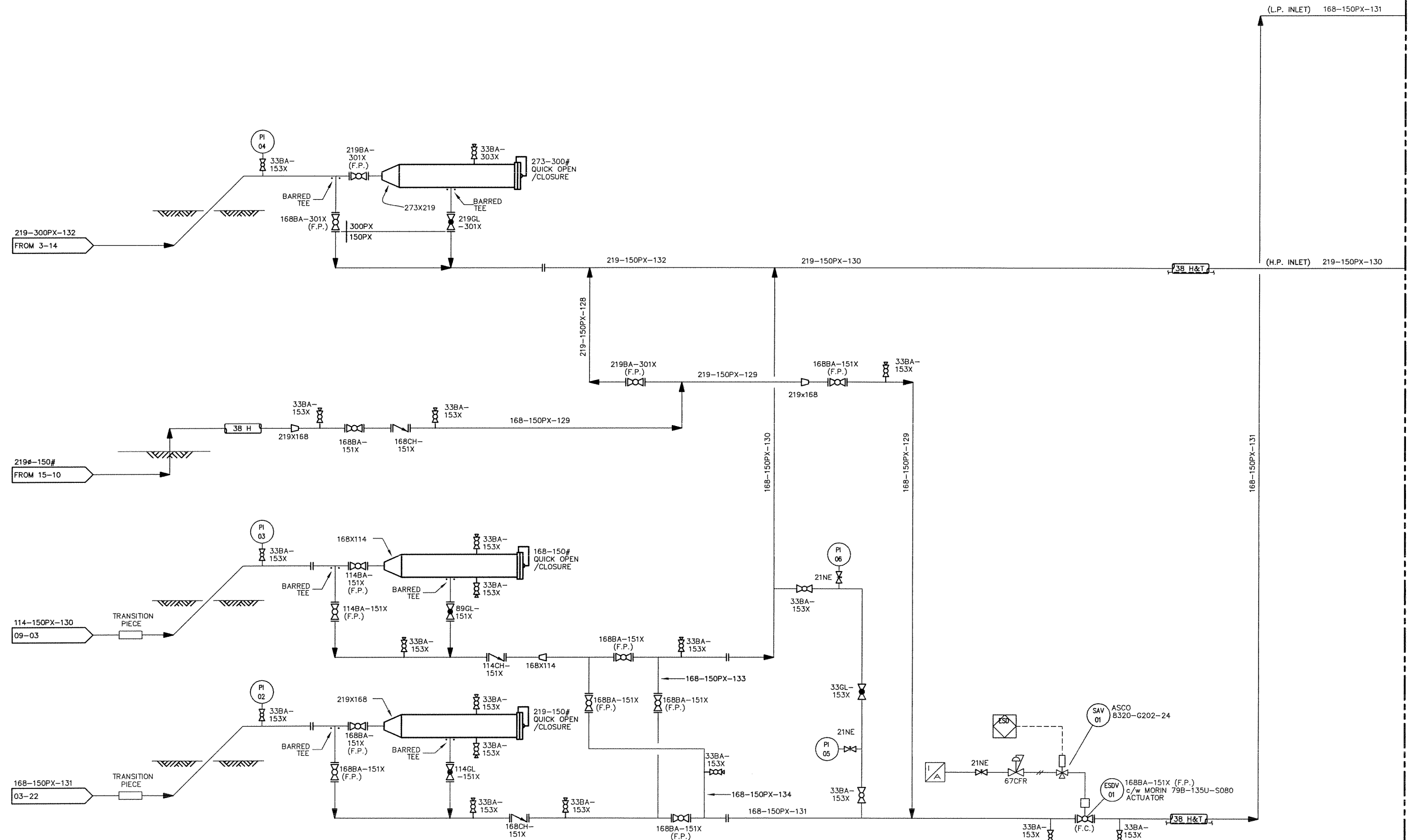


LEGEND

	GATE VALVE (GA)		INSULATION (H--HOT, C--COLD)		LOCALLY MOUNTED INSTRUMENT		FLOW TOTALIZER		PRESSURE REGULATING VALVE
	BALL VALVE (BA)		INSULATION & HEAT TRACE		MOUNTED ON MAIN CONTROL ROOM PANEL		H2S GAS DETECTION		PRESSURE SWITCH (H--HIGH, L--LOW)
	PLUG VALVE (PL)		PROCESS PIPING		LOCAL PANEL MOUNTED INSTRUMENT		LEVEL ALARM HIGH, L--LOW		PRESSURE SHUTDOWN HIGH, L--LOW
	NEEDLE VALVE (NE)		PNEUMATIC SIGNAL		DISTRIBUTED CONTROL SYSTEM ITEMS		LEVEL CONTROLLER		PRESSURE SAFETY VALVE
	GLOBE VALVE (GL)		CAPILLARY TUBING		DISTRIBUTED CONTROL SYSTEM AUXILIARY OPERATOR'S INTERFACE		LEVEL CONTROL VALVE		PRESSURE TRANSMITTER
	CHECK VALVE (CH)		ELECTRICAL SIGNAL		DISTRIBUTED CONTROL SYSTEM ITEMS (COMPUTER FUNCTION)		COMBUSTIBLE GAS DETECTION		PRESSURE VACUUM BREATHER
	BUTTERFLY VALVE (BU)		HYDRAULIC SIGNAL		PROGRAMMABLE LOGIC CONTROL SYSTEM		LEVEL GAUGE		PRESSURE TRANSDUCER
	SOCKET WELD VALVE		ELECTROMAGNETIC/SONIC SIGNAL		PROGRAMMABLE LOGIC CONTROL SYSTEMS ACCESSIBLE TO OPERATOR		LEVEL INDICATOR		RESTRICTING ORIFICE
	SCREWED VALVE		SOFTWARE OR DATA LINK		AUX. PROGRAMMABLE LOGIC CONTROL SYSTEMS ACCESSIBLE TO OPERATOR		LEVEL INDICATOR CONTROLLER		SOLENOID ACTUATED VALVE
	FLANGED VALVE		A.O. AIR TO OPEN (FAIL CLOSED)		BLOWDOWN VALVE		LEVEL RECORDER		SURGE CONTROLLER
	CONTROL VALVE WITH DIAPHRAGM ACTUATOR		A.C. AIR TO CLOSE (FAIL TO OPEN)		CONTROL VALVE		LEVEL SWITCH (H--HIGH, L--LOW)		SURGE CONTROL VALVE
	CONTROL VALVE WITH PISTON ACTUATOR		C.S.O.(C) CAR SEAL OPEN (CLOSED)		DIFFERENTIAL PRESSURE INDICATOR		LEVEL SHUTDOWN HIGH, L--LOW		TEMPERATURE ALARM HIGH, L--LOW
	PRESSURE REGULATOR		E.S.D. EMERGENCY SHUTDOWN		DIFFERENTIAL PRESSURE SWITCH		LEVEL TRANSMITTER		TEMPERATURE CONTROLLER
	SOLENOID VALVE		F.P. FULL PORT		EMERGENCY SHUTDOWN VALVE		MOISTURE ELEMENT		TEMPERATURE CONTROL VALVE
	ANGLE CHOKE		R.P. REGULAR PORT		FLOW ALARM HIGH, L--LOW		MOISTURE INDICATOR		TEMPERATURE INDICATOR
	INLINE CHOKE		N.C. NORMALLY CLOSED		FLOW CONTROLLER		OVERSPEED SWITCH		TEMPERATURE SWITCH (H--HIGH, L--LOW)
	Y--STRAINER		N.O. NORMALLY OPEN		FLOW CONTROL VALVE		OVERSPEED SHUTDOWN		TEMPERATURE SHUTDOWN HIGH, L--LOW
	PRESSURE SAFETY VALVE		SPEC BREAK		FIRE DETECTION SHUTDOWN		PRESSURE ALARM HIGH, L--LOW		TEMPERATURE TRANSMITTER
	ORIFICE METER RUN		SUPPLIED BY OTHERS		FLOW SHUTDOWN HIGH, L--LOW		PRESSURE CONTROLLER		THERMO WELL
	TURBINE METER OR POSITIVE DISPLACEMENT METER		TIE IN NUMBER		FLOW ELEMENT		PRESSURE CONTROL VALVE		VALVE ACTUATION INDICATOR
	SPECTACLE BLIND, OPEN (CLOSED)		TIE IN LOCATIONS		FLAME FAILURE SHUTDOWN		POSITIVE DISPLACEMENT METER		VIBRATION SWITCH
	CHANGE IN PIPE SIZE		PNEUMATIC TO CURRENT		FLOW INDICATOR		PRESSURE INDICATOR		VIBRATION SHUTDOWN
	INLINE STRAINER		CURRENT TO PNEUMATIC		FLOW RECORDER		PRESSURE INDICATOR CONTROLLER		TRANSDUCER
					FLOW SWITCH (H--HIGH, L--LOW)		PRESSURE RECORDER		LIMIT SWITCH

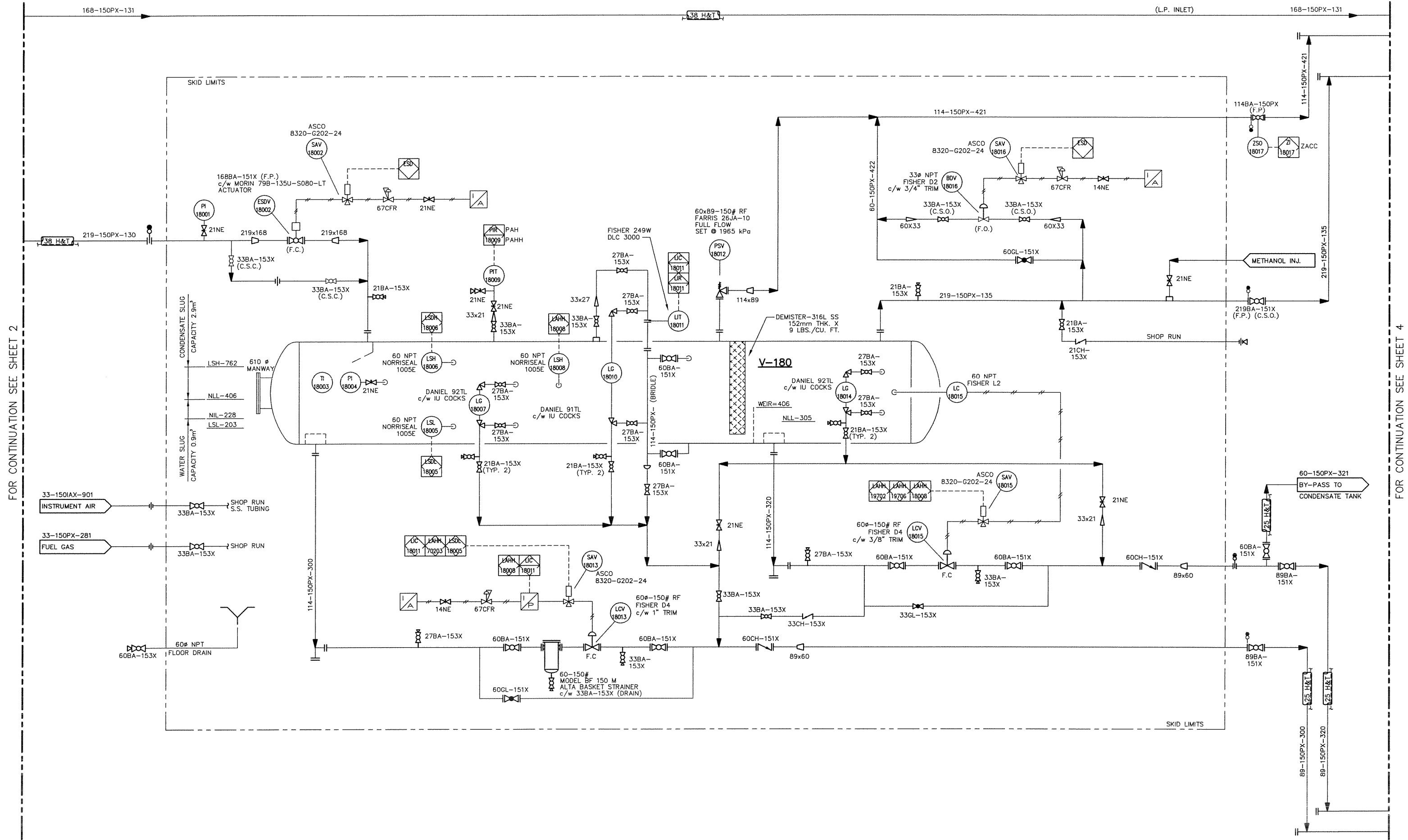
7		2005 PLANT EXPANSION		43884	JB	05.08.04																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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FOR CONTINUATION SEE SHEET 1



FOR CONTINUATION SEE SHEET 3

INLET SEPARATOR
SIZE : 1524 O.D. x 4877 S/S
D.P. : 1965 kPa @ -29°C/38°C
INTERNALLY COATED



FOR CONTINUATION SEE SHEET 2

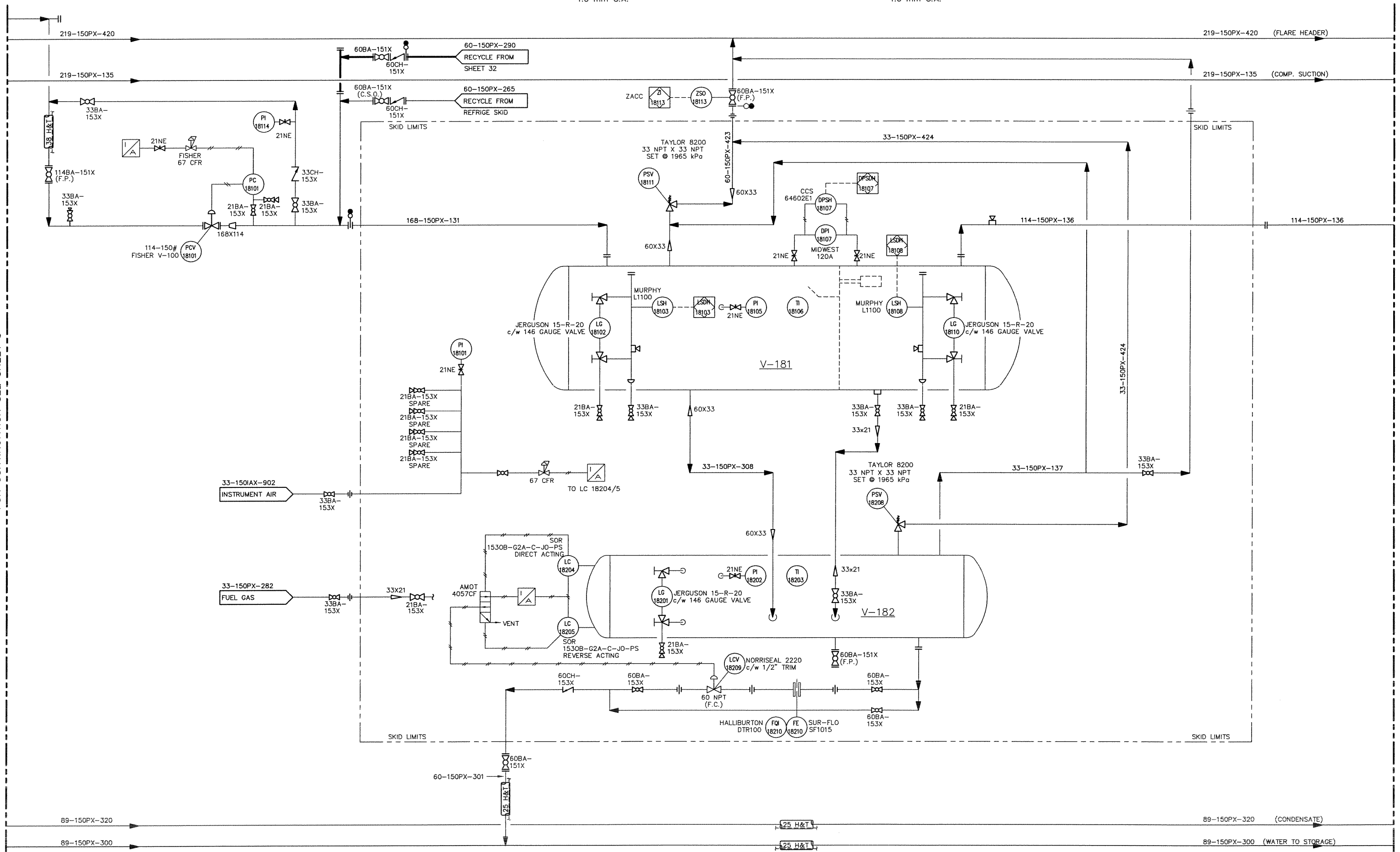
FOR CONTINUATION SEE SHEET 4

SHEET NUMBER	DRAWING NUMBER	REV
3 OF 38	F-23212-F-00-01	7

V-181
INLET FILTER SEPARATOR
508 O.D. X 2845 S/S
DESIGN: 1965 kPa @ -29°C/38°C
1.6 mm C.A.

V-182
BLOWCASE
610 O.D. X 2438 S/S
DESIGN: 1965 kPa @ -29°C/38°C
1.6 mm C.A.

FOR CONTINUATION SEE SHEET 3



FOR CONTINUATION SEE SHEET 5

K-650
SCREW COMPRESSOR
VENDOR: VILTER
MODEL: VSS601A025224APABEN
DESIGN: 3206 kPa @ 220°F
S/N: 2538

K-651
NATURAL GAS ENGINE
VENDOR: CATERPILLAR
MODEL: 3306 TA
203 H.P. @ 1800 R.P.M.
S/N: 07Y08235

M-902/903
FILTER
VENDOR: DONALDSON
CARTRIDGES: P163324

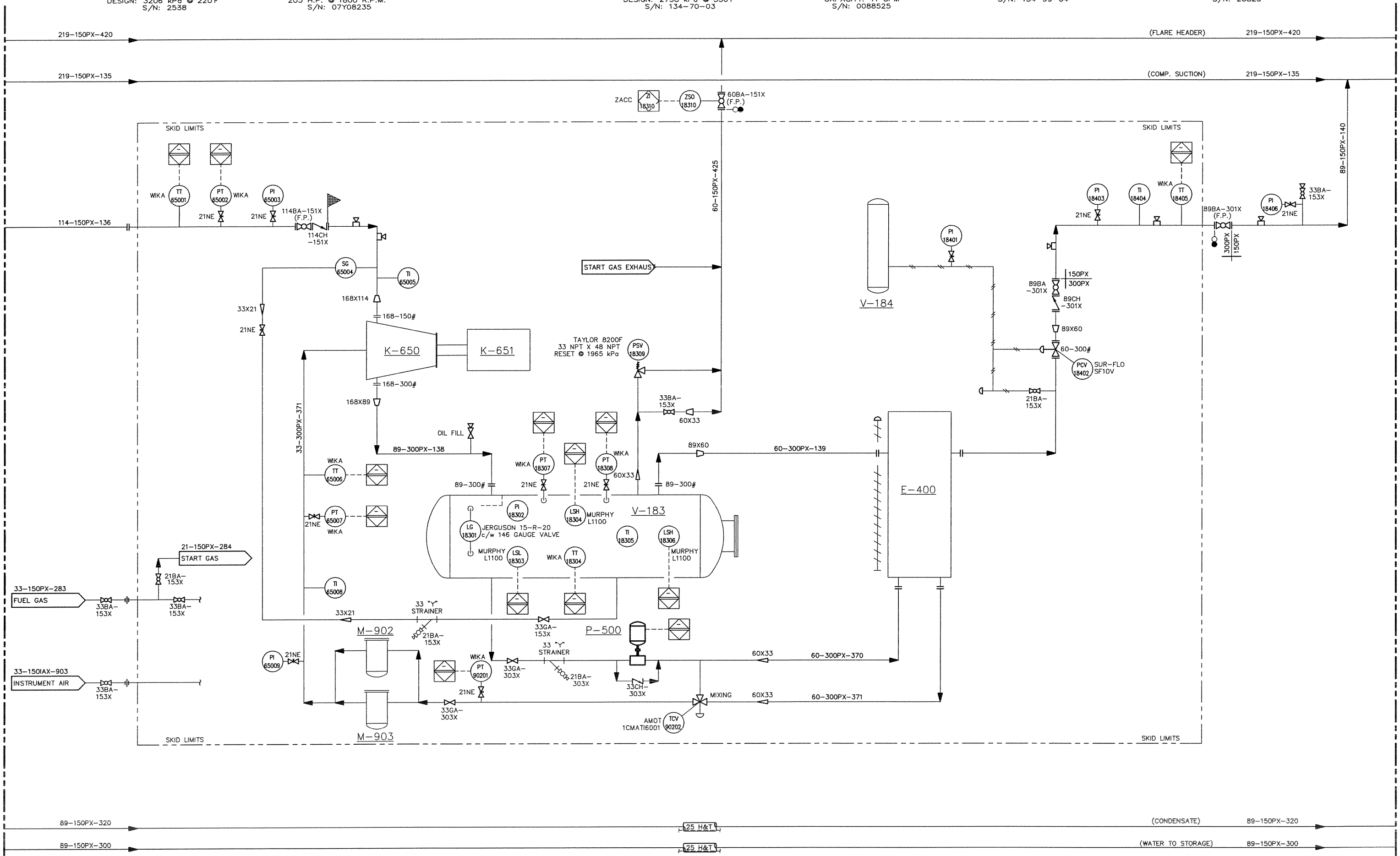
V-183
OIL SEPARATOR
VENDOR: MAR-QUINN INDUSTRIES LTD.
762 O.D. X 1067 S/S
DESIGN: 2758 kPa @ 350°F
S/N: 134-70-03

P-500
LUBE OIL PUMP
VENDOR: VIKING
MODEL: GG190
CAPACITY: 11 GPM
S/N: 0088525

V-184
BPCV ACCUMULATOR
VENDOR: MAR-QUINN INDUSTRIES LTD.
MAWP: 5102 kPa @ 100°F
S/N: 134-99-04

E-400
COOLER
VENDOR: GLOBAL HEAT TRANSFER
MODEL: G3306TA
S/N: 20823

FOR CONTINUATION SEE SHEET 4



FOR CONTINUATION SEE SHEET 6

FOR CONTINUATION SEE SHEET 5

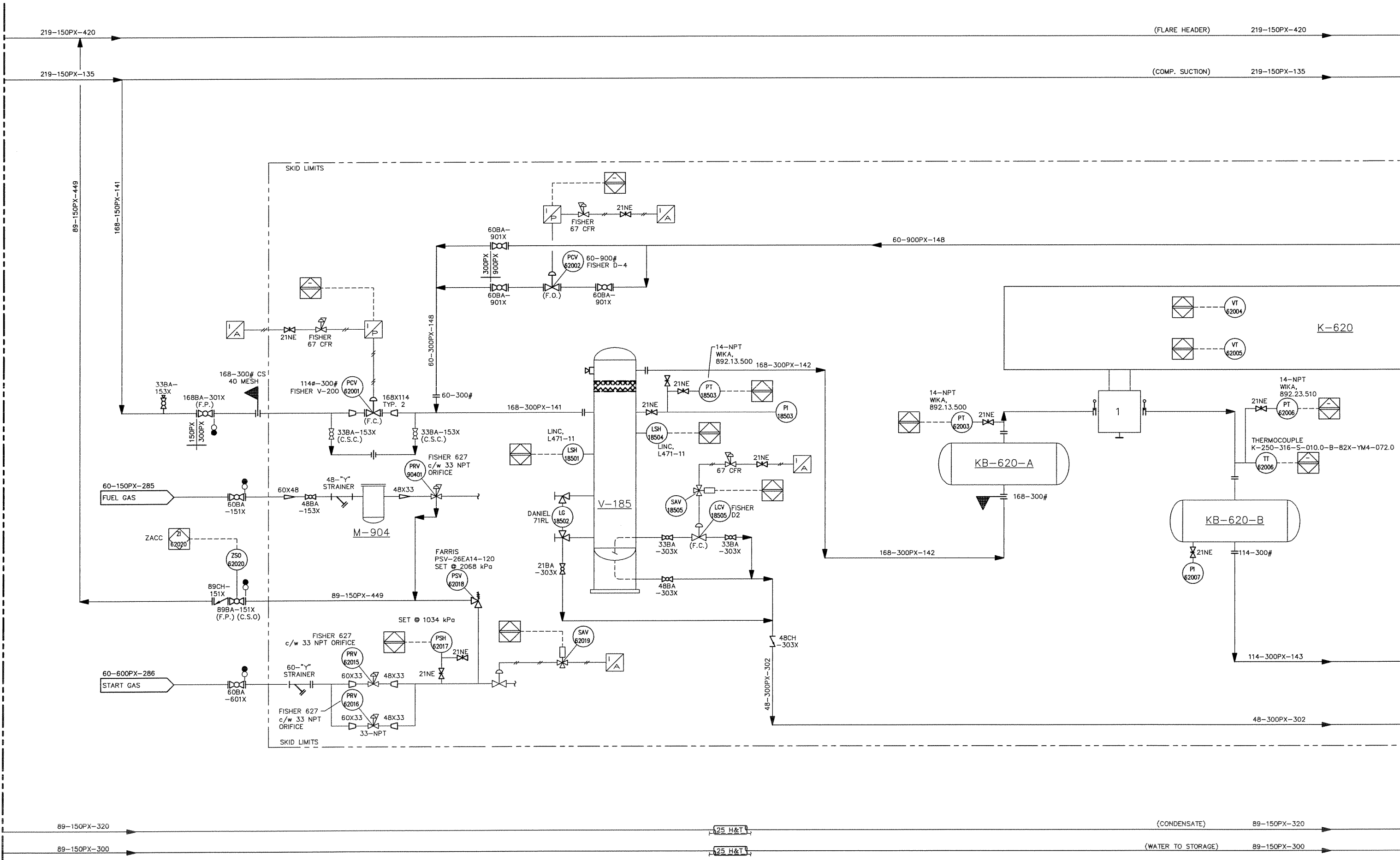
M-904
FUEL GAS FILTER
PARKER C8312N-OAO-DX-S453
C/W 200-35-DX ELEMENT

V-185
1ST STAGE SUCTION SCRUBBER
610 O.D. x 1676 S/S
DESIGN: 4516 kPa @ 149°C

KB-620-A
1ST STAGE SUCTION BOTTLE
406 O.D. x 1016 S/S
4516 kPa @ 149°C
3mm C.A.

KB-620-B
1ST STAGE DISCHARGE BOTTLE
406 O.D. x 1626 S/S
4516 kPa @ 149°C

K-620
PROCESS COMPRESSOR
ARIEL JGK-2 COMPRESSOR c/w
WAUKESHA 3521GL DRIVER



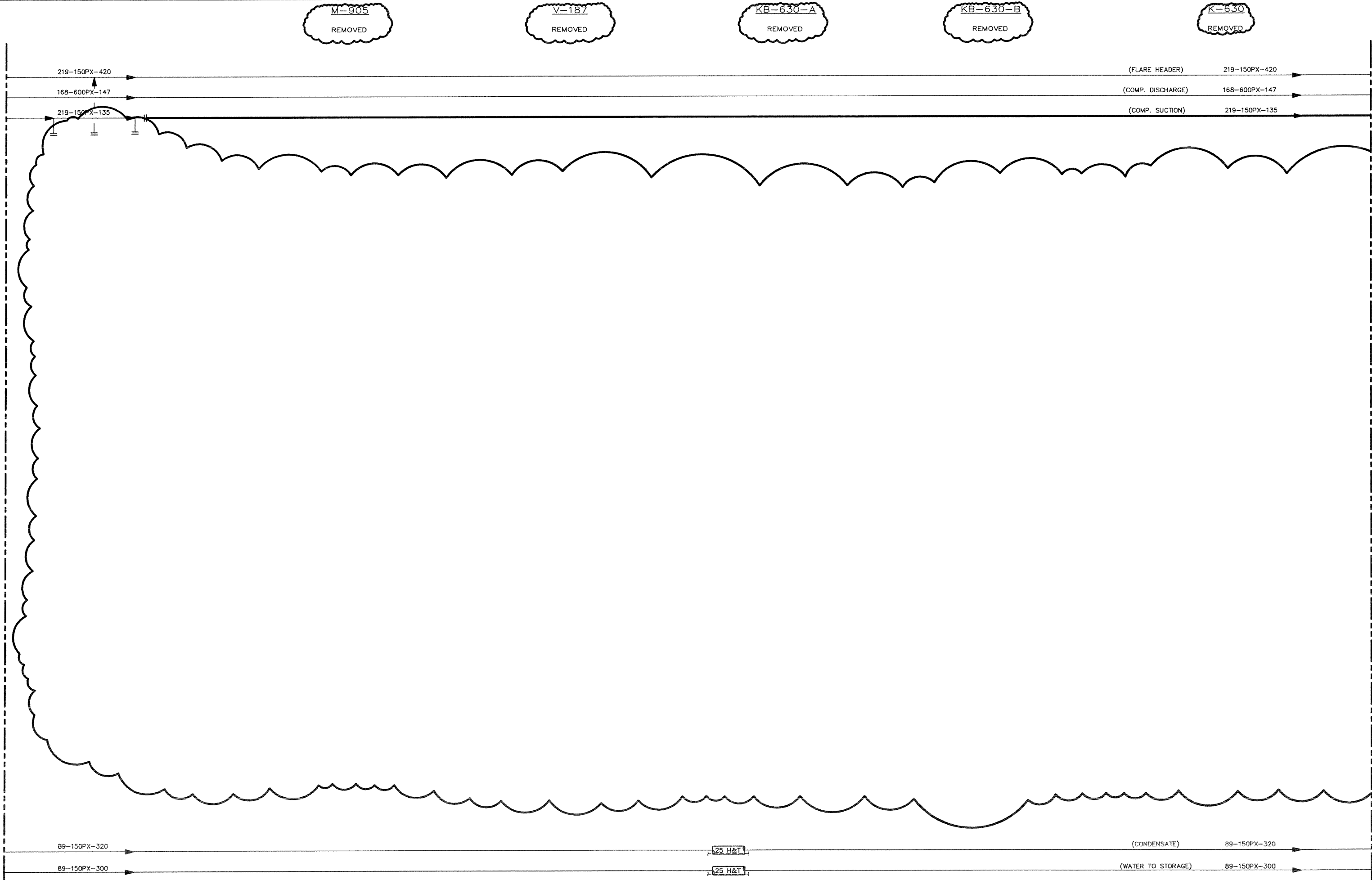
FOR CONTINUATION SEE SHEET 7

SHEET NUMBER	DRAWING NUMBER	REV
6 OF 38	F-23212-F-00-01	

V-186
2ND STAGE SUCTION SCRUBBER
457 O.D. X 1626 S/S
DESIGN: 4516 kPa @ 300°F

REV

FOR CONTINUATION SEE SHEET 7



FOR CONTINUATION SEE SHEET 9

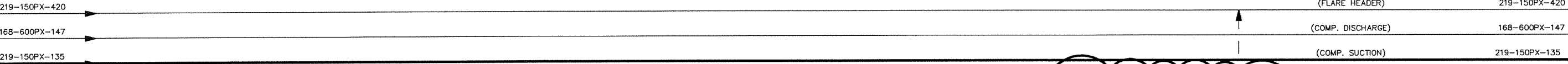
SHEET NUMBER	DRAWING NUMBER	REV
8 OF 38	F-23212-F-00-01	7

KB-630-C
REMOVED

KB-630-D
REMOVED

E-402-A/B
REMOVED

V-188
REMOVED



FOR CONTINUATION SEE SHEET 8

FOR CONTINUATION SEE SHEET 10



25 H&T

25 H&T

SHEET NUMBER	DRAWING NUMBER	REV
9 OF 38	F-23212-F-00-01	7

1st STAGE GLM CYCLONE VORTEX CLUSTER

762 O.D. x 2134 S/S
MAWP: 4516 kPa @ -29/149°C
C.A: 1.6mm

1st STAGE DISCHARGE BOTTLE

356 O.D. x 3899 S/S
MAWP: 4378 kPa @ -28/177°C
C.A: 1.6mm



SHEET NUMBER
10 OF 38

DRAWING NUMBER
F-23212-F-00-01

REV
7

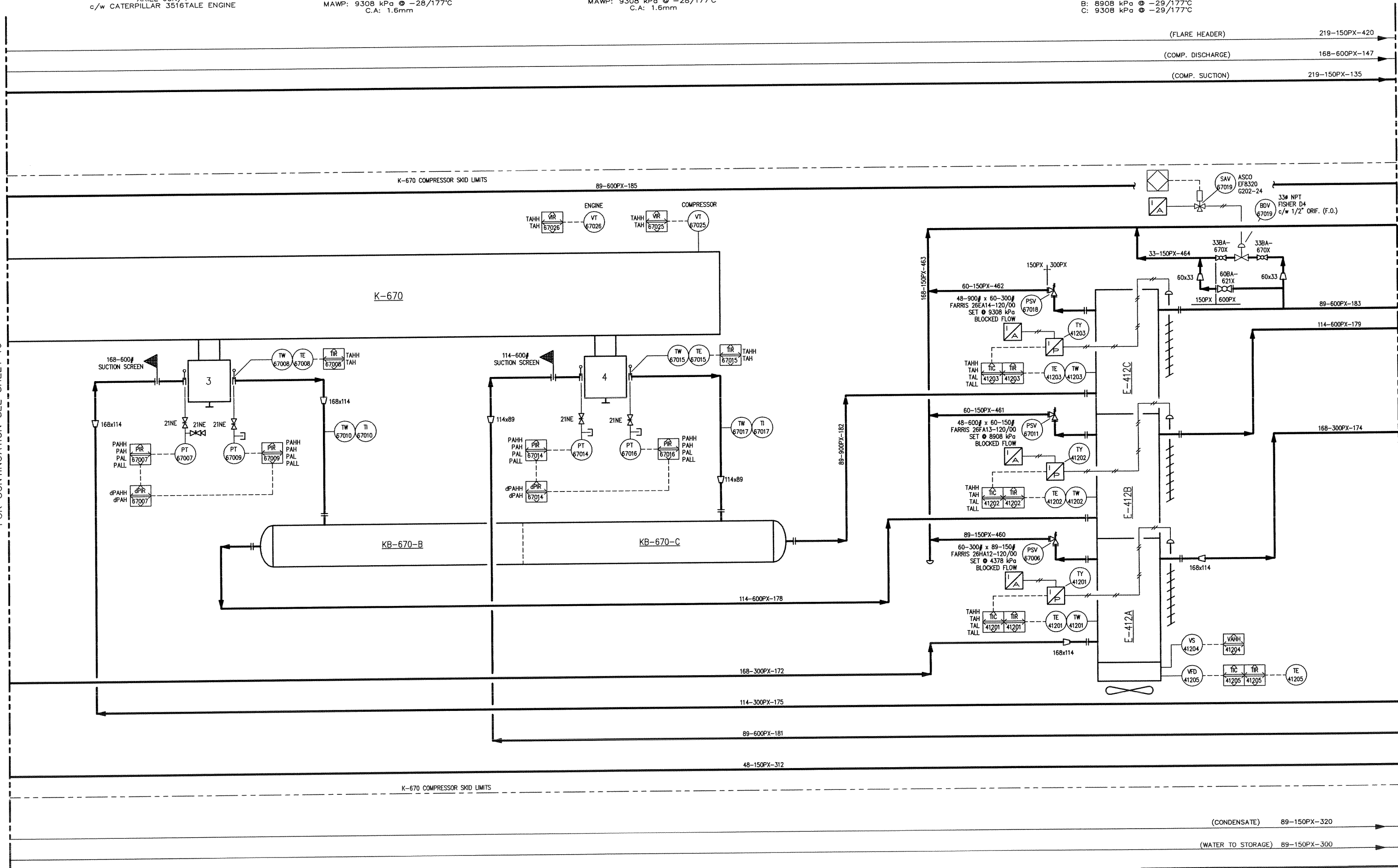
K-670
PROCESS COMPRESSOR
ARIEL JGK/4
c/w CATERPILLAR 3516TALE ENGINE

KB-670-B
2nd STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 9308 kPa @ -28/177°C
C.A: 1.6mm

KB-670-C
3rd STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 9308 kPa @ -28/177°C
C.A: 1.6mm

E-412 A/B/C
AIR X-CHANGER
AIR-X-HEMPILL 144ZF
A: 4447 kPa @ -29/177°C
B: 8908 kPa @ -29/177°C
C: 9308 kPa @ -29/177°C

FOR CONTINUATION SEE SHEET 10



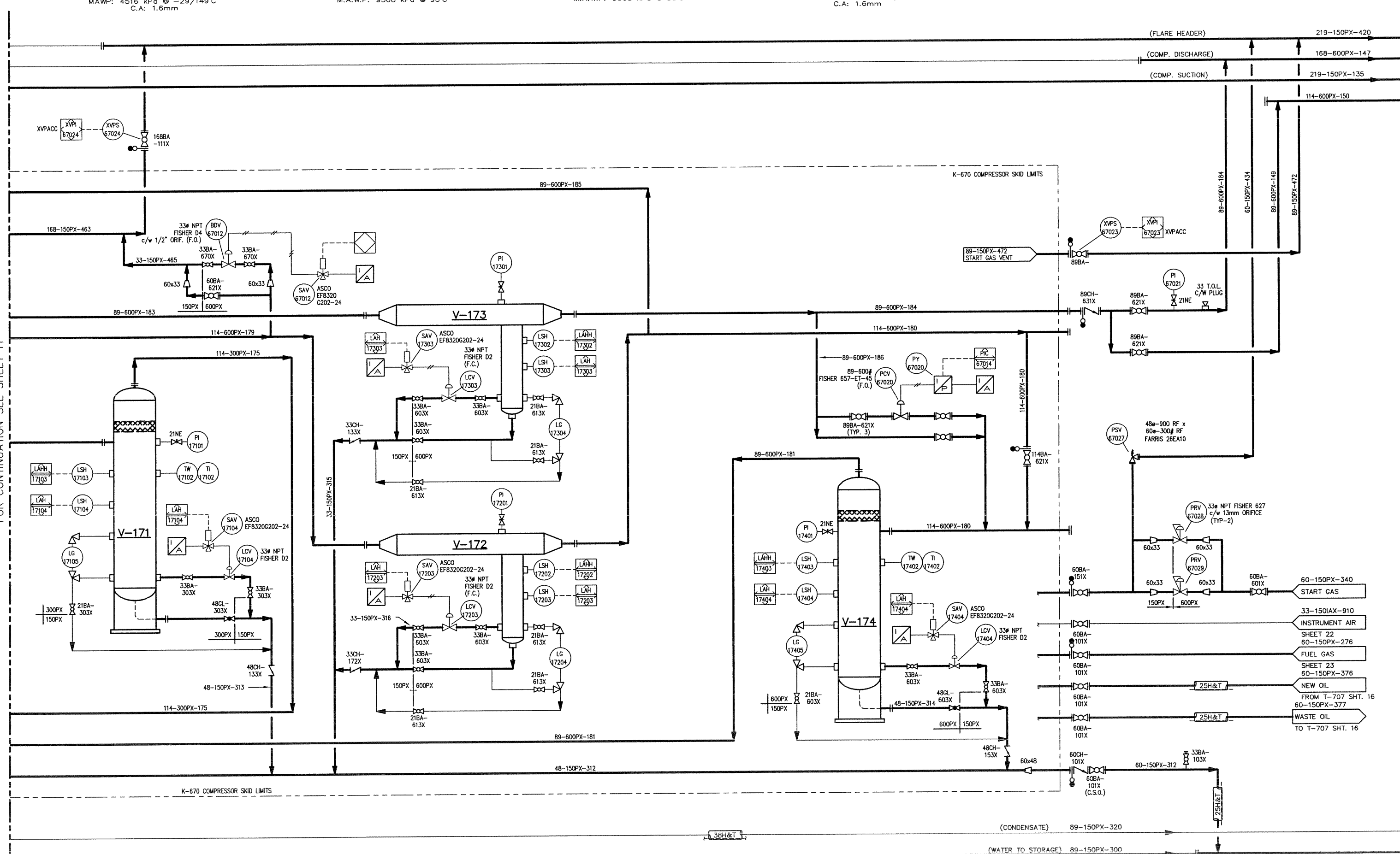
FOR CONTINUATION SEE SHEET 12

V-171
2nd STAGE SUCTION SCRUBBER
610 O.D. x 1676 S/S
MAWP: 4516 kPa @ -29/149°C
C.A: 1.6mm

V-172
2nd STAGE DISCHARGE SCRUBBER
324 O.D. x 1575 S/S
M.A.W.P: 9308 kPa @ 93°C

V-173
3rd STAGE DISCHARGE SCRUBBER
324 O.D. x 1575 S/S
M.A.W.P: 9308 kPa @ 93°C

V-174
3rd STAGE SUCTION SCRUBBER
406 O.D. x 1626 S/S
MAWP: 9067 kPa @ -28/149°C
C.A.: 1.6mm



FOR CONTINUATION SEE SHEET 13

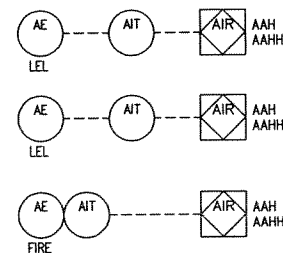
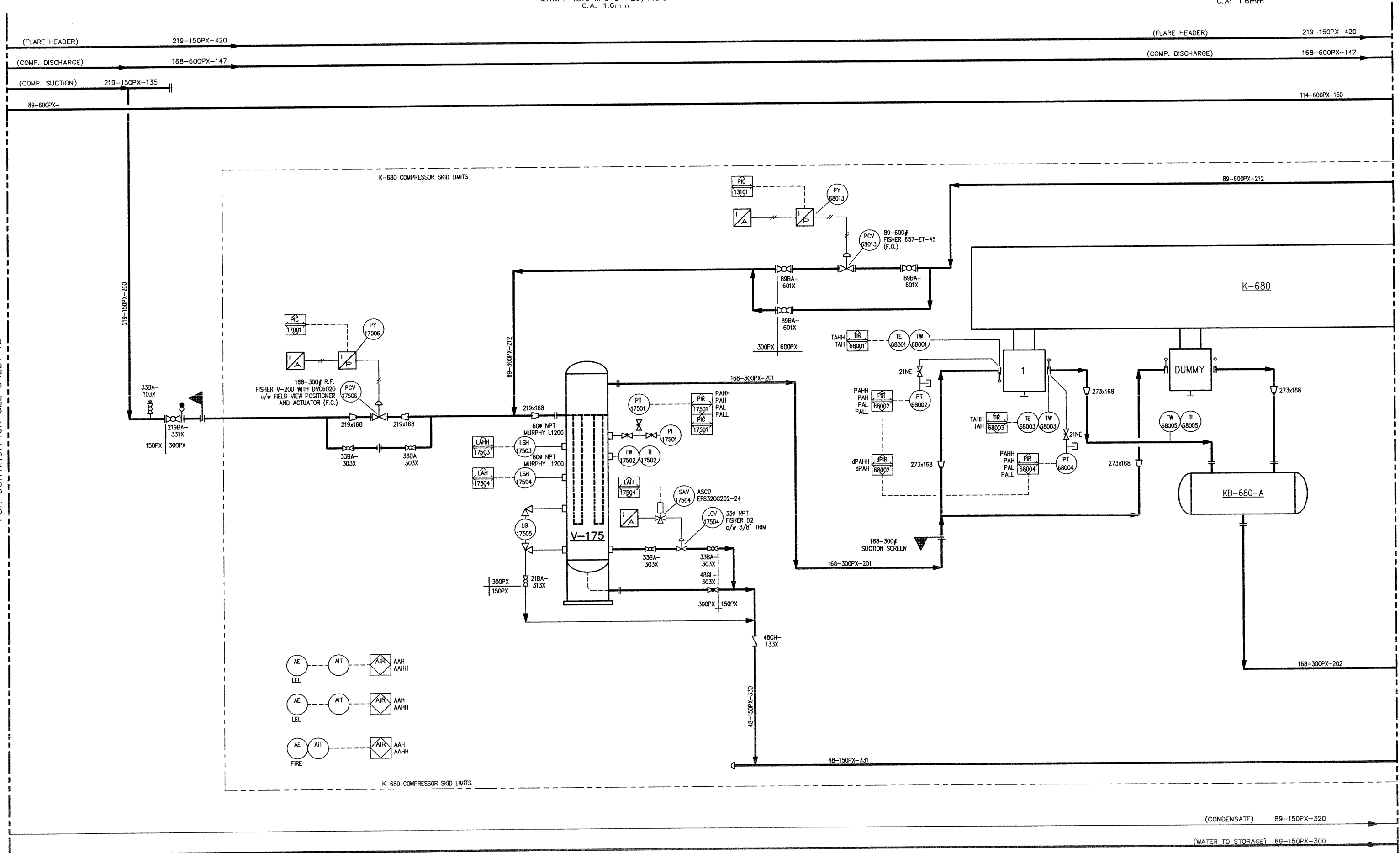
SHEET NUMBER	DRAWING NUMBER	REV
12 OF 38	F-23212-F-00-01	7

V-175
1st STAGE GLM CYCLONE VORTEX CLUSTER
762 O.D. x 2134 S/S
MAWP: 4516 kPa @ -29/149°C
C.A: 1.6mm

KB-680-A
1st STAGE DISCHARGE BOTTLE
356 O.D. x 3899 S/S
MAWP: 4378 kPa @ -28/177°C
C.A: 1.6mm

FOR CONTINUATION SEE SHEET 12

FOR CONTINUATION SEE SHEET 14



E-413 A/B/C
AIR X-CHANGER
AIR-X-HEMPILL 144ZF
A: 4447 kPa @ -29/177°C
B: 8908 kPa @ -29/177°C
C: 9308 kPa @ -29/177°C

7

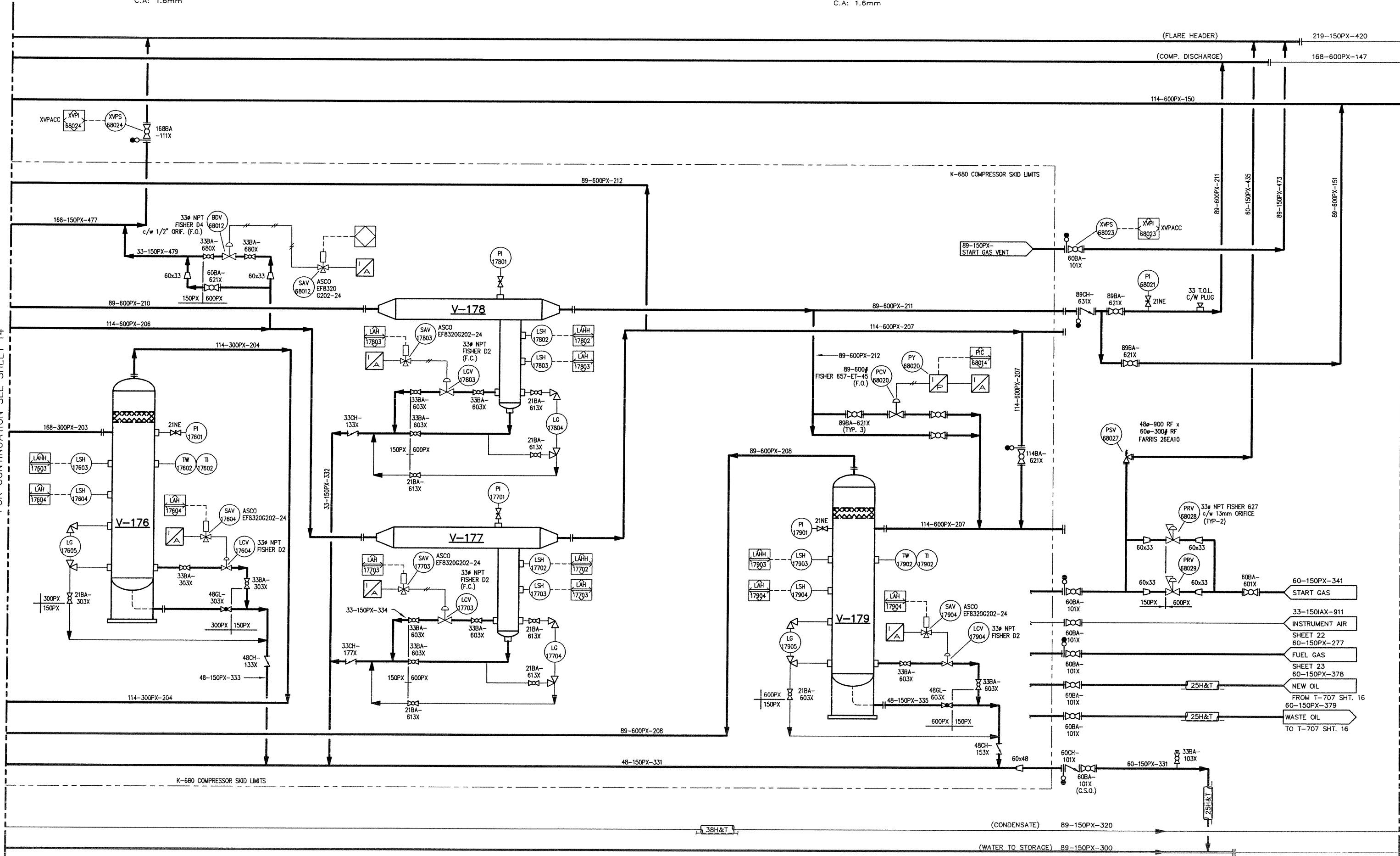
V-176
2nd STAGE SUCTION SCRUBBER
610 O.D. x 1676 S/S
MAWP: 4516 kPa @ -29/149°C
C.A: 1.6mm

V-177
2nd STAGE DISCHARGE SCRUBBER
324 O.D. x 1575 S/S
M.A.W.P: 9308 kPa @ 93°C

V-178
3rd STAGE DISCHARGE SCRUBBER
324 O.D. x 1575 S/S
M.A.W.P: 9308 kPa @ 93°C

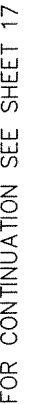
V-179
3rd STAGE SUCTION SCRUBBER
406 O.D. x 1626 S/S
MAWP: 9067 kPa @ -28/149°C
C.A: 1.6mm

FOR CONTINUATION SEE SHEET 14

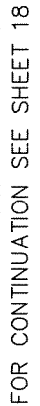


FOR CONTINUATION SEE SHEET 16

FILTER SEPARATOR
 324 O.D. X 3048 S/S
 DESIGN: 9929 kPa @ -20/130°F
 3mm C.A.

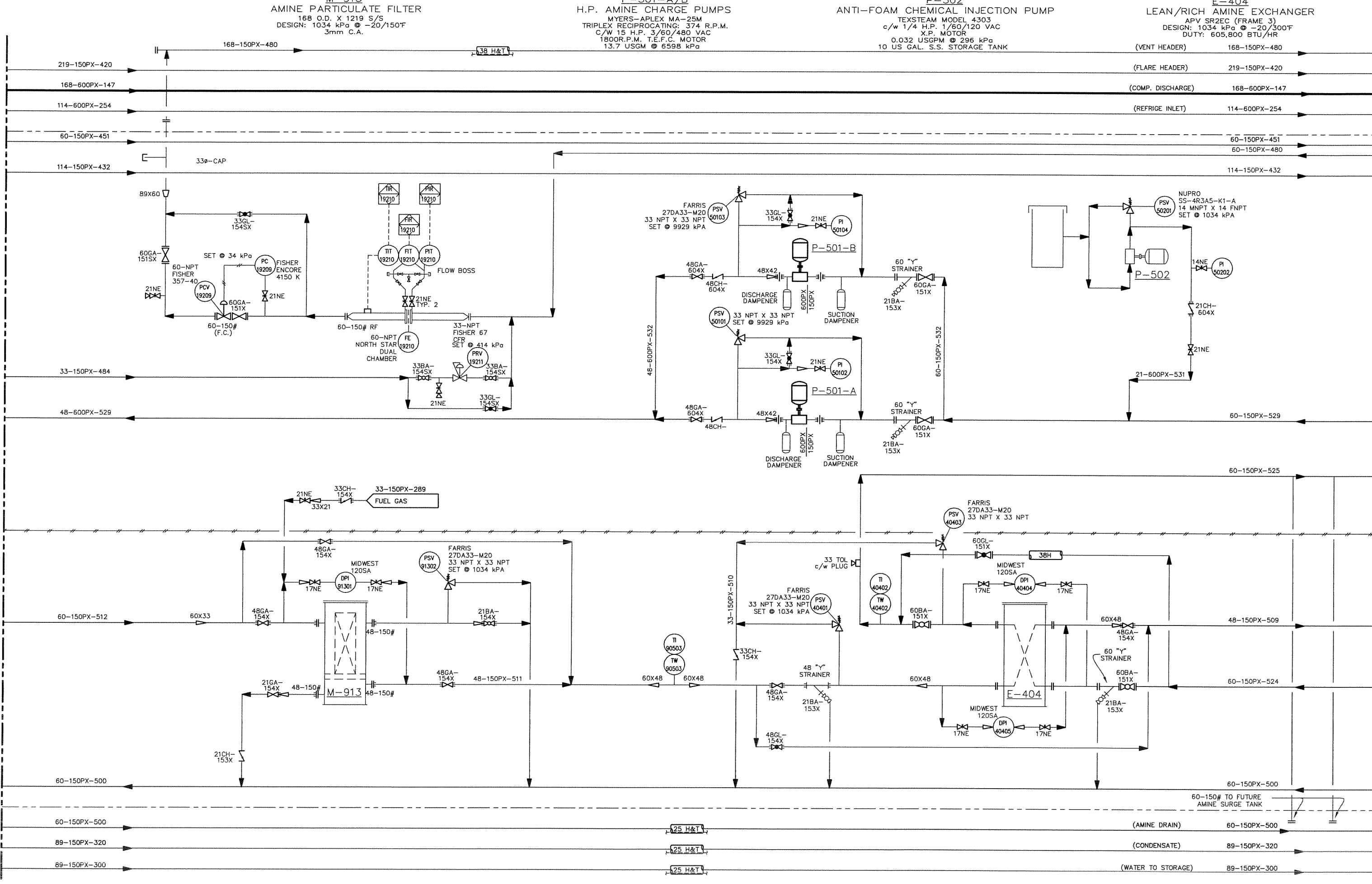
7

AMINE FLASH DRUM
610 I.D. X 2438 S/S
DESIGN: 1034 kPa @ -20/150°F
3mm C.A.



SHEET NUMBER	DRAWING NUMBER	REV
17 OF 38	F-23212-F-00-01	7

FOR CONTINUATION SEE SHEET 17



FOR CONTINUATION SEE SHEET 19

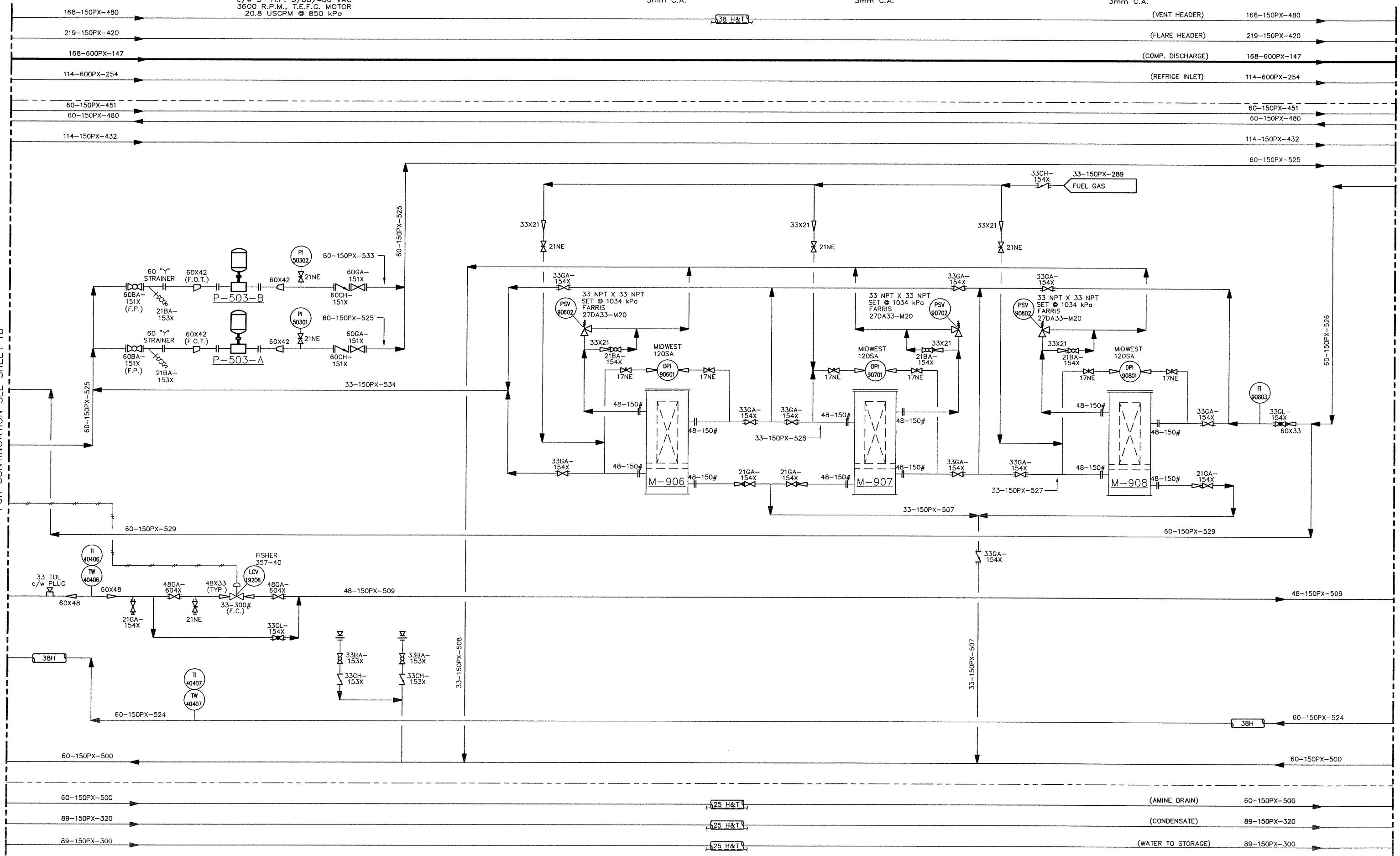
AMINE BOOSTER PUMPS
GRUNDFOS CR5-10
INLINE CENTRIFUGAL PUMPS
c/w 5 H.P. 3/60/480 VAC
3600 R.P.M., T.E.F.C. MOTOR
20.8 USGPM @ 850 kPa

AMINE PARTICULATE AFTER-FILTER
219 O.D. X 1067 S/S
DESIGN: 1034 kPa @ -20/150°F
3mm C.A.

AMINE CARBON FILTER
219 O.D. X 1219 S/S
DESIGN: 1034 kPa @ -20/150°F
3mm C.A.

AMINE PARTICULATE PRE-FILTER
219 O.D. X 1067 S/S
DESIGN: 1034 kPa @ -20/150°F
3mm C.A.

FOR CONTINUATION SEE SHEET 18



FOR CONTINUATION SEE SHEET 20

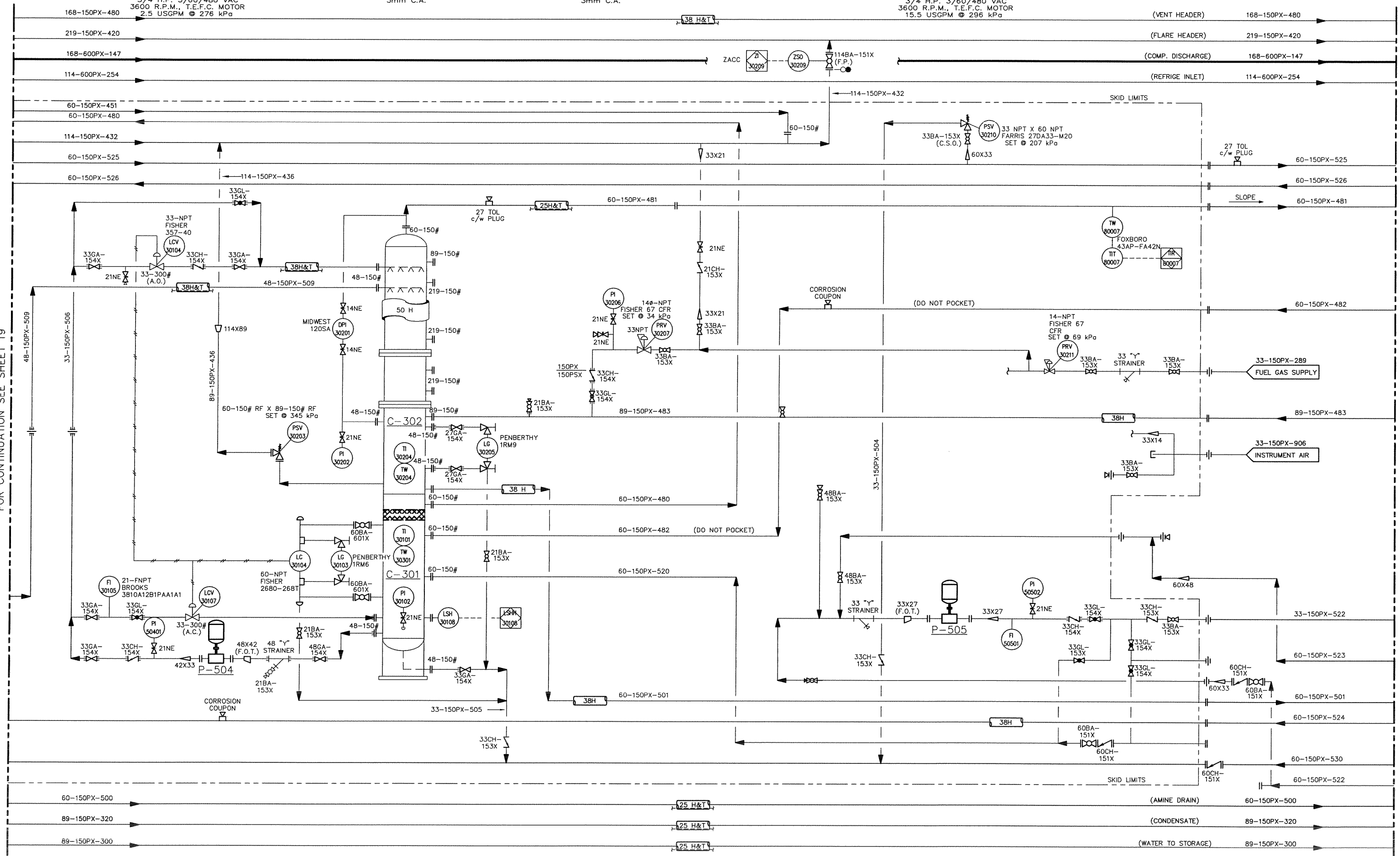
1-504
AMINE REFLUX PUMP
MYERS-MVA-20
INLINE CENTRIFUGAL PUMPS
3/4 H.P. 3/60/480 VAC
3600 R.P.M., T.E.F.C. MOTOR
2.5 USGPM @ 276 kPa

2-501
REFLUX ACCUMULATOR
406 O.D. X 1524 S/S
DESIGN: 345 kPa @ -20/300°F
3mm C.A.

3-502
AMINE REGENERATOR
406 O.D. X 10312 S/S
DESIGN: 345 kPa @ -20/300°F
3mm C.A.

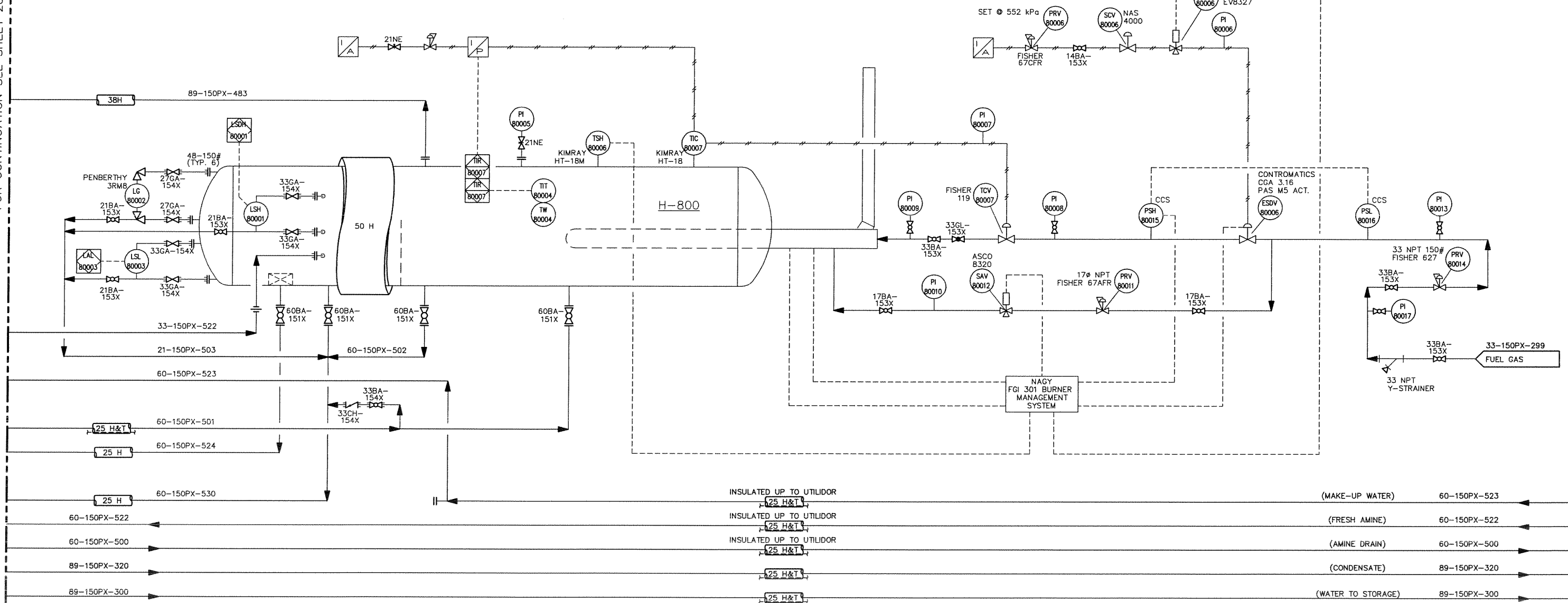
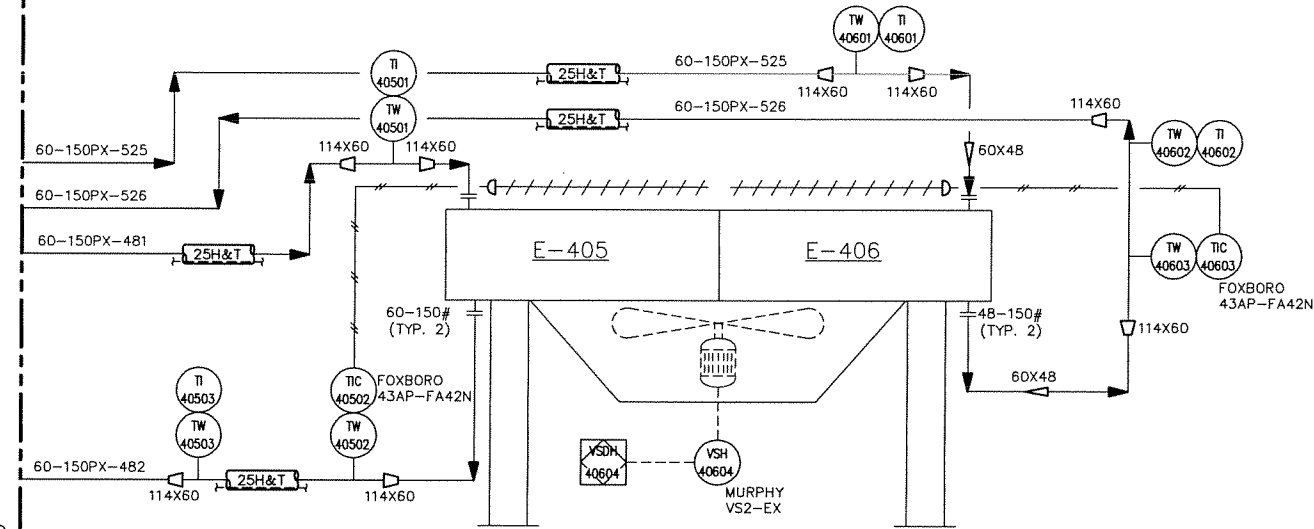
4-503
WATER/AMINE MAKE-UP PUMP
MYERS-MV2-30
INLINE CENTRIFUGAL PUMP
3/4 H.P. 3/60/480 VAC
3600 R.P.M., T.E.F.C. MOTOR
15.5 USGPM @ 296 kPa

FOR CONTINUATION SEE SHEET 19



FOR CONTINUATION SEE SHEET 21

(VENT HEADER)	168-150PX-480
(FLARE HEADER)	219-150PX-420
(COMP. DISCHARGE)	168-600PX-147
(REFRIGE INLET)	114-600PX-254



FOR CONTINUATION SEE SHEET 20

FOR CONTINUATION SEE SHEET 22

ROTARY SCREW INST. AIR COMPRESSOR
SULLAIR ES6-10H
38 ACFM @ 792-862 kPa
460 VOLT /3 PHASE /60 HERTZ

WET AIR RECEIVER
762" X 2134 s/s
DESIGN: 1379 kPa @ 232°C
240 GALLON CAPACITY

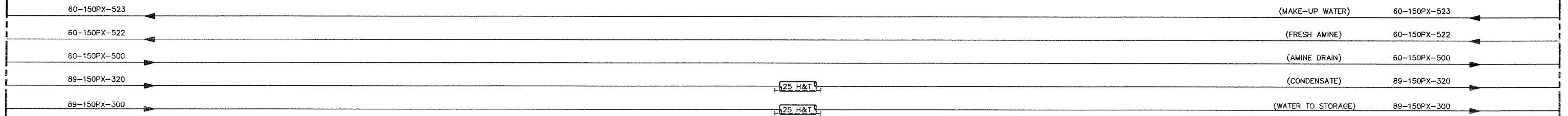
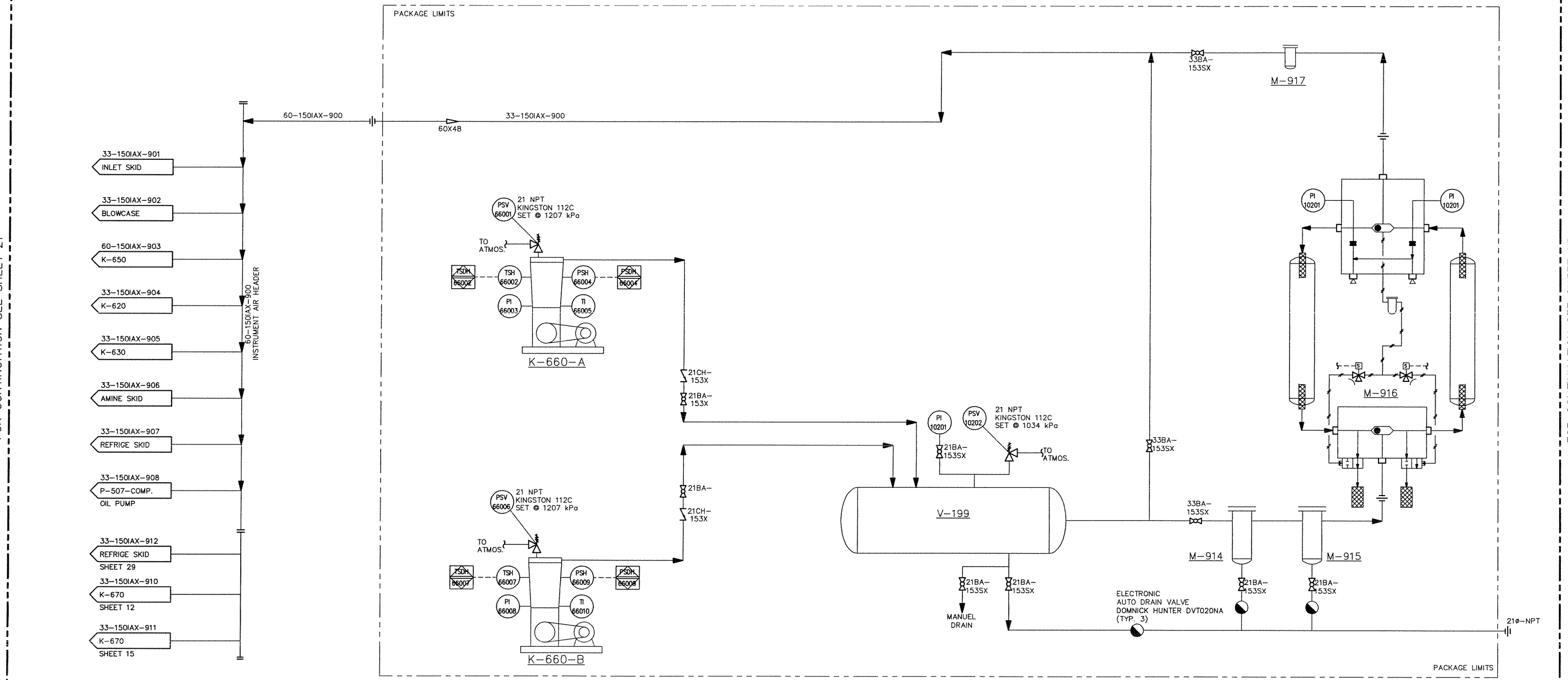
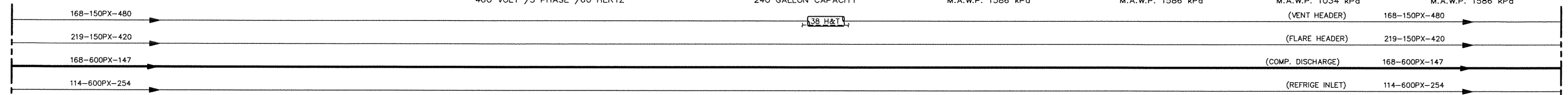
1ST STAGE PREFILTER
DOMNICK HUNTER AO-0030G
64 SCFM @ 689 kPa
M.A.W.P. 1586 kPa

2ND STAGE PREFILTER
DOMNICK HUNTER AA-0030G
64 SCFM @ 689 kPa
M.A.W.P. 1586 kPa

AIR DRYER
DOMNICK HUNTER DME030
65 SCFM 689 kPa
M.A.W.P. 1034 kPa

AFTER FILTER
DOMNICK HUNTER AR-0030G
64 SCFM @ 689 kPa
M.A.W.P. 1586 kPa

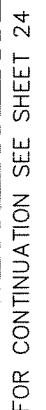
FOR CONTINUATION SEE SHEET 21



FOR CONTINUATION SEE SHEET 23

SHEET NUMBER	DRAWING NUMBER	REV
22 OF 38	F-23212-F-00-01	7

REFRIGERANT FILTER/DRYER
SPORLAN MODEL C-19212P
c/w FOUR (4) RCW-48 CORES
(152)

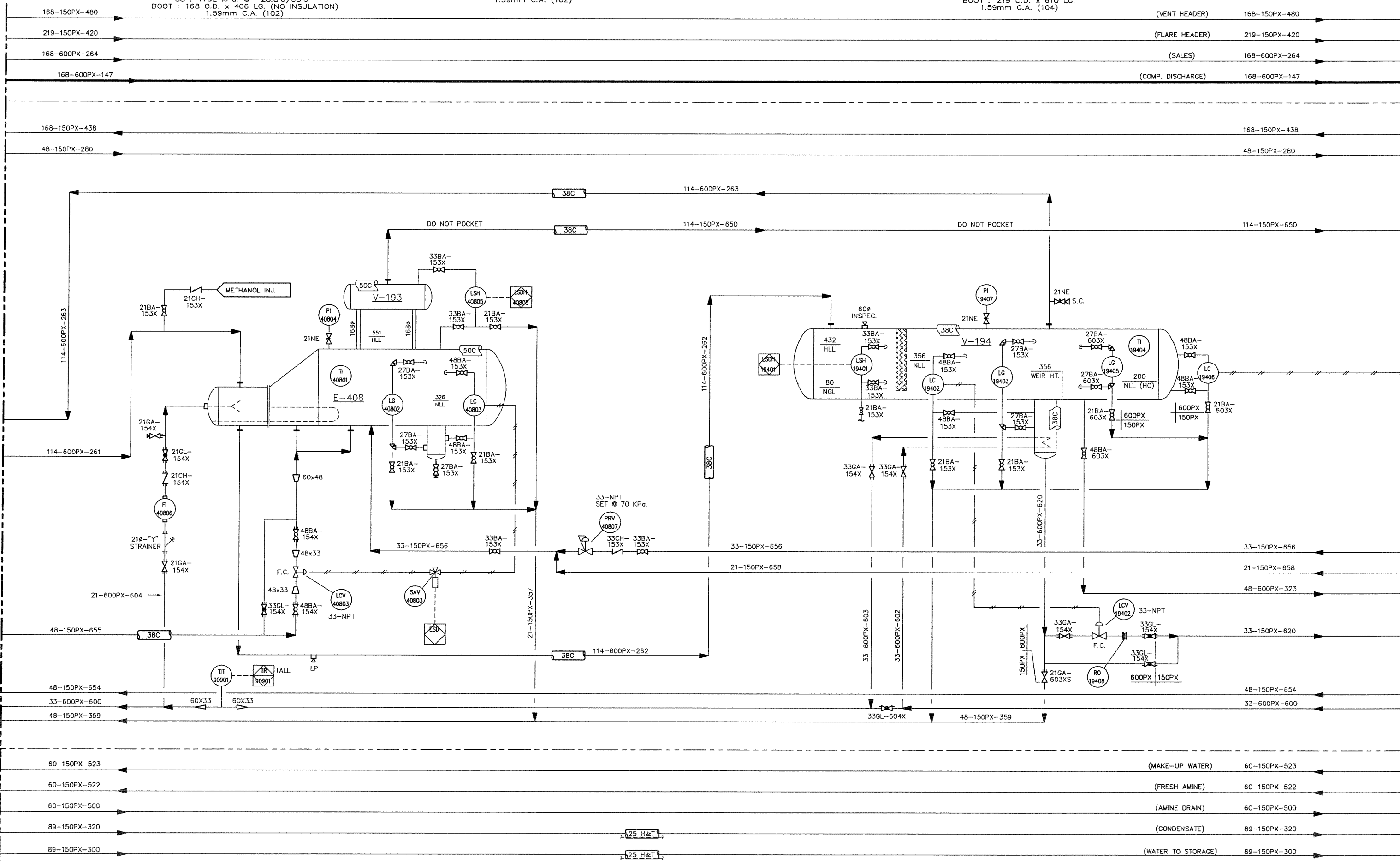
7

GAS CHILLER
324 O.D. x 508 O.D. x 5255 FF/S
TS : 8894 kPa. @ -28.8°C/65°C
SS : 1792 kPa. @ -28.8°C/65°C
BOOT : 168 O.D. x 406 LG. (NO INSULATION)
1.59mm C.A. (102)

PROPANE SUCTION SCRUBBER
610 O.D. x 3048 S/S
1792 kPa. @ -28.8°C/66°C
1.59mm C.A. (102)

LOW TEMP. SEPARATOR
762 O.D. x 3048 S/S
8894 kPa. @ -28.8°C/65°C
BOOT : 219 O.D. x 610 LG.
1.59mm C.A. (104)

FOR CONTINUATION SEE SHEET 23



FOR CONTINUATION SEE SHEET 25

COMPRESSOR DRIVE
ELECTRIC MOTOR
75 KW. x P 480/3/60
1.15 SF (111)

DISCHARGE OIL SCRUBBER
324 O.D. x 610 S/S
1792 KPa. @ -28.8°C/93°C
1.59mm C.A. (105)



SHEET NUMBER	DRAWING NUMBER	REV
25 OF 38	F-23212-F-00-01	7

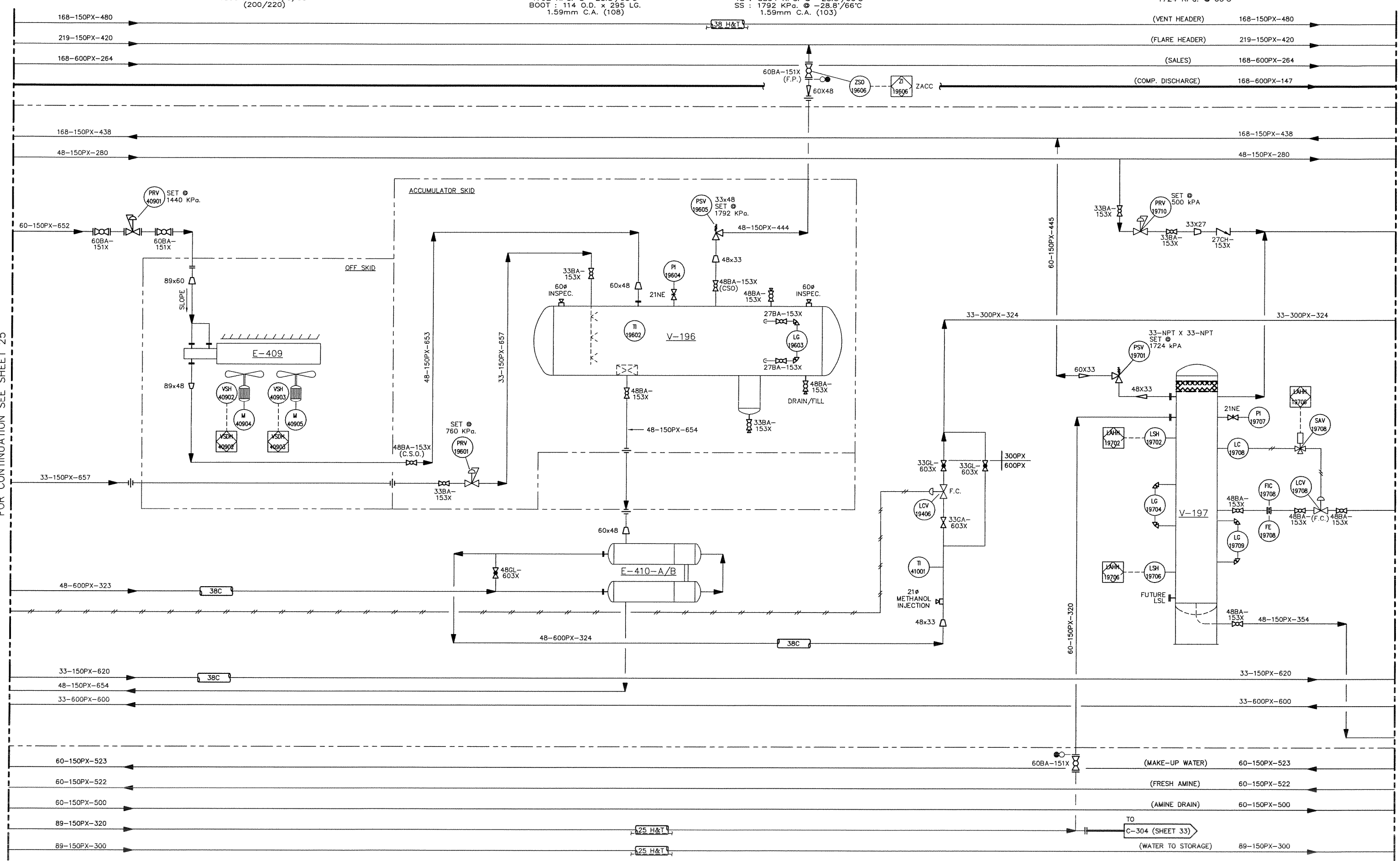
REFRIGERANT CONDENSER
FAN DRIVER : (2) 5.5 KW. xP
1800 RPM. 460/3/60
(200/220)

REFRIGERANT ACCUMULATOR
610 O.D. x 2438 S/S
1792 KPa. @ -28.8°/65°C
BOOT : 114 O.D. x 295 LG.
1.59mm C.A. (108)

REFRIGERANT SUBCOOLER
48 O.D. x 6096 O/A (2-PASS)
TS : 8894 KPa. @ -28.8°/66°C
SS : 1792 KPa. @ -28.8°/66°C
1.59mm C.A. (103)

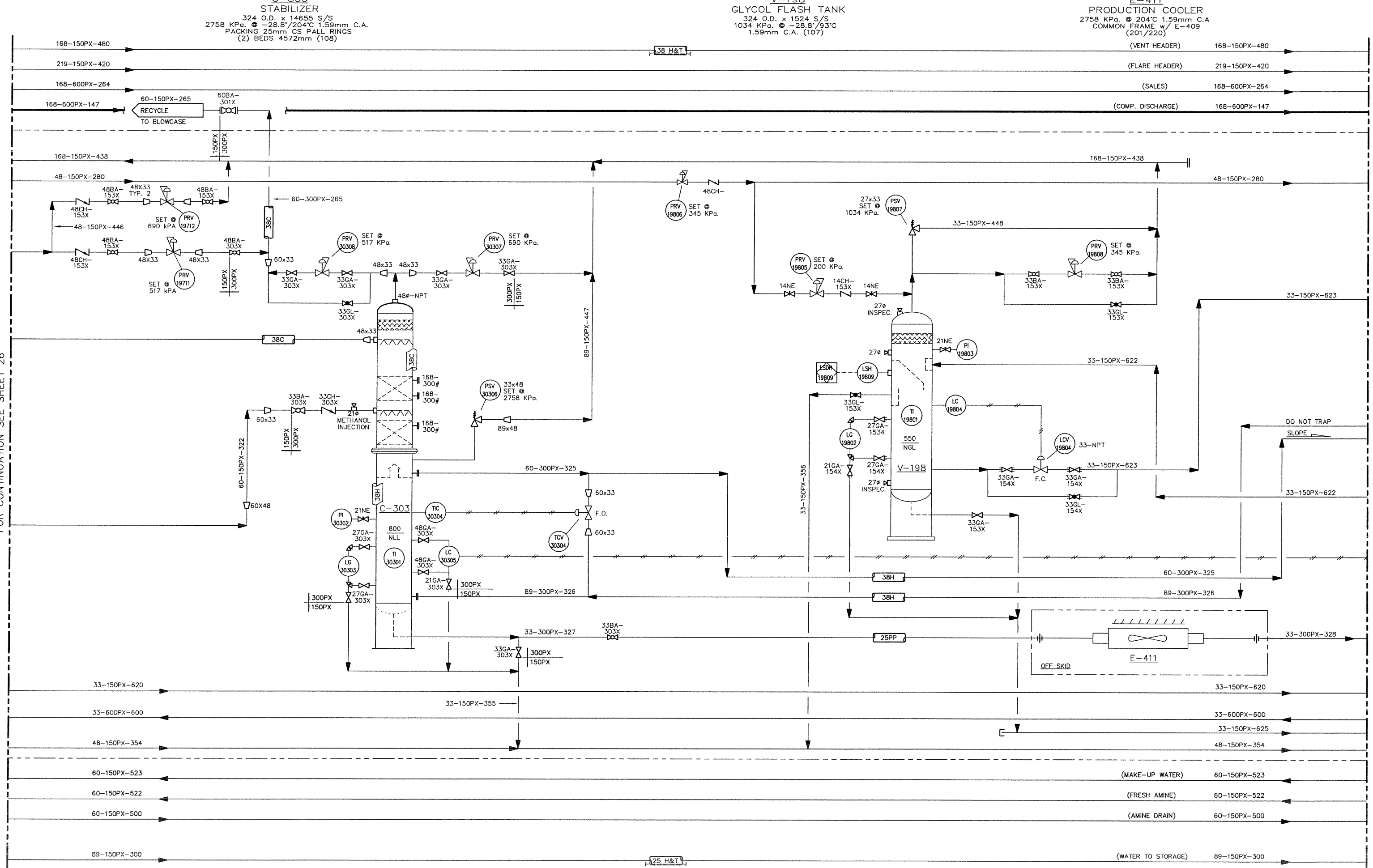
CONDENSATE FLASH SEPARATOR
406 O.D. x 2743 S/S
1724 KPa. @ 66°C

FOR CONTINUATION SEE SHEET 25



FOR CONTINUATION SEE SHEET 27

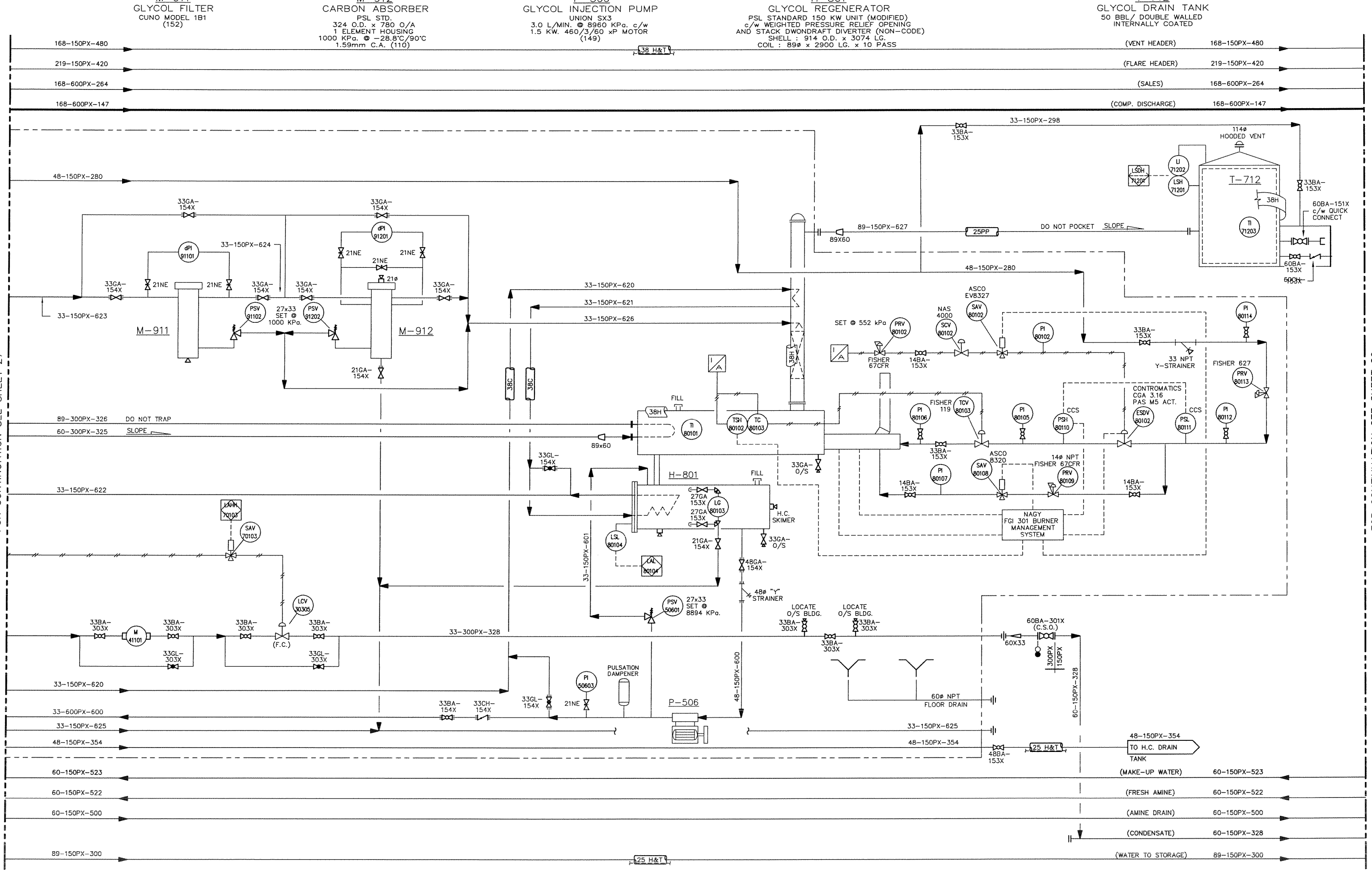
FOR CONTINUATION SEE SHEET 26



FOR CONTINUATION SEE SHEET 28

FOR CONTINUATION SEE SHEET 27

FOR CONTINUATION SEE SHEET 29

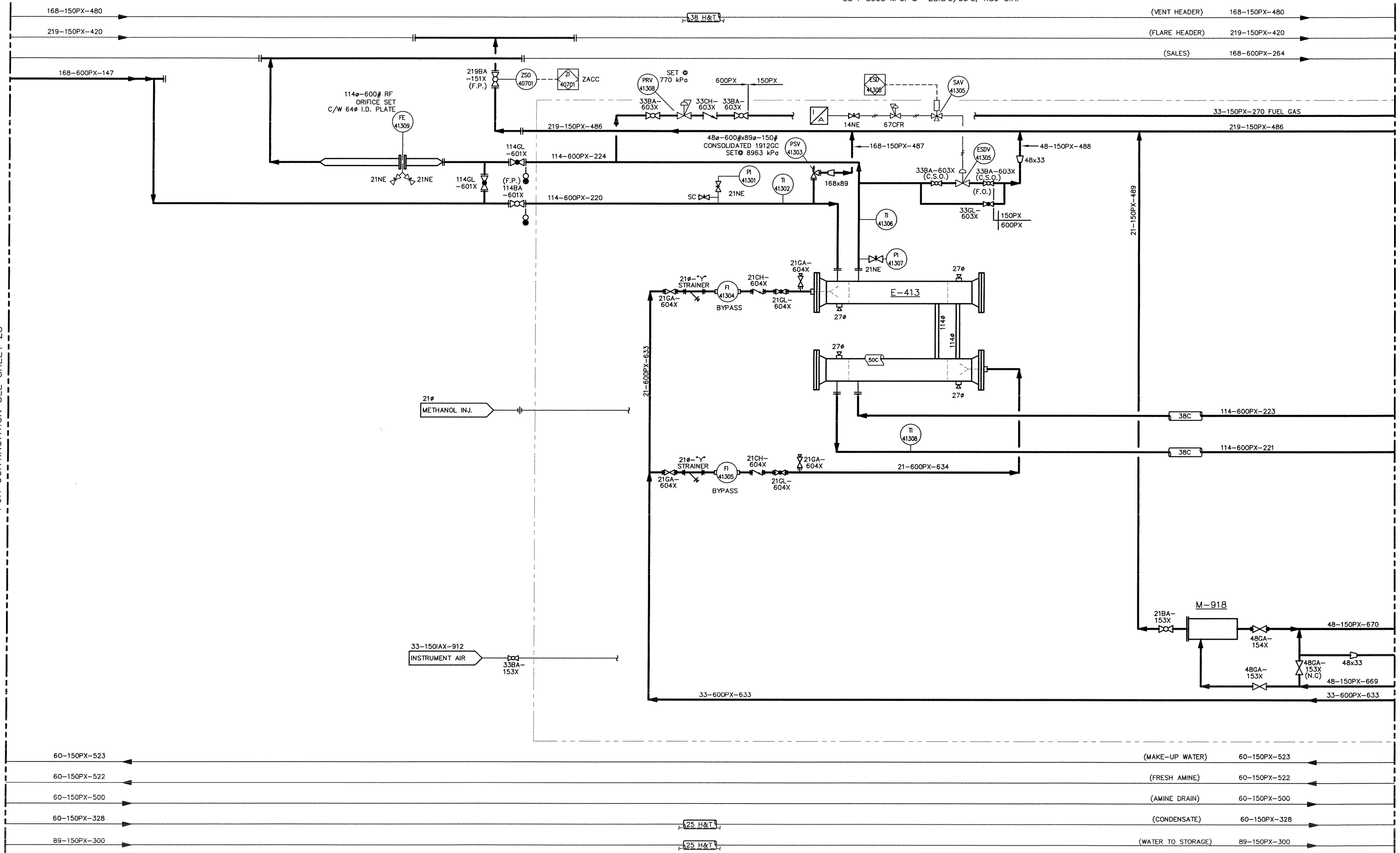


GAS/GAS EXCHANGER
324 O.D. x 12186 T/T (2 PASS)
TS : 8963 kPa. @ -28.8°C/66°C, 1.59 C.A.
SS : 8963 kPa. @ -28.8°C/66°C, 1.59 C.A.

REFRIGERANT FILTER/DRYER
SPORLAN MODEL C-19212P
c/w FOUR (4) 4864 CORES

FOR CONTINUATION SEE SHEET 28

FOR CONTINUATION SEE SHEET 30



SHEET NUMBER	DRAWING NUMBER	REV
29 OF 38	F-23212-F-00-01	7

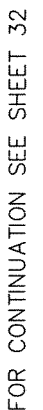
LOW TEMP. SEPARATOR
914 O.D. x 4572 S/S
8963 kPa. @ -28.8°C/66°C, 1.59 C.A.
BOOT : 324 O.D. x 543 LG.



25 H&T

COMPRESSOR DRIVER
ELECTRIC MOTOR
150 H.P., 480/3/60
xP 120 RPM DIRECT DRIVE

FOR CONTINUATION SEE SHEET 30



SHEET NUMBER	DRAWING NUMBER	REV
31 OF 38	F-23212-F-00-01	7

REFRIGERANT SUBCOOLER
168 O.D. x 6096 TS/TS
TS : 8963 KPa. @ -28.8°/66°C, 1.59mm C.A.
SS : 1724 KPa. @ -28.8°/66°C, 1.59mm C.A.

7

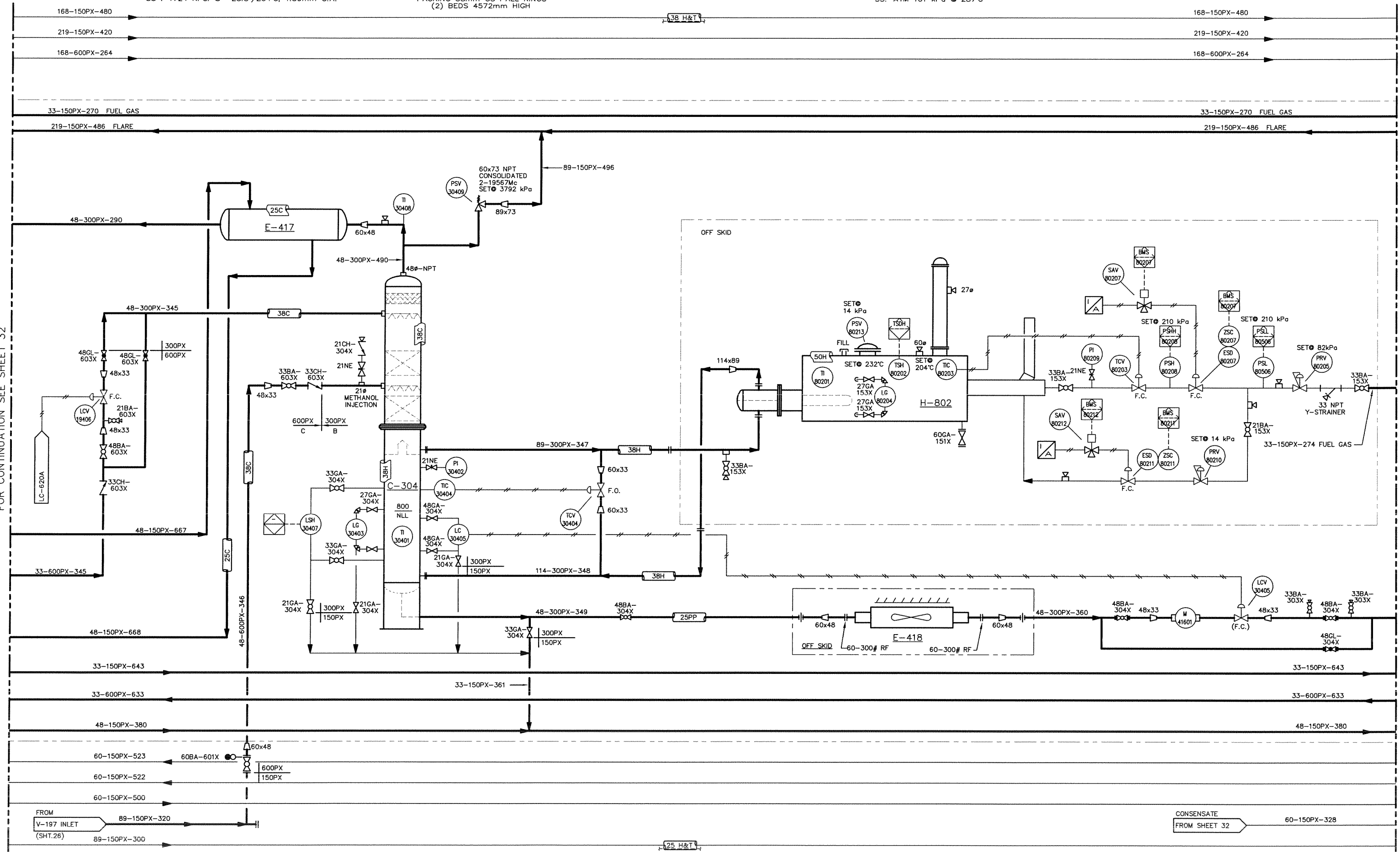
OVERHEAD/C3 SUBCOOLER EXCHANGER
48 O.D. x 89 O.D. x 6096
TS : 3792 kPa. @ -28.8°/204°C, 1.59mm C.A.
SS : 1724 kPa. @ -28.8°/204°C, 1.59mm C.A.

DEETHANIZER
356 O.D. x 14583 S/S
3792 kPa. @ -28.8°/204°C 1.59mm C.A.
PACKING 38mm CS PALL RINGS
(2) BEDS 4572mm HIGH

DEETHANIZER REBOILER
914 O.D. x 3668 L.
TS: 3792 kPa @ -28.8°/232°C, 1.59 C.A.
SS: ATM 101 kPa @ 287°C

PRODUCT COOLER
COMMON FRAME WITH E-415
3792 kPa @ 204°

FOR CONTINUATION SEE SHEET 32



FOR CONTINUATION SEE SHEET 34

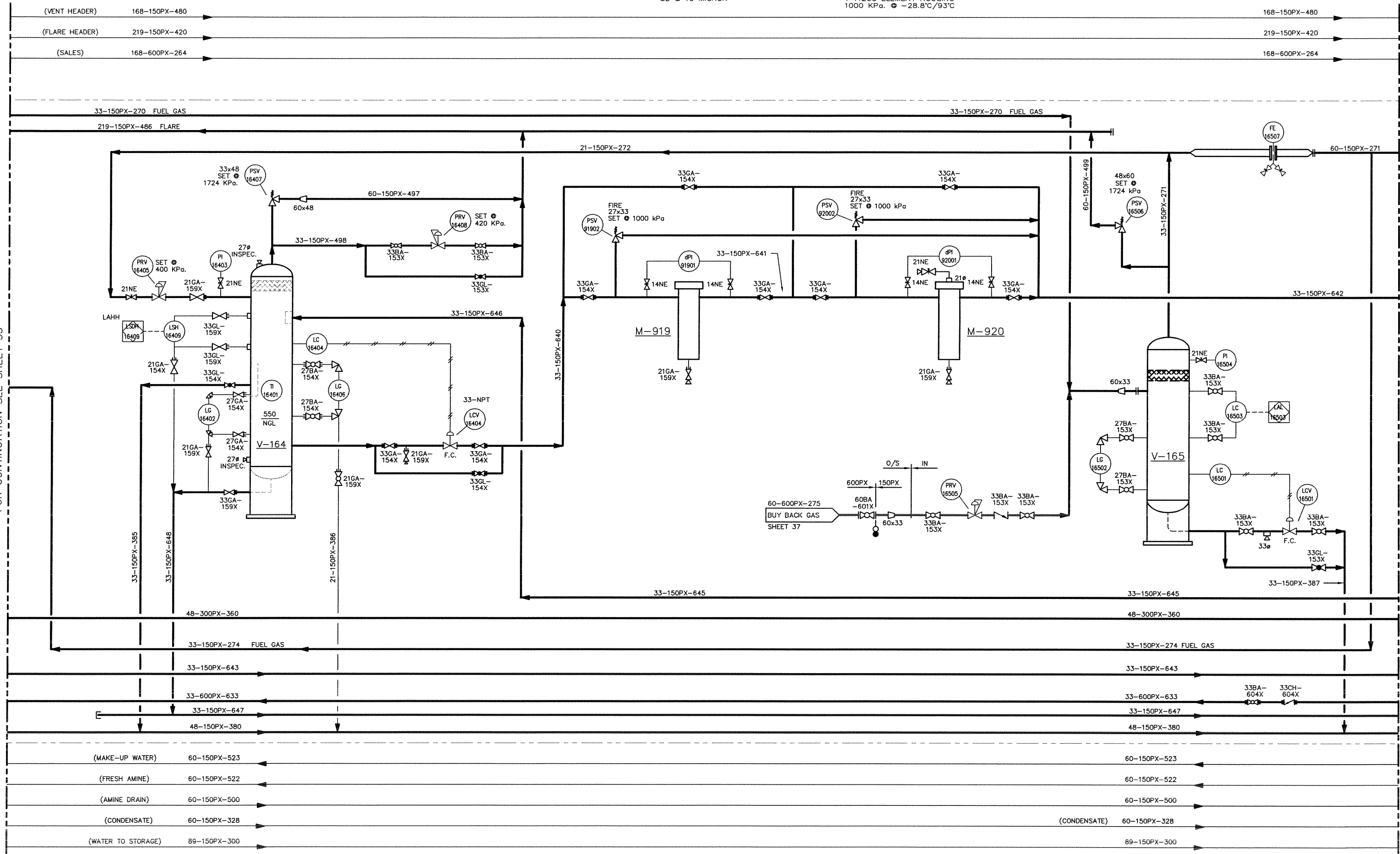
GLYCOL FLASH TANK
324 O.D. x 2286 S/S
1724 kPa. @ -28.8°/93°C, 1.59mm C.A.

GLYCOL FILTER
CUNO MODEL 3000L2
9653 kPa @ -28.8°/66°C
5L @ 10 MICRON

CARBON ABSORBER
PSL STD.
324 O.D. x 780 O/A
1 1120C ELEMENT HOUSING
1000 kPa. @ -28.8°/93°C

FUEL GAS SCRUBBER
324ø x 1524 S/S
1724 kPa @ -29°/66°C, 1.59mm C.A.

FOR CONTINUATION SEE SHEET 33



FOR CONTINUATION SEE SHEET 35

GLYCOL DRAIN TANK
50 BBL/ DOUBLE WALLED
INTERNALLY COATED



SHEET NUMBER	DRAWING NUMBER	REV
35 OF 38	F-23212-F-00-01	7

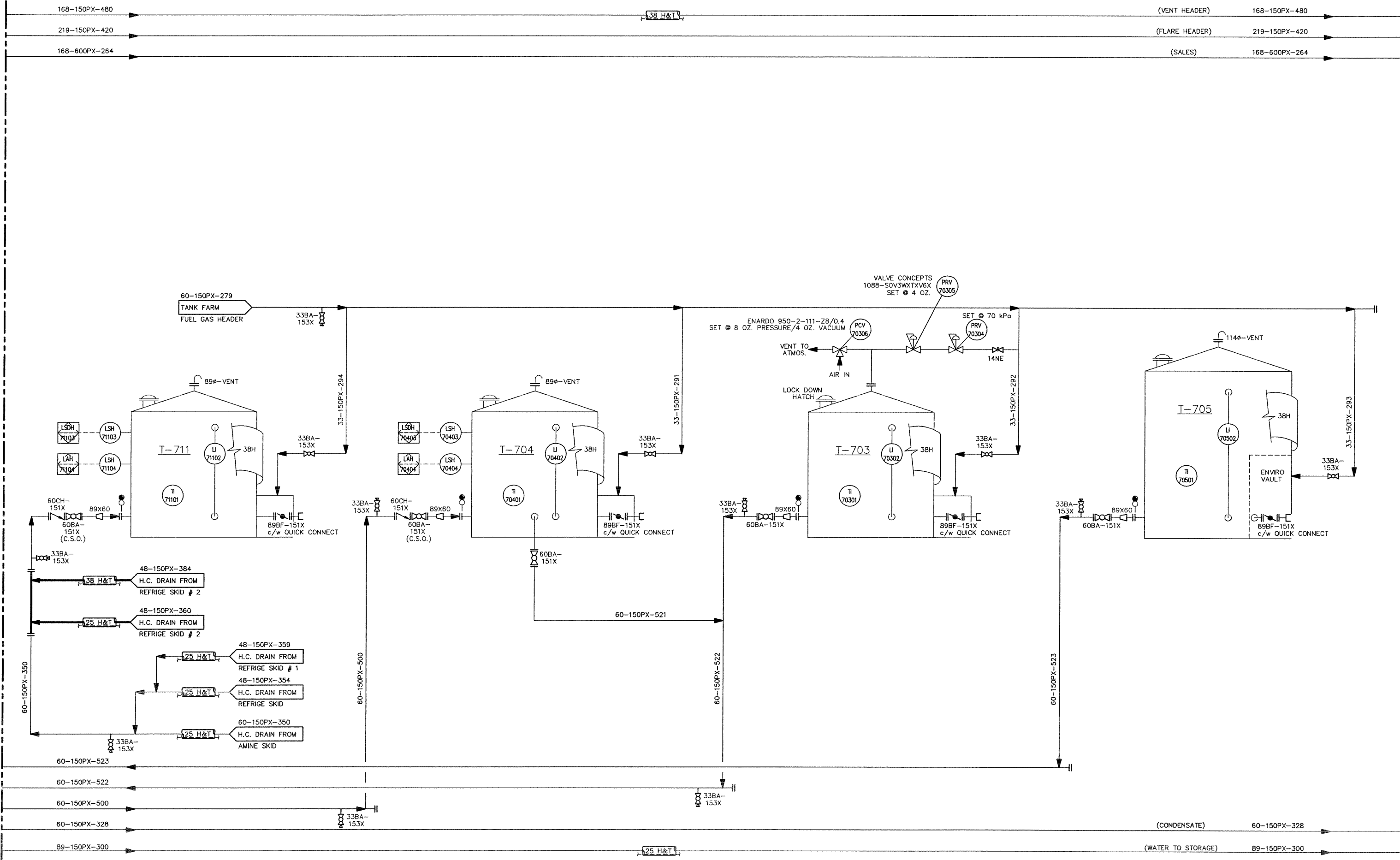
FOR CONTINUATION SEE SHEET 35

T-711
H.C. DRAIN TANK
100 BBL. (16 m³)
3099 Ø X 2133 HIGH
INTERNALLY COATED

T-704
AMINE DRAIN TANK
100 BBL. (16 m³)
3099 Ø X 2133 HIGH

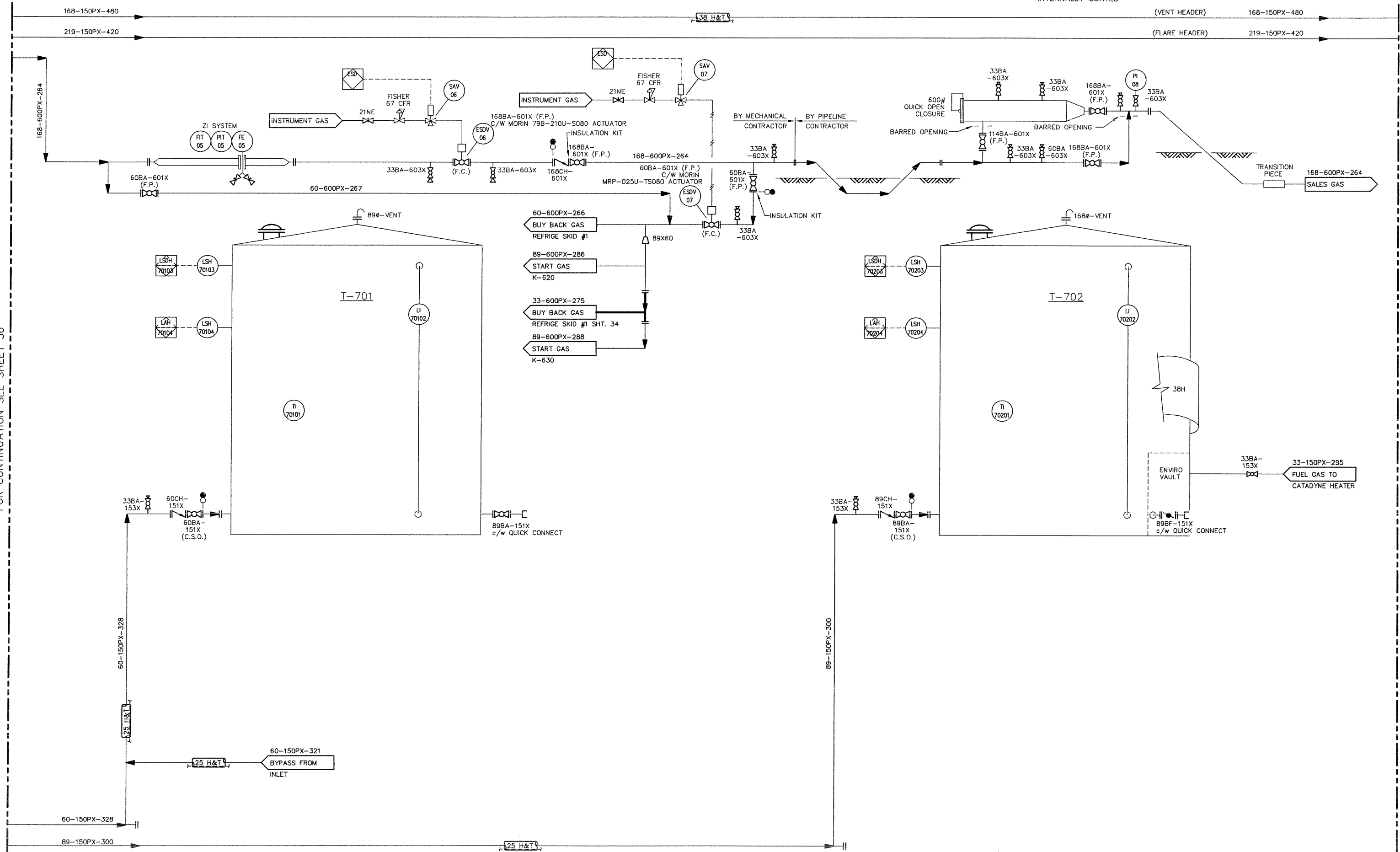
T-703
FRESH AMINE TANK
100 BBL. (16 m³)
3099 Ø X 2133 HIGH

T-705
MAKE-UP WATER TANK
200 BBL. (32 m³)
3658 Ø X 3048 HIGH
INTERNALLY COATED



FOR CONTINUATION SEE SHEET 37

PRODUCED WATER TANK
400 BBL. (64 m³)
3658 Ø X 6096 HIGH
INTERNALLY COATED



SHEET NUMBER	DRAWING NUMBER	REV
37 OF 38	F-23212-F-00-01	7

FOR CONTINUATION SEE SHEET 37

VENT KNOCKOUT DRUM
914 O.D. X 2438 S/S

FLARE KNOCKOUT DRUM
1829 O.D. X 6096 S/S

VENT STACK
168ø X

FLARE STACK
273ø X 15240 HIGH

