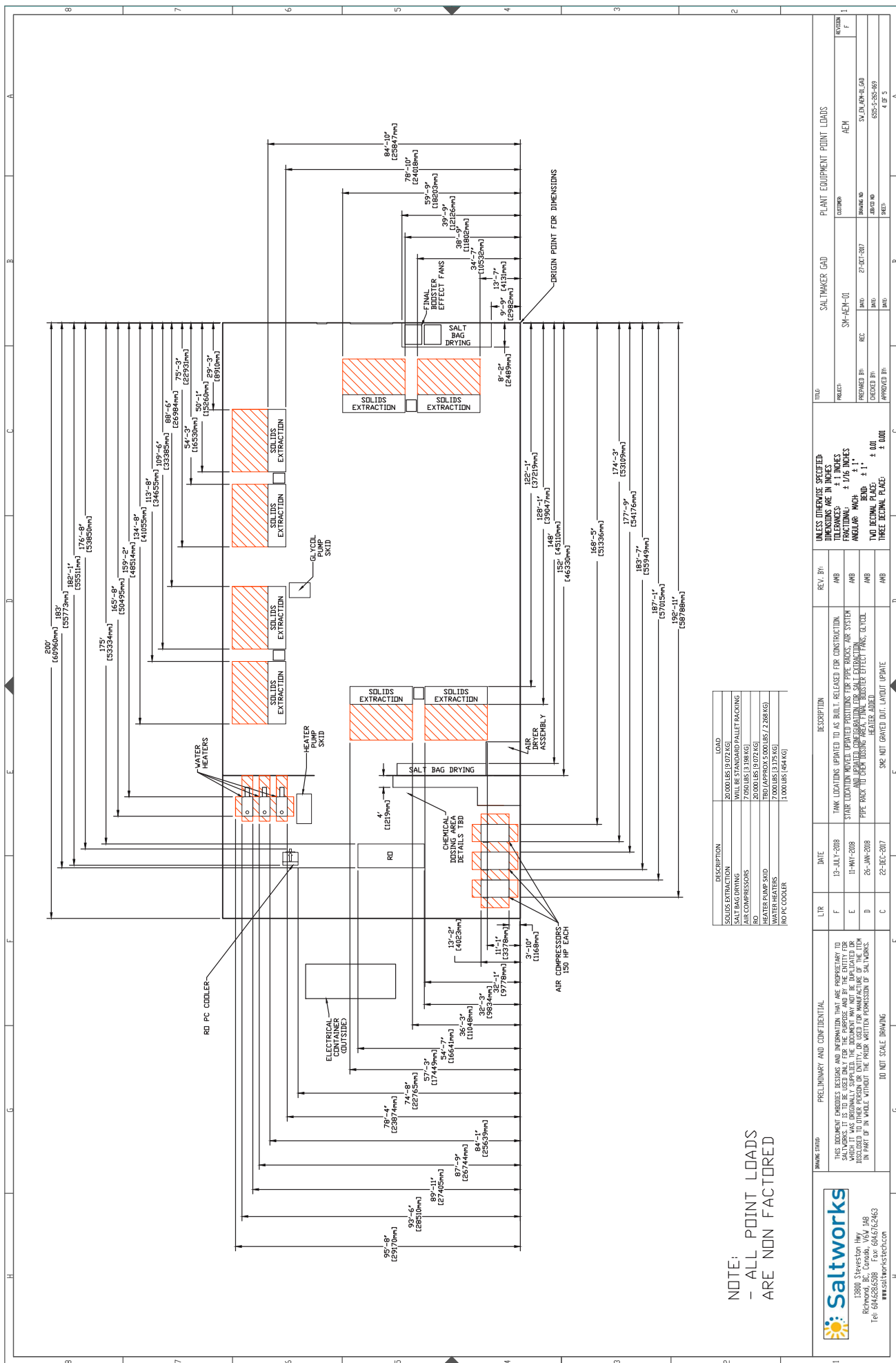


NOTE:
- ALL POINT LOADS
ARE NON FACTORED

LABEL	DESCRIPTION	LOAD		TOTAL QTY
		15 000 LBS [6 804 KG] PER TWIST LOCK	20	
1	BOP CONTAINER TWIST LOCK BASE PLATE	15 000 LBS [6 804 KG] PER SUPPORT	20	
2	BOP CONTAINER CENTER SUPPORT	5 000 LBS [2 268 KG] PER SUPPORT	52	
3	WORK PLATFORM SUPPORT COLUMN			



DRAWING DATA				PLANT FRAME AND PLATFORM POINT LOADS			
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DATE	13-JULY-2018	DATE	13-JULY-2018	PROJECT	SW-AEM-01	CLIENT	AEM
BY	E	DATE	11-MAY-2018	DESIGNED BY	REC	DATE	27-OCT-2017
BY	D	DATE	25-JAN-2018	CHECKED BY		DATE	
BY	C	DATE	22-DEC-2017	APPROVED BY		DATE	
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NOTE:
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							13-JULY-2018		TANK LOCATIONS UPDATED TO AS BUILT - RELEASED FOR CONSTRUCTION		AMB				SHEET		SW-ACM-01		AEM	
							11-MAY-2018		STAKE LOCATIONS WHEN UPDATED PROVIDING THE PIPE PROFILES AND SYSTEM AND UPDATED COORDINATES FOR SALT EXTRACTION		AMB				DATE		27-OCT-2017		DRAWING NO	
							25-JAN-2018		PIPE RACK TO NEW TUNING AREA, FINAL BOOSTER EFFECT FANS, CONTROL HEATER ADDED		AMB				DATE				JOB NO	
							22-DEC-2017		SME NOT GAINED DTD, LAYOUT UPDATE		AMB				DATE				655-5-555-863	
																			4 OF 5	

Saltmaker Site Requirements									
All specifications are for a single SaltMaker installation unless noted otherwise									
Capacity	2X (2X) SaltMaker: 66 m ³ /day (132 m ³ /day) Saline Water								
Electrical	See SW, EN, ELEC, AEM, LOADS, RDI for details								
Communications	Cable or Cable Ethernet cable connection enabling access to site SCADA system and Internet access at 25Mbps upload/download speeds								
Compressed Air	Built into plant Instrument air dried to: -40°C Dew Point Process air dried to: 4°C Dew Point Saline water feed at 4X capacity for "slug feed" 206-275 kPa (30-40 psi) minimum to feed SW Feed tank 2" ANSI Flange connection point SW PLC controls AEM feed pumps ON/OFF with local override 80% of Capacity discharged as treated water, 20% to atmosphere for cooling 206-275 kPa (30-40 psi) either continuously or batched 2" ANSI Flange connection point Depends on inlet total dissolved solids (TDS), roughly: "Capacity" * TDS/165 6.5 GPM - 13,000 kg per day removed via bulk salt bags 2" 15" ANSI Flange connection point								
Feedwater	3% of total plant inlet volume removed as liquid via tote AEM to provide freeze protection and sufficient ventilation for standard industrial building occupancy in addition to combustion air requirements for diesel fired hot water heaters outlined below Detailed design of ducting to be finalized with AEM and Megadome Manufacturer Sizes of ducts below are best estimates, and may be adjusted during the detailed design process. SaltMaker Final Effect Air Intake (process air for one (1) SaltMaker only): 36 in diameter duct Material: Galvanized steel or equivalent SaltMaker Final Effect Air Discharge (process air for one (1) SaltMaker only): 36 inch diameter duct 22,000 cfm, approximately 25°C, 95% relative humidity (+/- 20%). Material: SS304 or equivalent Saltworks notes exhaust air freezing risk. AEM advised Saltworks that atmospheric conditions will carry away moisture. AEM noted that changes to the final effect exhaust could be made if a problem emerged. Total nameplate hot water heater output: 2999kW								
Treated Water Discharge	Fuel: #2 Fuel Oil Temperature: Minimum 20°F (-6.6°C) All fuel lines and oil filters must be sized to provide pump suction capacities, not max operating capacities. Hot Water Heater 1 (Unilux 3502): Burner Pump Suction Capacity: 105 GPH (397.5 l/hr), Maximum 10" W.C. Suction Pressure (Vacuum) at oil pump suction port Burner Max Operating Capacity: 33.7 GPH (127.6 l/hr), Maximum 10" W.C. Suction Pressure (Vacuum) at oil pump suction port Hot Water Heater 2 (Unilux 3502): Burner Pump Suction Capacity: 105 GPH (397.5 l/hr), Maximum 10" W.C. Suction Pressure (Vacuum) at oil pump suction port Burner Max Operating Capacity: 33.7 GPH (127.6 l/hr), Maximum 10" W.C. Suction Pressure (Vacuum) at oil pump suction port Hot Water Heater 3 (Unilux 5002): Burner Pump Suction Capacity: 135 GPH (511.0 l/hr), Maximum 10" W.C. Suction Pressure (Vacuum) at oil pump suction port Burner Max Operating Capacity: 36.0 GPH (222.0 l/hr), Maximum 10" W.C. Suction Pressure (Vacuum) at oil pump suction port Combined 3 Water Heaters Total: Burner Pump Suction Capacity: 345 GPH (1306.0 l/hr), Maximum 10" W.C. Suction Pressure (Vacuum) at oil pump suction port Burner Max Operating Capacity: 123.3 GPH (465.0 l/hr), Maximum 10" W.C. Suction Pressure (Vacuum) at oil pump suction port Single Hot Water Heater (plant die + building heat): 230 scfm air at 18°C - 29°C Single SaltMakers: 1460 scfm air at 18°C - 29°C Two SaltMakers: 2920 scfm air at 18°C - 29°C Single Hot Water Heater: 12 - 20 inch inner diameter exhaust stack (diameter may be changed depending on total length of exhaust stack)								
Thermal	Single SaltMaker: 2 x 12 - 20 inch diameter exhaust stacks (diameter may be changed depending on total length of exhaust stacks) Two SaltMakers: 3 x 12 - 20 inch diameter exhaust stacks (diameter may be changed depending on total length of exhaust stacks) 8' curb around entire perimeter of building Sump installed in low points on floor. Sized to allow sump pump and allow cleanout of pit as required for servicing Trench drain along length of building. Location of trench drain to be determined based on low points in existing floor. Sump return to feed pond via 2" ANSI connection. Details to be confirmed with AEM AEM to provide equipment required to lift all components of the Saltmaker into place. Saltworks notes assembly risk to AEM lifting frames in place within the Megadome. AEM to plan machinery on site capable and if needed the rent road would be removed. Saltworks proceeded with layout design on this basis.								
Assembly	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONAL: ± 1/16 INCHES ANGULAR: MACH ± 1° TWO DECIMAL PLACES ± 0.01 THREE DECIMAL PLACES ± 0.001								



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UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 FRACTIONAL: ± 1/16 INCHES
 ANGULAR: MACH ± 1°
 TWO DECIMAL PLACES ± 0.01
 THREE DECIMAL PLACES ± 0.001

SALTMAKER CAD

PLANT EQUIPMENT POINT LOADS

REVISIONS

NO

DATE

BY

REVISIONS



SALTMAKER 1 (SM1)
REVISION N

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				K	23-FEB-2018	NO CHANGES	-							
				L	16-MAR-2018	AS MARKED BY REVISION CLOUDS	JLAU	PREPARED BY:	JLAU	DATE:	1-SEP-2017	DWG. NO:	COVER SHEET	
				M	20-APR-2018	AS MARKED BY REVISION CLOUDS	JLAU	CHECKED BY:	MLOW	DATE:	5-SEP-2017	JOB/CO NO:	(JOB NO.)	
							APPROVED BY:	APPROVED BY	DATE:	APPROVED DATE	SHEET:	# OF #		
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DRAWING LIST 1

SHEET NO.	DRAWING NO.	DESCRIPTION	SHEET NO.	DRAWING NO.	DESCRIPTION
		COVER SHEET	35	SW_EN_SM_AEM-01_PID_SM1_DWG_230	EFFECT 3 TANK AND PUMPS
		DRAWING LIST 1	36	SW_EN_SM_AEM-01_PID_SM1_DWG_231	EFFECT 3 MODULES
		DRAWING LIST 2	37	SW_EN_SM_AEM-01_PID_SM1_DWG_232	EFFECT 3 SOLIDS EXTRACTION
		LEGEND	38	SW_EN_SM_AEM-01_PID_SM1_DWG_233	EFFECT 3 PUMP SEAL FLUSH
			39	SW_EN_SM_AEM-01_PID_SM1_DWG_234	EFFECT 3 AIR SEALS
		<u>COMMON</u>			
1	SW_EN_SM_AEM-01_PID_COMMON_DWG_000	MASTER PFD	40	SW_EN_SM_AEM-01_PID_SM1_DWG_240	EFFECT 4 TANK AND PUMPS
2	SW_EN_SM_AEM-01_PID_COMMON_DWG_010	PROCESS FLOW DIAGRAM	41	SW_EN_SM_AEM-01_PID_SM1_DWG_241	EFFECT 4 MODULES
3	SW_EN_SM_AEM-01_PID_COMMON_DWG_020	CONTAINER LAYOUT	42	SW_EN_SM_AEM-01_PID_SM1_DWG_243	EFFECT 4 PUMP SEAL FLUSH
4	SW_EN_SM_AEM-01_PID_COMMON_DWG_030	MODULES LAYOUT	43	SW_EN_SM_AEM-01_PID_SM1_DWG_244	EFFECT 4 AIR SEALS
5	SW_EN_SM_AEM-01_PID_COMMON_DWG_040	PLANT FEED TANKS			
6	SW_EN_SM_AEM-01_PID_COMMON_DWG_041	PLANT FEED PUMP SKIDS	44	SW_EN_SM_AEM-01_PID_SM1_DWG_250	EFFECT 5 TANK AND PUMPS
7	SW_EN_SM_AEM-01_PID_COMMON_DWG_050	CLEAN RESERVE AND BLOWDOWN SYSTEMS	45	SW_EN_SM_AEM-01_PID_SM1_DWG_251	EFFECT 5 MODULES
8	SW_EN_SM_AEM-01_PID_COMMON_DWG_060	ACID DOSING SYSTEM	46	SW_EN_SM_AEM-01_PID_SM1_DWG_253	EFFECT 5 PUMP SEAL FLUSH
9	SW_EN_SM_AEM-01_PID_COMMON_DWG_061	BASE DOSING SYSTEM	47	SW_EN_SM_AEM-01_PID_SM1_DWG_254	EFFECT 5 AIR SEALS
10	SW_EN_SM_AEM-01_PID_COMMON_DWG_062	BIOCIDE DOSING SYSTEM			
11	SW_EN_SM_AEM-01_PID_COMMON_DWG_063	ANTIFOAM DOSING SYSTEM			<u>THERMAL SYSTEM</u>
12	SW_EN_SM_AEM-01_PID_COMMON_DWG_064	ANTISCALANT DOSING SYSTEM	48	SW_EN_SM_AEM-01_PID_DWG_310	THERMAL SKID: WATER LOOP
13	SW_EN_SM_AEM-01_PID_COMMON_DWG_070	UTILITY WATER DISTRIBUTION	49	SW_EN_SM_AEM-01_PID_DWG_311	THERMAL SKID: WATER LOOP
			50	SW_EN_SM_AEM-01_PID_DWG_312	THERMAL SKID: GYLCOL LOOP
		<u>SALTMAKER 1 (SM1)</u>			
14	SW_EN_SM_AEM-01_PID_SM1_DWG_110	THERMAL SOURCE PRIMARY HEAT EXCHANGERS			<u>POST TREATMENT</u>
15	SW_EN_SM_AEM-01_PID_SM1_DWG_120	CONDENSED WATER SYSTEM	51	SW_EN_SM_AEM-01_PID_COMMON_DWG_320	NITRITE DESTRUCTION AND RO PC SYSTEM
16	SW_EN_SM_AEM-01_PID_SM1_DWG_130	FEED DISTRIBUTION	52	SW_EN_SM_AEM-01_PID_COMMON_DWG_321	AMMONIA DESTRUCTION SYSTEM
17	SW_EN_SM_AEM-01_PID_SM1_DWG_150	CIP TANKS	53	SW_EN_SM_AEM-01_PID_COMMON_DWG_322	RO BRINE FLUSH TANK
18	SW_EN_SM_AEM-01_PID_SM1_DWG_151	CIP PUMP SKID	54	SW_EN_SM_AEM-01_PID_COMMON_DWG_323	TREATED WATER TANK
19	SW_EN_SM_AEM-01_PID_SM1_DWG_160	EFFECT HOLD 1			
20	SW_EN_SM_AEM-01_PID_SM1_DWG_161	EFFECT HOLD 2			<u>COMPRESSED AIR-COMMON PACKAGE</u>
21	SW_EN_SM_AEM-01_PID_SM1_DWG_162	SYSTEM HOLD	55	SW_EN_SM_AEM-01_PID_COMPRESSED_AIR-COMMON_DWG_400	COMPRESSED AIR SYSTEM
22	SW_EN_SM_AEM-01_PID_SM1_DWG_163	CALCIUM EXTRACTION	56	SW_EN_SM_AEM-01_PID_COMPRESSED_AIR-COMMON_DWG_401	AMMONIA DES, BRINE BLOWDOWN AND PLANT FEED AIR
23	SW_EN_SM_AEM-01_PID_SM1_DWG_164	EH1 SOLIDS EXTRACTION	57	SW_EN_SM_AEM-01_PID_COMPRESSED_AIR-COMMON_DWG_402	CHEMICAL DOSING AND ANCILLARY STAND PIPE AIR
24	SW_EN_SM_AEM-01_PID_SM1_DWG_165	EH2 SOLIDS EXTRACTION	58	SW_EN_SM_AEM-01_PID_COMPRESSED_AIR-COMMON_DWG_403	COMMON AND POST TREATMENT AIR BANK 1
25	SW_EN_SM_AEM-01_PID_SM1_DWG_180	DRIP TRAYS	59	SW_EN_SM_AEM-01_PID_COMPRESSED_AIR-COMMON_DWG_404	COMMON AND POST TREATMENT AIR BANK 2
26	SW_EN_SM_AEM-01_PID_SM1_DWG_210	EFFECT 1 TANK AND PUMPS			
27	SW_EN_SM_AEM-01_PID_SM1_DWG_211	EFFECT 1 MODULES			<u>COMPRESSED AIR-SM1</u>
28	SW_EN_SM_AEM-01_PID_SM1_DWG_213	EFFECT 1 PUMP SEAL FLUSH	60	SW_EN_SM_AEM-01_PID_COMPRESSED_AIR-SM1_DWG_410	SM INSTRUMENT AND PROCESS AIR
29	SW_EN_SM_AEM-01_PID_SM1_DWG_214	EFFECT 1 AIR SEALS	61	SW_EN_SM_AEM-01_PID_COMPRESSED_AIR-SM1_DWG_411	EH1/EH2 EXTRACT AND CIP AIR
30	SW_EN_SM_AEM-01_PID_SM1_DWG_220	EFFECT 2 TANK AND PUMPS			
31	SW_EN_SM_AEM-01_PID_SM1_DWG_221	EFFECT 2 MODULES			
32	SW_EN_SM_AEM-01_PID_SM1_DWG_222	EFFECT 2 SOLIDS EXTRACTION			
33	SW_EN_SM_AEM-01_PID_SM1_DWG_223	EFFECT 2 PUMP SEAL FLUSH			
34	SW_EN_SM_AEM-01_PID_SM1_DWG_224	EFFECT 2 AIR SEALS			



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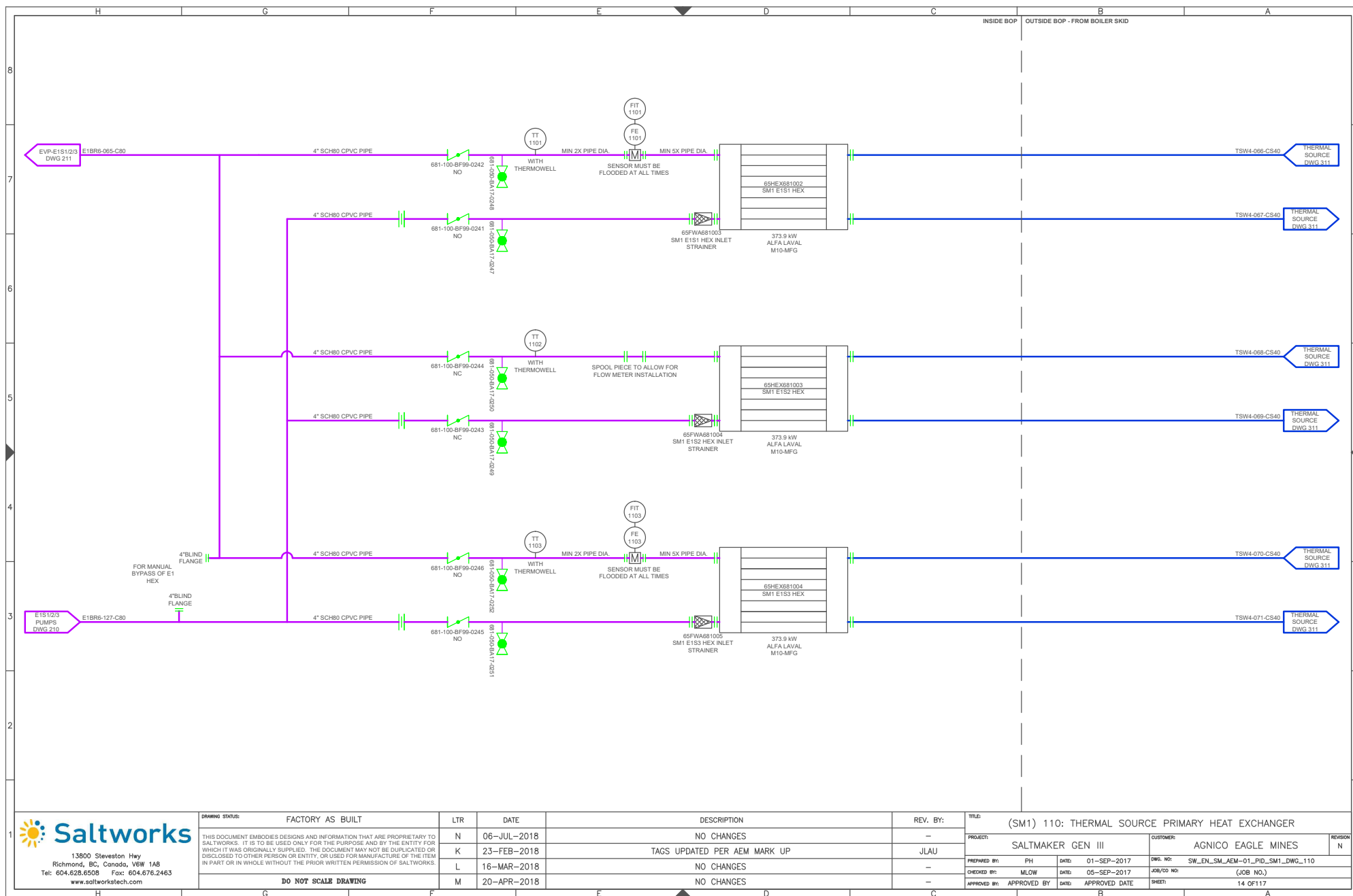
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		K	23-FEB-2018	NO CHANGES	—	PREPARED BY:	JLAU	DATE:	01-SEP-2017	DWG. NO:	DRAWING LIST 1
		L	16-MAR-2018	NO CHANGES	—	CHECKED BY:	MLOW	DATE:	05-SEP-2017	JOB/CD NO:	(JOB NO.)
		M	20-APR-2018	NO CHANGES	—	APPROVED BY:	APPROVED BY	DATE:	APPROVED DATE	SHEET:	# OF #
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DRAWING LIST 2

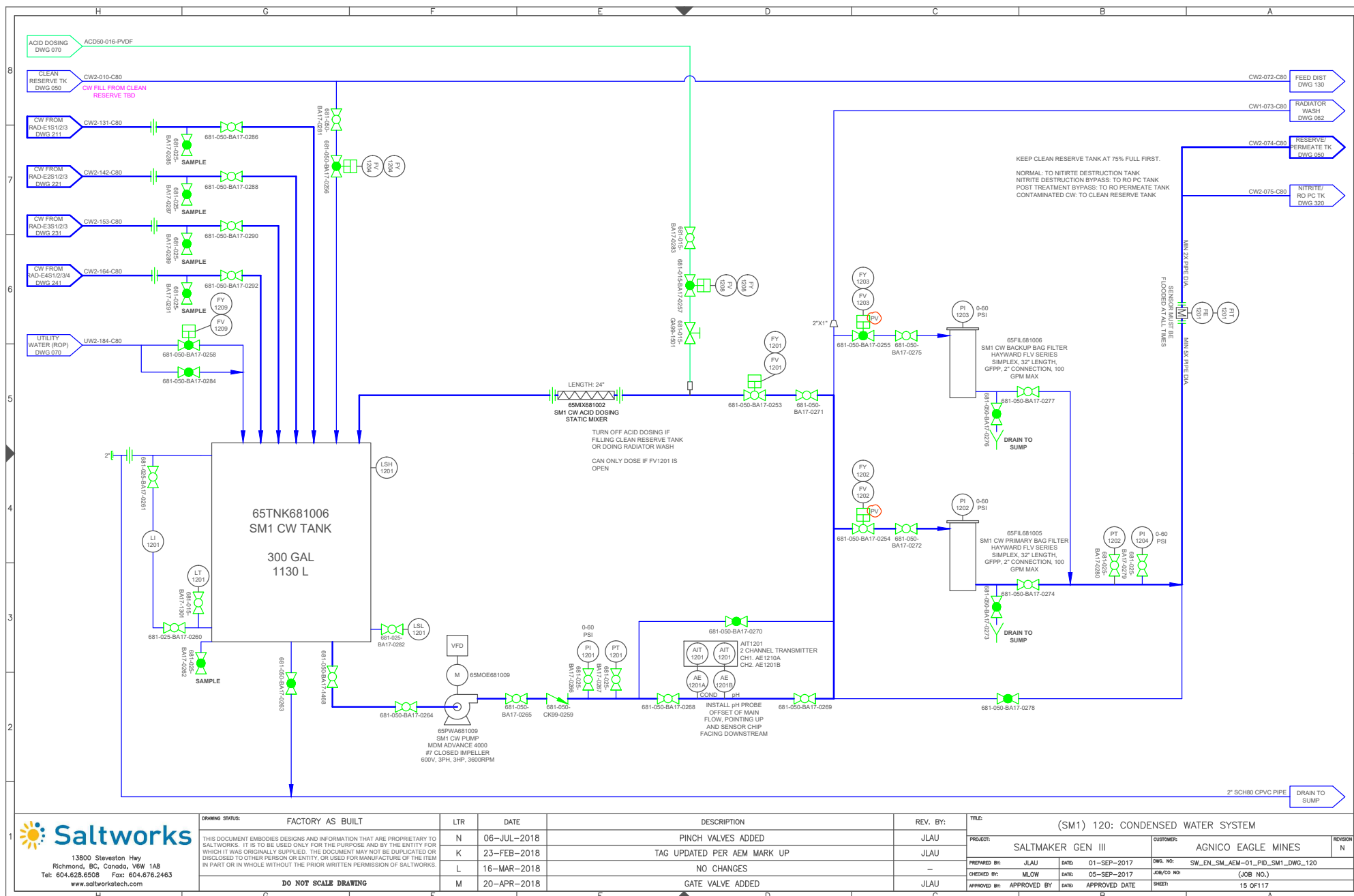
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62	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_412	EH1/EH2 EXTRACT AND CIP AIR	84	SW_EN_SM_AEM-01_PID_SM2_DWG_510	SALTMAKER 2 (SM2)
63	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_413	PLUG PREVENTION PUMP AIR	85	SW_EN_SM_AEM-01_PID_SM2_DWG_520	THERMAL SOURCE PRIMARY HEAT EXCHANGERS
64	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_414	AIR SEAL, STAND PIPE AND E2/E3 SE AIR	86	SW_EN_SM_AEM-01_PID_SM2_DWG_530	CONDENSED WATER SYSTEM
65	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_415	UTILITY AIR	87	SW_EN_SM_AEM-01_PID_SM2_DWG_550	FEED DISTRIBUTION
66	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_416	BOP1 AIR SOLENOID BANK	88	SW_EN_SM_AEM-01_PID_SM2_DWG_551	CIP TANKS
67	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_417	E2/E3 SE AIR SOLENOID BANK	89	SW_EN_SM_AEM-01_PID_SM2_DWG_560	CIP PUMP SKID
68	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_418	BOP2 AIR SOLENOID BANK	90	SW_EN_SM_AEM-01_PID_SM2_DWG_561	EFFECT HOLD 1
69	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_419	BOP3 AIR SOLENOID BANK	91	SW_EN_SM_AEM-01_PID_SM2_DWG_562	EFFECT HOLD 2
70	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_420	CIP, EH/SY AIR SOLENOID BANK	92	SW_EN_SM_AEM-01_PID_SM2_DWG_563	SYSTEM HOLD
71	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_421	H1/H2 SE AIR SOLENOID BANK	93	SW_EN_SM_AEM-01_PID_SM2_DWG_564	CALCIUM EXTRACTION
			94	SW_EN_SM_AEM-01_PID_SM2_DWG_565	EH1 SOLIDS EXTRACTION
			95	SW_EN_SM_AEM-01_PID_SM2_DWG_580	EH2 SOLIDS EXTRACTION
					DRIP TRAYS
			96	SW_EN_SM_AEM-01_PID_SM2_DWG_610	EFFECT 1 TANK AND PUMPS
			97	SW_EN_SM_AEM-01_PID_SM2_DWG_611	EFFECT 1 MODULES
			98	SW_EN_SM_AEM-01_PID_SM2_DWG_613	EFFECT 1 PUMP SEAL FLUSH
			99	SW_EN_SM_AEM-01_PID_SM2_DWG_614	EFFECT 1 AIR SEALS
			100	SW_EN_SM_AEM-01_PID_SM2_DWG_620	EFFECT 2 TANK AND PUMPS
			101	SW_EN_SM_AEM-01_PID_SM2_DWG_621	EFFECT 2 MODULES
72	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_450	COMPRESSED AIR-SM2 SM INSTRUMENT AND PROCESS AIR	102	SW_EN_SM_AEM-01_PID_SM2_DWG_622	EFFECT 2 SOLIDS EXTRACTION
73	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_451	EH1/EH2 EXTRACT AND CIP AIR	103	SW_EN_SM_AEM-01_PID_SM2_DWG_623	EFFECT 2 PUMP SEAL FLUSH
74	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_452	EFFECT/SYSTEM HOLD AND CAL EXTRACTION AIR	104	SW_EN_SM_AEM-01_PID_SM2_DWG_624	EFFECT 2 AIR SEALS
75	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_453	PLUG PREVENTION PUMP AIR	105	SW_EN_SM_AEM-01_PID_SM2_DWG_630	EFFECT 3 TANK AND PUMPS
76	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_454	AIR SEAL, STAND PIPE AND E2/E3 SE AIR	106	SW_EN_SM_AEM-01_PID_SM2_DWG_631	EFFECT 3 MODULES
77	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_455	UTILITY AIR	107	SW_EN_SM_AEM-01_PID_SM2_DWG_632	EFFECT 3 SOLIDS EXTRACTION
78	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_456	BOP1 AIR SOLENOID BANK	108	SW_EN_SM_AEM-01_PID_SM2_DWG_633	EFFECT 3 PUMP SEAL FLUSH
79	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_457	E2/E3 SE AIR SOLENOID BANK	109	SW_EN_SM_AEM-01_PID_SM2_DWG_634	EFFECT 3 AIR SEALS
80	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_458	BOP2 AIR SOLENOID BANK	110	SW_EN_SM_AEM-01_PID_SM2_DWG_640	EFFECT 4 TANK AND PUMPS
81	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_459	BOP3 AIR SOLENOID BANK	111	SW_EN_SM_AEM-01_PID_SM2_DWG_641	EFFECT 4 MODULES
82	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_460	CIP, EH/SY AIR SOLENOID BANK	112	SW_EN_SM_AEM-01_PID_SM2_DWG_643	EFFECT 4 PUMP SEAL FLUSH
83	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_461	H1/H2 SE AIR SOLENOID BANK	113	SW_EN_SM_AEM-01_PID_SM2_DWG_644	EFFECT 4 AIR SEALS
			114	SW_EN_SM_AEM-01_PID_SM2_DWG_650	EFFECT 5 TANK AND PUMPS
			115	SW_EN_SM_AEM-01_PID_SM2_DWG_651	EFFECT 5 MODULES
			116	SW_EN_SM_AEM-01_PID_SM2_DWG_653	EFFECT 5 PUMP SEAL FLUSH
			117	SW_EN_SM_AEM-01_PID_SM2_DWG_654	EFFECT 5 AIR SEALS
					<u>VENDOR DRAWINGS</u>
				USW_17041_100D	POST TREATMENT RO

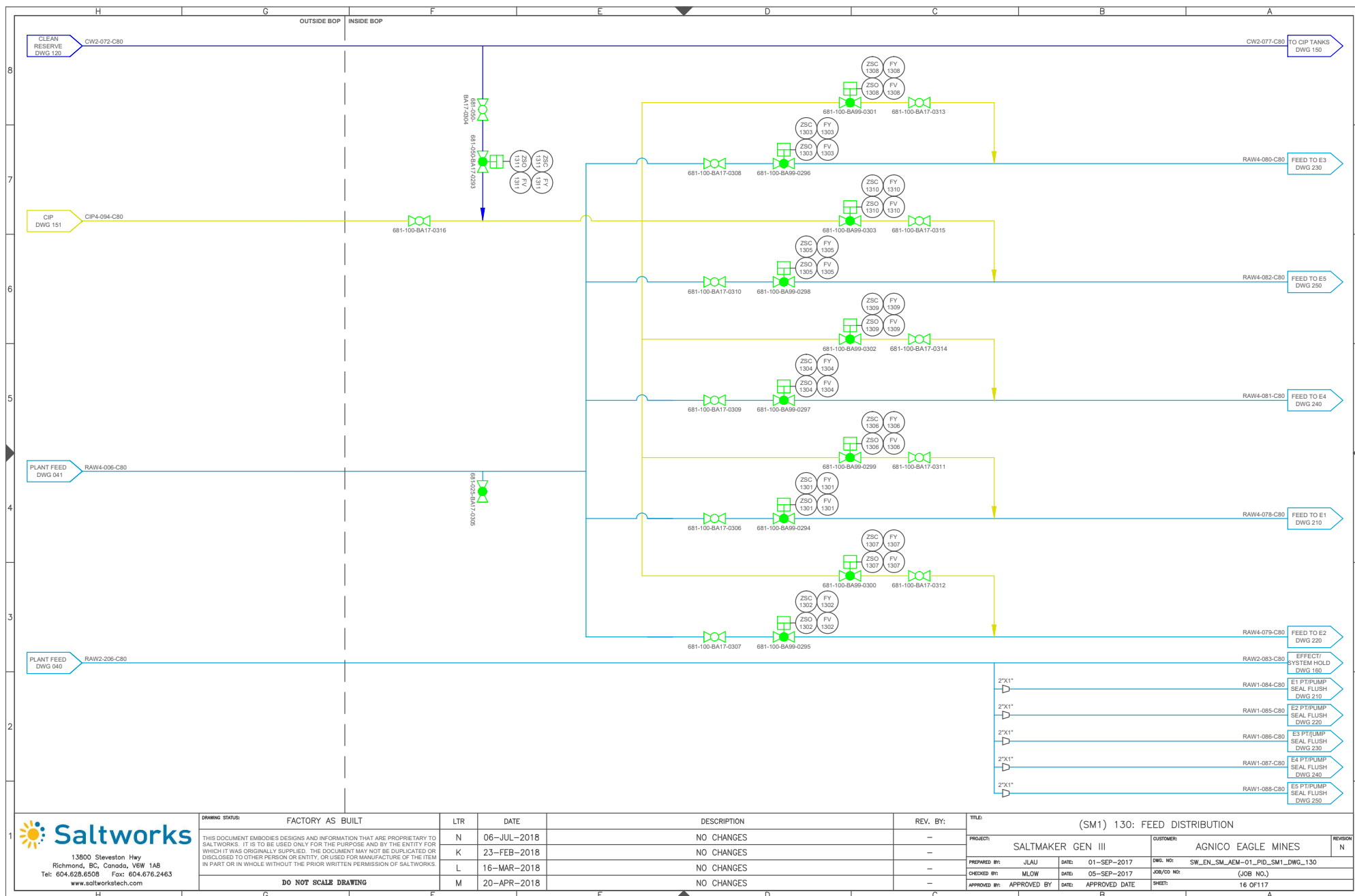
 13800 Steveston Hwy Richmond, BC, Canada, V6W 1A8 Tel: 604.628.6508 Fax: 604.676.2463 www.saltworkstech.com	DRAWING STATUS:	FACTORY AS BUILT	LTR	DATE	DESCRIPTION	REV. BY:	DRAWING LIST 2					
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		K	23-FEB-2018	NO CHANGES	—	DATE:		01-SEP-2017	DWG. NO:	DRAWING LIST 2		N
		L	16-MAR-2018	NO CHANGES	—	DATE:		05-SEP-2017	JOB/CO NO:	(JOB NO.)		
		M	20-APR-2018	NO CHANGES	—	DATE:		APPROVED DATE	SHEET:	# OF #		





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		K	23-FEB-2018	TAGS UPDATED PER AEM MARK UP	JLAU				
		L	16-MAR-2018	NO CHANGES	-				
		M	20-APR-2018	NO CHANGES	-				
						PREPARED BY:	PH	DATE:	01-SEP-2017
						CHECKED BY:	MLOW	DATE:	05-SEP-2017
						APPROVED BY:	APPROVED BY	DATE:	APPROVED DATE
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						SHEET:	14 OF 117		



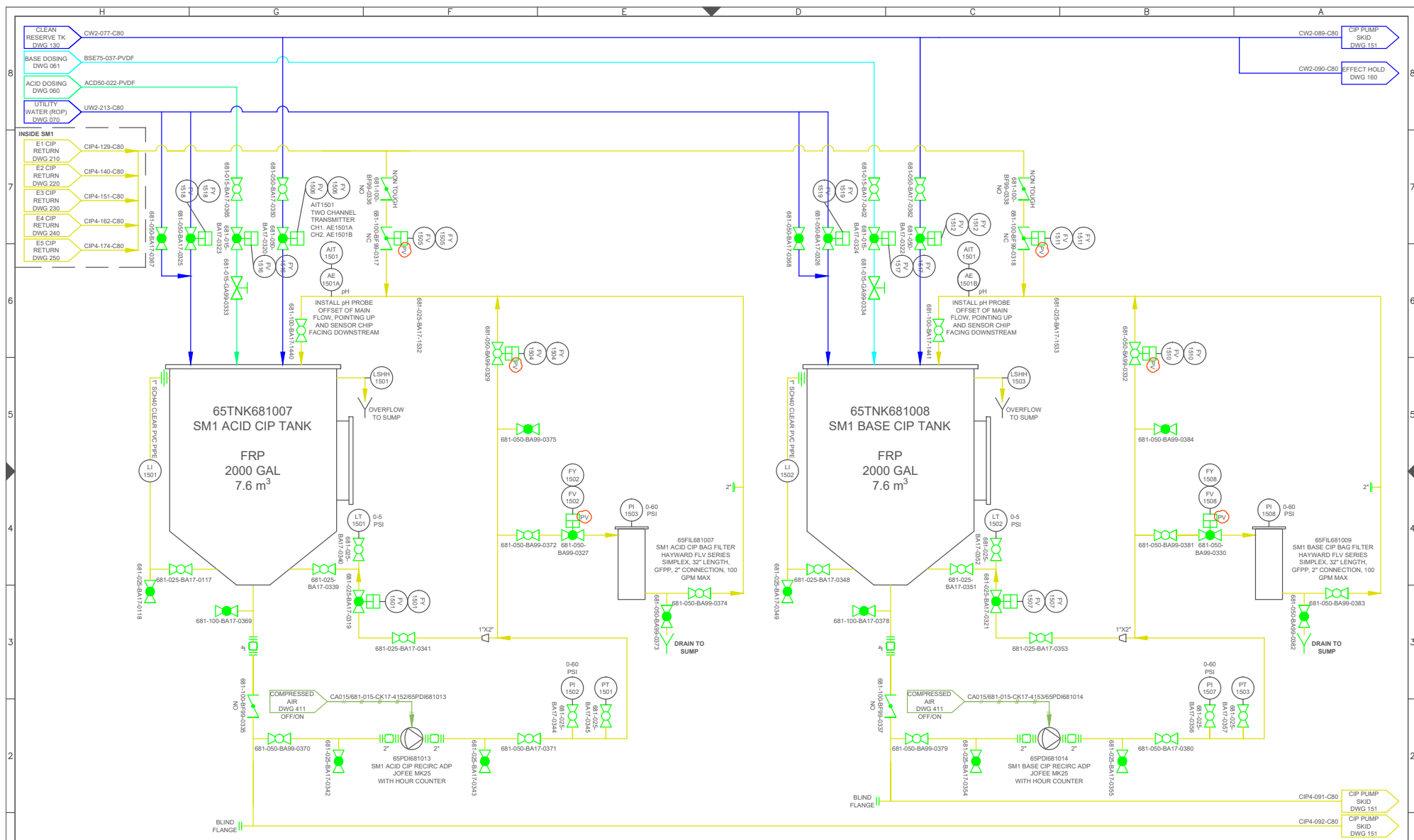


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N	06-JUL-2018
K	23-FEB-2018
L	16-MAR-2018
M	20-APR-2018

LTR	DATE	DESCRIPTION	REV. BY:
N	06-JUL-2018	NO CHANGES	-
K	23-FEB-2018	NO CHANGES	-
L	16-MAR-2018	NO CHANGES	-
M	20-APR-2018	NO CHANGES	-

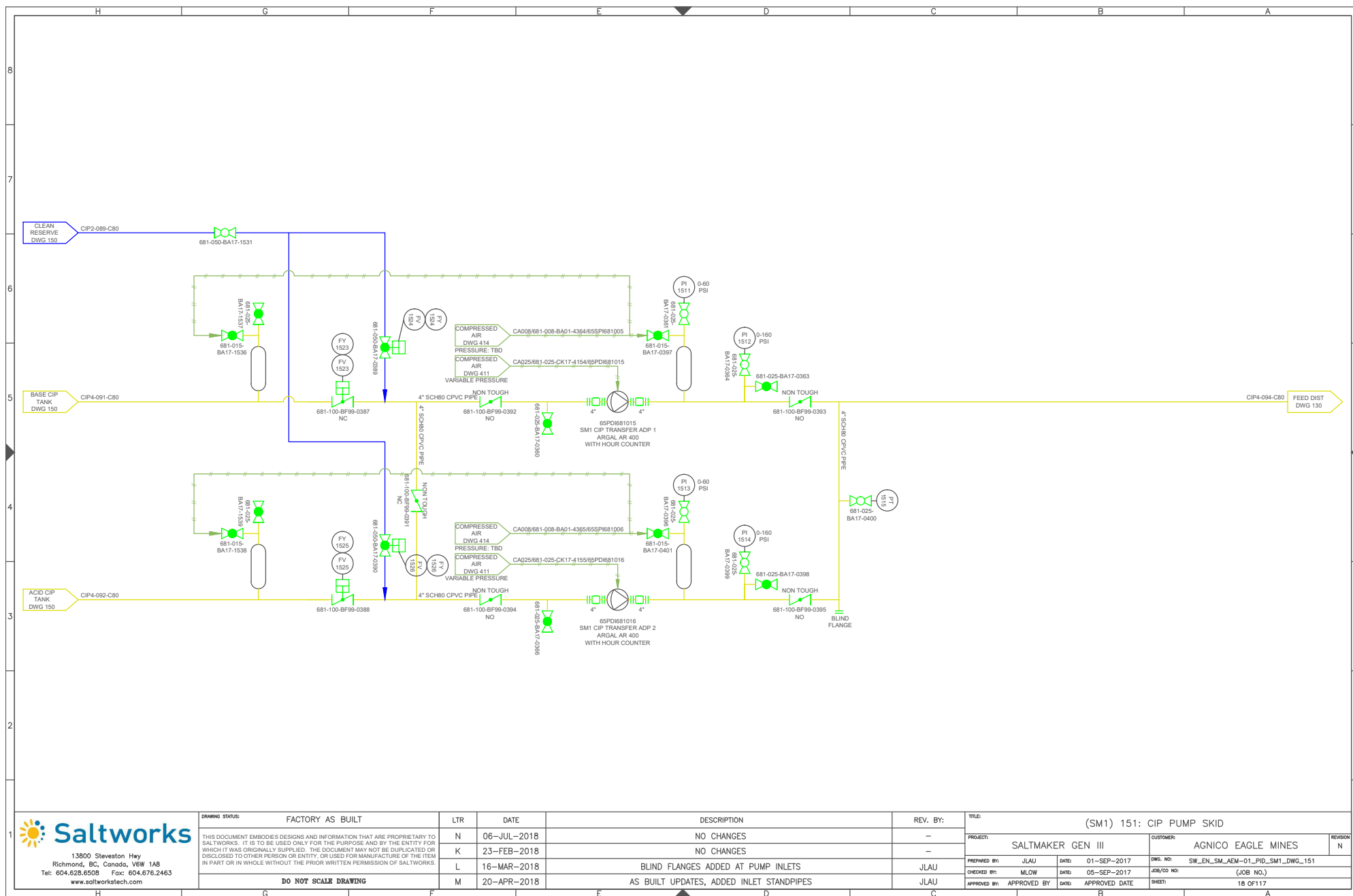
REV. BY:	TITLE: (SM1) 130: FEED DISTRIBUTION				
—	PROJECT: SALTMAKER GEN III			CUSTOMER: AGNICO EAGLE MINES	REVISION N
—	PREPARED BY: JLAU	DATE: 01-SEP-2017	DWG. NO: SW_EN_SM_AEM-01_PID_SM1_DWG_130		
—	CHECKED BY: MLOW	DATE: 05-SEP-2017	JOB/CD NO: (JOB NO.)		
—	APPROVED BY: APPROVED BY	DATE: APPROVED DATE	SHEET: 16 OF 117		

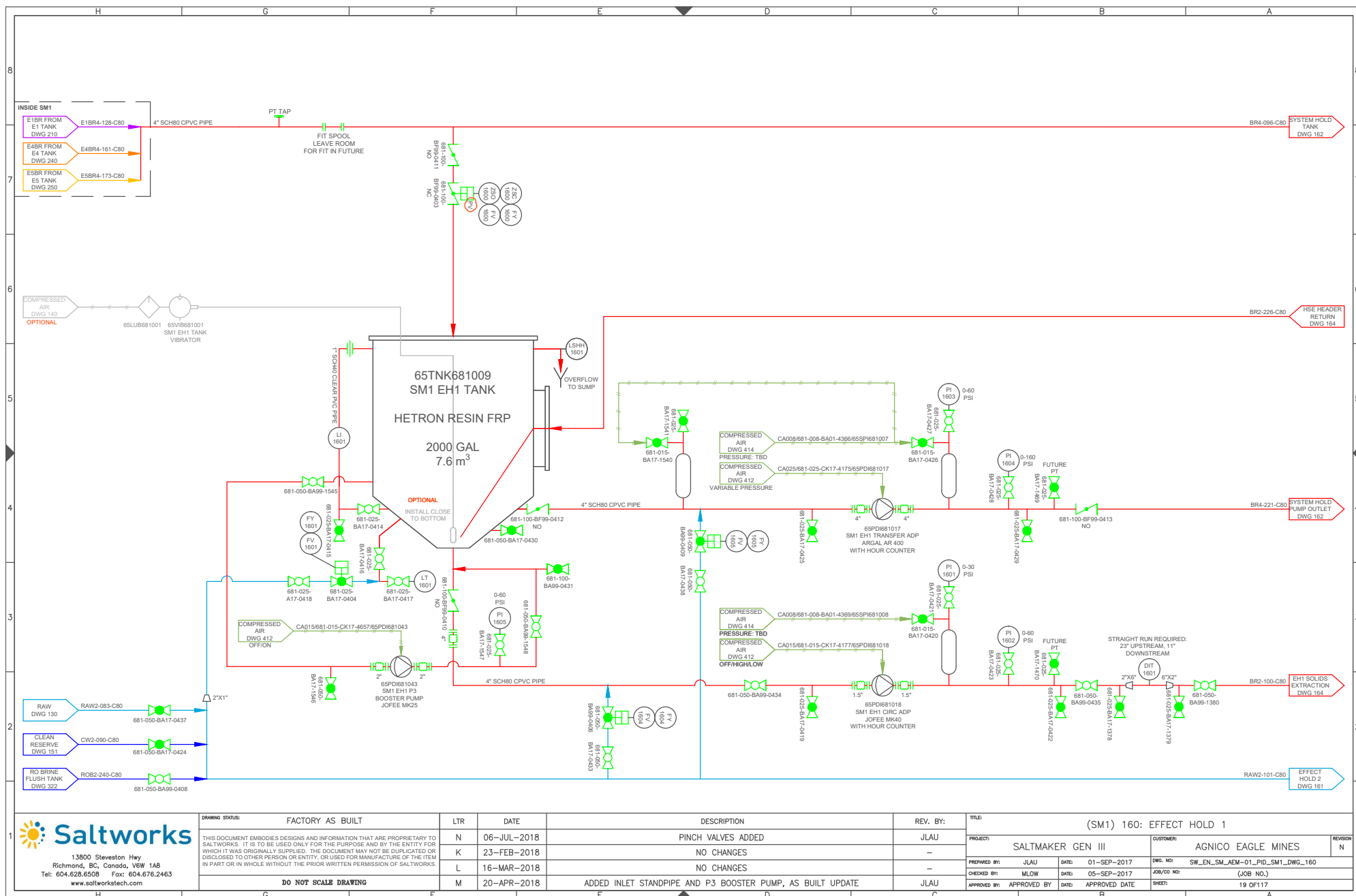


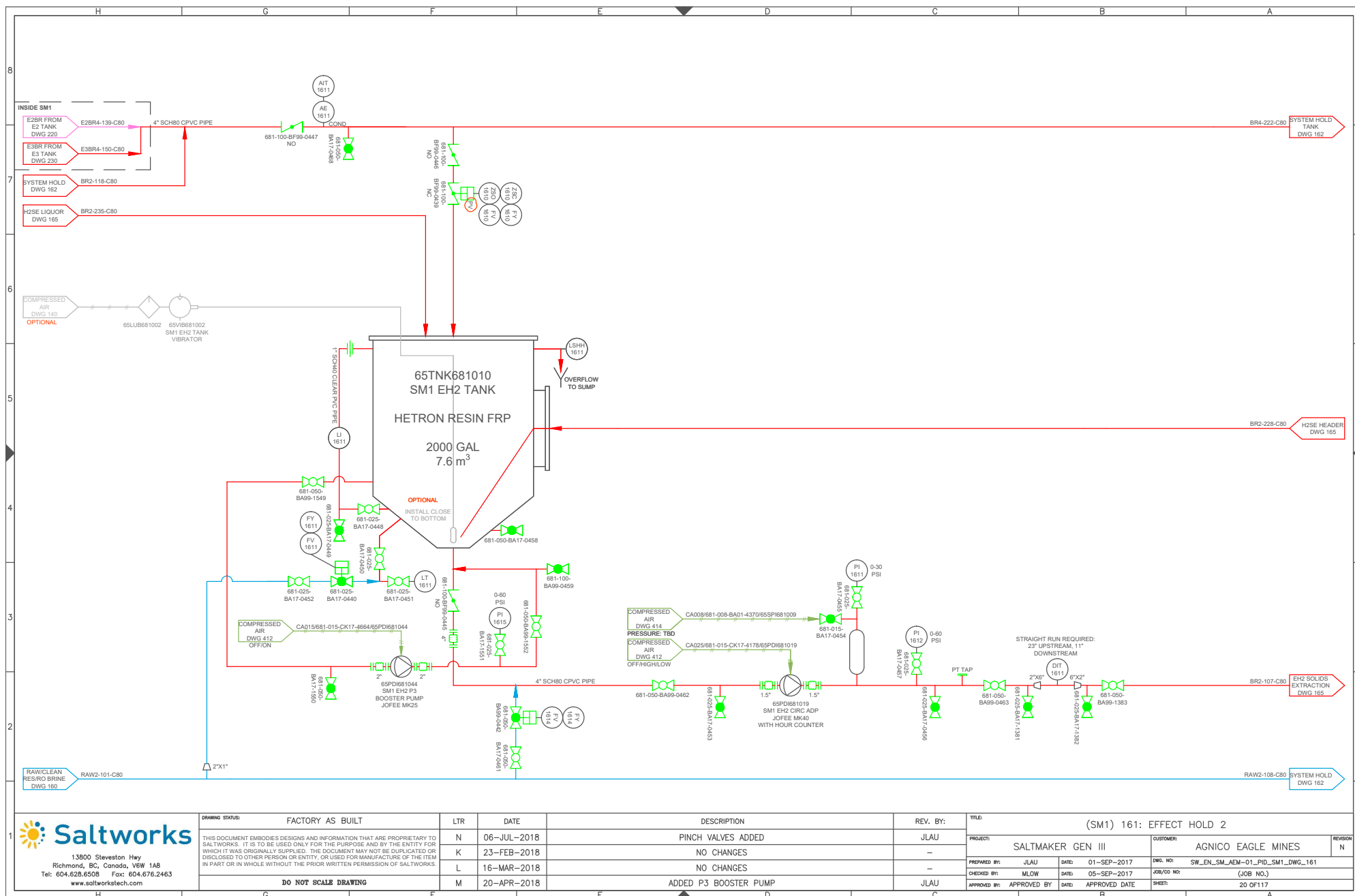
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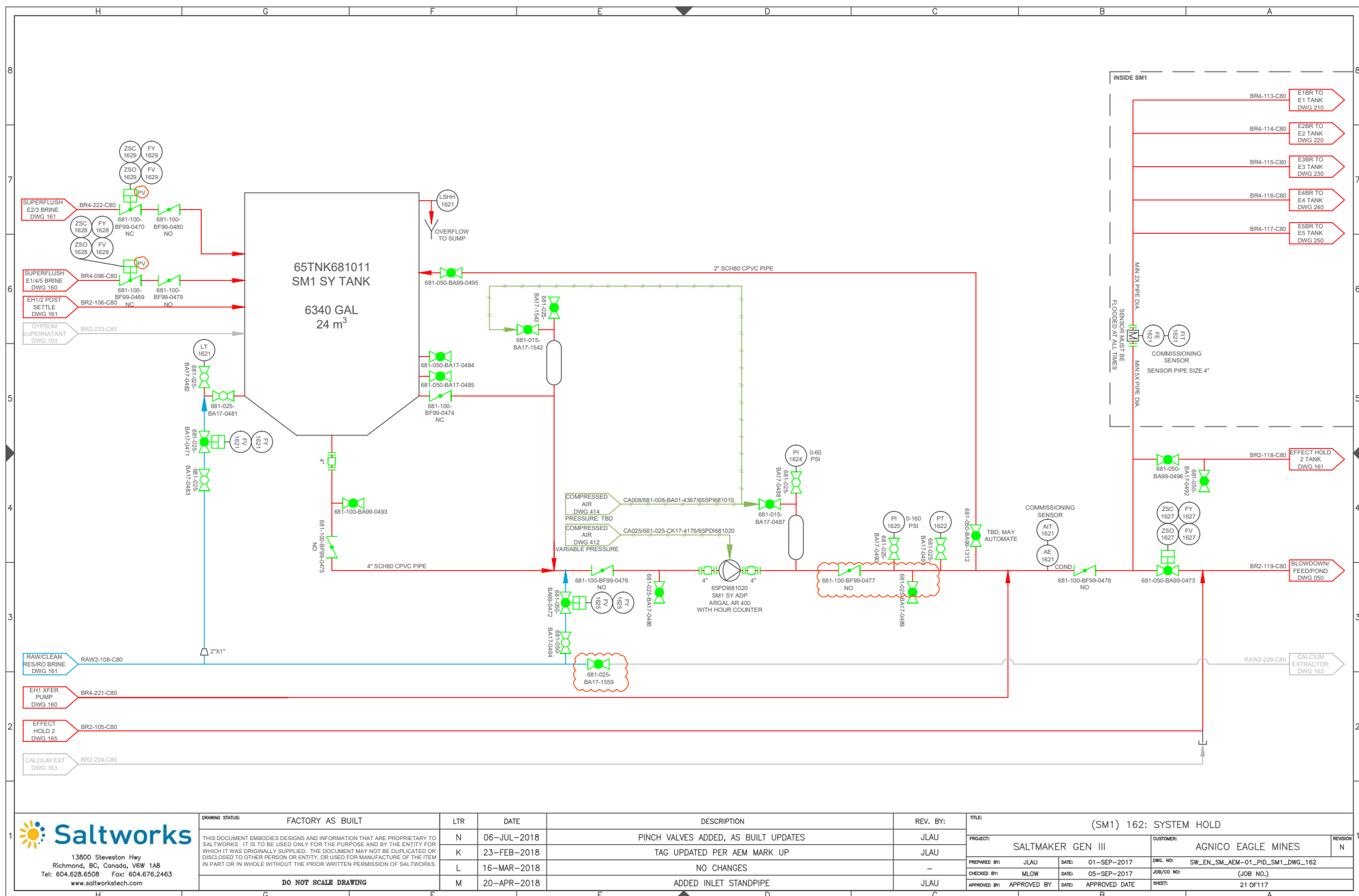
LTR	DATE	DESCRIPTION
N	06-JUL-2018	PINCH VALVES ADDED
K	23-FEB-2018	NO CHANGES
L	16-MAR-2018	RECIRC VALVES CHANGED TO NO
M	20-APR-2018	AS BUILT UPDATES

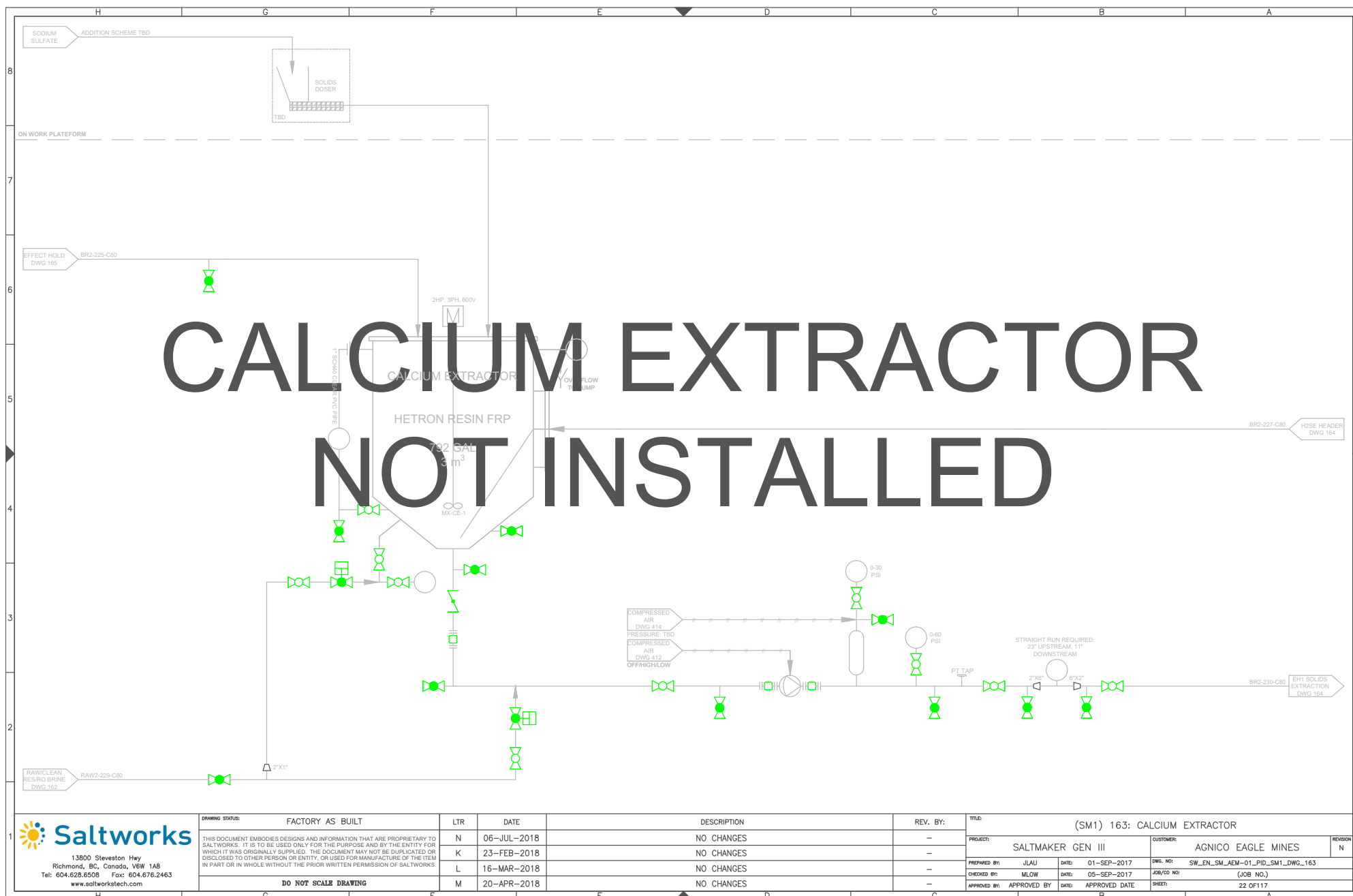
REV. BY:	TITLE:	PROJECT:	CUSTOMER:	REVISION
JLAU	(SM1) 150: CIP TANKS	SALTMAKER GEN III	AGNICO EAGLE MINES	N
JLAU		PREPARED BY:	DATE:	DWG. NO:
JLAU		DATE:	DATE:	150/00 NO:
JLAU		DATE:	DATE:	17 OF 117

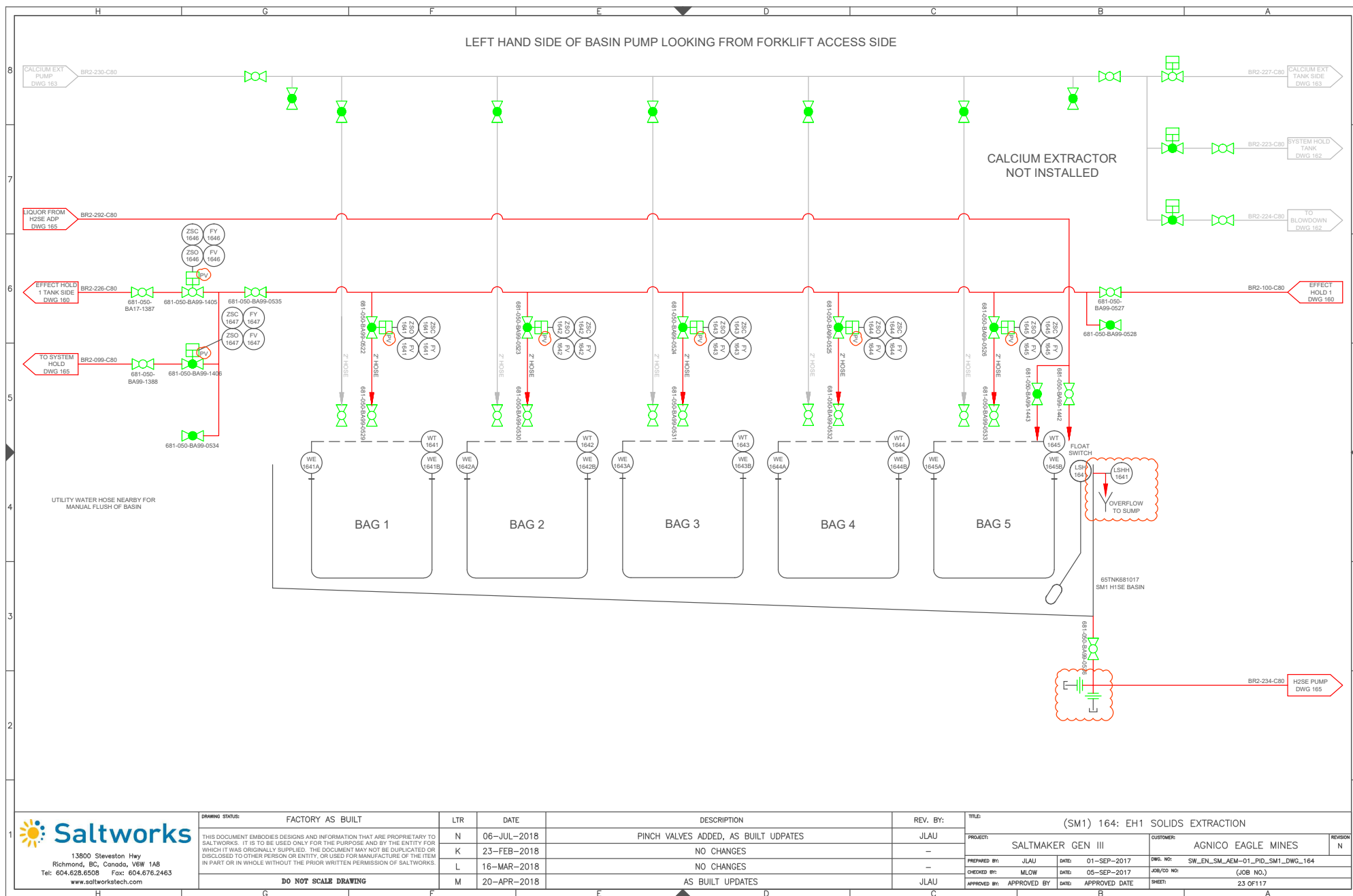




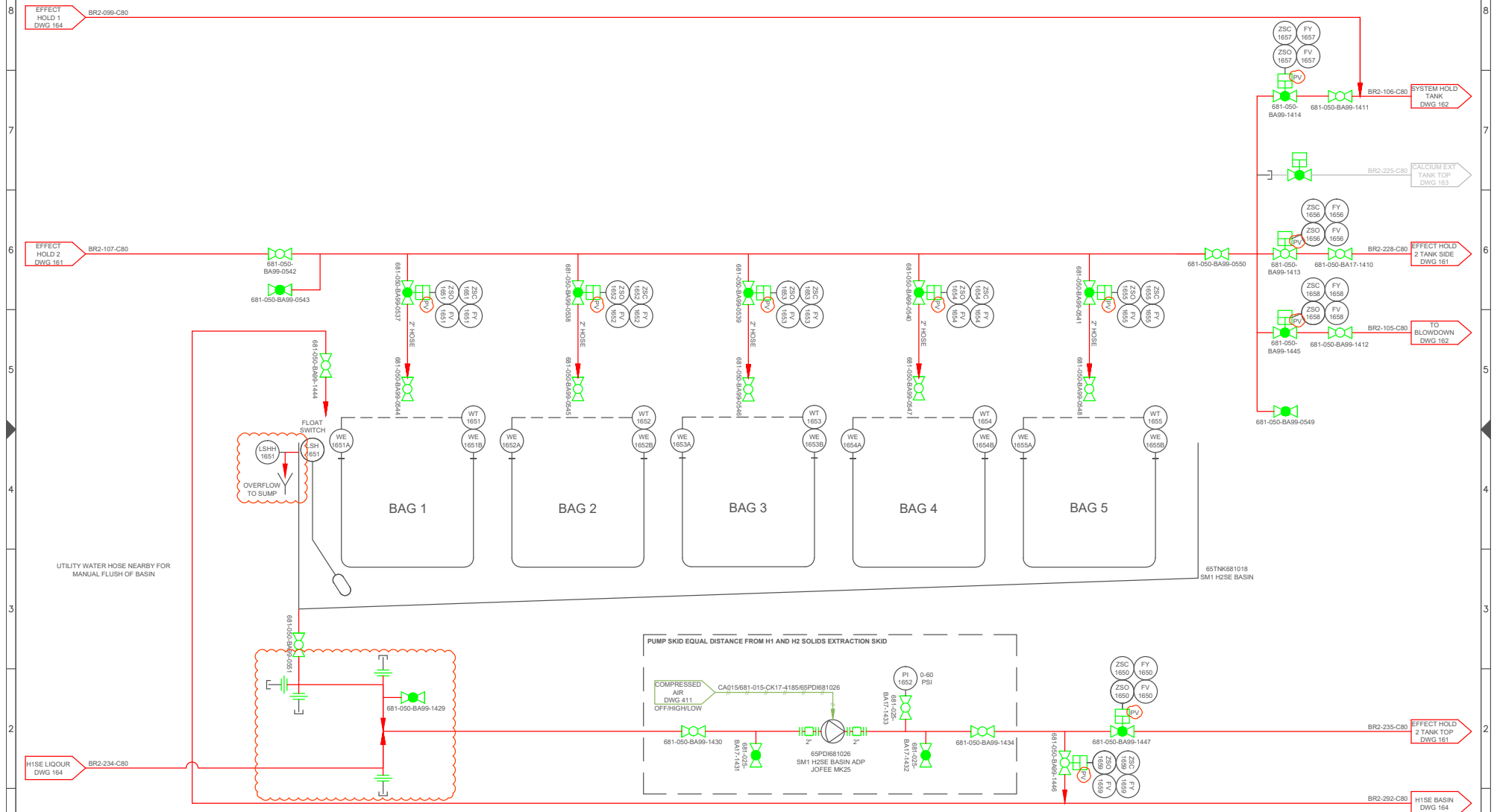








RIGHT HAND SIDE OF BASIN PUMP LOOKING FROM FORKLIFT ACCESS SIDE



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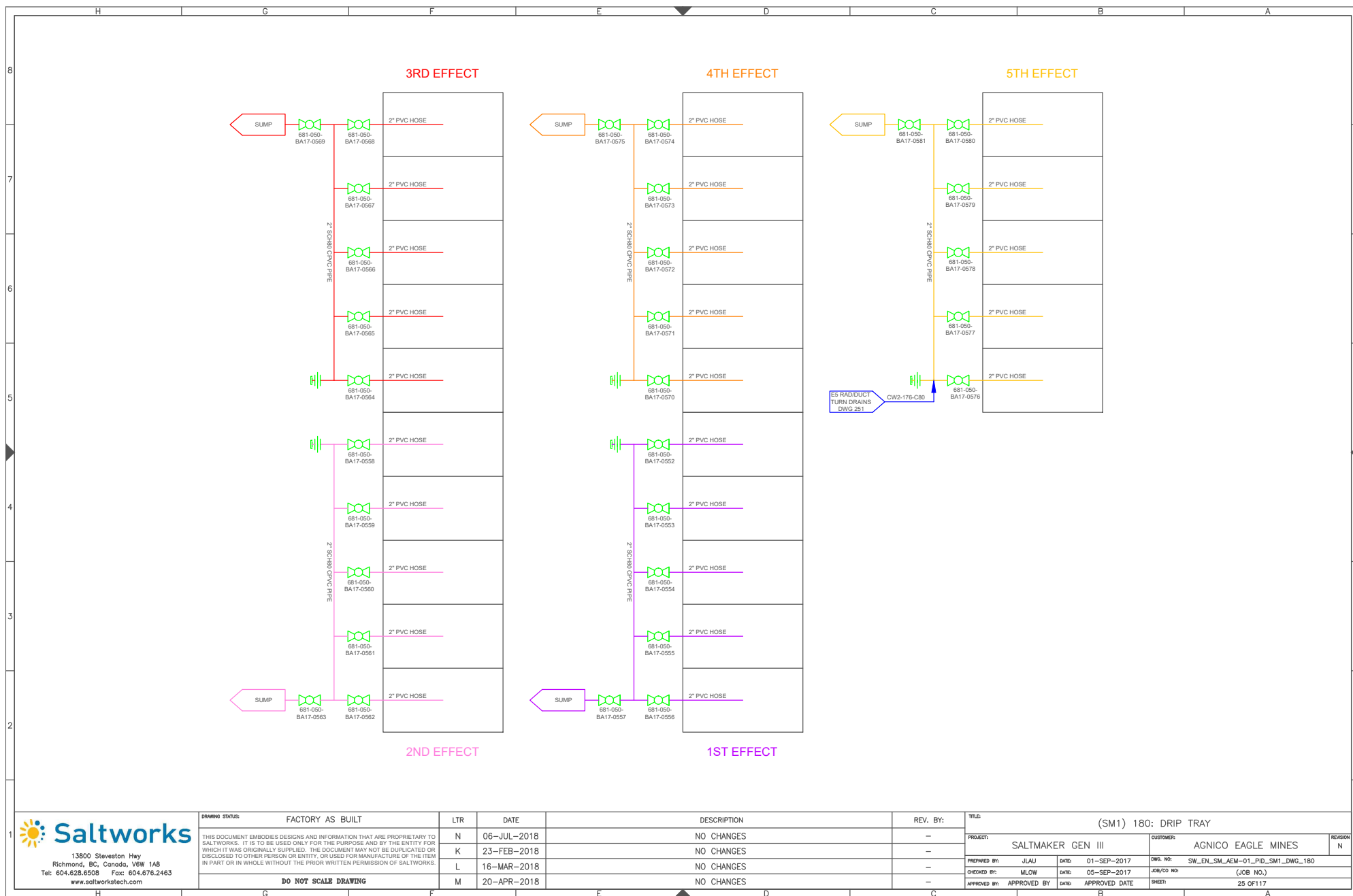
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DO NOT SCALE DRAWING

LTR	DATE	DESCRIPTION	REV. BY:
N	06-JUL-2018	PINCH VALVES ADDED, AS BUILT UPDATES	JLAU
K	23-FEB-2018	NO CHANGES	-
L	16-MAR-2018	NO CHANGES	-
M	20-APR-2018	NO CHANGES	-

TITLE: (SM1) 165: EH2 SOLIDS EXTRACTION

PROJECT:	CUSTOMER:	REVISION
SALTMAKER GEN III	AGNICO EAGLE MINES	N
PREPARED BY: JLAU	DATE: 01-SEP-2017	DWG. NO: SW_EN_SM_AEM-01_PID_SM1_DWG_165
CHECKED BY: MLOW	DATE: 05-SEP-2017	JOB/CO NO: (JOB NO.)
APPROVED BY: APPROVED BY	DATE: APPROVED DATE	SHEET: 24 OF 117

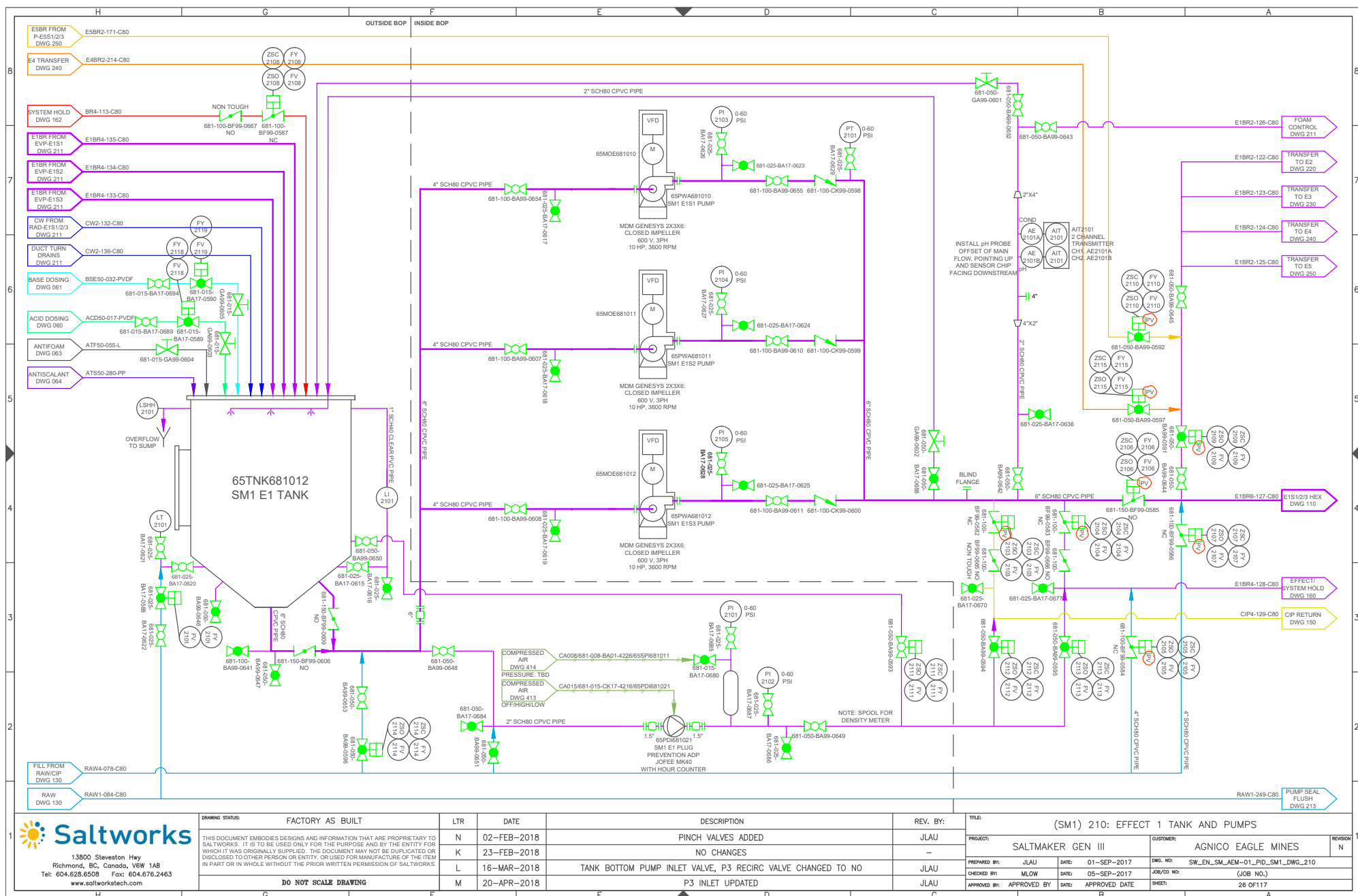


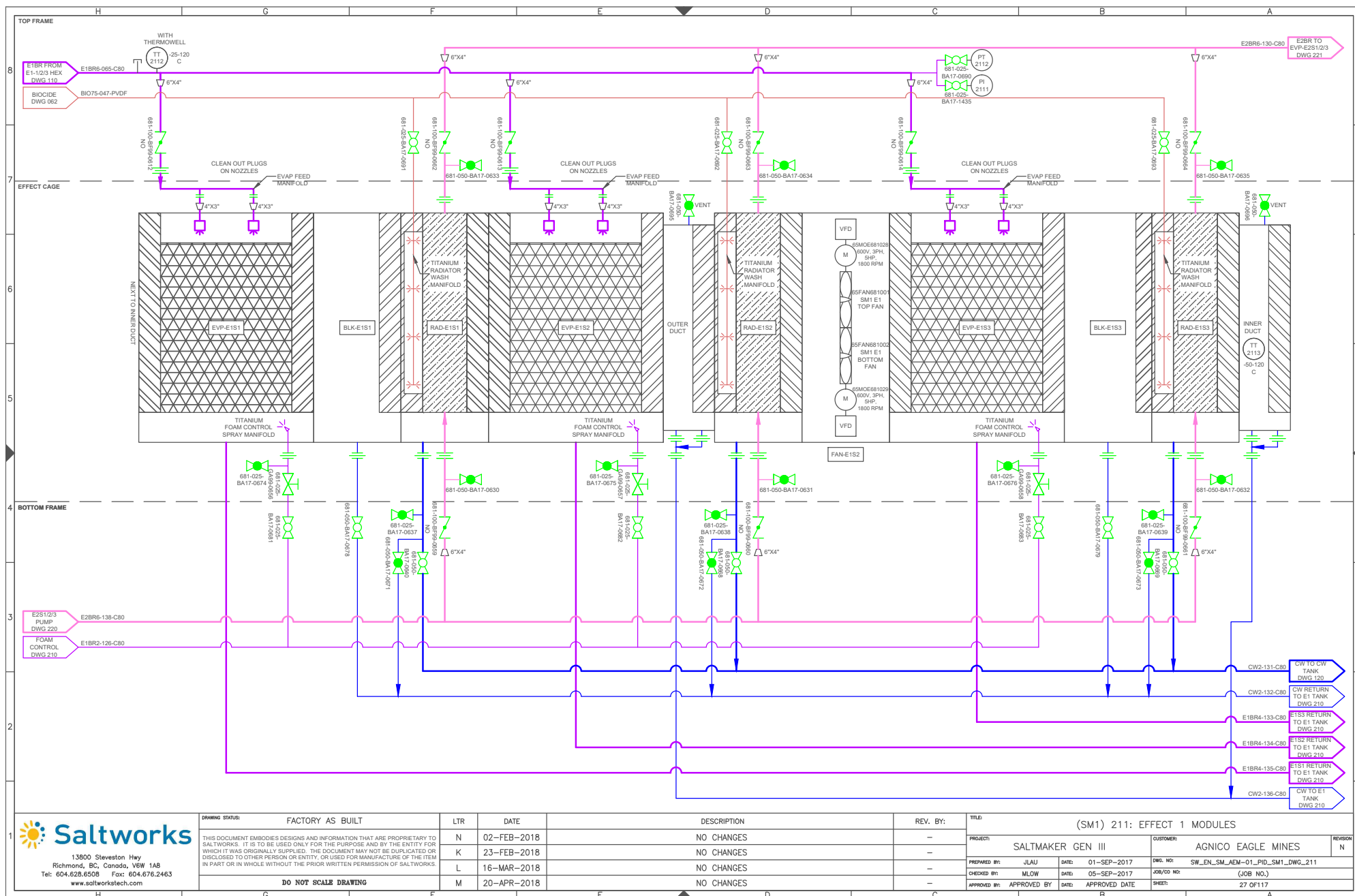
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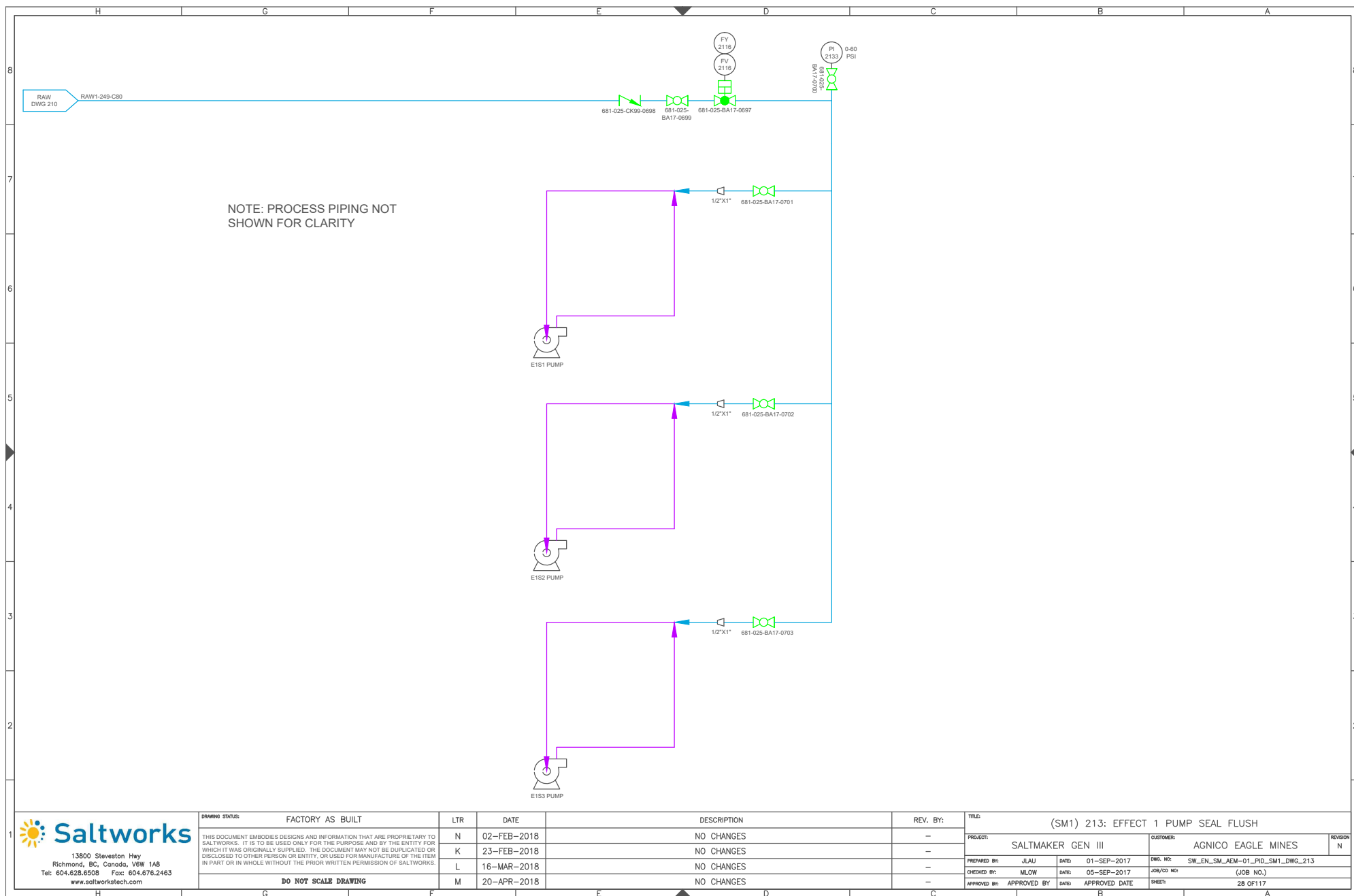
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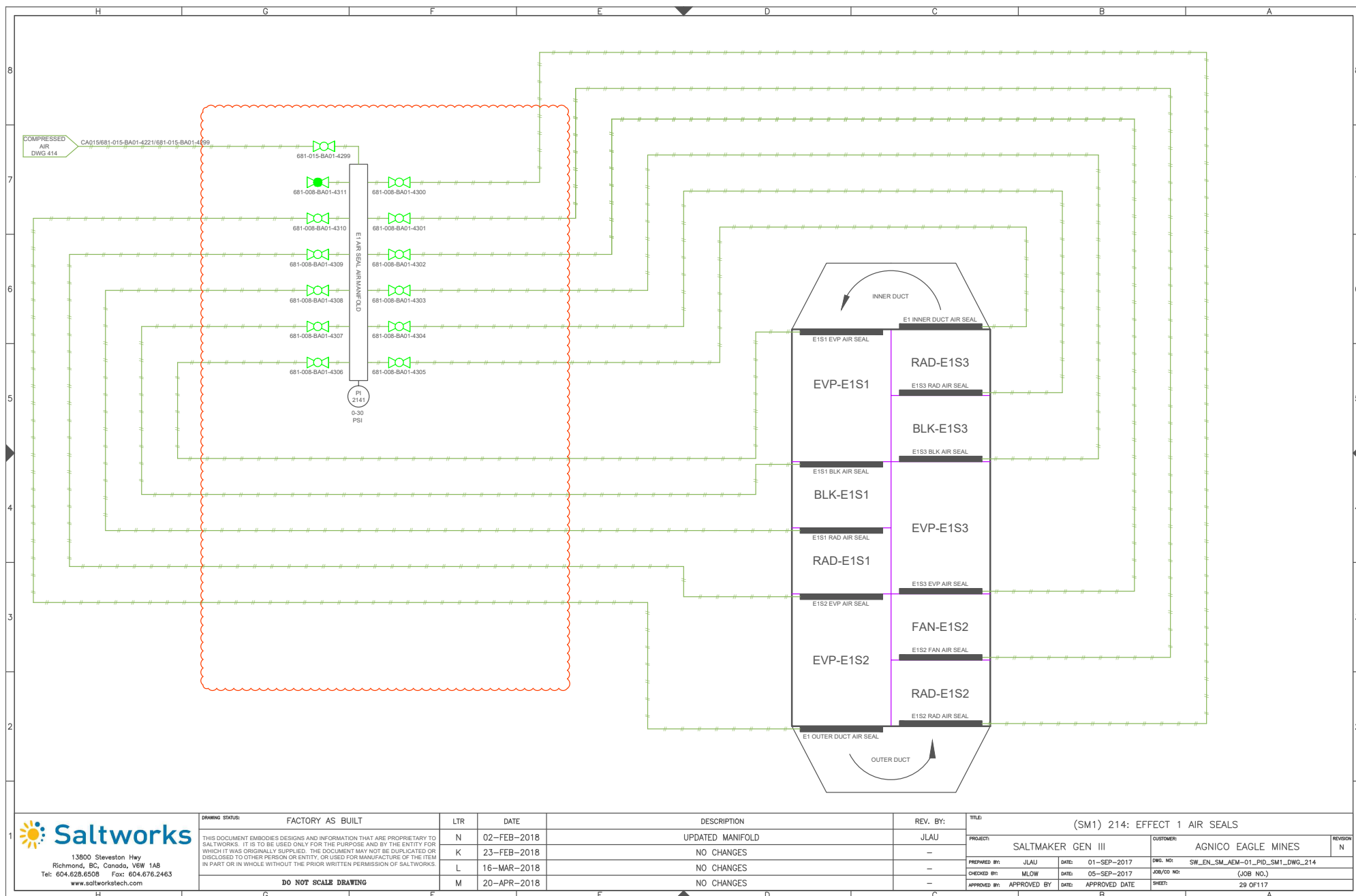
LTR	DATE	DESCRIPTION	REV. BY:
N	06-JUL-2018	NO CHANGES	-
K	23-FEB-2018	NO CHANGES	-
L	16-MAR-2018	NO CHANGES	-
M	20-APR-2018	NO CHANGES	-

TITLE:	(SM1) 180: DRIP TRAY
PROJECT:	SALTMAKER GEN III
CUSTOMER:	AGNICO EAGLE MINES
PREPARED BY:	JLAU
DATE:	01-SEP-2017
DWG. NO.:	SW_EN_SM_AEM-01_PID_SM1_DWG_180
CHECKED BY:	MLOW
DATE:	05-SEP-2017
JOB/CD NO.:	(JOB NO.)
APPROVED BY:	APPROVED DATE
DATE:	25 OF 117







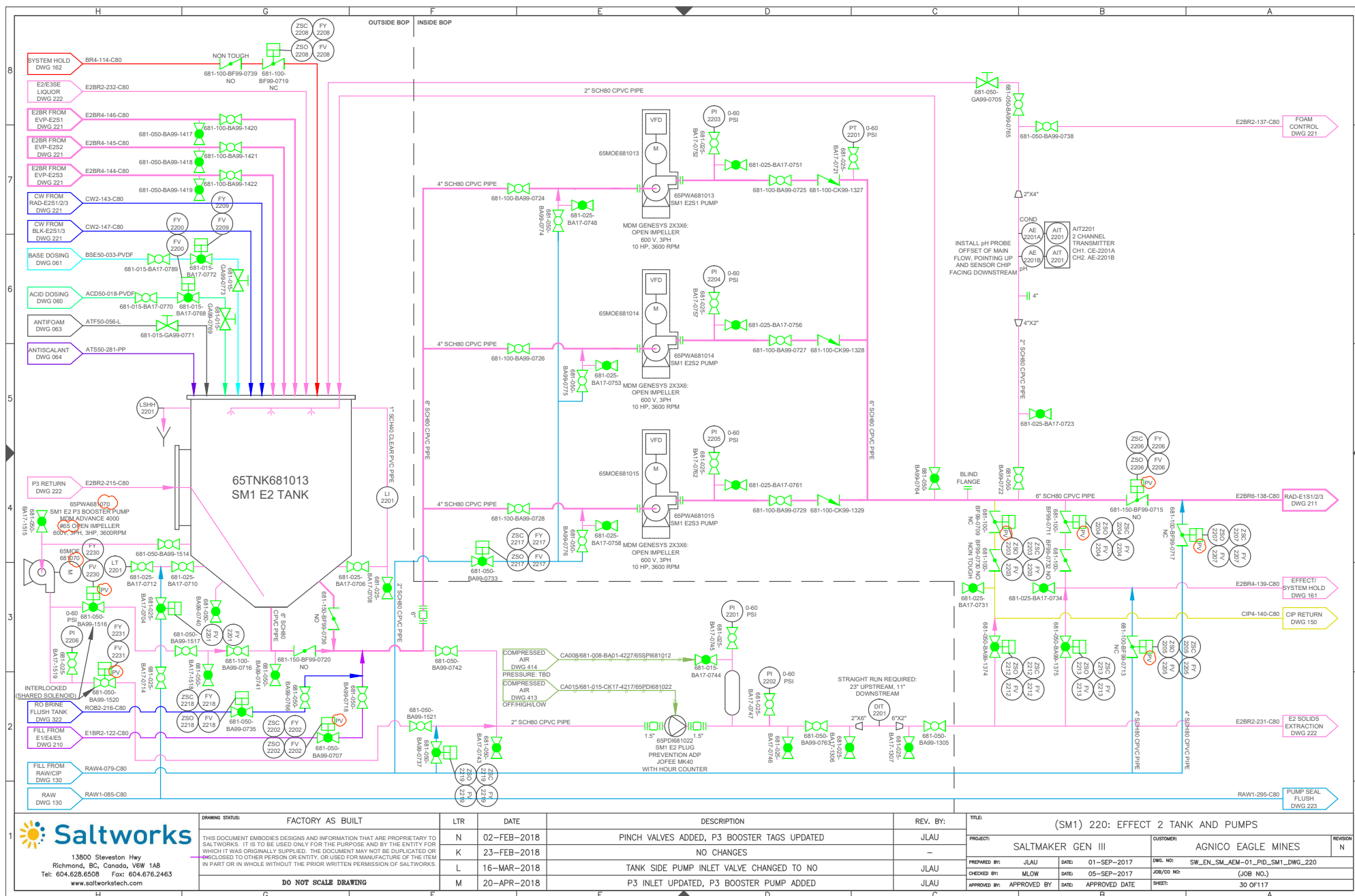


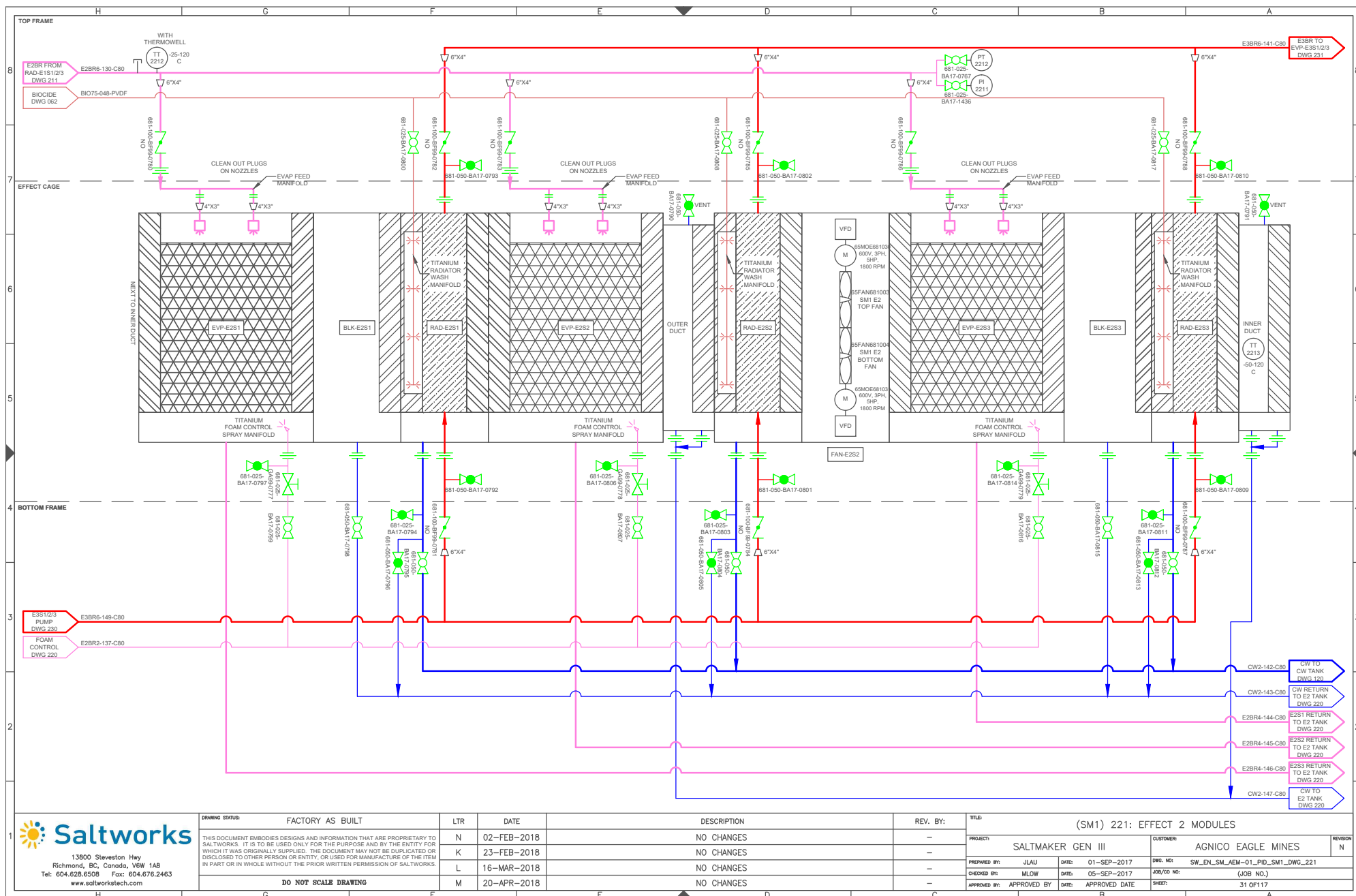
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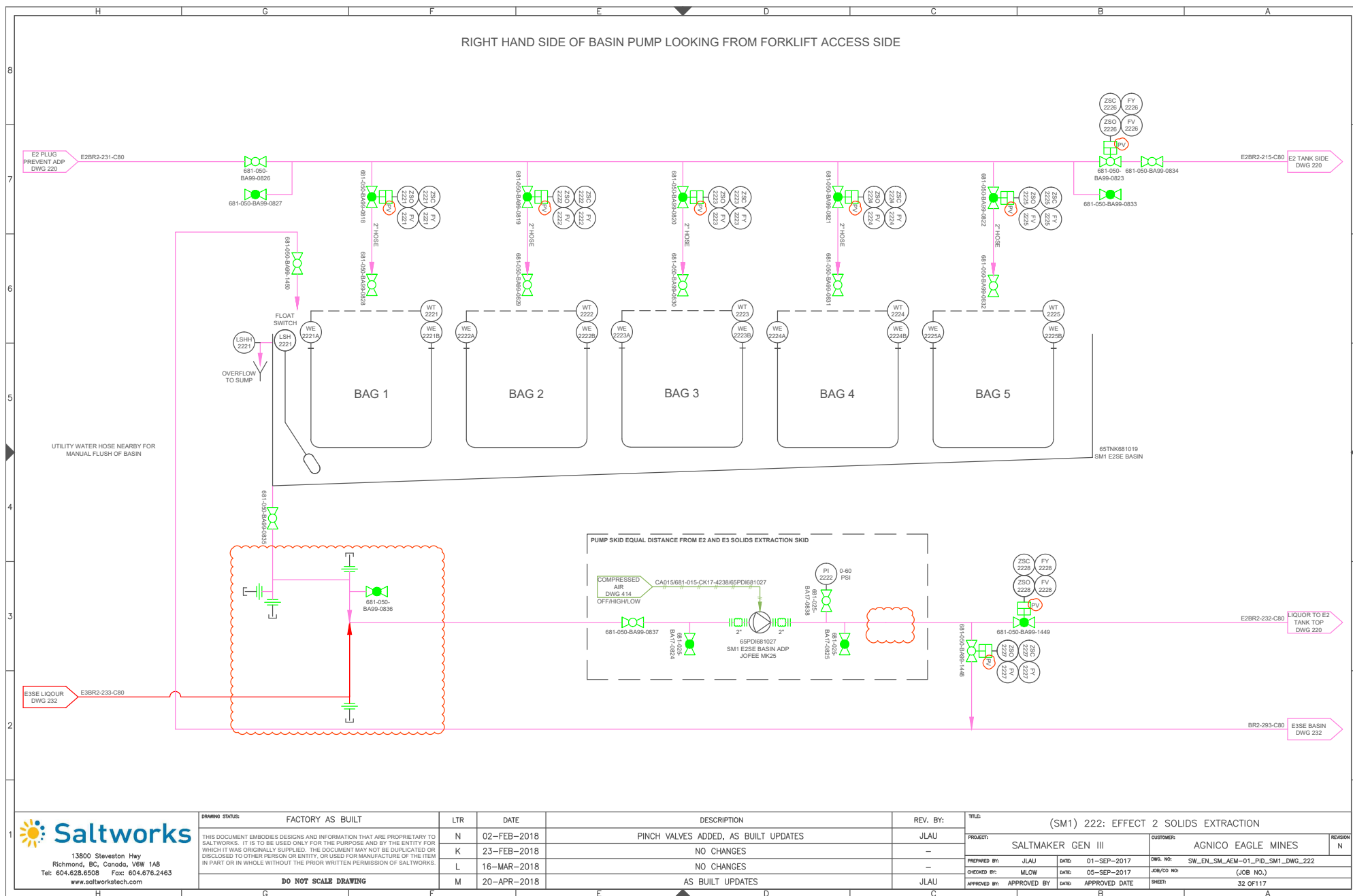
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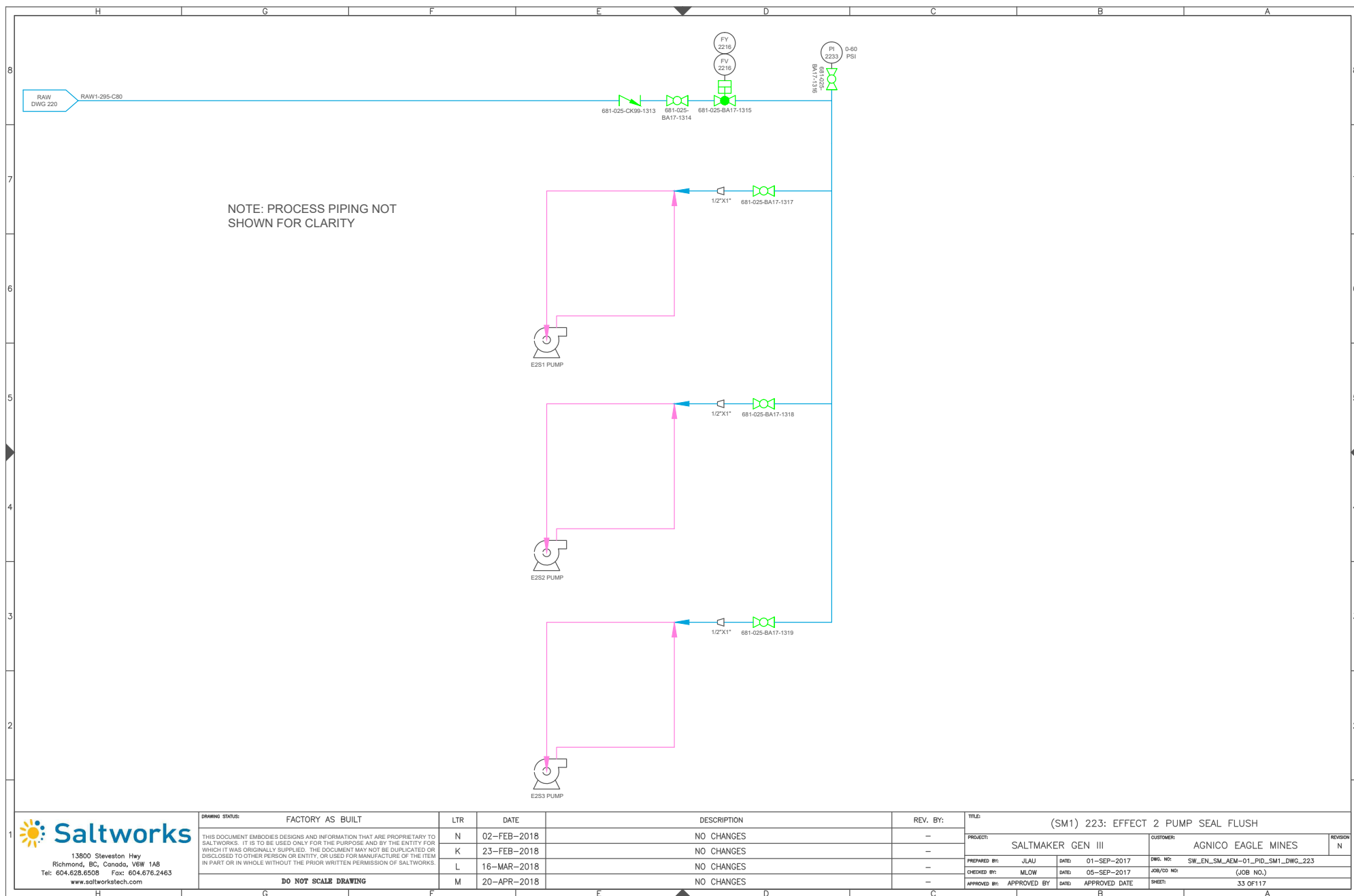
LTR	DATE	DESCRIPTION	REV. BY:
N	02-FEB-2018	UPDATED MANIFOLD	JLAU
K	23-FEB-2018	NO CHANGES	-
L	16-MAR-2018	NO CHANGES	-
M	20-APR-2018	NO CHANGES	-

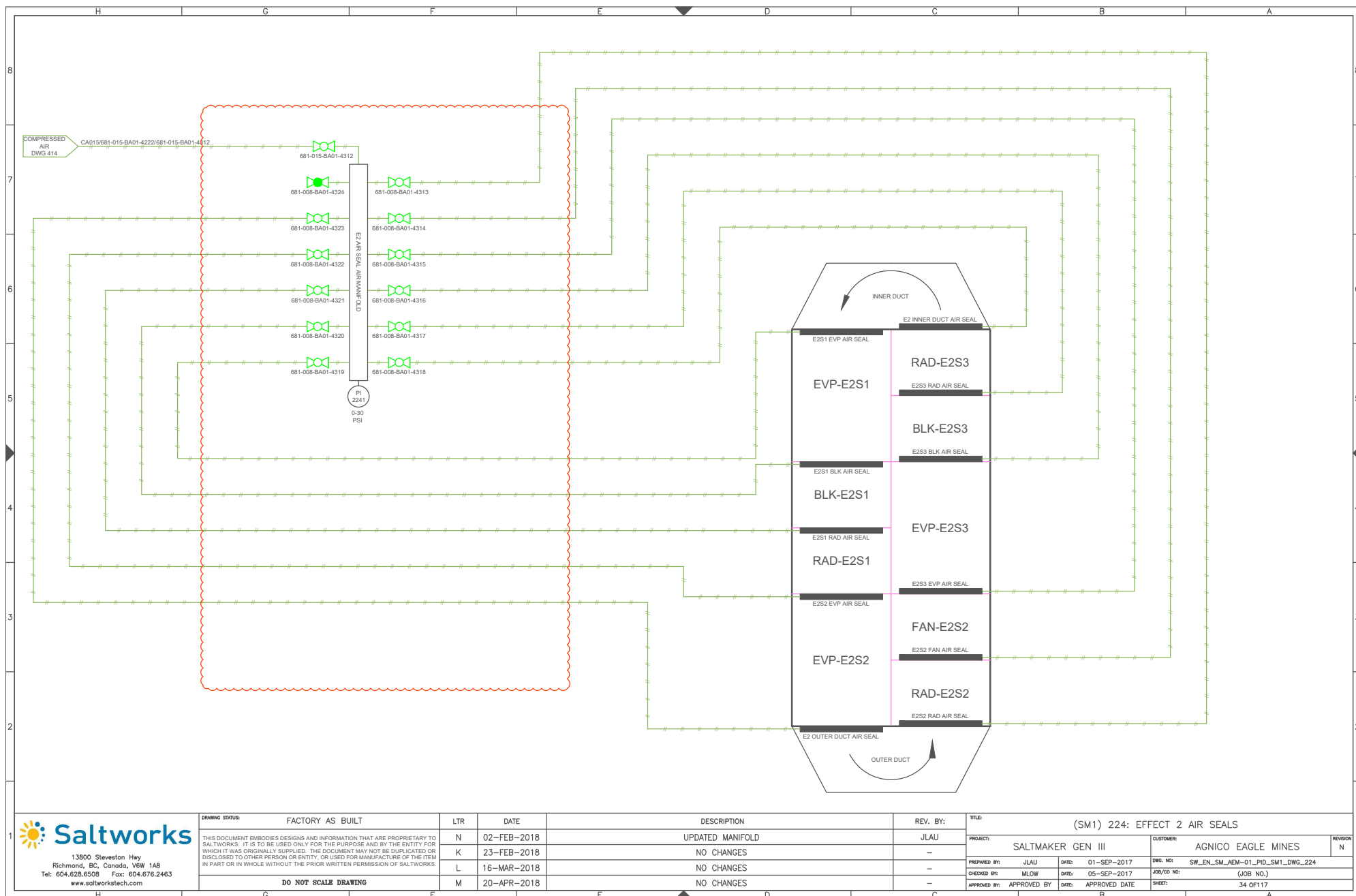
TITLE:	(SM1) 214: EFFECT 1 AIR SEALS			REVISION
PROJECT:	SALTMAKER GEN III	CUSTOMER:	AGNICO EAGLE MINES	N
PREPARED BY:	JLAU	DATE:	01-SEP-2017	DWG. NO:
CHECKED BY:	MLOW	DATE:	05-SEP-2017	SW_EN_SM_AEM-01_PID_SM1_DWG_214
APPROVED BY:	APPROVED BY	DATE:	APPROVED DATE	JOB/CD NO:
				(JOB NO.)
				SHEET:
				29 OF 117









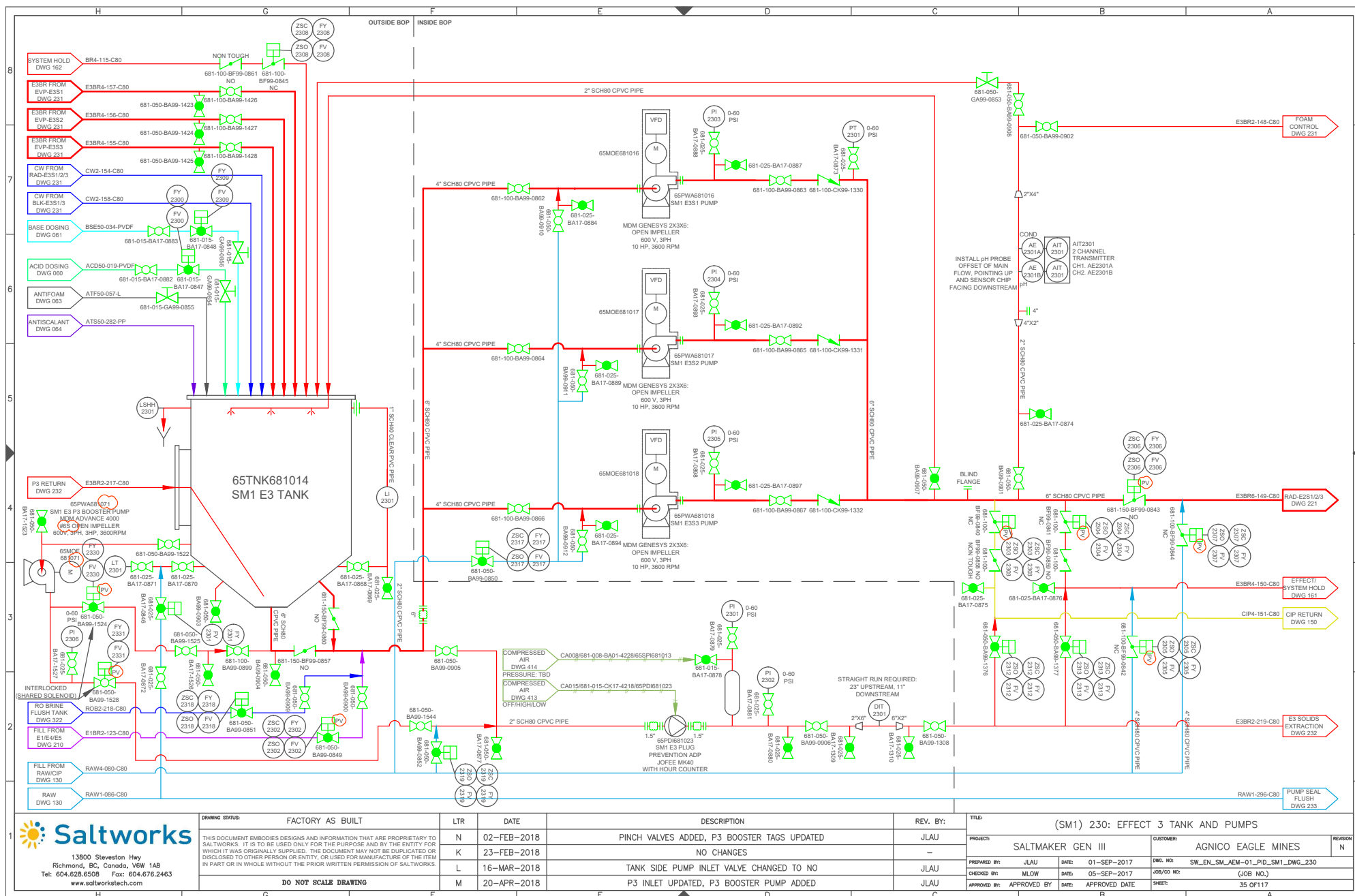


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LTR	DATE	DESCRIPTION	REV. BY:
N	02-FEB-2018	UPDATED MANIFOLD	JLAU
K	23-FEB-2018	NO CHANGES	-
L	16-MAR-2018	NO CHANGES	-
M	20-APR-2018	NO CHANGES	-

TITLE:	(SM1) 224: EFFECT 2 AIR SEALS		
PROJECT:	SALTMAKER GEN III	CUSTOMER:	AGNICO EAGLE MINES
PREPARED BY:	JLAU	DATE:	01-SEP-2017
CHECKED BY:	MLOW	DATE:	05-SEP-2017
APPROVED BY:	APPROVED BY	DATE:	APPROVED DATE
DWG. NO:	SW_EN_SM_AEM-01_PID_SM1_DWG_224	JOB/CD NO:	(JOB NO.)
SHEET:	34 OF 117		

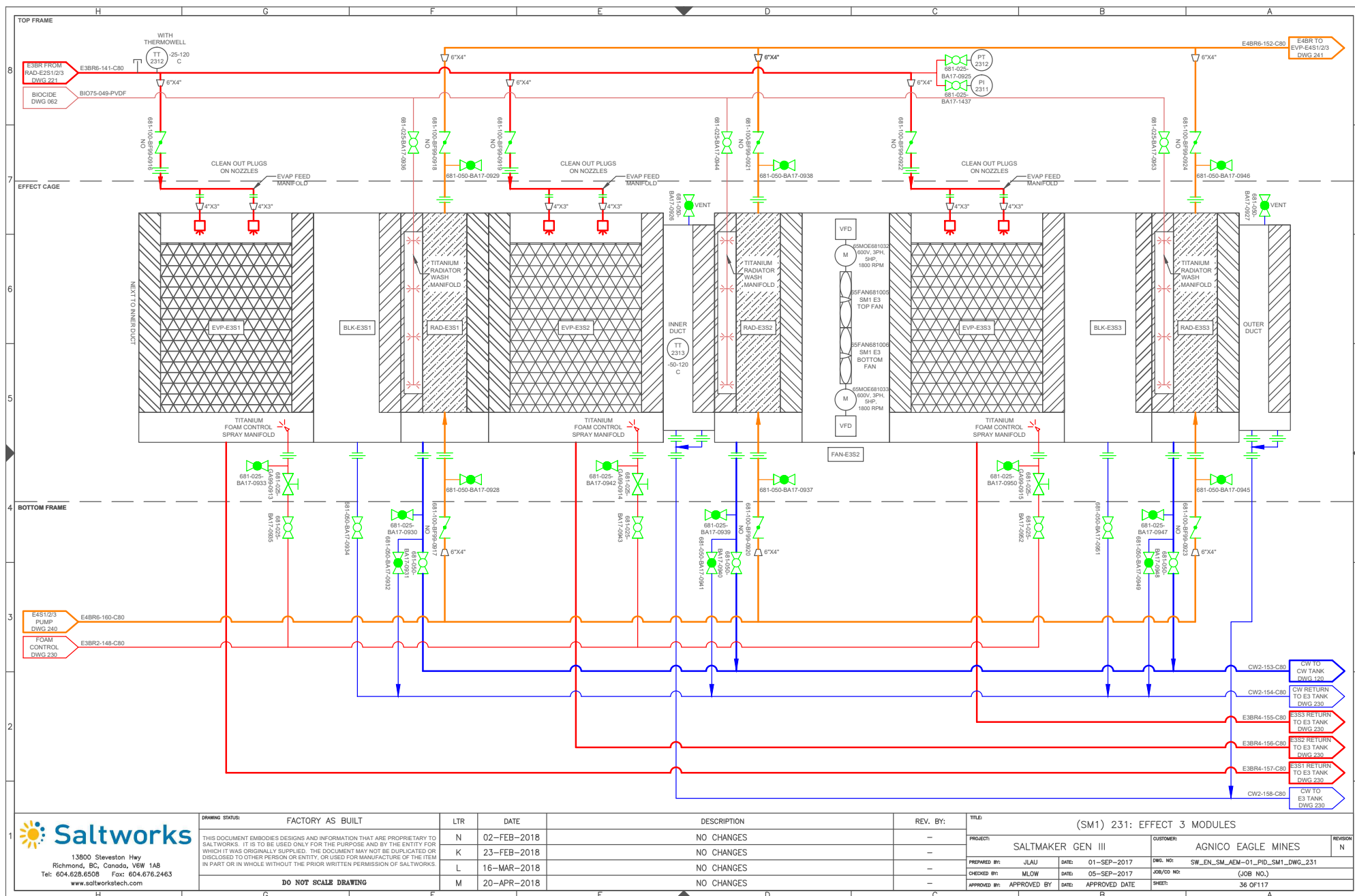


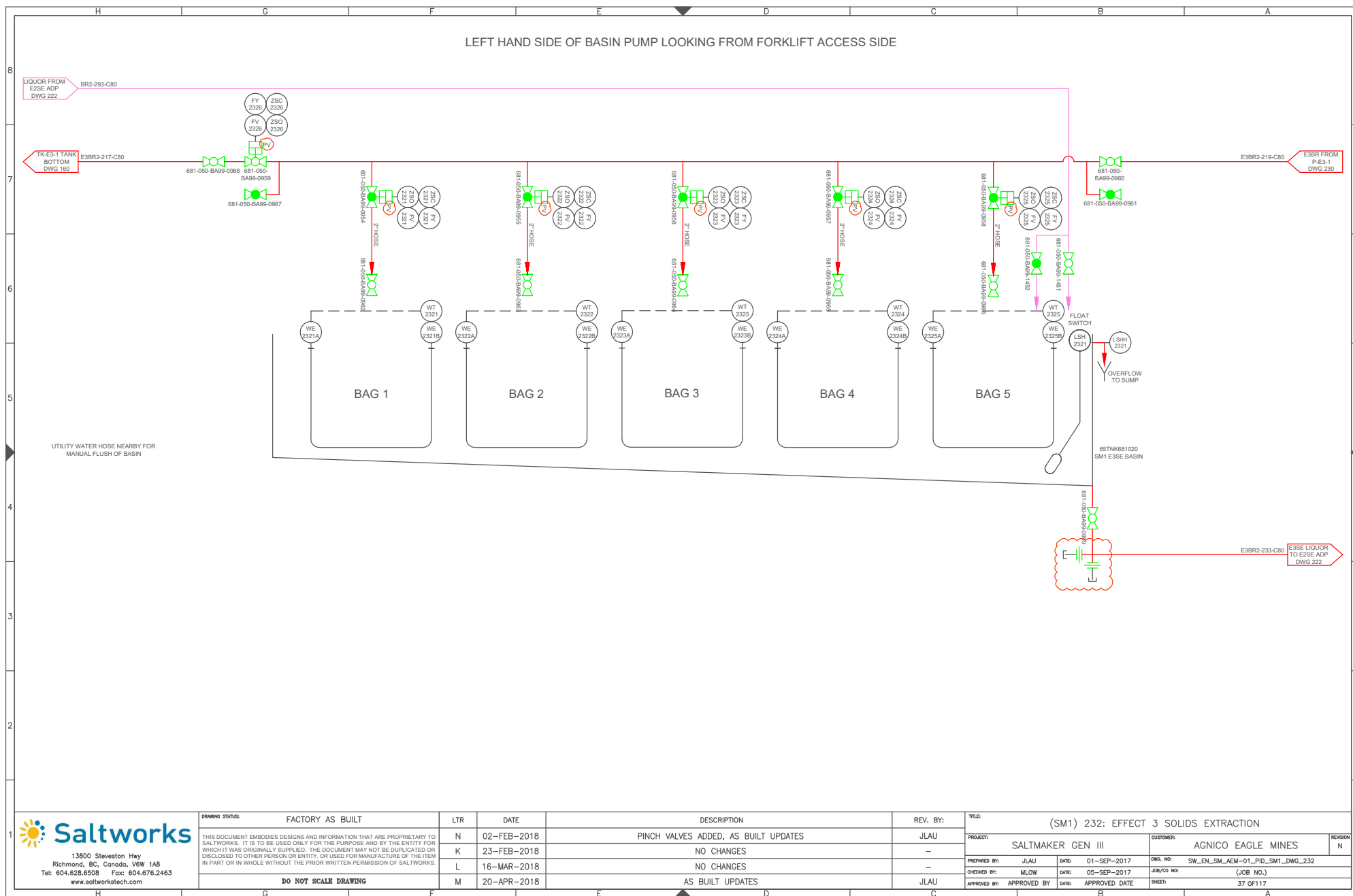
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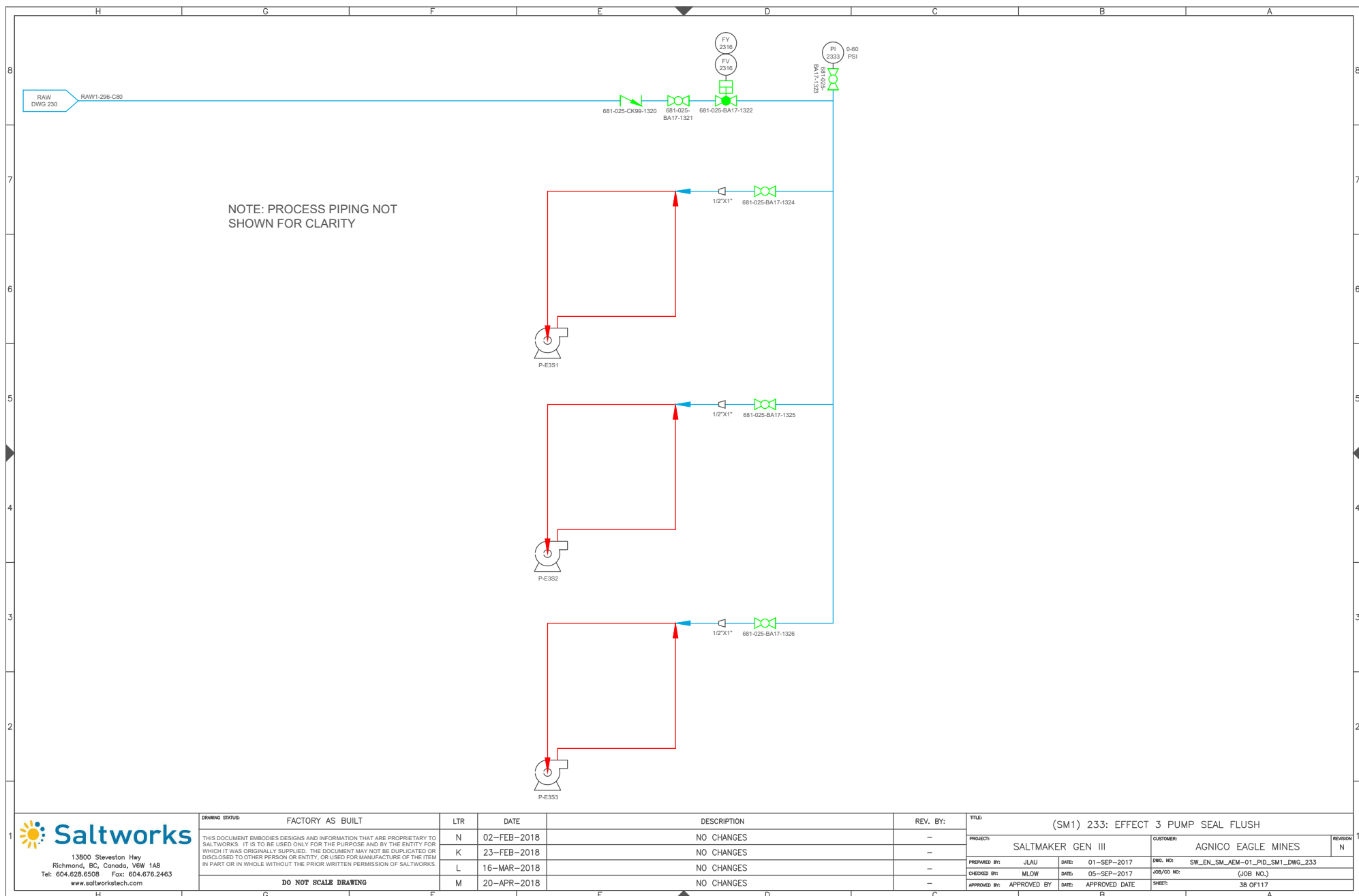
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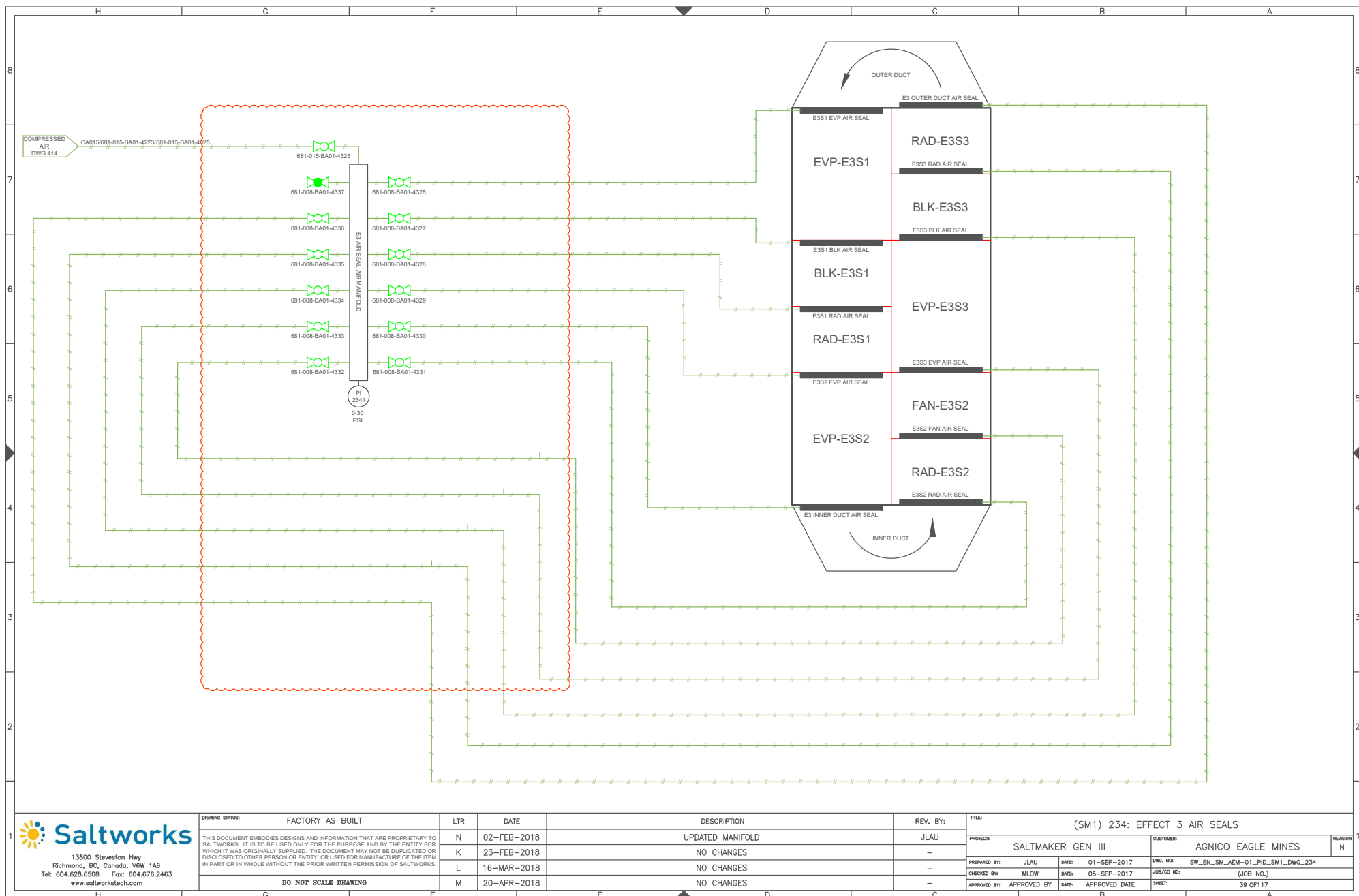
LTR	DATE	DESCRIPTION	REV. BY:
K	02-FEB-2018	PINCH VALVES ADDED, P3 BOOSTER TAGS UPDATED	JLAU
N	23-FEB-2018	NO CHANGES	-
L	16-MAR-2018	TANK SIDE PUMP INLET VALVE CHANGED TO NO	JLAU
M	20-APR-2018	P3 INLET UPDATED, P3 BOOSTER PUMP ADDED	JLAU

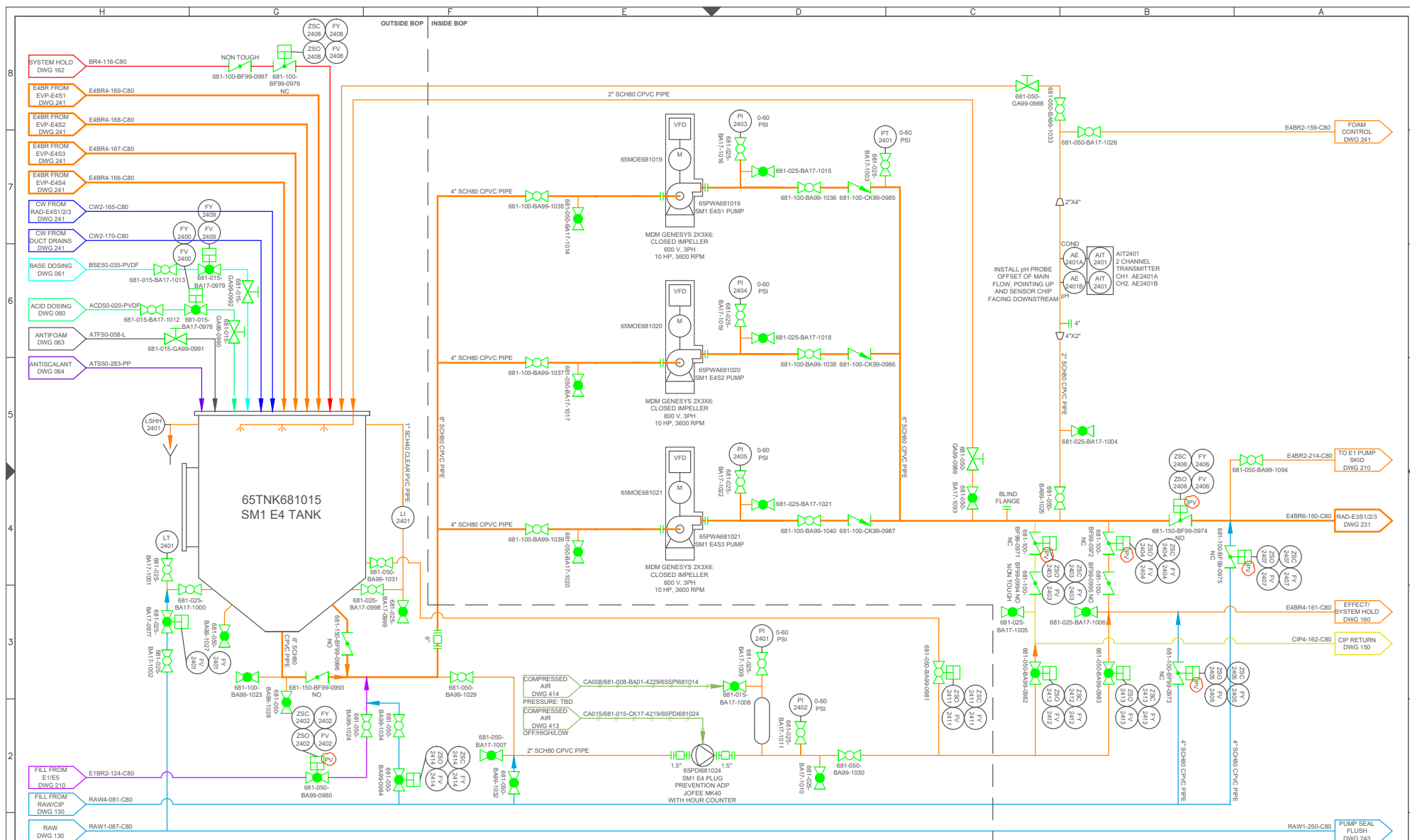
TITLE:	(SM1) 230: EFFECT 3 TANK AND PUMPS
PROJECT:	SALTMAKER GEN III
CUSTOMER:	AGNICO EAGLE MINES
PREPARED BY:	JLAU
DATE:	01-SEP-2017
DWG. NO.:	SW_EN_SM_AEM-01_PID_SM1_DWG_230
CHECKED BY:	MLOW
DATE:	05-SEP-2017
JOB/CD NO.:	(JOB NO.)
APPROVED BY:	APPROVED BY
DATE:	APPROVED DATE
SHEET:	35 OF 117



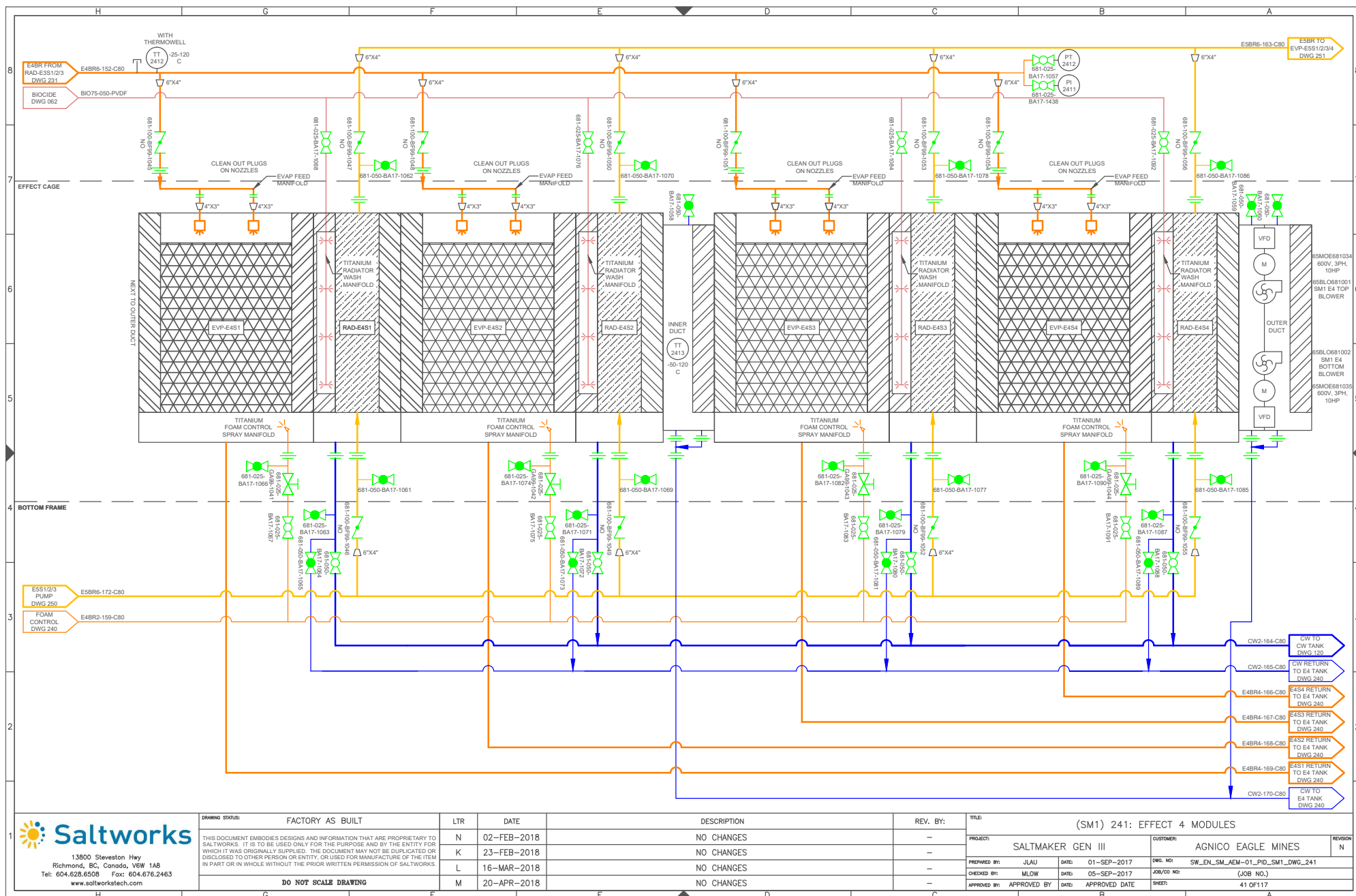


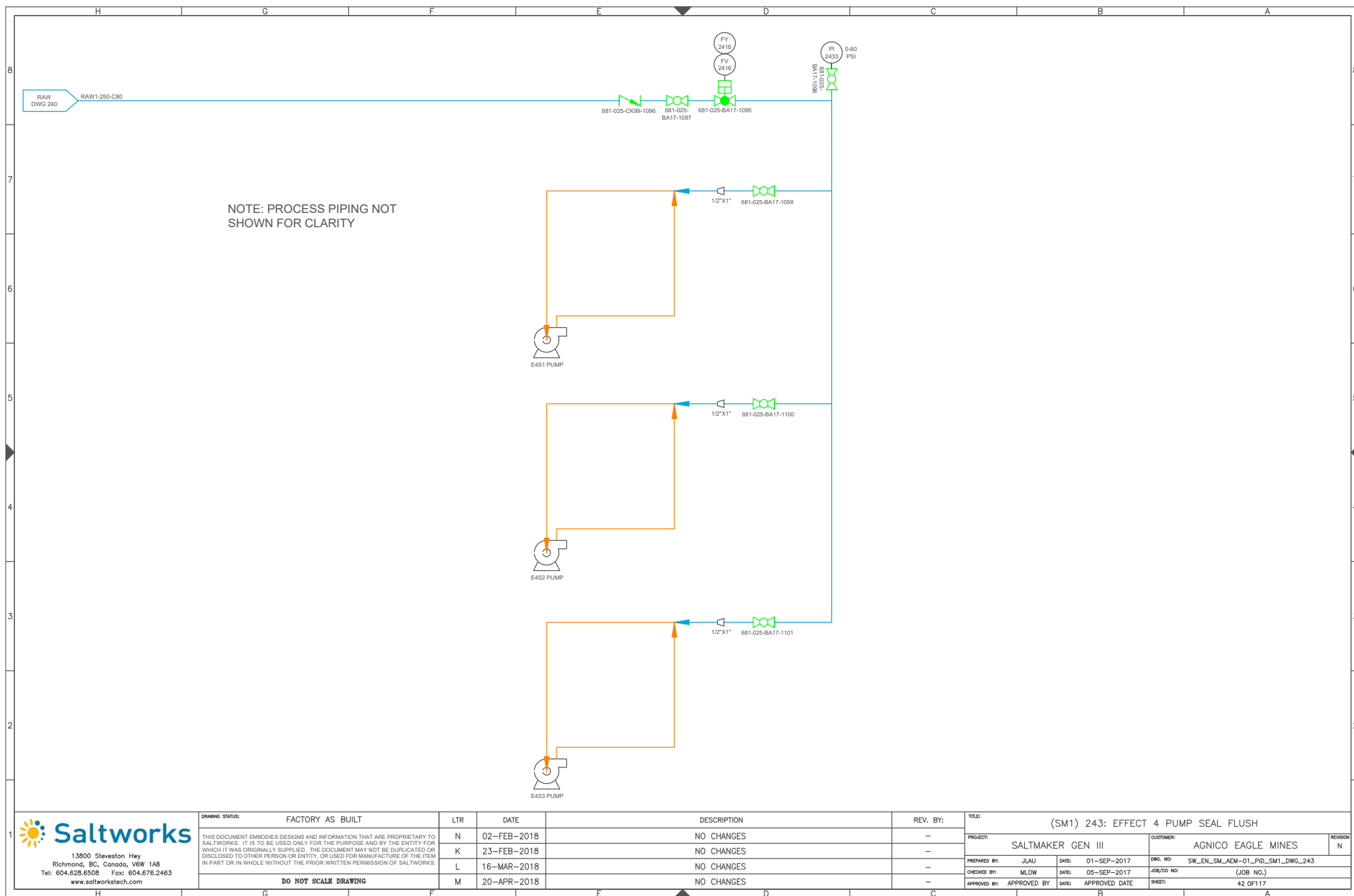


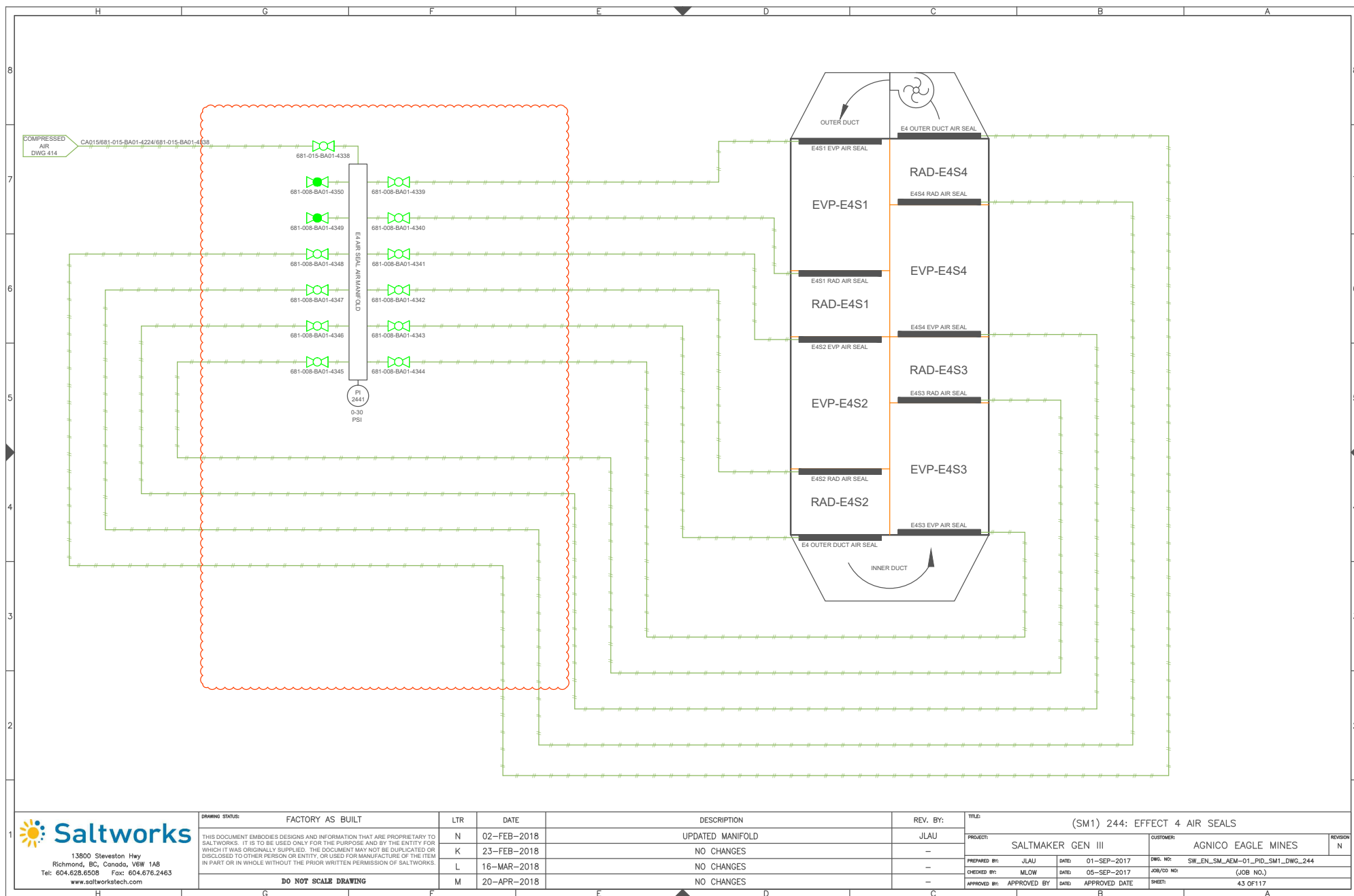




 13900 Steveston Hwy Richmond, BC, Canada, V6W 1A8 Tel: 604.628.6508 Fax: 604.676.2463 www.saltworkstech.com	DRAWING STATUS: FACTORY AS BUILT	LTR	DATE	DESCRIPTION	REV. BY:	TITLE: (SM1) 240: EFFECT 4 TANK AND PUMPS		
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	DO NOT SCALE DRAWING	K	23-FEB-2018	NO CHANGES	-	CUSTOMER: AGNICO EAGLE MINES		
		L	16-MAR-2018	TANK BOTTOM PUMP INLET VALVE, P3 RECIRC VALVE CHANGED TO NO	JLAU	PREPARED BY: JLAU DATE: 01-SEP-2017 DWG. NO: SW_EN_SM_AEM-01_PID_SM1_DWG_240		
		M	20-APR-2018	P3 INLET UPDATED, SET PUMP INLET UPDATED	JLAU	CHECKED BY: MLOW DATE: 05-SEP-2017 JOB/CO NO: (JOB NO.)		
						APPROVED BY: APPROVED BY DATE: APPROVED DATE SHEET: 40 OF 117		



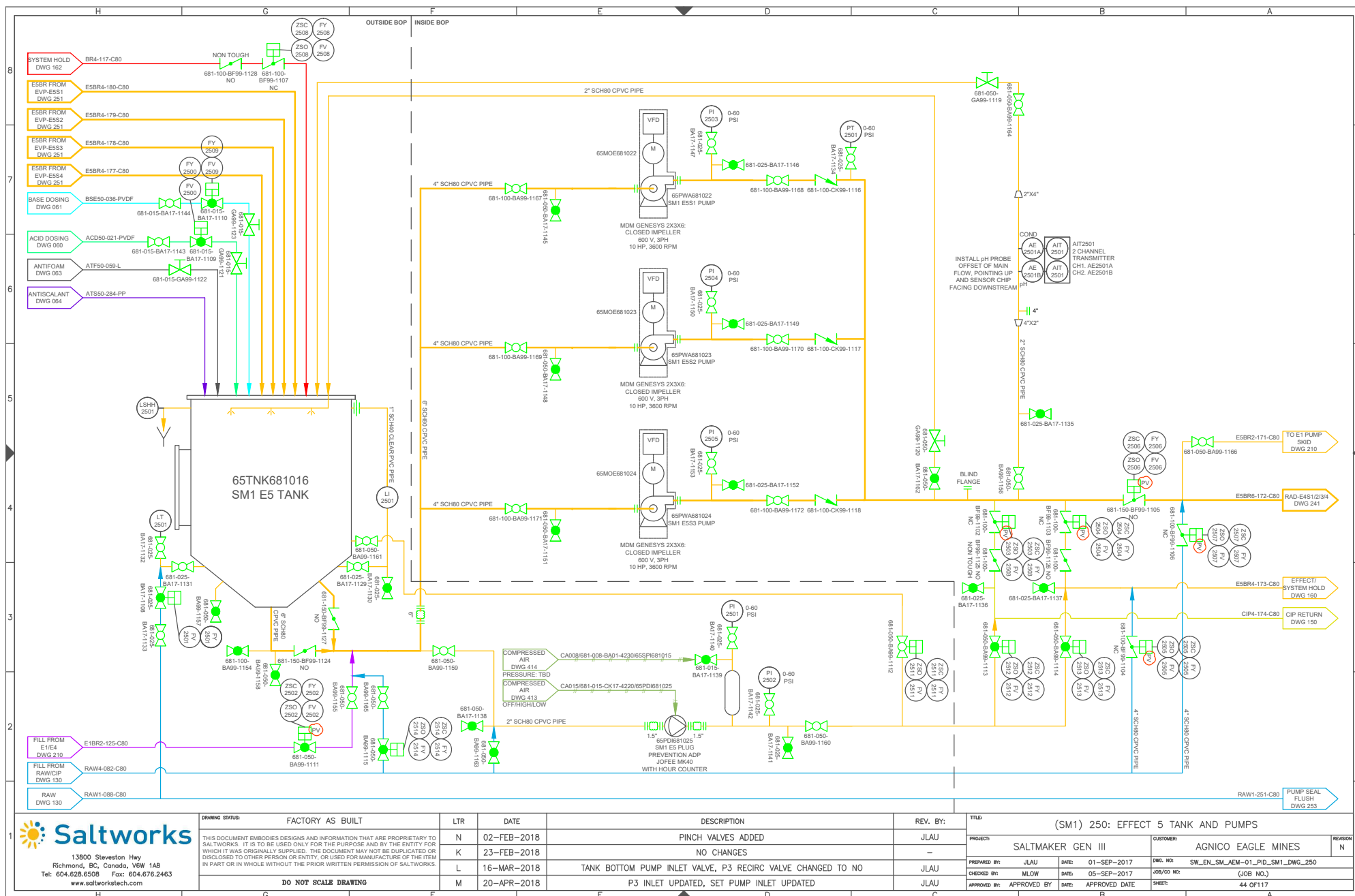




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		N	02-FEB-2018
		K	23-FEB-2018
		L	16-MAR-2018
		M	20-APR-2018
DO NOT SCALE DRAWING			

LTR	DATE	DESCRIPTION	REV. BY:
N	02-FEB-2018	UPDATED MANIFOLD	JLAU
K	23-FEB-2018	NO CHANGES	-
L	16-MAR-2018	NO CHANGES	-
M	20-APR-2018	NO CHANGES	-

TITLE: (SM1) 244: EFFECT 4 AIR SEALS				REVISION
PROJECT: SALTMAKER GEN III		CUSTOMER: AGNICO EAGLE MINES		N
PREPARED BY: JLAU	DATE: 01-SEP-2017	DWG. NO: SW_EN_SM_AEM-01_PID_SM1_DWG_244		
CHECKED BY: MLOW	DATE: 05-SEP-2017	JOB/CD NO: (JOB NO.)		
APPROVED BY: APPROVED BY	DATE: APPROVED DATE	SHEET: 43 OF 117		



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LTR N K L M

DATE 02-FEB-2018 23-FEB-2018 16-MAR-2018 20-APR-2018

DESCRIPTION PINCH VALVES ADDED NO CHANGES TANK BOTTOM PUMP INLET VALVE, P3 RECIRC VALVE CHANGED TO NO P3 INLET UPDATED, SET PUMP INLET UPDATED

REV. BY: JLAU

TITLE: (SM1) 250: EFFECT 5 TANK AND PUMPS

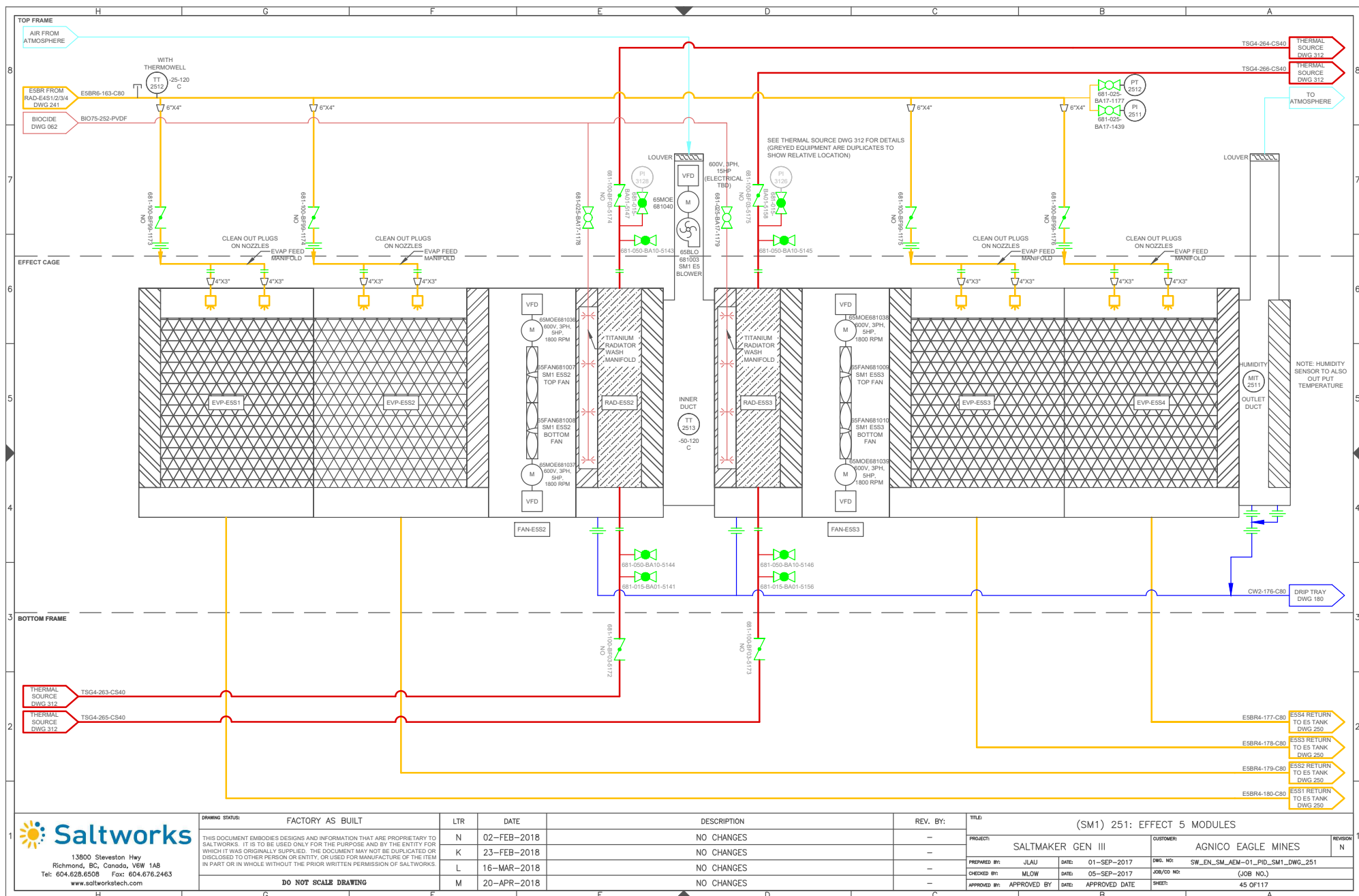
PROJECT: SALTMAKER GEN III

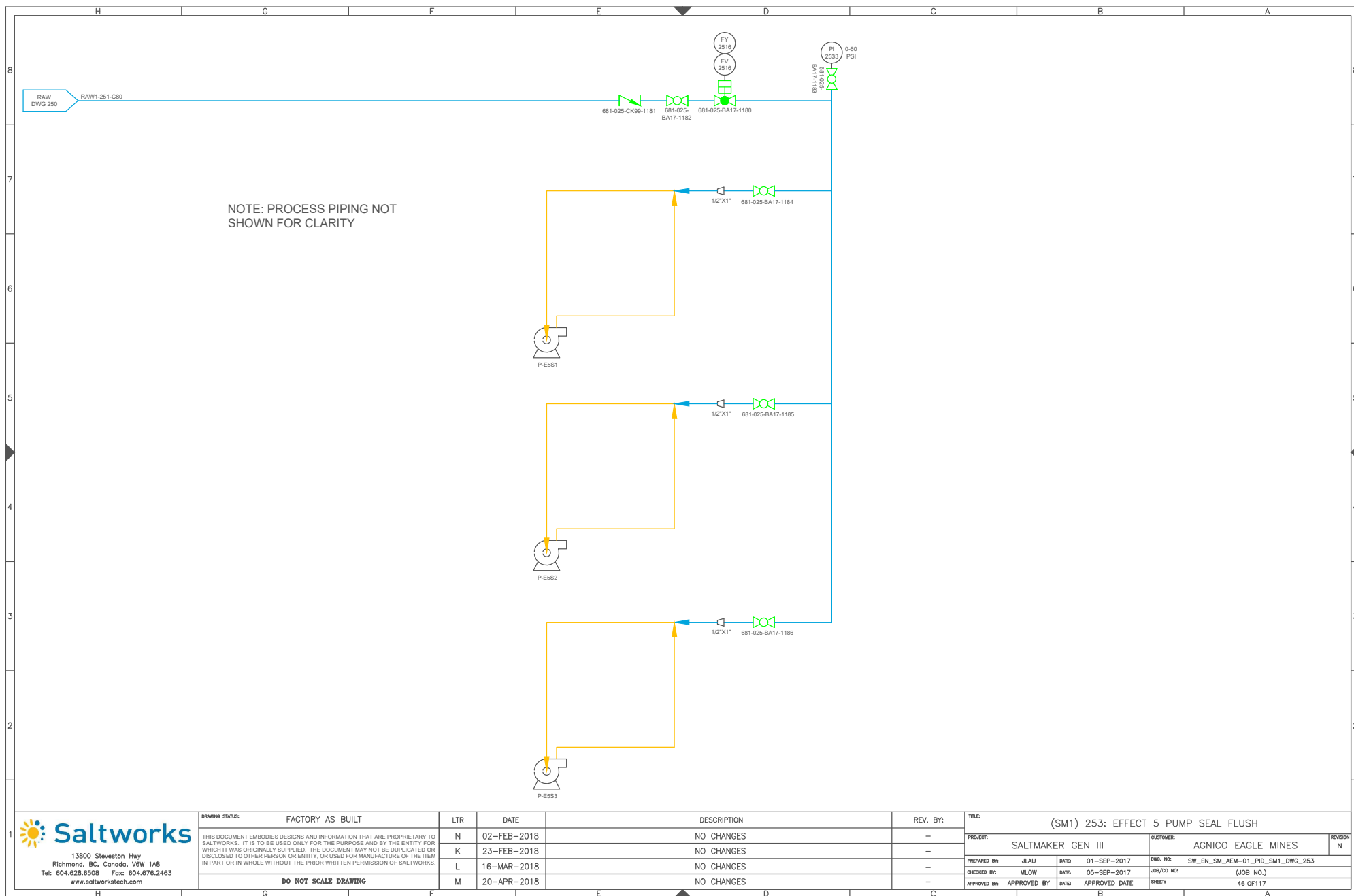
CUSTOMER: AGNICO EAGLE MINES

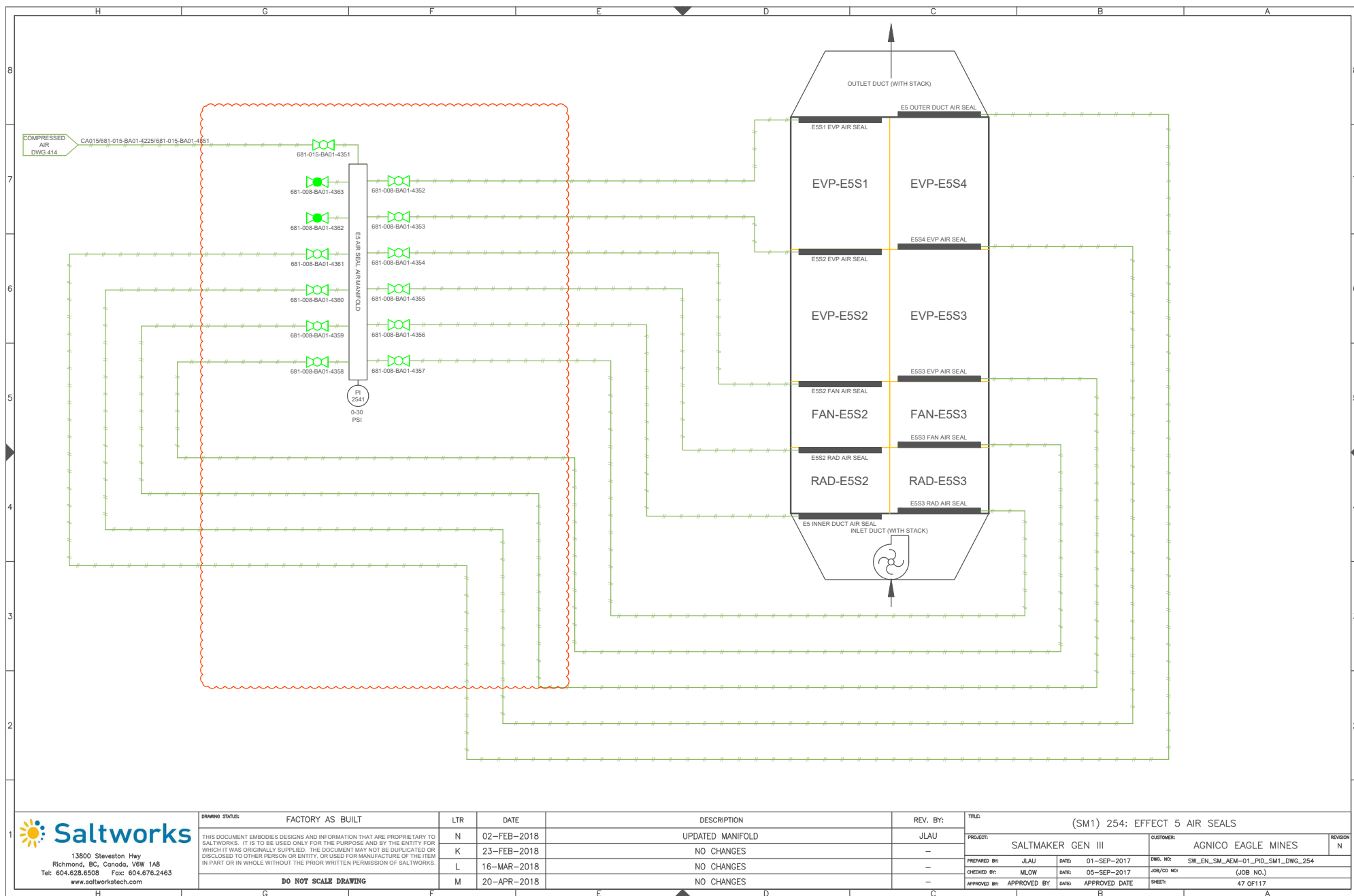
PREPARED BY: JLAU DATE: 01-SEP-2017 DWG. NO: SW_EN_SM_AEM-01_PID_SM1_DWG_250

CHECKED BY: MLOW DATE: 05-SEP-2017 JOB/CD NO: (JOB NO.)

APPROVED BY: APPROVED BY DATE: APPROVED DATE SHEET: 44 OF 117









COMMON SYSTEMS REVISION N

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		K	23-FEB-2018	NO CHANGES	-	PREPARED BY: JLAU	DATE: 1-SEP-2017	DWG. NO:	COVER SHEET	
		L	16-MAR-2018	AS MARKED BY REVISION CLOUDS	JLAU	CHECKED BY: MLOW	DATE: 5-SEP-2017	JOB/COD NO:	(JOB NO.)	
		M	20-APR-2018	AS MARKED BY REVISION CLOUDS	JLAU	APPROVED BY: APPROVED BY	DATE: APPROVED DATE	SHEET:	# OF #	

DRAWING LIST 1

SHEET NO.	DRAWING NO.	DESCRIPTION	SHEET NO.	DRAWING NO.	DESCRIPTION
		COVER SHEET	35	SW_EN_SM_AEM-01_PID_SM1_DWG_230	EFFECT 3 TANK AND PUMPS
		DRAWING LIST 1	36	SW_EN_SM_AEM-01_PID_SM1_DWG_231	EFFECT 3 MODULES
		DRAWING LIST 2	37	SW_EN_SM_AEM-01_PID_SM1_DWG_232	EFFECT 3 SOLIDS EXTRACTION
		LEGEND	38	SW_EN_SM_AEM-01_PID_SM1_DWG_233	EFFECT 3 PUMP SEAL FLUSH
			39	SW_EN_SM_AEM-01_PID_SM1_DWG_234	EFFECT 3 AIR SEALS
		<u>COMMON</u>			
1	SW_EN_SM_AEM-01_PID_COMMON_DWG_000	MASTER PFD	40	SW_EN_SM_AEM-01_PID_SM1_DWG_240	EFFECT 4 TANK AND PUMPS
2	SW_EN_SM_AEM-01_PID_COMMON_DWG_010	PROCESS FLOW DIAGRAM	41	SW_EN_SM_AEM-01_PID_SM1_DWG_241	EFFECT 4 MODULES
3	SW_EN_SM_AEM-01_PID_COMMON_DWG_020	CONTAINER LAYOUT	42	SW_EN_SM_AEM-01_PID_SM1_DWG_243	EFFECT 4 PUMP SEAL FLUSH
4	SW_EN_SM_AEM-01_PID_COMMON_DWG_030	MODULES LAYOUT	43	SW_EN_SM_AEM-01_PID_SM1_DWG_244	EFFECT 4 AIR SEALS
5	SW_EN_SM_AEM-01_PID_COMMON_DWG_040	PLANT FEED TANKS			
6	SW_EN_SM_AEM-01_PID_COMMON_DWG_041	PLANT FEED PUMP SKIDS	44	SW_EN_SM_AEM-01_PID_SM1_DWG_250	EFFECT 5 TANK AND PUMPS
7	SW_EN_SM_AEM-01_PID_COMMON_DWG_050	CLEAN RESERVE AND BLOWDOWN SYSTEMS	45	SW_EN_SM_AEM-01_PID_SM1_DWG_251	EFFECT 5 MODULES
8	SW_EN_SM_AEM-01_PID_COMMON_DWG_060	ACID DOSING SYSTEM	46	SW_EN_SM_AEM-01_PID_SM1_DWG_253	EFFECT 5 PUMP SEAL FLUSH
9	SW_EN_SM_AEM-01_PID_COMMON_DWG_061	BASE DOSING SYSTEM	47	SW_EN_SM_AEM-01_PID_SM1_DWG_254	EFFECT 5 AIR SEALS
10	SW_EN_SM_AEM-01_PID_COMMON_DWG_062	BIOCIDE DOSING SYSTEM			
11	SW_EN_SM_AEM-01_PID_COMMON_DWG_063	ANTIFOAM DOSING SYSTEM			<u>THERMAL SYSTEM</u>
12	SW_EN_SM_AEM-01_PID_COMMON_DWG_064	ANTISCALANT DOSING SYSTEM	48	SW_EN_SM_AEM-01_PID_DWG_310	THERMAL SKID: WATER LOOP
13	SW_EN_SM_AEM-01_PID_COMMON_DWG_070	UTILITY WATER DISTRIBUTION	49	SW_EN_SM_AEM-01_PID_DWG_311	THERMAL SKID: WATER LOOP
			50	SW_EN_SM_AEM-01_PID_DWG_312	THERMAL SKID: GYLCOL LOOP
		<u>SALTMAKER 1 (SM1)</u>			
14	SW_EN_SM_AEM-01_PID_SM1_DWG_110	THERMAL SOURCE PRIMARY HEAT EXCHANGERS			<u>POST TREATMENT</u>
15	SW_EN_SM_AEM-01_PID_SM1_DWG_120	CONDENSED WATER SYSTEM	51	SW_EN_SM_AEM-01_PID_COMMON_DWG_320	NITRITE DESTRUCTION AND RO PC SYSTEM
16	SW_EN_SM_AEM-01_PID_SM1_DWG_130	FEED DISTRIBUTION	52	SW_EN_SM_AEM-01_PID_COMMON_DWG_321	AMMONIA DESTRUCTION SYSTEM
17	SW_EN_SM_AEM-01_PID_SM1_DWG_150	CIP TANKS	53	SW_EN_SM_AEM-01_PID_COMMON_DWG_322	RO BRINE FLUSH TANK
18	SW_EN_SM_AEM-01_PID_SM1_DWG_151	CIP PUMP SKID	54	SW_EN_SM_AEM-01_PID_COMMON_DWG_323	TREATED WATER TANK
19	SW_EN_SM_AEM-01_PID_SM1_DWG_160	EFFECT HOLD 1			
20	SW_EN_SM_AEM-01_PID_SM1_DWG_161	EFFECT HOLD 2			<u>COMPRESSED AIR-COMMON PACKAGE</u>
21	SW_EN_SM_AEM-01_PID_SM1_DWG_162	SYSTEM HOLD	55	SW_EN_SM_AEM-01_PID_COMPRESSED_AIR-COMMON_DWG_400	COMPRESSED AIR SYSTEM
22	SW_EN_SM_AEM-01_PID_SM1_DWG_163	CALCIUM EXTRACTION	56	SW_EN_SM_AEM-01_PID_COMPRESSED_AIR-COMMON_DWG_401	AMMONIA DES, BRINE BLOWDOWN AND PLANT FEED AIR
23	SW_EN_SM_AEM-01_PID_SM1_DWG_164	EH1 SOLIDS EXTRACTION	57	SW_EN_SM_AEM-01_PID_COMPRESSED_AIR-COMMON_DWG_402	CHEMICAL DOSING AND ANCILLARY STAND PIPE AIR
24	SW_EN_SM_AEM-01_PID_SM1_DWG_165	EH2 SOLIDS EXTRACTION	58	SW_EN_SM_AEM-01_PID_COMPRESSED_AIR-COMMON_DWG_403	COMMON AND POST TREATMENT AIR BANK 1
25	SW_EN_SM_AEM-01_PID_SM1_DWG_180	DRIP TRAYS	59	SW_EN_SM_AEM-01_PID_COMPRESSED_AIR-COMMON_DWG_404	COMMON AND POST TREATMENT AIR BANK 2
26	SW_EN_SM_AEM-01_PID_SM1_DWG_210	EFFECT 1 TANK AND PUMPS			
27	SW_EN_SM_AEM-01_PID_SM1_DWG_211	EFFECT 1 MODULES			<u>COMPRESSED AIR-SM1</u>
28	SW_EN_SM_AEM-01_PID_SM1_DWG_213	EFFECT 1 PUMP SEAL FLUSH	60	SW_EN_SM_AEM-01_PID_COMPRESSED_AIR-SM1_DWG_410	SM INSTRUMENT AND PROCESS AIR
29	SW_EN_SM_AEM-01_PID_SM1_DWG_214	EFFECT 1 AIR SEALS	61	SW_EN_SM_AEM-01_PID_COMPRESSED_AIR-SM1_DWG_411	EH1/EH2 EXTRACT AND CIP AIR
30	SW_EN_SM_AEM-01_PID_SM1_DWG_220	EFFECT 2 TANK AND PUMPS			
31	SW_EN_SM_AEM-01_PID_SM1_DWG_221	EFFECT 2 MODULES			
32	SW_EN_SM_AEM-01_PID_SM1_DWG_222	EFFECT 2 SOLIDS EXTRACTION			
33	SW_EN_SM_AEM-01_PID_SM1_DWG_223	EFFECT 2 PUMP SEAL FLUSH			
34	SW_EN_SM_AEM-01_PID_SM1_DWG_224	EFFECT 2 AIR SEALS			



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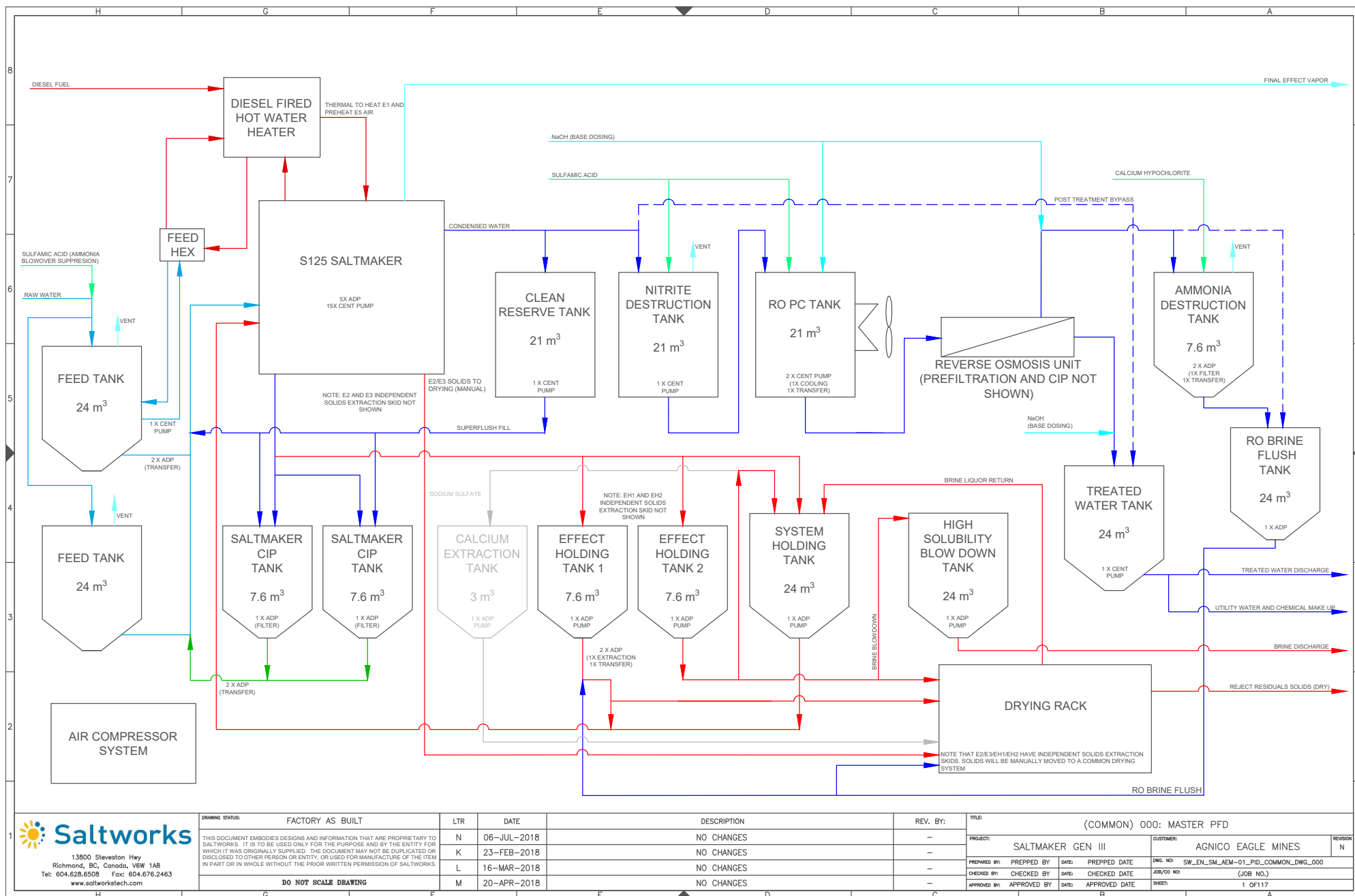
DRAWING STATUS	FACTORY AS BUILT	LTR	DATE	DESCRIPTION	REV. BY:	TITLE: DRAWING LIST 1					
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		K	23-FEB-2018	NO CHANGES	-	PREPARED BY:	JLAU	DATE:	01-SEP-2017	DWG. NO:	DRAWING LIST 1
		L	16-MAR-2018	NO CHANGES	-	CHECKED BY:	MLOW	DATE:	05-SEP-2017	JOB/CD NO:	(JOB NO.)
		M	20-APR-2018	NO CHANGES	-	APPROVED BY:	APPROVED BY	DATE:	APPROVED DATE	SHEET:	# OF #
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DRAWING LIST 2

SHEET NO.	DRAWING NO.	DESCRIPTION	SHEET NO.	DRAWING NO.	DESCRIPTION
62	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_412	EH1/EH2 EXTRACT AND CIP AIR	84	SW_EN_SM_AEM-01_PID_SM2_DWG_510	SALTMAKER 2 (SM2)
63	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_413	PLUG PREVENTION PUMP AIR	85	SW_EN_SM_AEM-01_PID_SM2_DWG_520	THERMAL SOURCE PRIMARY HEAT EXCHANGERS
64	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_414	AIR SEAL, STAND PIPE AND E2/E3 SE AIR	86	SW_EN_SM_AEM-01_PID_SM2_DWG_530	CONDENSED WATER SYSTEM
65	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_415	UTILITY AIR	87	SW_EN_SM_AEM-01_PID_SM2_DWG_550	FEED DISTRIBUTION
66	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_416	BOP1 AIR SOLENOID BANK	88	SW_EN_SM_AEM-01_PID_SM2_DWG_551	CIP TANKS
67	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_417	E2/E3 SE AIR SOLENOID BANK	89	SW_EN_SM_AEM-01_PID_SM2_DWG_560	CIP PUMP SKID
68	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_418	BOP2 AIR SOLENOID BANK	90	SW_EN_SM_AEM-01_PID_SM2_DWG_561	EFFECT HOLD 1
69	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_419	BOP3 AIR SOLENOID BANK	91	SW_EN_SM_AEM-01_PID_SM2_DWG_562	EFFECT HOLD 2
70	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_420	CIP, EH/SY AIR SOLENOID BANK	92	SW_EN_SM_AEM-01_PID_SM2_DWG_563	SYSTEM HOLD
71	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM1_DWG_421	H1/H2 SE AIR SOLENOID BANK	93	SW_EN_SM_AEM-01_PID_SM2_DWG_564	CALCIUM EXTRACTION
72	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_450	COMPRESSED AIR-SM2 SM INSTRUMENT AND PROCESS AIR	94	SW_EN_SM_AEM-01_PID_SM2_DWG_565	EH1 SOLIDS EXTRACTION
73	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_451	EH1/EH2 EXTRACT AND CIP AIR	95	SW_EN_SM_AEM-01_PID_SM2_DWG_580	EH2 SOLIDS EXTRACTION
74	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_452	EFFECT/SYSTEM HOLD AND CAL EXTRACTION AIR	96	SW_EN_SM_AEM-01_PID_SM2_DWG_610	DRIP TRAYS
75	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_453	PLUG PREVENTION PUMP AIR	97	SW_EN_SM_AEM-01_PID_SM2_DWG_611	EFFECT 1 TANK AND PUMPS
76	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_454	AIR SEAL, STAND PIPE AND E2/E3 SE AIR	98	SW_EN_SM_AEM-01_PID_SM2_DWG_613	EFFECT 1 MODULES
77	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_455	UTILITY AIR	99	SW_EN_SM_AEM-01_PID_SM2_DWG_614	EFFECT 1 PUMP SEAL FLUSH
78	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_456	BOP1 AIR SOLENOID BANK	100	SW_EN_SM_AEM-01_PID_SM2_DWG_620	EFFECT 1 AIR SEALS
79	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_457	E2/E3 SE AIR SOLENOID BANK	101	SW_EN_SM_AEM-01_PID_SM2_DWG_621	EFFECT 2 TANK AND PUMPS
80	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_458	BOP2 AIR SOLENOID BANK	102	SW_EN_SM_AEM-01_PID_SM2_DWG_622	EFFECT 2 MODULES
81	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_459	BOP3 AIR SOLENOID BANK	103	SW_EN_SM_AEM-01_PID_SM2_DWG_623	EFFECT 2 SOLIDS EXTRACTION
82	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_460	CIP, EH/SY AIR SOLENOID BANK	104	SW_EN_SM_AEM-01_PID_SM2_DWG_624	EFFECT 2 PUMP SEAL FLUSH
83	SW_EN_SM_AEM-01_PID_COMPRESSED AIR-SM2_DWG_461	H1/H2 SE AIR SOLENOID BANK	105	SW_EN_SM_AEM-01_PID_SM2_DWG_630	EFFECT 2 AIR SEALS
			106	SW_EN_SM_AEM-01_PID_SM2_DWG_631	EFFECT 3 TANK AND PUMPS
			107	SW_EN_SM_AEM-01_PID_SM2_DWG_632	EFFECT 3 MODULES
			108	SW_EN_SM_AEM-01_PID_SM2_DWG_633	EFFECT 3 SOLIDS EXTRACTION
			109	SW_EN_SM_AEM-01_PID_SM2_DWG_634	EFFECT 3 PUMP SEAL FLUSH
			110	SW_EN_SM_AEM-01_PID_SM2_DWG_640	EFFECT 3 AIR SEALS
			111	SW_EN_SM_AEM-01_PID_SM2_DWG_641	EFFECT 4 TANK AND PUMPS
			112	SW_EN_SM_AEM-01_PID_SM2_DWG_643	EFFECT 4 MODULES
			113	SW_EN_SM_AEM-01_PID_SM2_DWG_644	EFFECT 4 PUMP SEAL FLUSH
			114	SW_EN_SM_AEM-01_PID_SM2_DWG_650	EFFECT 4 AIR SEALS
			115	SW_EN_SM_AEM-01_PID_SM2_DWG_651	EFFECT 5 TANK AND PUMPS
			116	SW_EN_SM_AEM-01_PID_SM2_DWG_653	EFFECT 5 MODULES
			117	SW_EN_SM_AEM-01_PID_SM2_DWG_654	EFFECT 5 PUMP SEAL FLUSH
					EFFECT 5 AIR SEALS
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			K	23-FEB-2018	NO CHANGES	--				
			L	16-MAR-2018	NO CHANGES	--				
			M	20-APR-2018	NO CHANGES	--				
DO NOT SCALE DRAWING							PREPARED BY: JLAU DATE: 01-SEP-2017 DWG. NO: DRAWING LIST 2 CHECKED BY: MLOW DATE: 05-SEP-2017 JOB/CO. NO: (JOB NO.) APPROVED BY: APPROVED BY DATE: APPROVED DATE SHEET: # OF #			

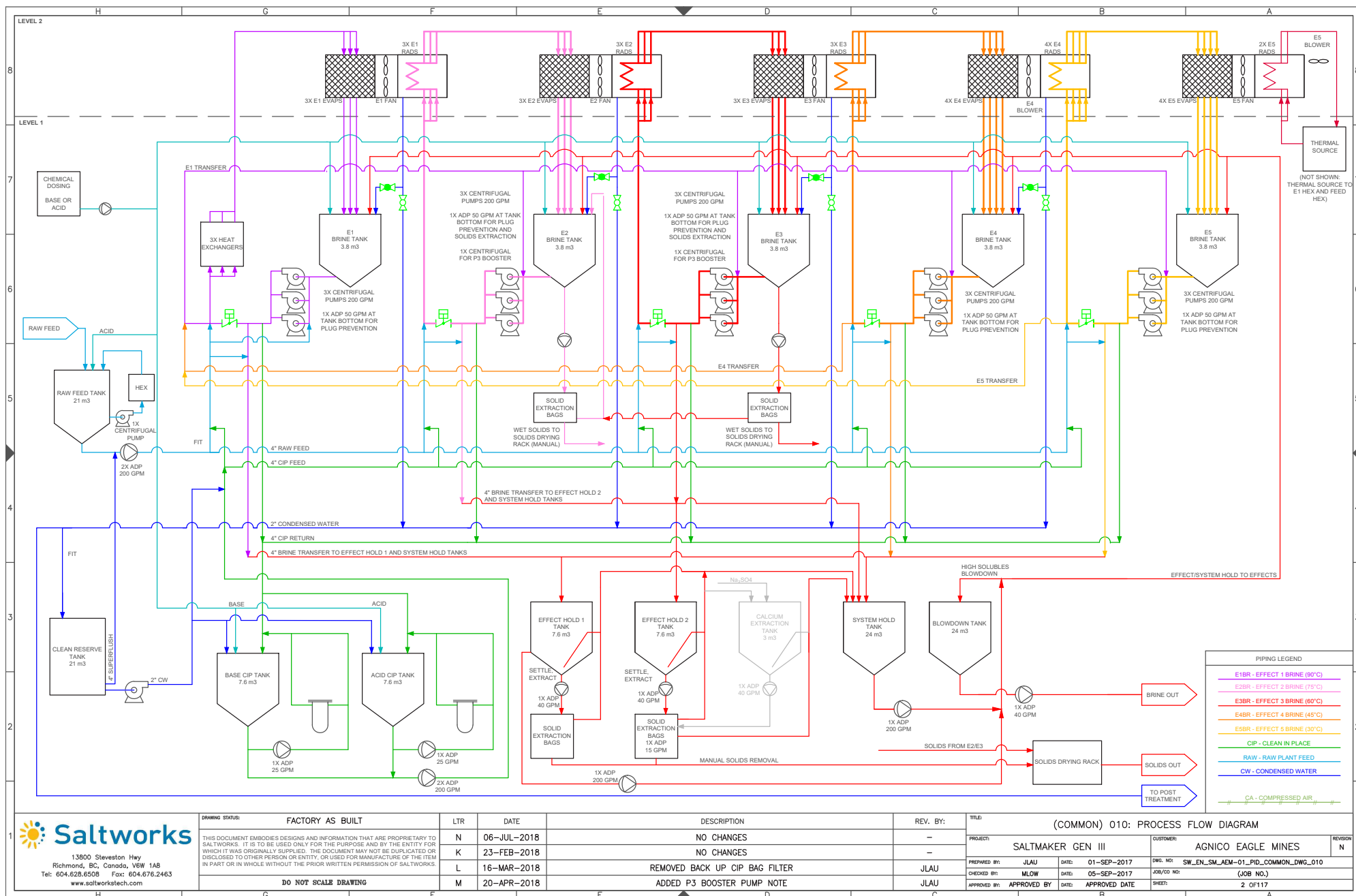
	H	G	F	E	D	C	B	A																								
	VALVES MANUAL BALL (MBV) – NORMALLY CLOSED MANUAL BALL (MBV) – NORMALLY OPEN CHECK (CV) GATE (GV) BUTTERFLY (BFV) PRESSURE RELIEF VALVE (PRV) FLOAT VALVE (FV) DIAPHRAGM (DV) NEEDLE (NV) 3-WAY 3-WAY SOLENOID 4-WAY SOLENOID 4-FUNCTION VALVE FOOT VALVE N.O. – NORMALLY OPEN N.C. – NORMALLY CLOSED CONTROL VALVES/ACTUATORS PRESSURE CONTROL VALVE (PCV) WITH PRESSURE GAUGE DOUBLE ACTING ACTUATED BALL VALVE (ABV) – NORMALLY CLOSED DOUBLE ACTING ACTUATED BALL VALVE (ABV) – NORMALLY OPEN DOUBLE ACTING ACTUATED BALL VALVE (ABV) – NORMALLY OPEN WITH PINCH VALVES SOLENOID VALVE (SV) SOLENOID VALVE (SV) MOTORIZED ACTUATOR MOTORIZED ACTUATOR WITH MANUAL OVERRIDE DOUBLE ACTING DIAPHRAGM ACTUATOR WITH LIMIT STOP DOUBLE ACTING DIAPHRAGM ACTUATOR WITH SPRING TO CLOSE DOUBLE ACTING DIAPHRAGM ACTUATOR WITH SPRING TO OPEN AIR OPERATOR W/POSITIONER	EQUIPMENT SYMBOL MIXER OR AGITATOR (MX) INLINE STATIC MIXER HEATER (HE) ELECTRIC HEATER (EH) INJECTION QUILL EDUCTOR/EJECTOR (ED) POSITIVE DISPLACEMENT PUMP W/MANUAL STROKE ADJUSTMENT (MP) POSITIVE DISPLACEMENT PUMP W/ELECTRIC STROKE ADJUSTMENT (MP) ROTARY COMPRESSOR OR BLOWER AIR FILTER BLOWER OR FAN (BW OR FN) VACUUM PUMP (VP) DIAPHRAGM PUMP (P) CENTRIFUGAL PUMP (P) HIGH PRESSURE PUMP (P) DESICCANT BREATHER VENT PIPE Y-STRAINER RUPTURE DISC DIAPHRAGM SEAL STANDPIPE (SP) CALIBRATION COLUMN (CC) AIR COMPRESSOR (AC) PNEUMATIC VIBRATOR (VB)	RO/UF MODULE FILTER – BASKET (BAF) FILTER (F) HOUSING CLOSED TOP TANK (TK) CONE BOTTOM TANK (TK) OPEN TOP TANK (TK) WITH COVER PLATE HEAT EXCHANGER (HX) SHELL AND TUBE HEAT EXCHANGER (HX) CONE CONSTRAINT (CSTR) PERISTALTIC HOSE PUMP (P) FLEXIBLE CONNECTION MISCELLANEOUS SYMBOLS LINE, EQUIPMENT OR PRODUCT REFERENCES INTO OR LEAVING DWG. TIE IN TO PIPING BY OTHERS 304 CPVC PIPING MATERIAL SPEC. BREAK SOLENOID VALVE OPERATION 3-WAY FAIL OPEN TO PATH A-C 4-WAY FAIL OPEN TO PATHS A-C AND D-B	A/S AIR SUPPLY N/S NITROGEN SUPPLY CONCENTRIC REDUCING ECCENTRIC REDUCING ENCLOSURE (CAP) FLANGE END CLOSURE (BLIND FLANGE) END CLOSURE (VIC PLUG) QUICK DISCONNECT UNION SANITARY CONNECTION FLOOR DRAIN OR SUMP BULKHEAD EXPANSION JOINT FILL SYMBOLS SPLASH FILL FILM FILL NET FILL	INSTRUMENT LINE SYMBOLS PNEUMATIC SIGNAL (ANALOG) PNEUMATIC SIGNAL (DIGITAL) ELECTRICAL SIGNAL (ANALOG – 4–20mA OR 1–10 VDC) ELECTRICAL SIGNAL (FREQUENCY OR PULSE) CAPILLARY TUBING (FILLED TUBING) CONNECTION TO PROCESS, OR INSTRUMENT SUPPLY FLUID LINE SYMBOLS EFFECT 1 BRINE (90°C) EFFECT 2 BRINE (75°C) EFFECT 3 BRINE (60°C) EFFECT 4 BRINE (45°C) EFFECT 5 BRINE (30°C) GIP RAW FEED CONDENSED WATER (70°C – 40°C) THERMAL LOOP (CYCLOC) EVAPORATE COMPRESSED AIR LINE ACID DOSING BASE DOSING ANTIFOAM BIOFILM TREATMENT SOLUTION MISCELLANEOUS LINE SYMBOLS SYSTEM BOUNDARY	INSTRUMENT SYMBOLS LOCALLY MOUNTED PANEL MOUNTED (MAIN OR REMOTE) SHARED DISPLAY (CRT) AND/OR SHARED CONTROL CONTROL SYMBOLS DISCRETE INPUT TO PLC DISCRETE OUTPUT FROM PLC ANALOG INPUT TO PLC ANALOG OUTPUT FROM PLC EQUIPMENT IDENTIFICATION M – MOTOR AS – AIR SEAL VFD – VARIABLE FREQUENCY DRIVE DRY – DRYER MODULE IDENTIFICATION EVP – EVAPORATOR MODULE RAD – RADIATOR MODULE FAN – FAN MODULE MATERIAL ABBREVIATIONS PP – POLYPROPYLENE PVC – POLYVINYL CHLORIDE UPVC – POLYVINYL CHLORIDE P – POLYETHYLENE (N LINE NUMBER) CPVC – CHLORINATED POLYVINYL CHLORIDE C – CHLORINATED POLYVINYL CHLORIDE (N LINE NUMBER) HDPE – HIGH DENSITY POLYETHYLENE PVDF – POLYVINYLIDENE FLUORIDE PVFB – PVDF BEADLESS & CREVICE FREE PVFL – PVDF LINED PTE – TEFLON 304 – 304 STAINLESS STEEL 304L – 304L STAINLESS STEEL 316 – 316 STAINLESS STEEL 316L – 316L STAINLESS STEEL	INSTRUMENT IDENTIFICATION PARAMETER (1ST LETTER) P – PRESSURE F – FLOW T – TEMPERATURE C – CONDUCTIVITY D – DENSITY Z – POSITION A – ANALYTICAL (SEE NOTES) TYPE (2ND AND 3RD LETTER) I – INDICATING/INDICATOR T – TRANSMITTER E – ELEMENT/PROBE A – ALARM S – SWITCH NOTES: 1. THE DESCRIPTION OF AN ANALYTICAL VARIABLE FUNCTION (pH, SiO₂, O₂, ETC.) SHALL BE SHOWN OUTSIDE THE INSTRUMENT SYMBOL. EXAMPLE: 2. ADD THE SUFFIX L (LOW), LL (LOW-LOW), H (HIGH), HH (HIGH-HIGH), HL (HIGH-LOW), AS REQUIRED. EXAMPLE:																									
					LINE NUMBERING E1BR4-001-P80 FLUID SIZE SCHEDULE MATERIAL SEQUENTIAL NUMBER VALVE NUMBERING 681-015-BA17-0001 AREA CODE VALVE SIZE VALVE TYPE SEQUENTIAL NUMBER VALVE SIZE CONVERSION <table><tr><th>MM</th><th>INCH</th></tr><tr><td>108</td><td>1/4</td></tr><tr><td>115</td><td>1/2</td></tr><tr><td>125</td><td>1</td></tr><tr><td>150</td><td>2</td></tr><tr><td>100</td><td>4</td></tr><tr><td>150</td><td>6</td></tr></table> VALVE TYPE CONVERSION <table><tr><td>BA17</td><td>- BALL VALVE</td></tr><tr><td>BA99</td><td>- TOUGH BALL VALVE</td></tr><tr><td>BF99</td><td>- TOUGH BUTTERFLY VALVE (EXCEPT THOSE NOTED "NON TOUGH")</td></tr><tr><td>CK99</td><td>- CHECK VALVE</td></tr><tr><td>GA99</td><td>- GATE VALVE</td></tr></table>	MM	INCH	108	1/4	115	1/2	125	1	150	2	100	4	150	6	BA17	- BALL VALVE	BA99	- TOUGH BALL VALVE	BF99	- TOUGH BUTTERFLY VALVE (EXCEPT THOSE NOTED "NON TOUGH")	CK99	- CHECK VALVE	GA99	- GATE VALVE	DRAWING STATUS: FACTORY AS BUILT THIS DOCUMENT EMBODIES DESIGNS AND INFORMATION THAT ARE PROPRIETARY TO SALTWORKS. IT IS TO BE USED ONLY FOR THE PURPOSE AND BY THE ENTITY FOR WHICH IT WAS ORIGINALLY SUPPLIED. THE DOCUMENT MAY NOT BE DUPLICATED OR DISCLOSED TO OTHER PERSON OR ENTITY, OR USED FOR MANUFACTURE OF THE ITEM IN PART OR IN WHOLE WITHOUT THE PRIOR WRITTEN PERMISSION OF SALTWORKS. DO NOT SCALE DRAWING	LTR N K L M DATE 06-JUL-2018 23-FEB-2018 16-MAR-2018 20-APR-2018 DESCRIPTION PINCH VALVE LEGEND ADDED NO CHANGES NO CHANGES NO CHANGES REV. BY: JLAU - - -	TITLE: SALTMAKER GEN III PROJECT: SALTMAKER GEN III PREPARED BY: JLAU CHECKED BY: MLOW APPROVED BY: APPROVED BY DATE: 01-SEP-2017 DATE: 05-SEP-2017 DATE: APPROVED DATE DWG. NO: LEGEND JOB/CD NO: (JOB NO.) SHEET: # OF # CUSTOMER: AGNICO EAGLE MINES REVISION N
MM	INCH																															
108	1/4																															
115	1/2																															
125	1																															
150	2																															
100	4																															
150	6																															
BA17	- BALL VALVE																															
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CK99	- CHECK VALVE																															
GA99	- GATE VALVE																															
1	Saltworks 13600 Steveston Hwy Richmond, BC, Canada, V6W 1A8 Tel: 604.628.6508 Fax: 604.676.2463 www.saltworkstech.com																															

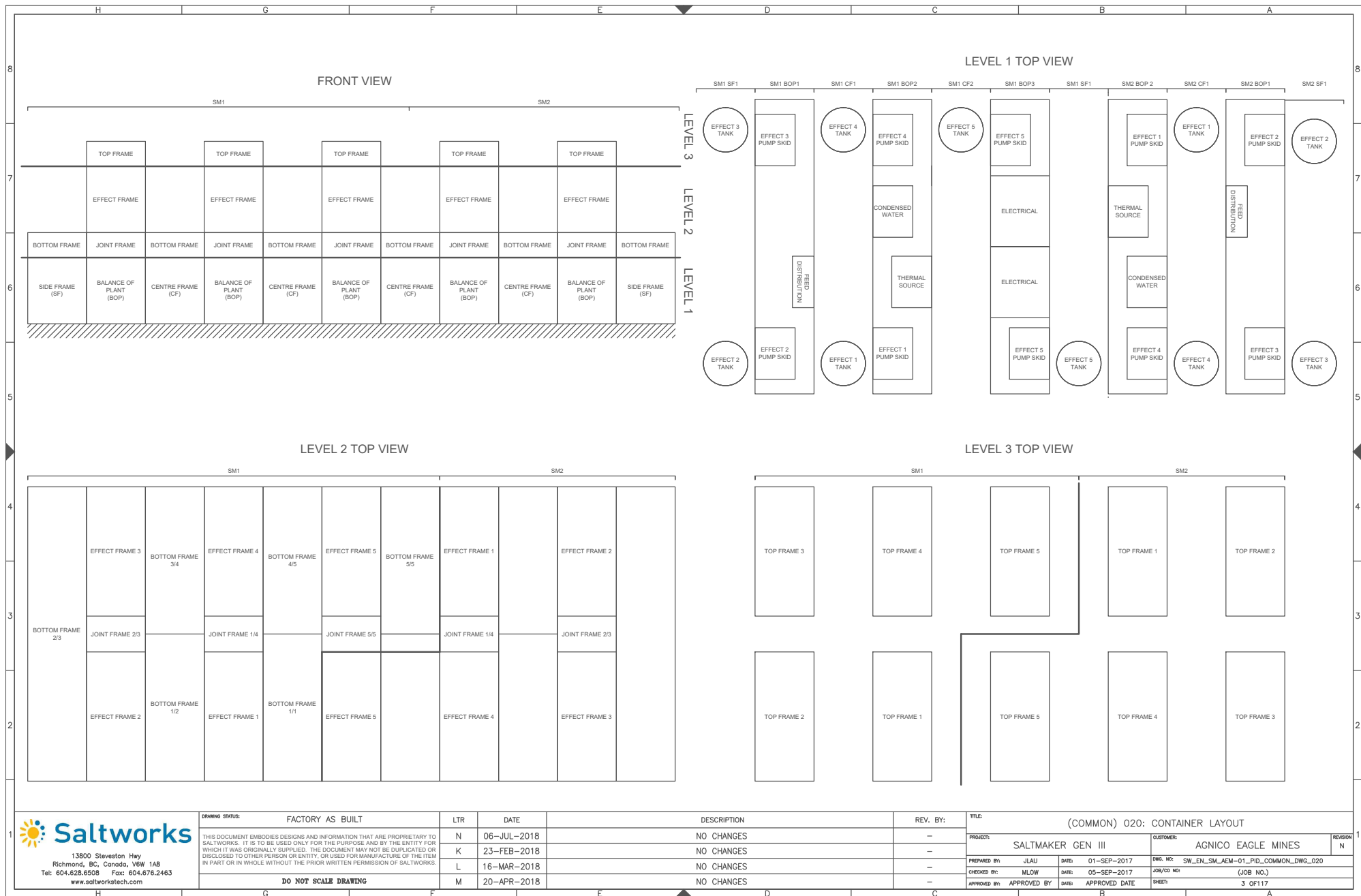


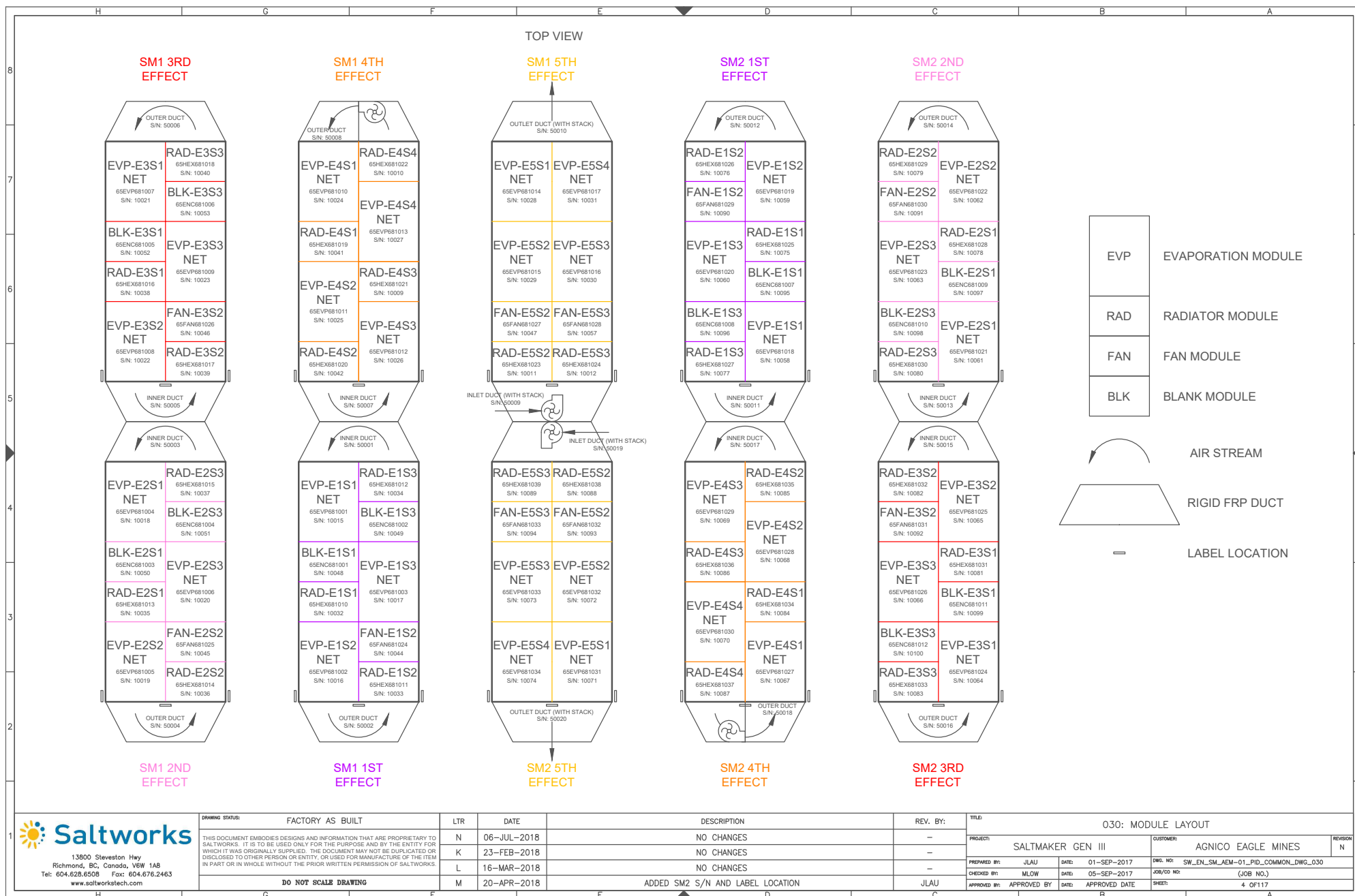
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www.saltworkstech.com

DRAWING STATUS:	FACTORY AS BUILT	LTR	DATE	DESCRIPTION	REV. BY:	TITLE:	(COMMON) 000: MASTER PFD	REVISION
		N	06-JUL-2018	NO CHANGES	-	PROJECT:	SALTMAKER GEN III	1
		K	23-FEB-2018	NO CHANGES	-	CUSTOMER:	AGNICO EAGLE MINES	N
		L	16-MAR-2018	NO CHANGES	-	PREPARED BY:	PREPARED BY	
		M	20-APR-2018	NO CHANGES	-	CHECKED BY:	CHECKED BY	
						DATE:	DATE	
						APPROVED BY:	APPROVED BY	
						DATE:	DATE	
						DWG. NO:	SW_EN_SM_AEM-01_PID_COMMON_DWG_000	
						JOB/CD NO:	(JOB NO.)	
						SHEET:	1 OF 117	

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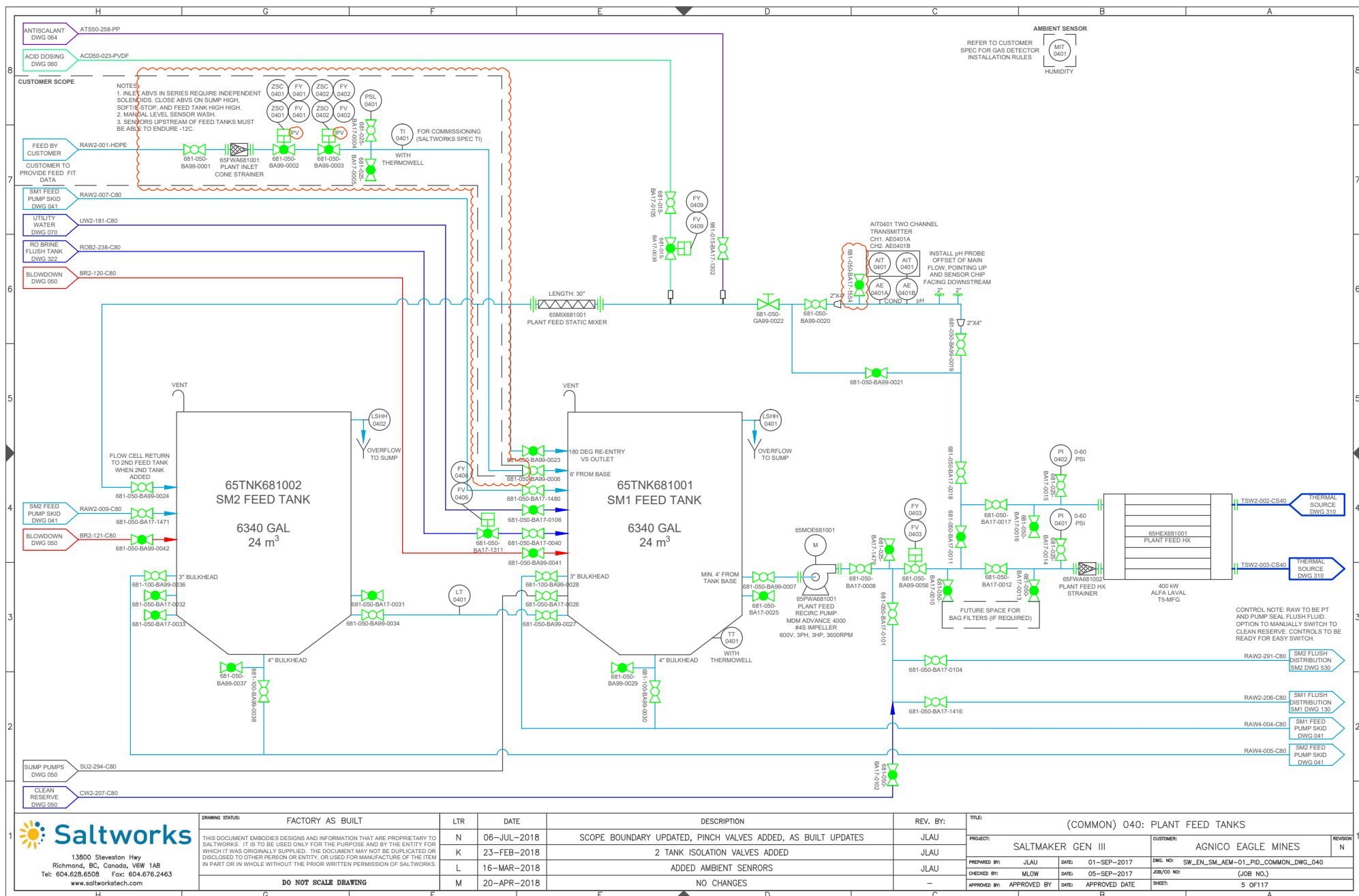


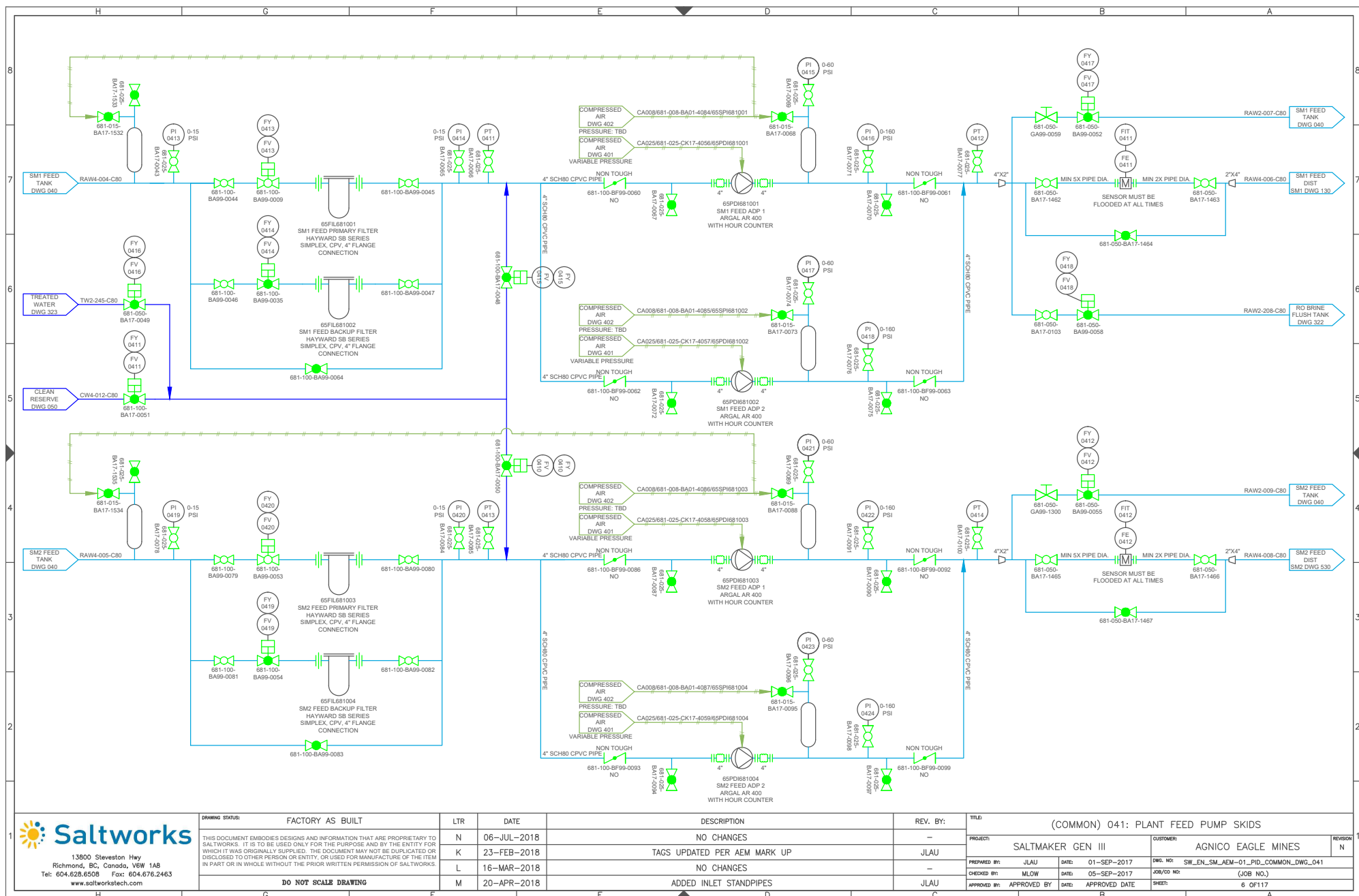
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Tel: 604.628.6508 Fax: 604.676.2463
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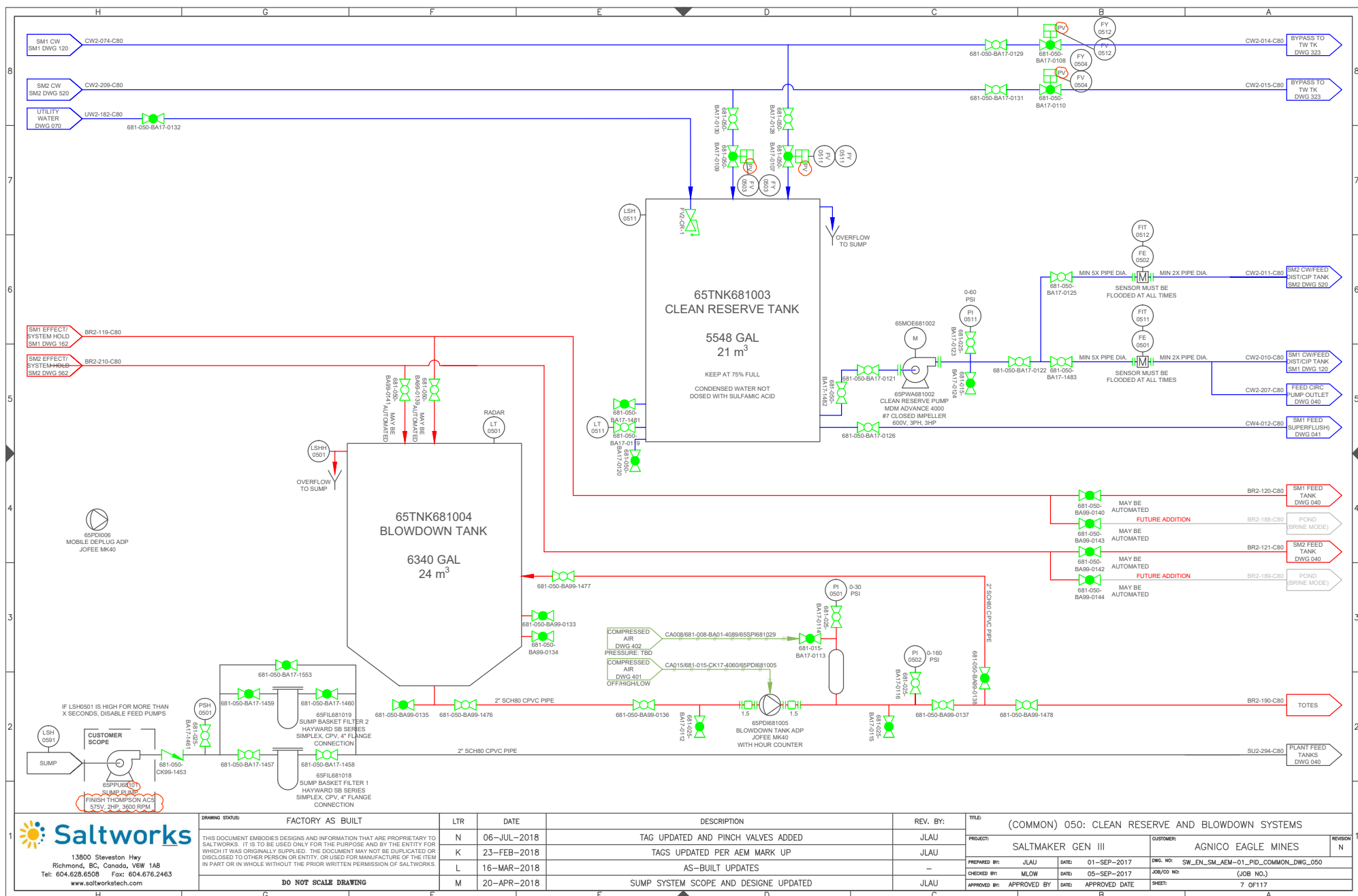
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LTR	DATE	DESCRIPTION
N	06-JUL-2018	NO CHANGES
K	23-FEB-2018	NO CHANGES
L	16-MAR-2018	NO CHANGES
M	20-APR-2018	ADDED SM2 S/N AND LABEL LOCATION

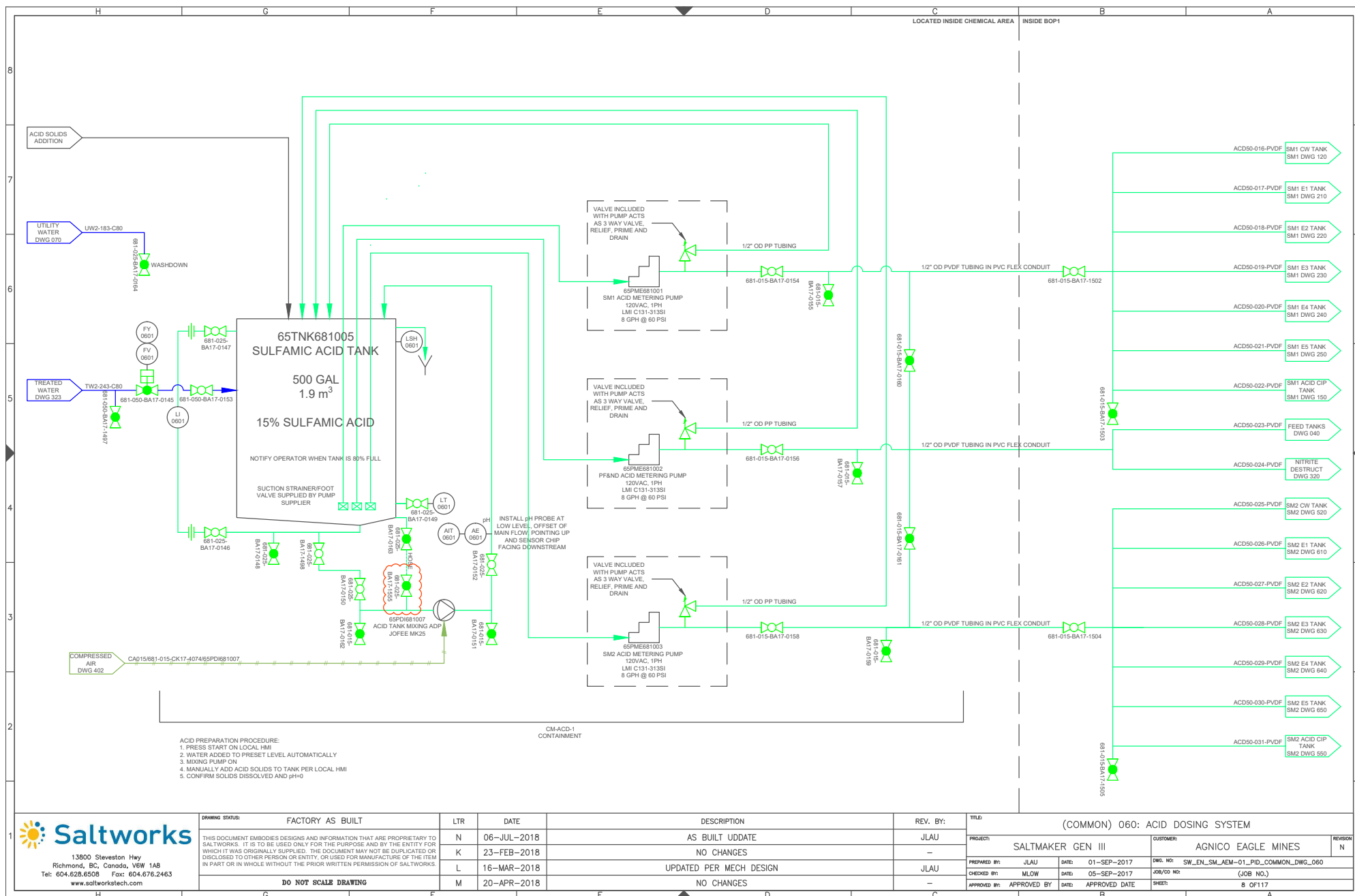
REV. BY:	TITLE:
—	030: MODULE LAYOUT
PROJECT:	SALTMAKER GEN III
CUSTOMER:	AGNICO EAGLE MINES
PREPARED BY:	JLAU
DATE:	01-SEP-2017
DWG. NO.:	SW_EN_SM_AEM-01_PID_COMMON_DWG_030
CHECKED BY:	MLOW
DATE:	05-SEP-2017
JOB/CD NO.:	(JOB NO.)
APPROVED BY:	APPROVED BY
DATE:	APPROVED DATE
SHEET:	4 OF 117

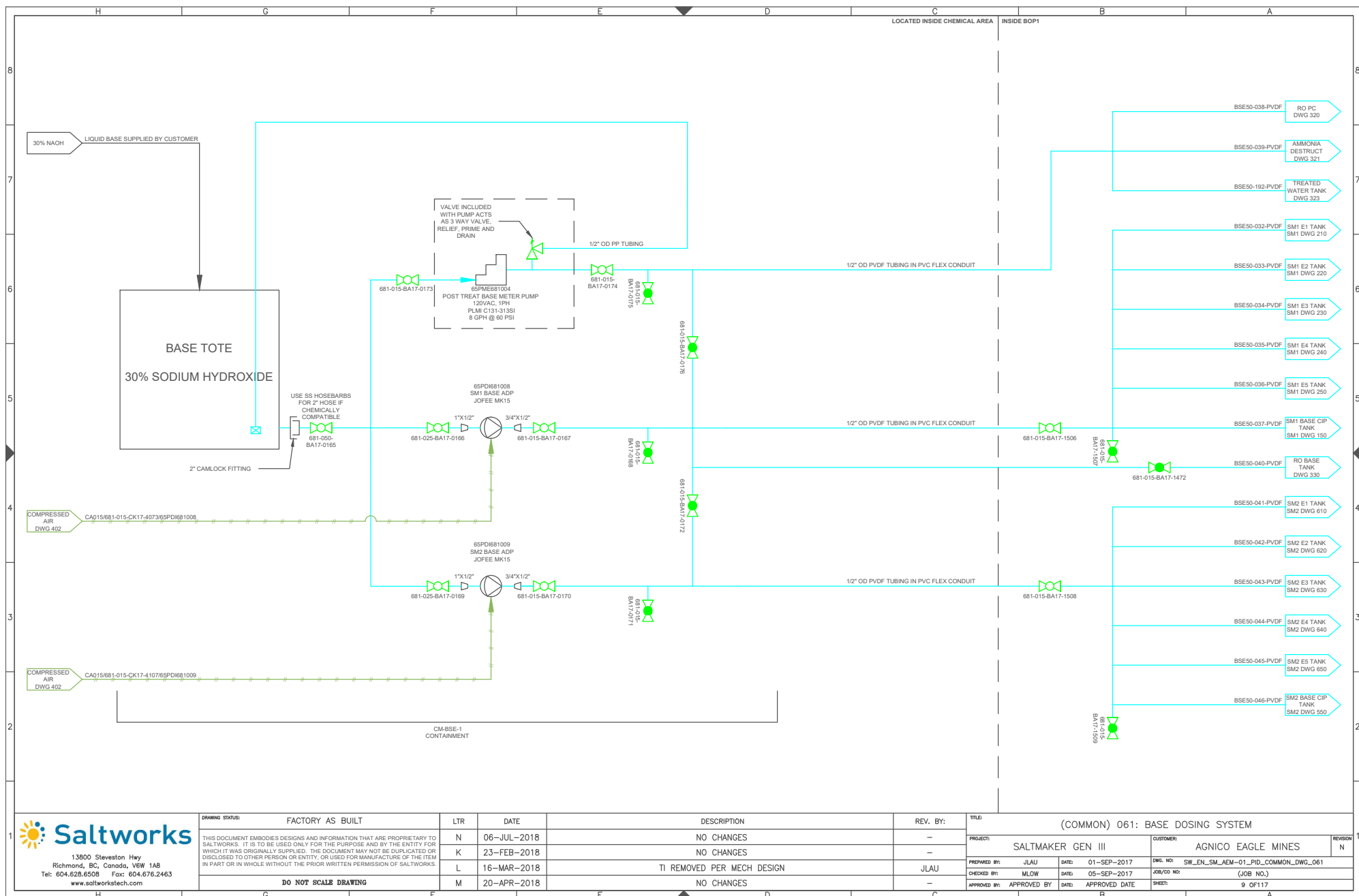


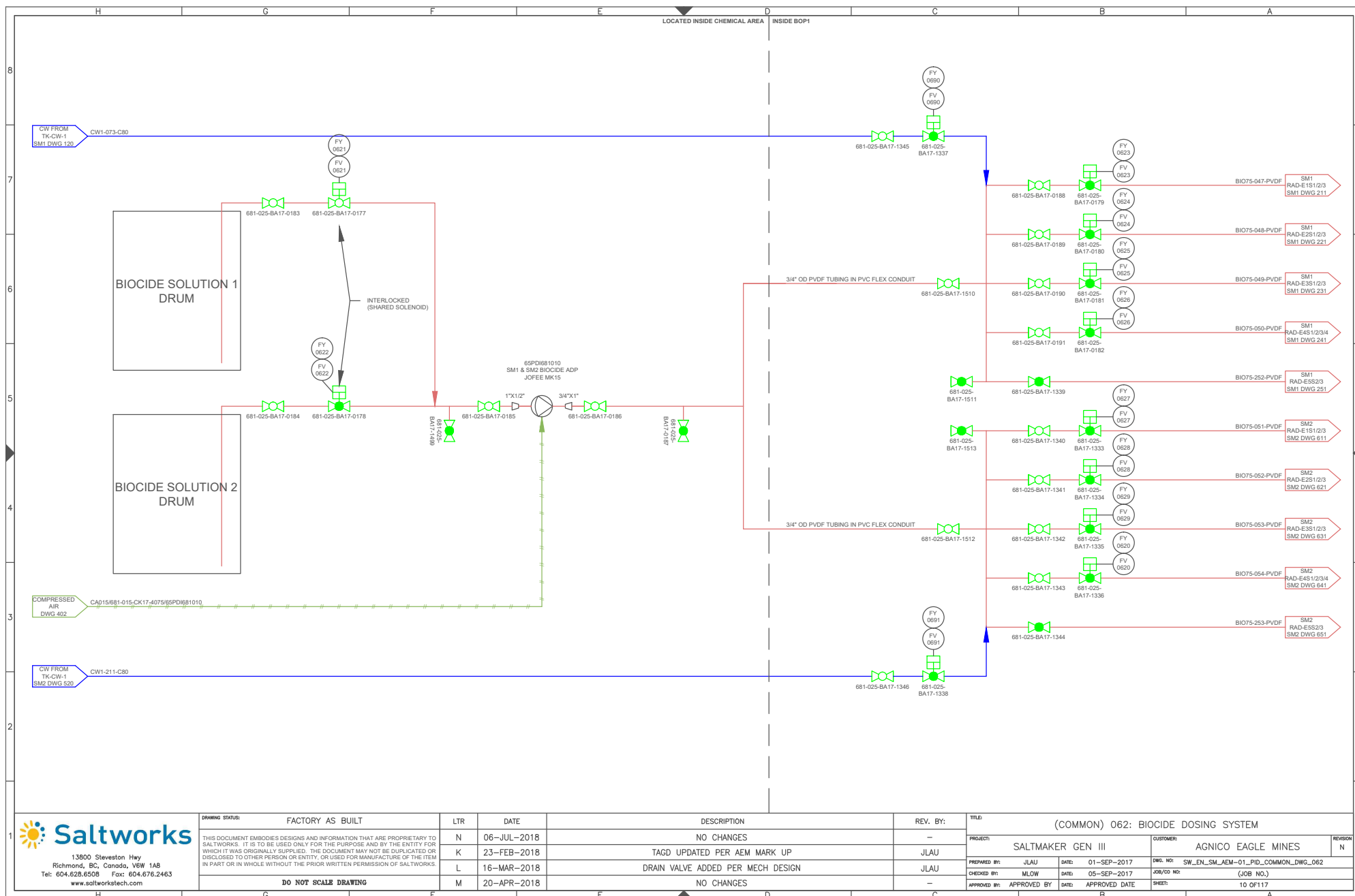




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	K	23-FEB-2018		TAGS UPDATED PER AEM MARK UP	JLAU					N	
	L	16-MAR-2018		AS-BUILT UPDATES	-	PREPARED BY:	JLAU	DATE:	01-SEP-2017	DWG. NO:	SW_EN_SM_AEM-01_PID_COMMON_DWG_050
	M	20-APR-2018		SUMP SYSTEM SCOPE AND DESIGN UPDATE	JLAU	CHECKED BY:	MLW	DATE:	05-SEP-2017	JOB/CO NO:	(JOB NO.)
DO NOT SCALE DRAWING						APPROVED BY:	APPROVED BY	DATE:	APPROVED DATE	SHEET:	7 OF 117





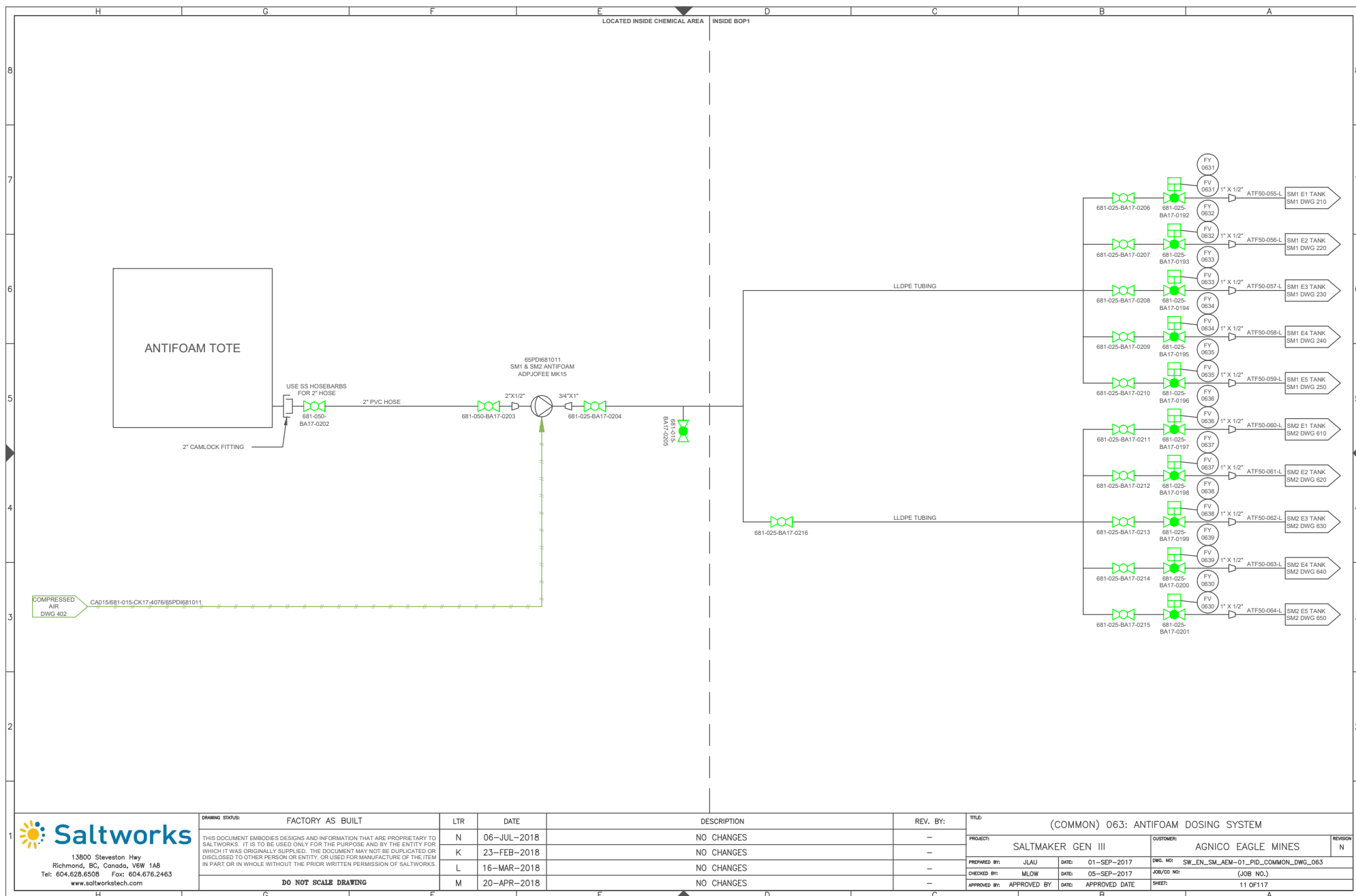


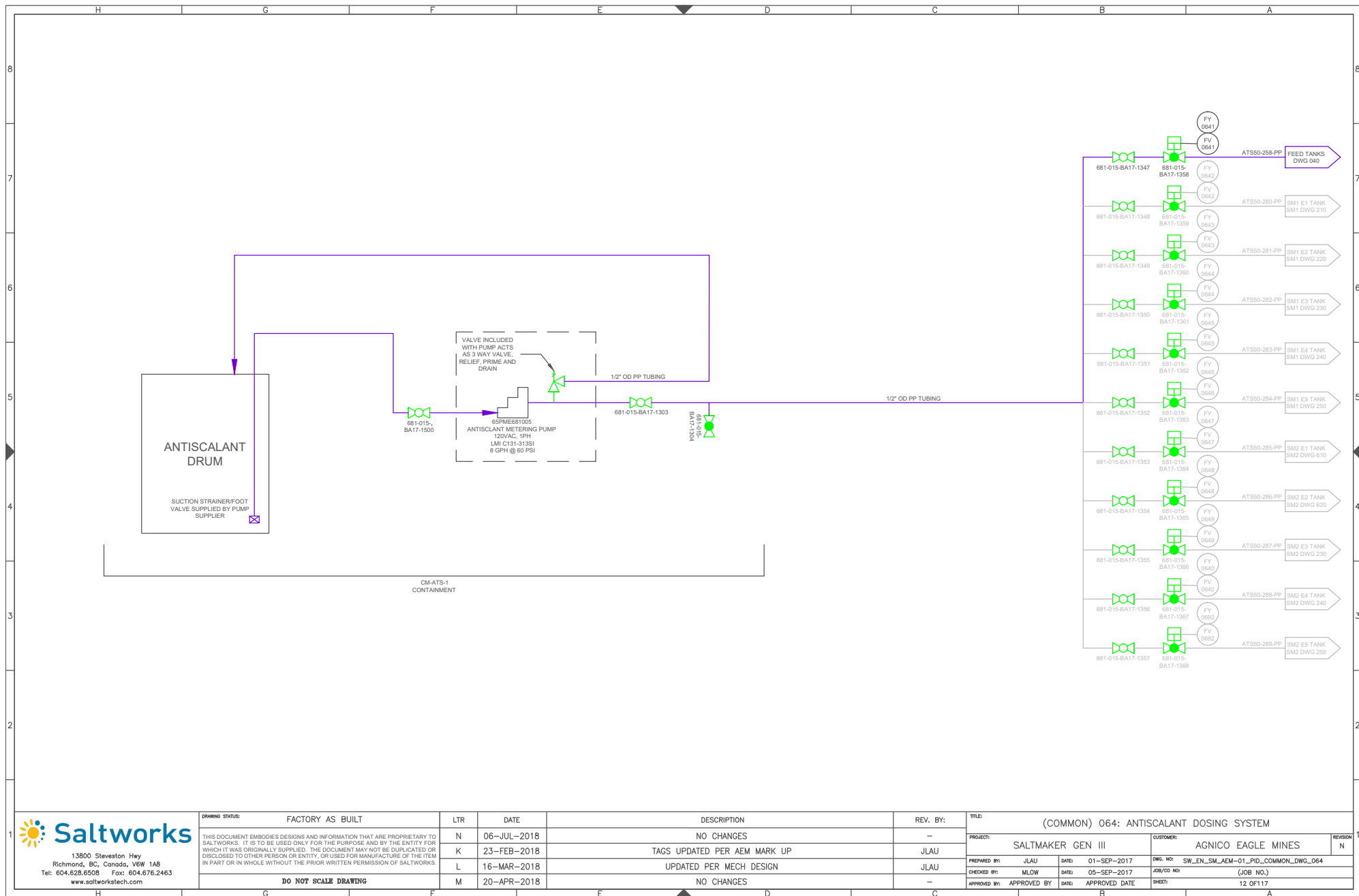
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LTR	DATE	DESCRIPTION
N	06-JUL-2018	NO CHANGES
K	23-FEB-2018	TAGD UPDATED PER AEM MARK UP
L	16-MAR-2018	DRAIN VALVE ADDED PER MECH DESIGN
M	20-APR-2018	NO CHANGES

REV. BY:	TITLE:
-	(COMMON) 062: BIOCID E DOSING SYSTEM
JLAU	PROJECT: SALTMAKER GEN III
JLAU	CUSTOMER: AGNICO EAGLE MINES
MLOW	PREPARED BY: JLAU
APPROVED BY	CHECKED BY: MLOW
APPROVED DATE	DATE: 01-SEP-2017
	DATE: 05-SEP-2017
	DATE: APPROVED DATE
	DWG. NO: SW_EN_SM_AEM-01_PID_COMMON_DWG_062
	JOB/CD NO: (JOB NO.)
	SHEET: 10 OF 117





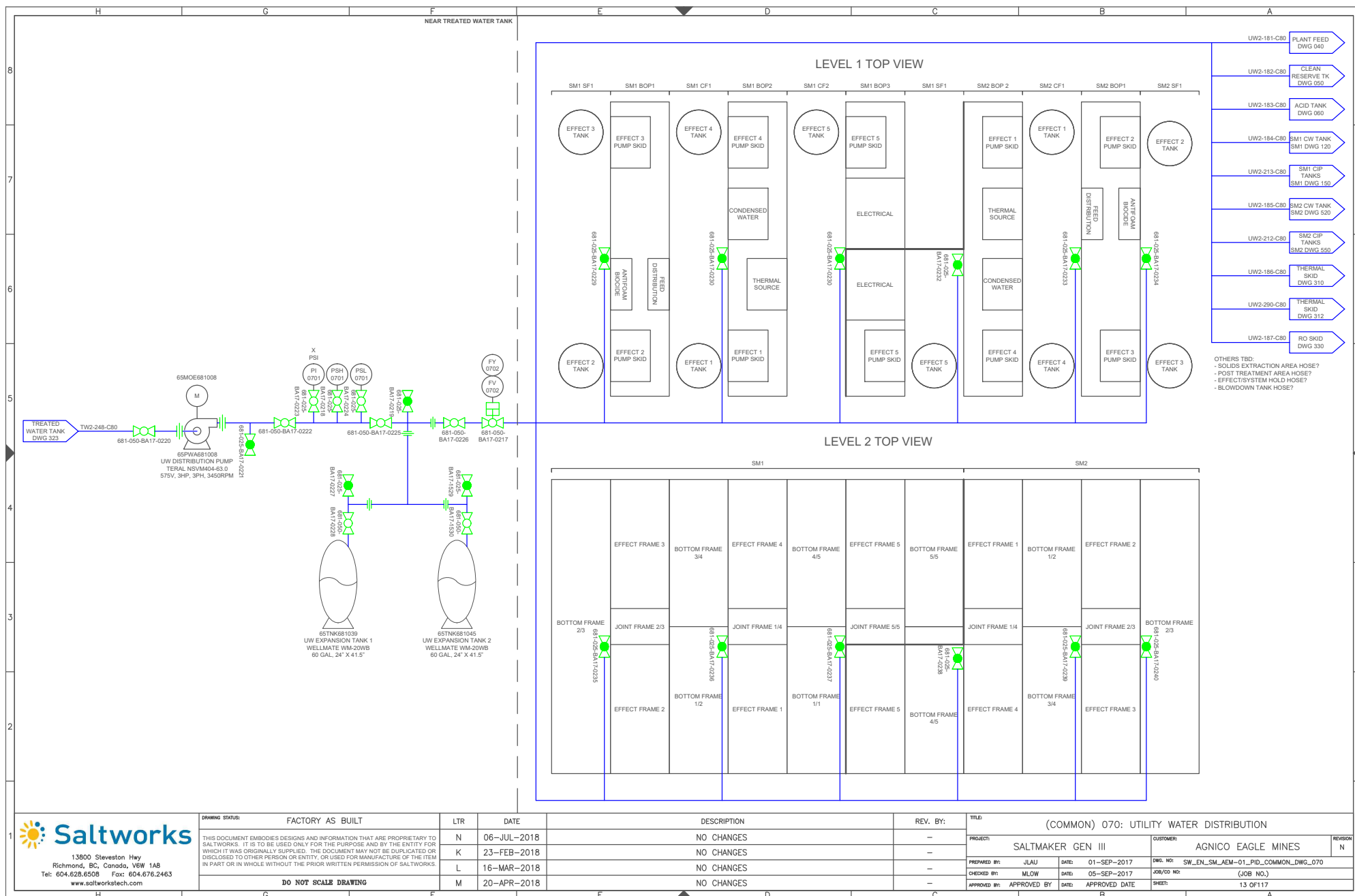
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Richmond, BC, Canada, V6W 1A8
Tel: 604.628.6508 Fax: 604.676.2463
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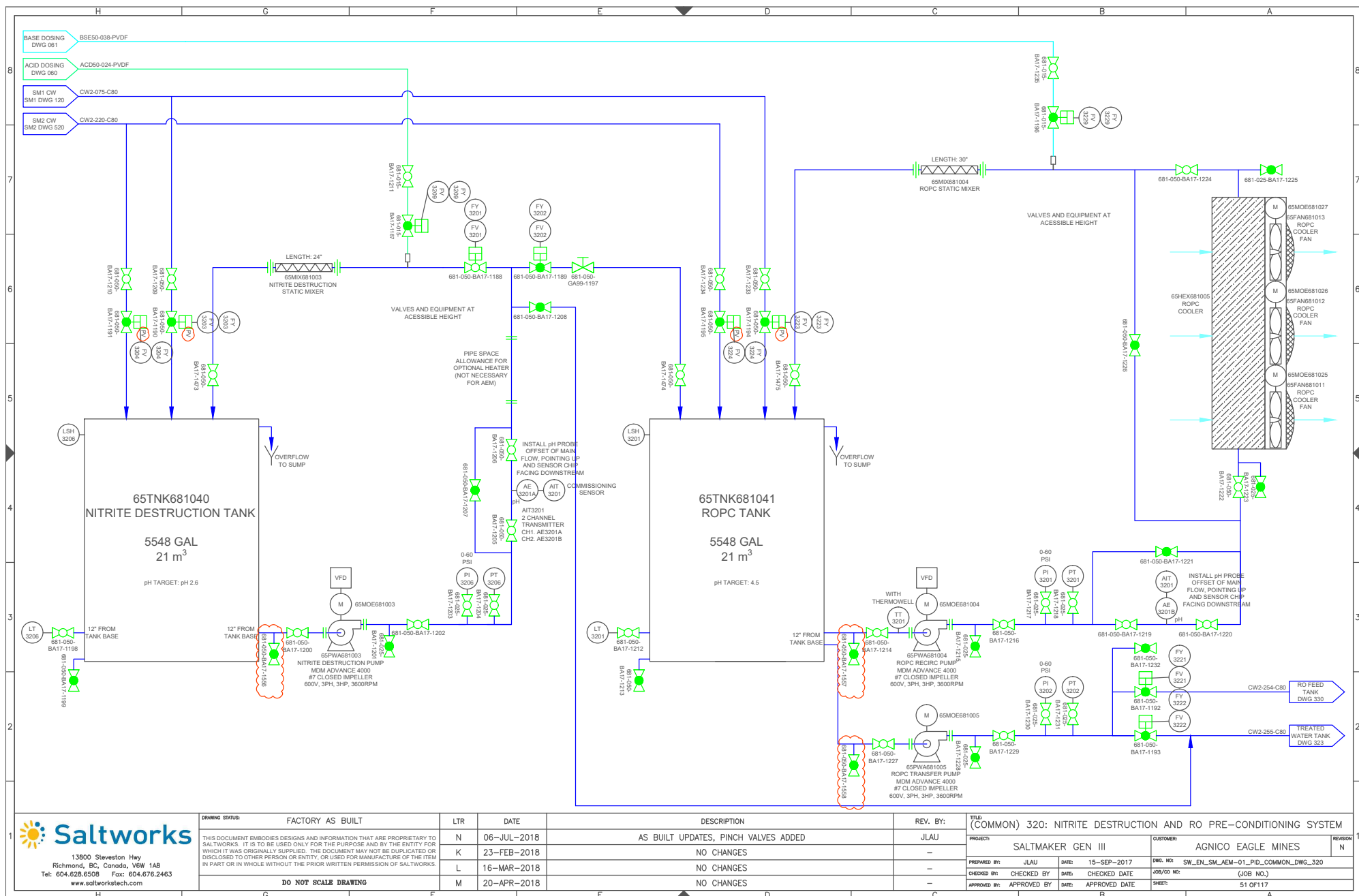
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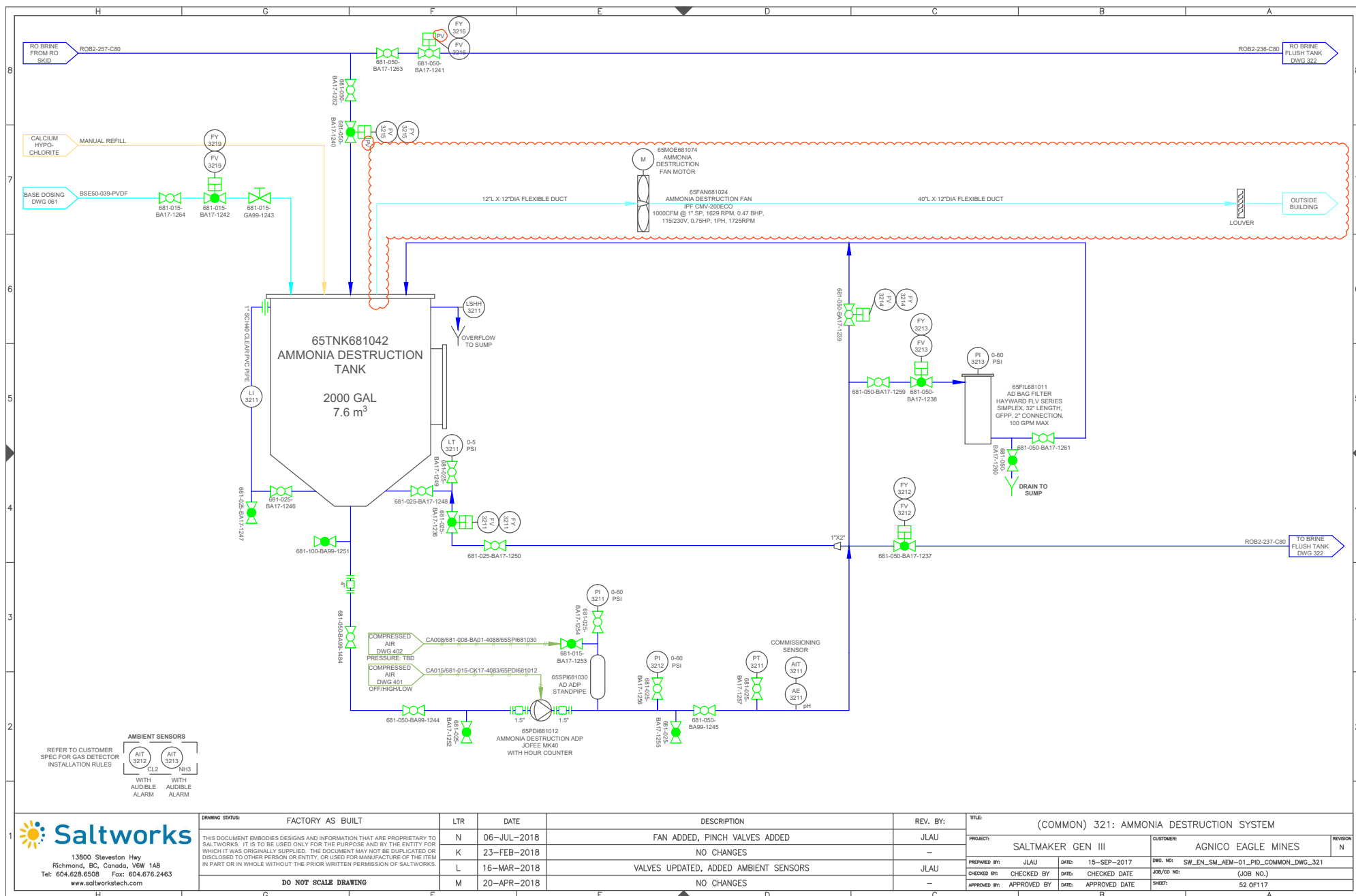
LTR	DATE	DESCRIPTION	REV. BY:
N	06-JUL-2018	NO CHANGES	-
K	23-FEB-2018	TAGS UPDATED PER AEM MARK UP	JLAU
L	16-MAR-2018	UPDATED PER MECH DESIGN	JLAU
M	20-APR-2018	NO CHANGES	-

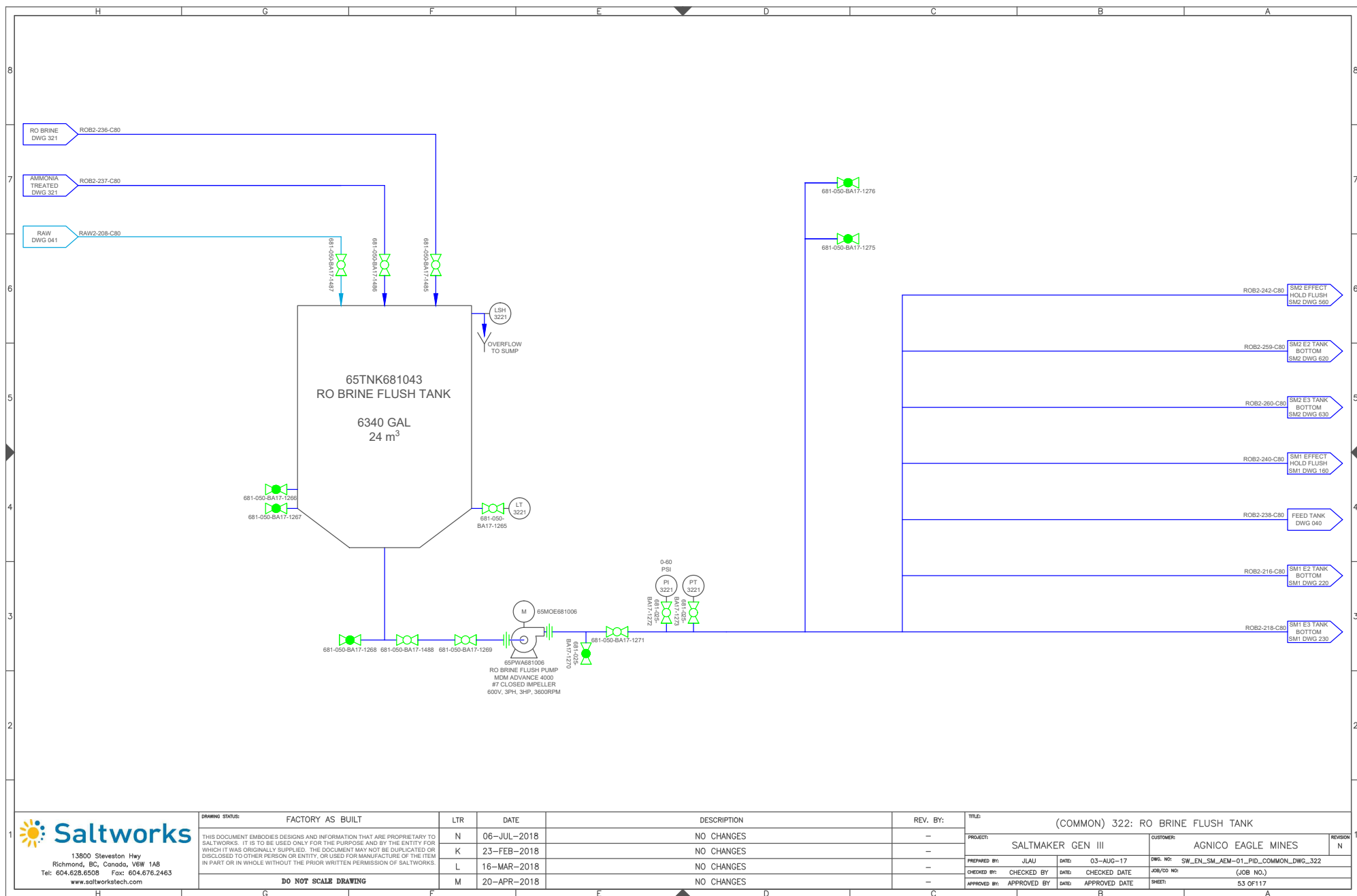
TITLE: (COMMON) 064: ANTISCALANT DOSING SYSTEM			
PROJECT:	SALTMAKER GEN III	CUSTOMER:	AGNICO EAGLE MINES
PREPARED BY:	JLAU	DATE:	01-SEP-2017
CHECKED BY:	MLOW	DATE:	05-SEP-2017
APPROVED BY:	APPROVED BY	DATE:	APPROVED DATE

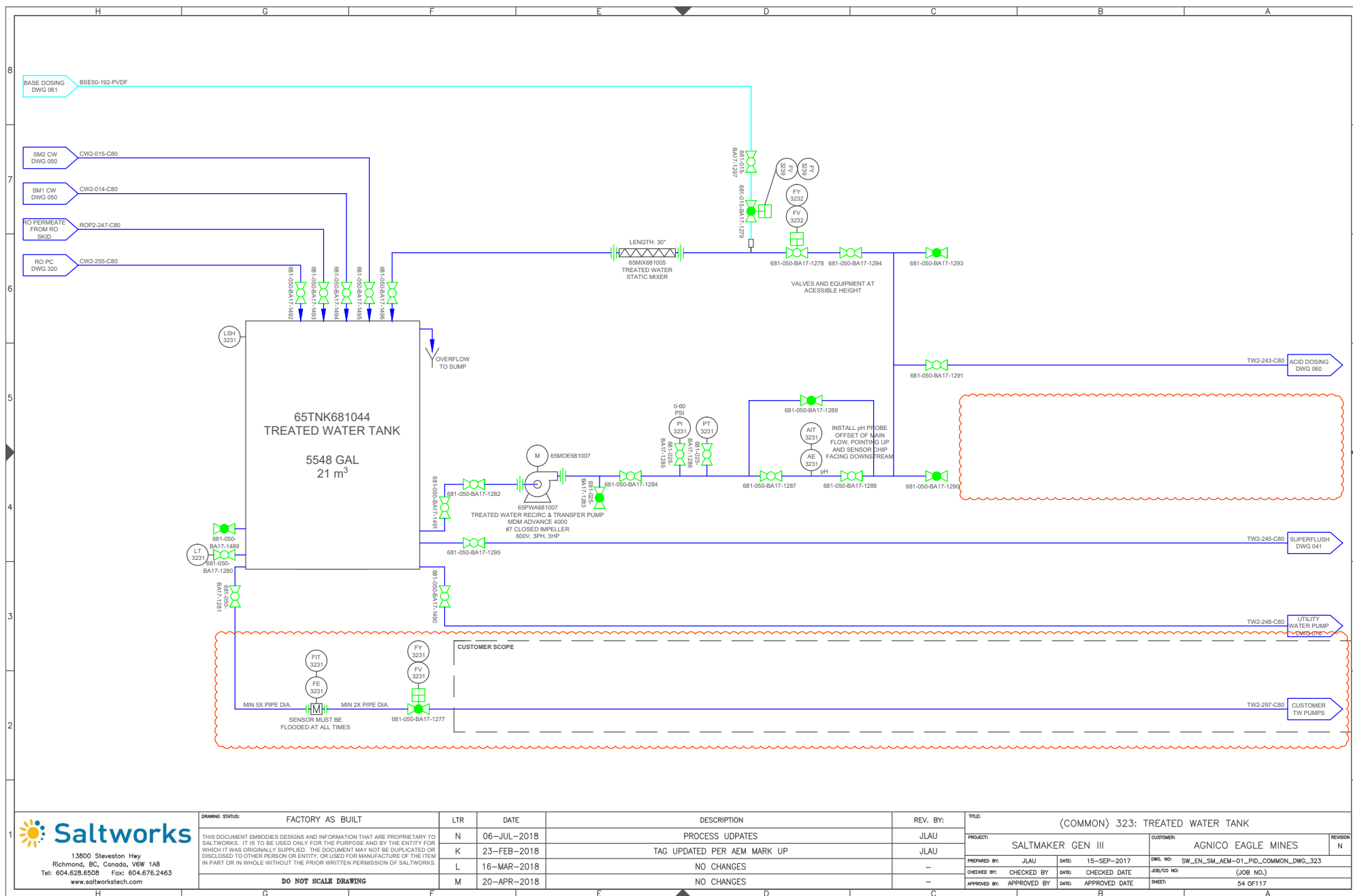
REVISION	N
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		K	23-FEB-2018	TAG UPDATED PER AEM MARK UP	JLAU					N	
		L	16-MAR-2018	NO CHANGES	—	PREPARED BY:	JLAU	DATE:	15-SEP-2017	DWG. NO:	SW_EN_SM_AEM-01_PID_COMMON_DWG_323
						CHECKED BY:	CHECKED BY	DATE:	CHECKED DATE	JOB/CD NO:	(JOB NO.)
						APPROVED BY:	APPROVED BY	DATE:	APPROVED DATE	SHEET:	54 OF 117
	DO NOT SCALE DRAWING	M	20-APR-2018	NO CHANGES	—						