BMS–120

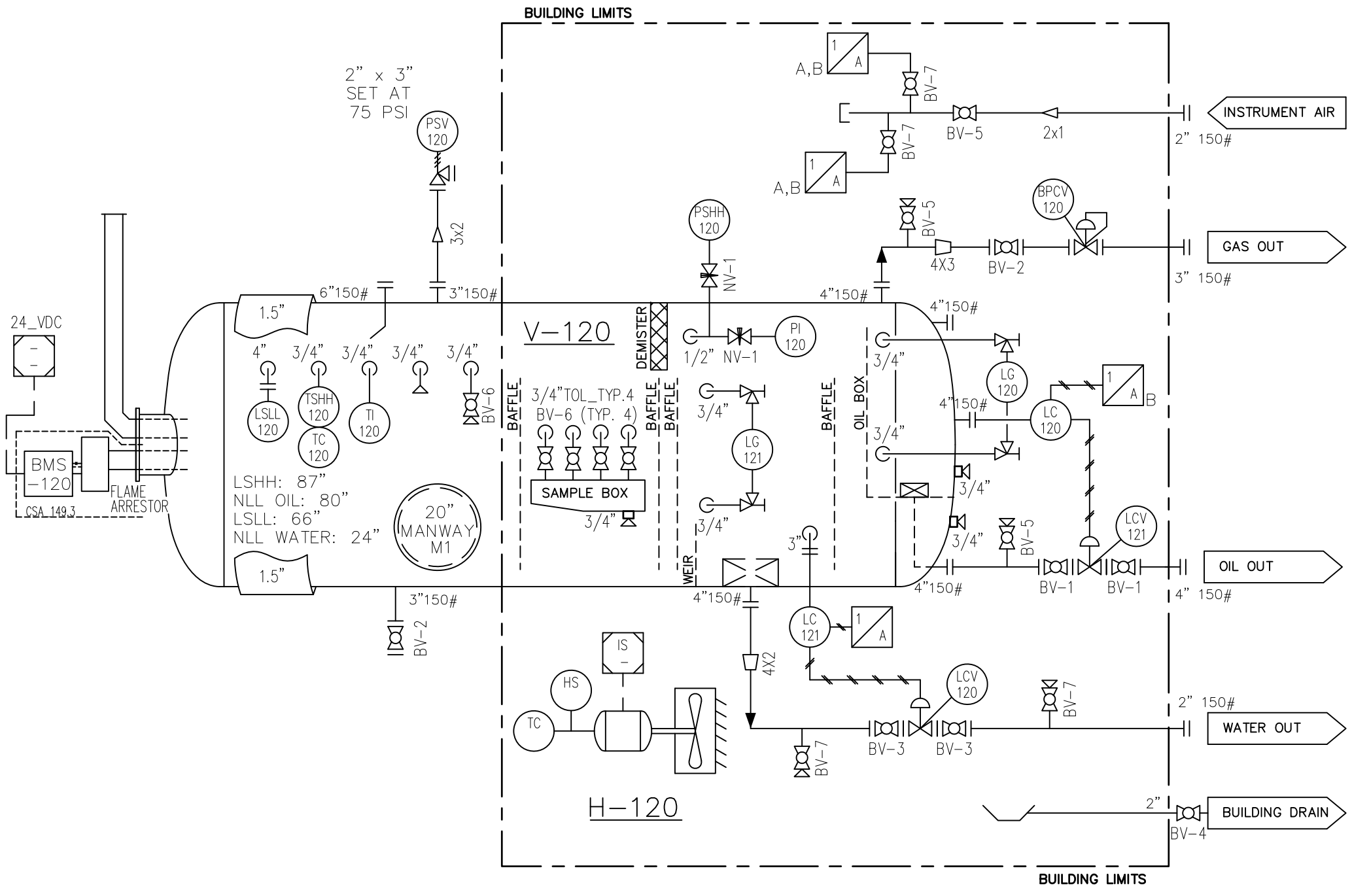
PROFIRE 2100 BURNER MANAGEMENT SYSTEM (BMS) w/MODBUS
COMMUNICATIONS PORT FOR SCADA & PLC CONNECTIONS
INTERNAL FIRE BLANKET, LOW PRESSURE FLAME SCAVENGER
BURNER/LOW NOX, FLUE GAS RECYCLE TUBE
IGN50, PSH, PSL, DUAL SD VALVES, REGS, 30PSI PSV
BURNER 4" w/DRY GAS PILOT: 4"LP MIXER, 4" COMPOUND & SLEEVE,
6"x12" TURBULATOR NOZZLE
FIREBOX 30": 30"FLAME ARRESTOR, SAI DAMPENER, FIRE VIEW LENS
VENT LINE c/w TWO 10'–0" 304SS TUBING w/SCREEN, TWO 1" NPT
C.S.TUBE FITTINGS

V–120

TREATER
96" OD x 30'–0" x 75 PSI
MAWP: 517 kPag @ 110°C (75 PSI @ 230°F)
MDMT: –29°C(–20°F) @ 517 Kpag (75 PSI)
C.A.: 3.2mm (1/8"),
PWHT, RT–1,
HYDROTEST: 113 PSI HOLD 1Hr.
VESSEL INTERNAL COATING (Optional):
SP5 BLAST & APPLY 12–14 mils DFT DEVOE 253
& INCLUDES 304 SS ACCESS HATCH IN COATED CARBON WEIR

H–120

BUILDING HEATER
RUFFNECK
FX5–480–3–60–050–T
480V, 3 PHASE, 60z, 5Kw
BUILT IN THERMOSTAT



BILL OF MATERIAL

ITEM	DESCRIPTION
24" FIRETUBE	FIRETUBE, 24" x 17'–0" Lg., 2.20MM BTU/HR
	c/w KENILWORTH CSA 149.3 COMPLIANT BURNER SYSTEM (SEE: BMS–120)
BPCV–120	BACK PRESSURE CONTROL VALVE, KIMRAY 3" 150 ANSI, RF, 312–FGT–BP, 301–AAE–C
LC–120/121	FISHER L2 LOW BLEED, THROTTLING 6–30 PSI OUTPUT (NACE MR–01–75) 2" NPT
LCV–120	CONTROL VALVE, KIMRAY 2" 150 ANSI, RF, 212–FMT DIAPHRAM BALANCED,
	c/w TRAVEL INDICATOR CAST IRON BODY, Ref:EWC
LCV–121	CONTROL VALVE, KIMRAY 4" 150 ANSI, RF, 412–FMT DIAPHRAM BALANCED,
	c/w TRAVEL INDICATOR CAST IRON BODY, Ref:EWN
LG–120	REFLEX GAUGE, PENBERTHY 1RM9 CS, 12 5/8" LENGTH, c/w 330J GAUGE COCK,
	3/4 MNPT x 1/2" FNPT
LG–121	TRANSPARENT GAUGE, PENBERTHY ITM9 CS, 12 5/8" LENGTH,
	c/w 330J GAUGE COCK, 3/4" MNPT x 1/2" FNPT
LSLL–120	LEVEL CONTROL, WELLMARK 790 (SUPPLIED WITH BURNER)
PI–120	WIKA 4" DIAL FACE, WET c/w 1/2" NPT BOTTOM MOUNT, SOUR TRIM, 0–120 PSIG
PSV–120	MERCER RELIEF VALVE, 2" 150 ANSI RF x 3" 150 ANSI RF, ORIFICE "J" SET @ 75 PSI, NACE
PSHH–120	PRESSURE SWITCH, 1/2" NPT CONNECTION, SOR 6AG–EF3–M4–4571 12–100 PSI RANGE
TC–120	DUAL TEMPERATURE SWITCH, IME 8080 PR, RTD, 13.5" INSERTION, DUAL ELEMENT,
	3/4" 316 SS THERMOWELL, 12" U, 0.26" BORE, 304 SS (SUPPLIED WITH BURNER)
TI–120	TREND 0–200°C, DUAL SCALE, 3" DIAL FACE, 1/2" x 9" STEM,
	c/w 1/2" x 3/4" x 9" 304 SS THERMOWELL
TSHH–120	TEMPERATURE SWITCH CCS 646TUE3–7001, 3//4" x 12" 304 SS THERMOWELL
	(SUPPLIED WITH BURNER)

REV. No.	MM	DD	YY	DESCRIPTION	CALC NO.	BY	CHK'D	SIGN'D
1	03	22	21	AS BUILT		JMR	SG	·
0	07	30	20	ISSUED FOR CONSTRUCTION		JMR	SG	·

VALVE LIST

TAG	QTY.	DESCRIPTION
BV–1	2	DHV BV, 4" 150 ANSI RF RP, NACE
BV–2	2	DHV BV, 3" 150 ANSI RF RP, NACE
BV–3	2	DHV BV, 2" 150 ANSI RF FP, NACE
BV–4	1	BV, 2" NPT 2M WOG, RP, LEVER OPERATED, CS A108, NACE TRIM MR–01–75
BV–5	3	DHV BV, 1" NPT 3M, RP, NACE
BV–6	5	DHV BV, 3/4" NPT 3M, RP, NACE
BV–7	4	DHV BV, 1/2" NPT 2M, RP, NACE
NV–1	2	WGI NV 1/2", MNPT x 1/2 FNPT 6000# 316 SS BODY AND STEM

CLIENT:
BROMLEY STOCK
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PROJECT:
OIL TREATER
96" OD x 30'–0" S/S x 75 PSI

TITLE:
P&ID

Wo No.: 191248			
DRAWN BY: J.REIMER	REV. No.: 1	DATE: MM/DD/YY 03/22/2021	
DATE: MM/DD/YY 04/02/2020	SCALE: N.T.S.	CAD No.: 191248–P&ID	