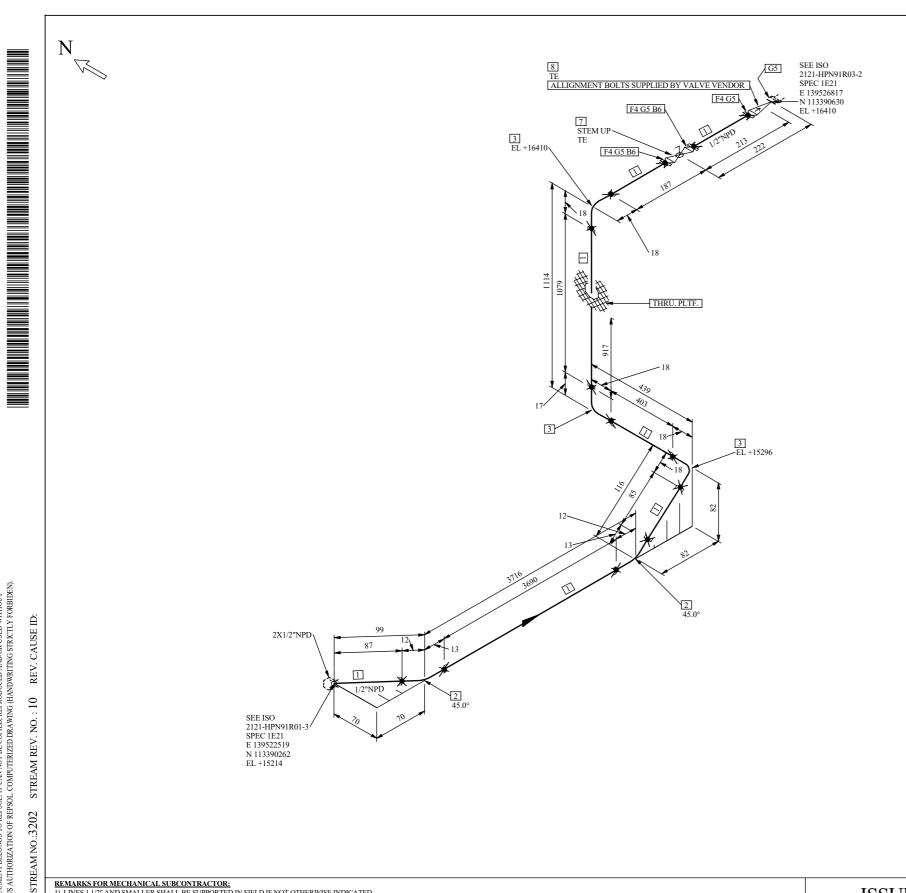


REMARKS FOR MECHANICAL SUBCONTRACTOR:

1) LINES 1.1/2" AND SMALLER SHALL BE SUPPORTED IN FIELD IF NOT OTHERWISE INDICATED.

2) ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION.



BILL OF MATERIAL HOLD COMPONENT DESCRIPTION ITEM CODE QTY STATUS (IN) PIPE - A106-B PE SMLS T01AC03Z02 S-XS < PIPA010A11/2XS > (L-6679) I132777 FITTINGS 45 ELBOW ASME B16.11 3000# A105N SWE SWE - R32FNC441101 NREQD I1651291 <45FA300LBK1/2>(L-184) 90 ELBOW ASME B16.11 3000# A105N SWE SWE - R31FNC441103 NREQD 11651295 <90FA300LBK1/2>(L-178) FLANGES SW FLANGE ASME B16.5 300# A105N RFFE SWE 125 - 250 AARH F02CFC44B105 S-XS 19762189 <SWFA300R351/2XS> (L-375) SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 1/2 163508949 ASME B16.5 G03GFP1IS12 < N/A> (N/A) BOLTS STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I010B0301 I53437190 <SB2R51G1/221/2> - 2 NUTS PER BOLT - 65 mm Length VALVES / IN-LINE ITEMS BALL V-FLT-SS-FB API 608 300# A216-WCB RFFE 316/R-PTFE, GF B7/2H 125 - 250 $\,$ I64812610 AARH 2PSB-FULL BORE FLOATING BALL OHW TIGHT SHUT-OFF (TSO) ASME B16.5 V1FJFC29BZZH NREQD <N/A> (N/A) DISC CHECK WFR VALVE ASME B16.34 300# A216-WCB RFTBE 316/R-PTFE, GF 125 -110208503 250 AARH SL VERTICAL&HORIZONTAL CRACK. PRESS. 1/2 PSI ASME B16.5 V40JFC29P01 NREQD <N/A> (N/A)

3) FOR THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL ★, ONE WELD FOR ADJUSTMENT OF IN LINE COMPONENT MUST BE LEFT 4) FOR EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603. 5) GUSSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002. 6) CROSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED. 7) IN CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN. 8) ACTUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF. TO 4274-LZ-PC-00000603). 9) WHERE EARTHING BONDING IS REQUIRED, MECHANICAL SUBCONTRACTOR TO PERFORM IT BASED ON DOC. 45-P-000-7-06-00902 / 4274 -NN-DW-00000002 AND ASSEMBLY NO FEA005 AND FE019.									Si
SUPPORTS LEGEND: DENOTES PARTS LIST NO SUPPORT G=GUIDE F=AVIAL STOP B=ANCHOR M=SPRING S=TEHLON PAD WHERE A WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.									
								STRESS CALC. Nº	TITL
								P & ID 19-A-19-000-1-01-00001 sheet 114] 13
00	ISSUED FOR REFERENCE		01-SEP-23	U.CHAVAN	P.VAZE	G.PAGANONI		LINE LIST N° 19-L-19-000-2-00-80602	
REV.	7. DESCRIPTION			DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT	PIPE LAYOUT N° 19-L-19-000-2-00-86197 sheet 4	

REFERENCE Signature for construction is shown on Iso list of relevant CWA

ISSUED FOR

ISOMETRIC DRAWING LINE 1/2"-HPN-91R03-1E21

NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST. 2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-80102

CONTRACTOR:

ANNEX

PIPE MATERIAL

HEAT TREATMENT (PWHT)

PAINTING SCHEME (3)

PED CATEGORY

INSULATION CODE / THK. (mm)

CS

3. WELDING ACCORDING TO 45-L-45-000-2-00-80021

19-000-2-02-00001 sheet 2121HPN91R03-1

5. CODE SHOWN IN BOM BETWEEN "<" & ">" DENOTES REPSOL UNICODE. "<N/A>" MEANS UNICODE IS "NOT AVAILABLE" CONTRACTOR DRAWING NUMBER:

PIPING CLASS 4001008 4274-XH-DL-2121HPN91R03-1 1E21 WELDING CLASS (4) LOW LINEAL DENSITY POLYETHILENE (PEL)

DRAWING NUMBER

AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT Art 4.3 REPSQL

CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX

00

PROJECT:

FILENAME: 19-000-2-02-00001 sheet 2121HPN91R03-1.dwg