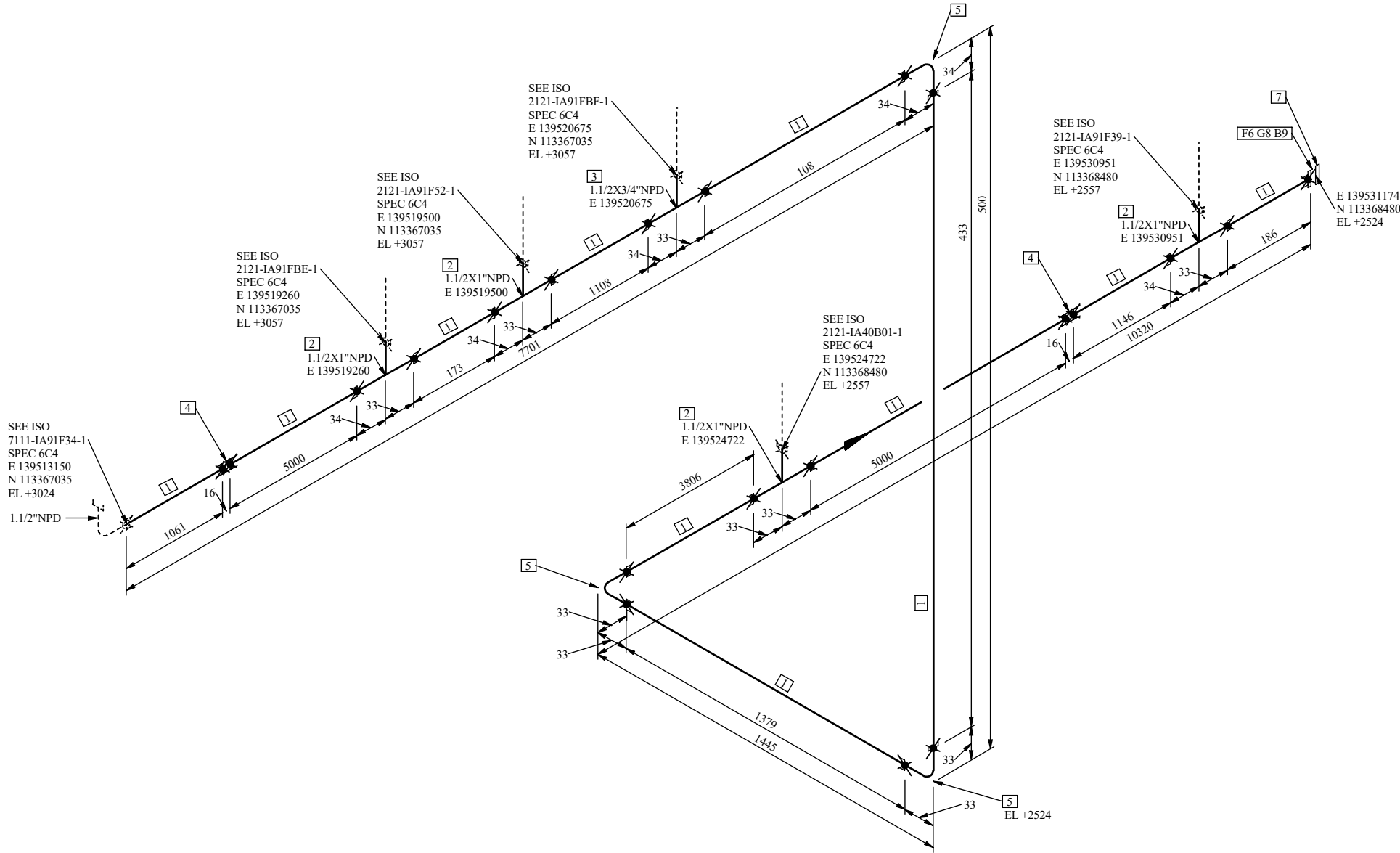




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EXTR. DATE: 31-08-2023 14:25:57 STREAM NO.: 3250 STREAM REV. NO. : 10 REV. CAUSE ID:



BILL OF MATERIAL					
PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
PIPE					
1	PIPE - A312-TP304/304L DUAL GR PE SMLS T01AL2CZ02 S-40S <PIPB04DA211/240S> (L-PIP111)	1.1/2	12257941	19.4 M	
FITTINGS					
2	REDUCING TEE ASME B16.11 3000# A182-F304/304L DUAL GR SWE SWE - R12FNL2A1101 NREQD <RTEB450LBK11/21> (L-RTE18)	1.1/2X1	12258217	4	
3	REDUCING TEE ASME B16.11 3000# A182-F304/304L DUAL GR SWE SWE - R12FNL2A1101 NREQD <RTEB450LBK11/23/4> (L-RTE18)	1.1/2X3/4	12258216	1	
4	COUPLING ASME B16.11 3000# A182-F304/304L DUAL GR SWE SWE - R01FNL2A1101 NREQD <FCPB450LBK11/2> (L-FCP08)	1.1/2	12258107	2	
5	90 ELBOW ASME B16.11 3000# A182-F304/304L DUAL GR SWE SWE - R31FNL2A1103 NREQD <90FB450LBK11/2> (L-90F05)	1.1/2	12258119	3	
FLANGES					
6	SW FLANGE ASME B16.5 150# A182-F304/304L DUAL GR RFFE SWE 125 - 250 AARH F02CDL2AB105 S-40S <SWFB450R1511/240S> (L-SWF30)	1.1/2	12260364	1	
7	BLIND FLANGE ASME B16.5 150# A182-F304/304L DUAL GR RF NREQD 125 - 250 AARH F10CDL2AB005 <BLFB450R1511/2> (L-BLF33)	1.1/2	12260398	1	
GASKETS					
8	SPIRAL WOUND GASKET ASME B16.20 150# RFTBE 304/GRAFOIL SS 304 SS 304 ASME B16.5 G03GDP11S04 <N/A> (N/A)	1.1/2	11654484	1	
BOLTS					
9	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B8M CL2/A194-8MA INCH SIZE 101OB1601 <SB2R58G1/223/4> - 2 NUTS PER BOLT - 70 mm Length	1/2	163801421	4	

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.						
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.						
SUPPORTS LEGEND:						
□ DENOTES PARTS LIST NO		PIPE SUPPORT	—	A=RESTING SUPPORT	G=GUIDE	F=AXIAL STOP
				WHERE □ WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.	B=ANCHOR	M=SPRING
					S=TEFLON PAD	
						STRESS CALC. N°
						-
						P & ID
						19-A-19-000-1-01-00001 sheet 106
						LINE LIST N°
00	ISSUED FOR REFERENCE		01-SEP-23	U.CHAVAN	P.VAZE	G.PAGANONI
						19-L-19-000-2-00-80602
						PIPE LAYOUT N°
REV.	DESCRIPTION		DATE	DRW. BY	CHECK BY	APPR. BY
						APPR. CLIENT
						19-L-19-000-2-00-86196 sheet 1

ISSUED FOR REFERENCE	PIPE MATERIAL		NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST. 2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-80102. 3. WELDING ACCORDING TO 45-L-45-000-2-00-80021. 4. PAINTING ACCORDING TO 45-A-45-000-1-00-20160. 5. CODE SHOWN IN BOM BETWEEN "<" & ">" DENOTES REPSOL UNICODE. "<N/A>" MEANS UNICODE IS "NOT AVAILABLE".									
	304, dual grade											
	HEAT TREATMENT (PWHIT)											
	N											
Signature for construction is shown on Iso list of relevant CWA	PAINTING SCHEME (3)				CONTRACTOR DRAWING NUMBER:		PROJECT:					
	NR				4274-XH-DL-2121IA91F34-1		4001008					
TITLE	PIPING CLASS											
	6C4											
	WELDING CLASS (4)							LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT		CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX		
	M											
PED CATEGORY		Art 4.3										
ISOMETRIC DRAWING LINE	INSULATION CODE / THK. (mm)		ANNEX 19		SPEC. L		DRAWING NUMBER 19-000-2-02-00001 sheet 2121IA91F34-1				REV. 00	
	N 0											
1-1/2"-IA-91F34-6C4												