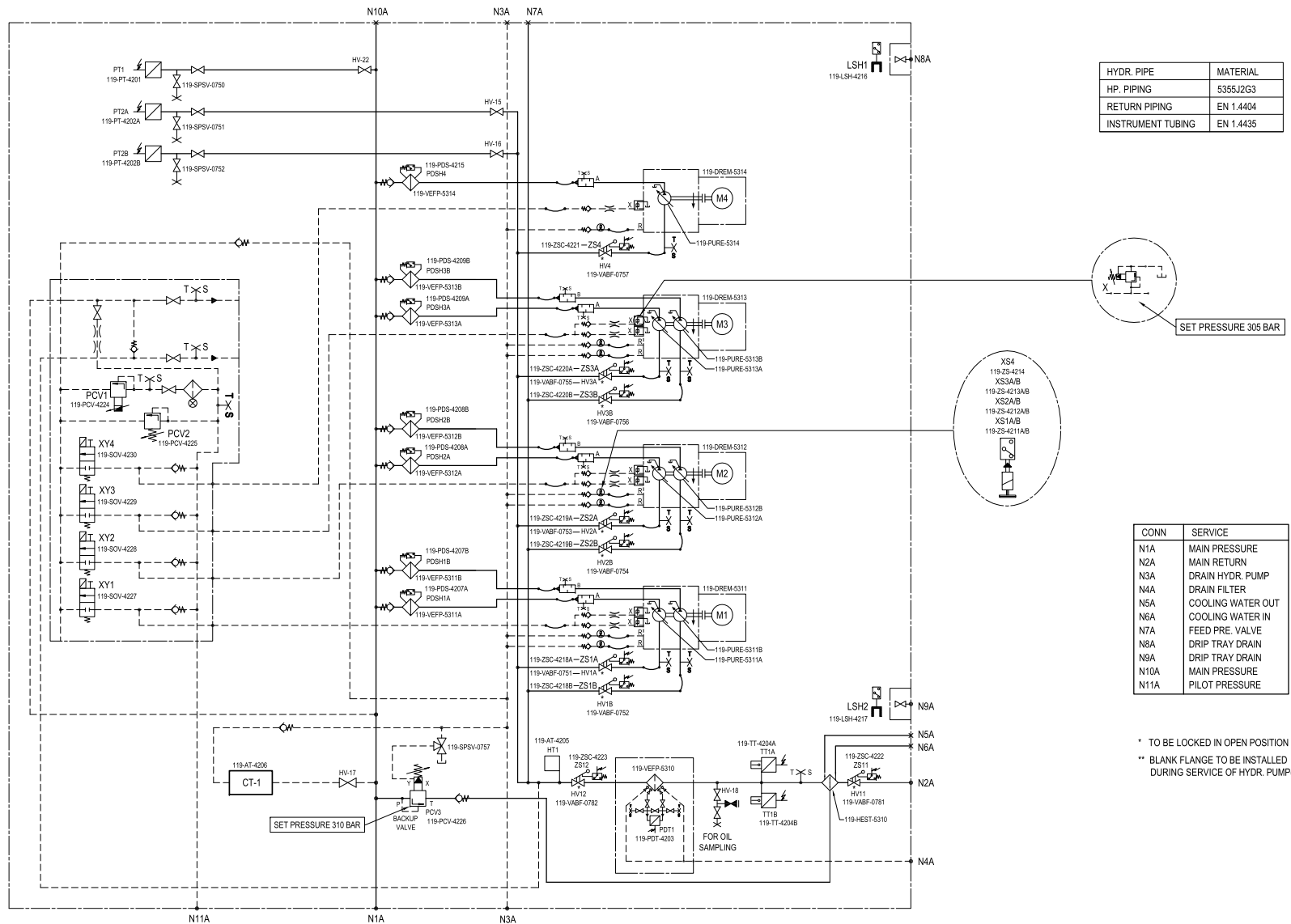




HYDRAULIC POWER UNIT A
119HYPU-5310

TAG-119HYPU-5310

	Status	Sign.	Date		
E	Revised	JEOE/23Apr18	15 Dec 17		
D	Revised	JEOE/20Apr18	15 Dec 17		
C	Revised	JEOE/04Jun18	15 Dec 17		
B	Revised	JEOE/13Apr18	15 Dec 17		
A	Revised	JEOE/31Jan18	15 Dec 17		
K	Description	Sign./Date	Prod. rel.	Prod. rel.	15 Dec 17

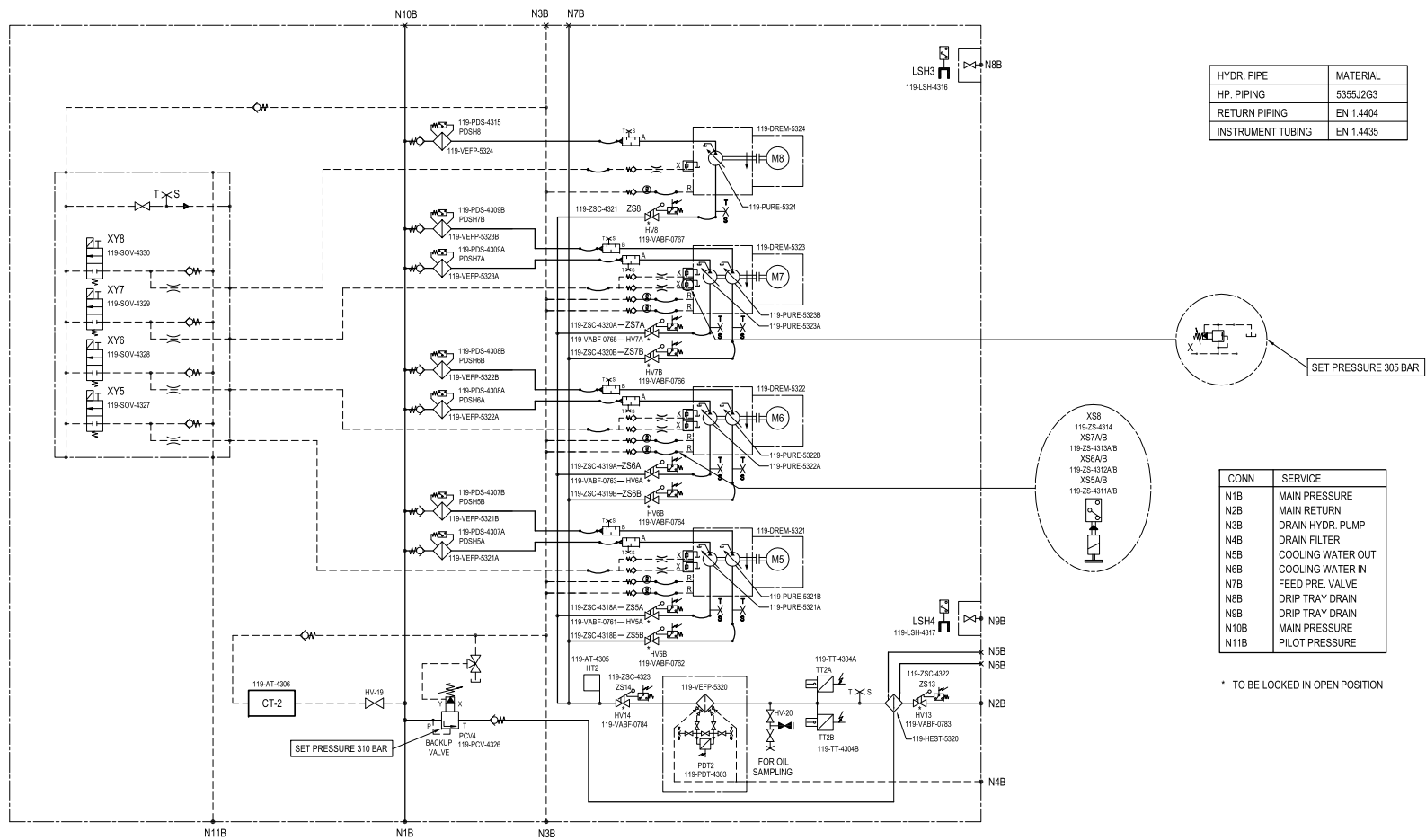
HYDRAULIC
DIAGRAM
HPU A

Replaces:

0216-2594-1

Replaced by:

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TAG-119HYPU-5320

Rev	Description	Sign	Date	Rev	Description	Sign	Date
E	Revised	JECO/23Apr19	19 Dec 17	E	Revised	JECO/23Apr19	19 Dec 17
D	Revised	JECO/22Aug18	19 Dec 17	D	Revised	JECO/22Aug18	19 Dec 17
C	Revised	JECO/14May18	19 Dec 17	C	Revised	JECO/14May18	19 Dec 17
B	Revised	JECO/13Apr18	19 Dec 17	B	Revised	JECO/13Apr18	19 Dec 17
A	Revised	JECO/31Jan18	19 Dec 17	A	Revised	JECO/31Jan18	19 Dec 17
R	Description	Sign	Date	R	Description	Sign	Date



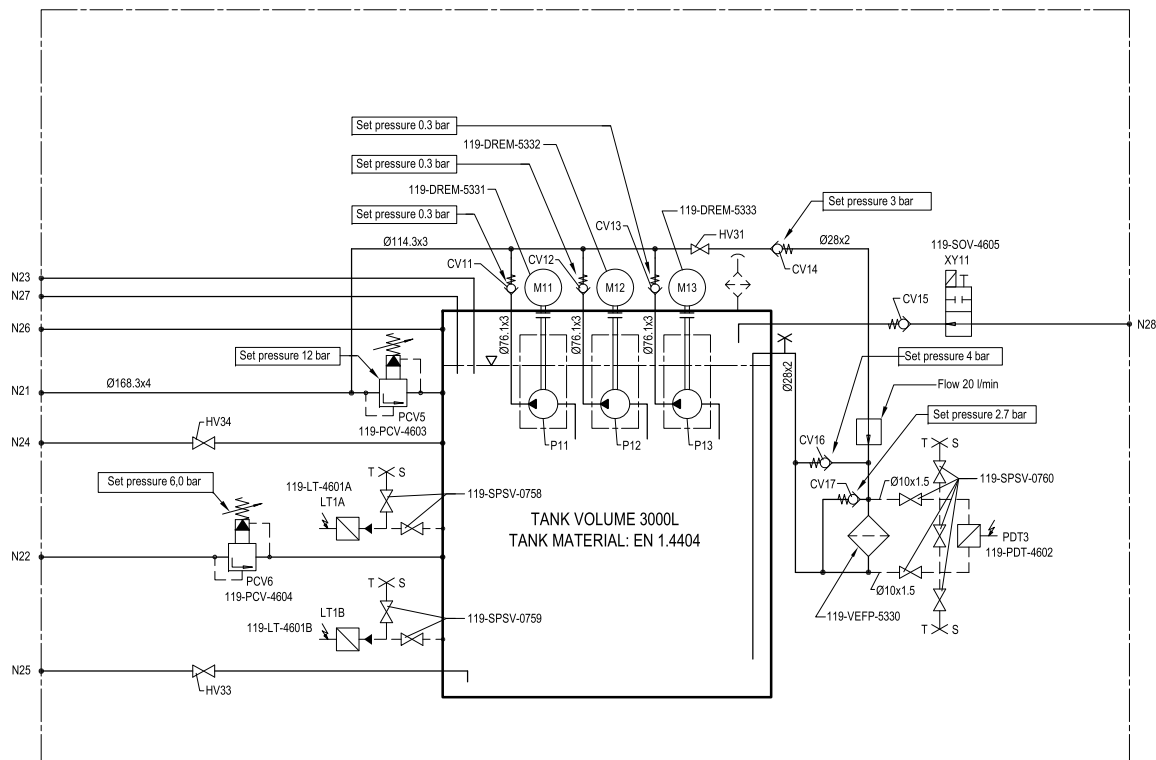
HYDRAULIC
DIAGRAM
HPU B

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Replaces:

0216-2595-1

Replaced by:



HYDR. PIPE	MATERIAL
RETURN PIPING	EN 1.4404
INSTRUMENT TUBING	EN 1.4435

NOZZLE CONNECTIONS		
	SIZE	SERVICE
N21	DN150 PN16	FEED PRESSURE OUTLET
N22	DN150 PN16	L.P. RELIEF CONNECTION
N23	DN80 PN16	DRAIN CONNECTION
N24	DN40 PN16	TRANSFER UNIT CONNECTION
N25	G 1" FEMALE	DRAIN TO SLOP
N26	DN50 FRAMO	OVERFLOW CONNECTION
N27	DN50 FRAMO	SPARE DRAIN CONNECTION
N28	DN15 FRAMO	HEATING VALVE PILOT

TAG-119HYPU-5330

E	Revised	JEOE/23Feb21		Status	Sign.	Date	 AUXILIARY HYDRAULIC POWER UNIT	Weld. dng./Cast. dng.
E	Revised	ENY/25Nov19		Constr.	BF	15 Dec 17		
D	Revised	JEOE/24Sep19		Drawn by	JEOE	15 Dec 17		
C	Revised	JEOE/06Aug18		Checked	BF	15 Dec 17		Replaces:
B	Revised	JEOE/13Apr18		Prot. rel.				0216-2596-2
A	Revised	JEOE/31Jan18		Prod. rel.	BF	15 Dec 17		Replaced by:
R	Description	Sign./Date	Ctrl	Prod. rel.	BF	15 Dec 17		

REFERENCE DOCUMENTS:	FRAMO DOC. NO.:	PROJECT DOC. NO.:
LEGEND FOR HYDRAULIC DIAGRAM	: 0216-0985-3	001.39713.000006-AE001
HYDRAULIC DIAGRAM HPU	: 0216-2594-1 / 0216-2595-1	001.39713.000006-AE005 / AE006
HYDRAULIC DIAGRAM AUX. UNIT	: 0216-2596-2	001.39713.000006-AE006
INSTRUMENT AND EQUIPMENT LIST	: 0216-2767-3	001.39713.000006-AJ001
INTERCONNECTION DIAGRAM	: 0223-0745-3	001.39713.000006-BG002

CLASSIFICATION SOCIETY: SEE FRAMO SPECIFICATION

BACK-UP VALVE SET PRESSURE : 310 BAR
MAX. HYDRAULIC SYSTEM PRESSURE : 295 BAR
MAX. HYDRAULIC RETURN PRESSURE : 6 BAR
MAX. HYDRAULIC OIL TEMPERATURE : 60 °C

MIN / MAX DESIGN TEMP. HYDR. PUMPS : -30°C / +70°C
MIN / MAX OPERATING TEMP. HYDR. PUMPS : +20°C / +60°C
MIN / MAX DESIGN PRESSURE HYDR. PUMPS : 0 BAR / 450 BAR
MIN / MAX OPERATING PRESSURE HYDR. PUMPS : 6 BAR / 295 BAR

PIPES:
CALCULATIONS/DIMENSIONS FOR HYDRAULIC HIGH PRESSURE
PIPING TO BE BASED UPON SYSTEM PRESSURE

HYDRAULIC RETURN PIPING IS TO HAVE PRESSURE CLASS PN16
DUE TO NOISE AND MECHANICAL STRENGTH PROPERTIES

ALL GIVEN PIPE DIMENSIONS ARE MINIMUM DIMENSIONS

HYDRAULIC PIPES MATERIALS:
- HIGH PRESSURE MAIN PIPES : DUPLEX STAINLESS STEEL EN 1.4462 SEAMLESS.
- HIGH PRESSURE BRANCH PIPES : DUPLEX STAINLESS STEEL EN 1.4462 SEAMLESS.
- RETURN MAIN PIPES : STAINLESS STEEL AISI 316 EN 1.4432 LONGITUDINAL WELDED.
- RETURN BRANCH PIPES : STAINLESS STEEL AISI 316 EN 1.4435 SEAMLESS.
- PILOT PIPES : DUPLEX STAINLESS STEEL EN 1.4462 SEAMLESS.

SUMMARY TABLES TIE-IN-POINTS:

AUXILIARY UNIT

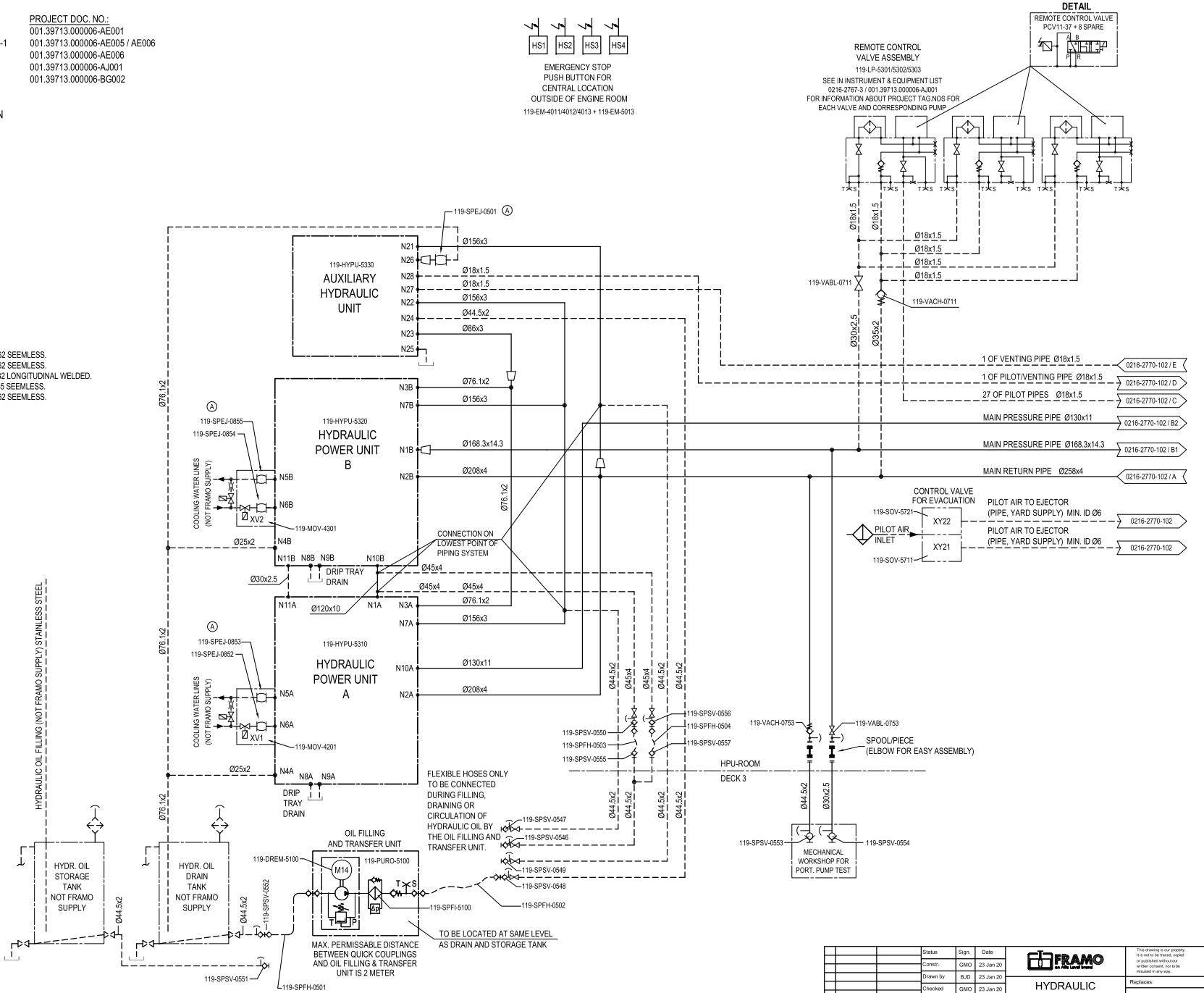
CONN	SERVICE
N21	FEED PRESSURE OUTLET
N22	L.P. RELIEF CONNECTION
N23	DRAIN CONNECTION
N24	TRANSFER UNIT CONNECTION
N25	DRAIN TO SLOP
N26	OVERFLOW CONNECTION
N27	SPARE DRAIN CONNECTION
N28	HEATING VALVE PILOT

HPU B

CONN	SERVICE
N1B	MAIN PRESSURE
N2B	MAIN RETURN
N3B	DRAIN HYDR. PUMP
N4B	DRAIN FILTER
N5B	COOLING WATER OUT
N6B	COOLING WATER IN
N7B	FEED PRE. VALVE
N8B	DRIP TRAY DRAIN
N9B	DRIP TRAY DRAIN
N10B	MAIN PRESSURE
N11B	PILOT PRESSURE

HPU A

CONN	SERVICE
N1A	MAIN PRESSURE
N2A	MAIN RETURN
N3A	DRAIN HYDR. PUMP
N4A	DRAIN FILTER
N5A	COOLING WATER OUT
N6A	COOLING WATER IN
N7A	FEED PRE. VALVE
N8A	DRIP TRAY DRAIN
N9A	DRIP TRAY DRAIN
N10A	MAIN PRESSURE
N11A	PILOT PRESSURE



Status	Sign.	Date	FRAMO	This drawing is our property. It is not to be copied, adapted or published without our written consent. Not to be reused in any way.
Constr.	GM	23 Jan 20		
Drawn by	RJD	23 Jan 20		
Checked	GM	23 Jan 20		
Rev.	GM	23 Jan 20		
A	Revised	JEO/08Apr21	Prod. n°	
K	Description	Sign./Date	Prod. n°	MAK/0
HYDRAULIC DIAGRAM HPU ROOM				Replaces: 0216-2770-101 Replaced by:

