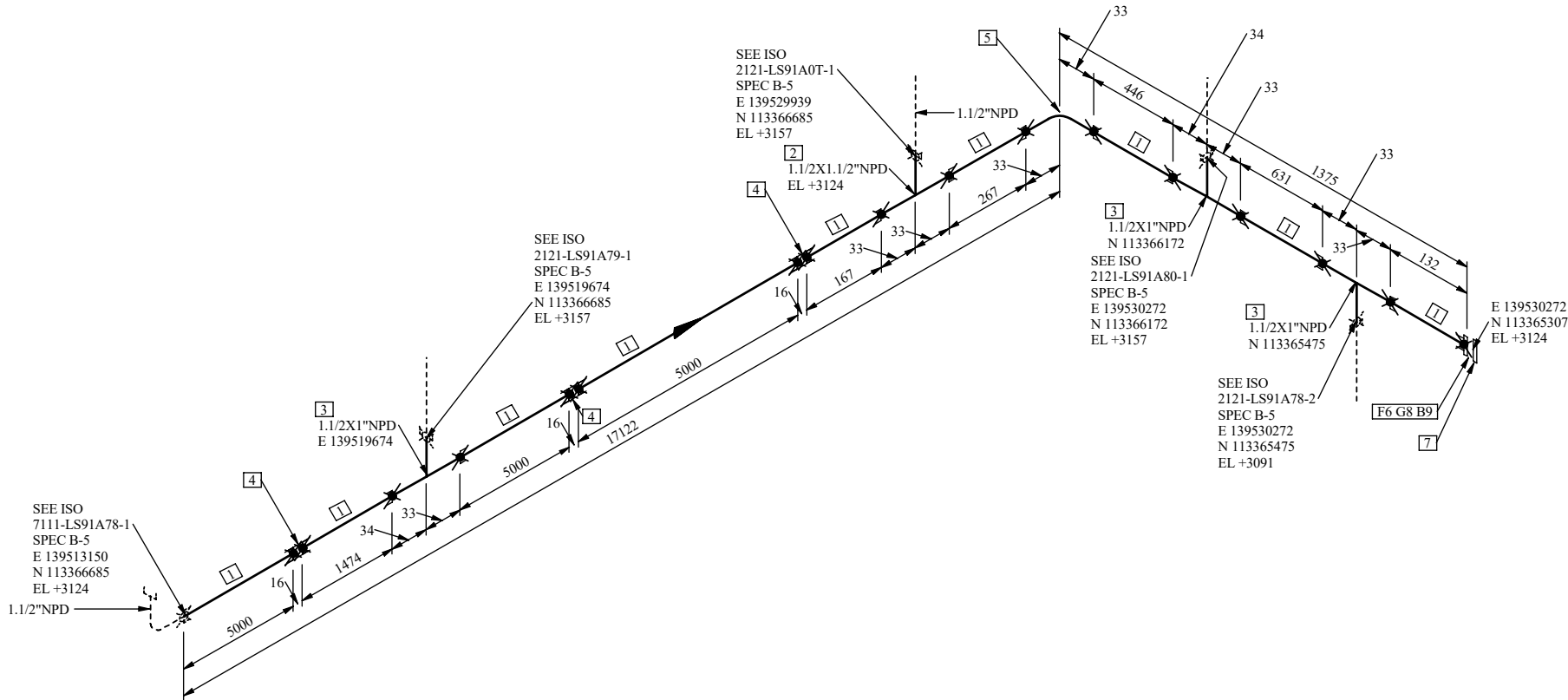




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EXTR. DATE: 01-09-2023 13:39:04 STREAM NO.: 3150 CWA NO.: 10 REV. CAUSE ID:



BILL OF MATERIAL					
PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
PIPE					
1	PIPE - A106-B PE SMLS T01AC03Z02 S-XS <PIPA010A111/2XS> (L-6679)	1.1/2	I132809	18.2 M	
FITTINGS					
2	TEE ASME B16.11 3000# A105N SWE SWE - R11FNC441101 NREQD <TESA300LBK11/2> (L-179)	1.1/2X1.1/2	I1651302	1	
3	REDUCING TEE ASME B16.11 3000# A105N SWE SWE - R12FNC441101 NREQD <RTEA300KBK11/21> (L-RTE15)	1.1/2X1	I1651307	3	
4	COUPLING ASME B16.11 3000# A105N SWE SWE - R01FNC441101 NREQD <FCPA300LBK11/2> (L-180)	1.1/2	I1651679	3	
5	90 ELBOW ASME B16.11 3000# A105N SWE SWE - R31FNC441103 NREQD <90FA300LBK11/2> (L-178)	1.1/2	I1651297	1	
FLANGES					
6	SW FLANGE ASME B16.5 150# A105N RFFE SWE 125 - 250 AARH F02CDC44B105 S-XS <SWFA300R1511/2XS> (L-295)	1.1/2	I5378345	1	
7	BLIND FLANGE ASME B16.5 150# A105N RFFE NREQD 125 - 250 AARH F10CDC44B005 <BLFA300R1511/2> (L-140)	1.1/2	I1652359	1	
GASKETS					
8	SPIRAL WOUND GASKET ASME B16.20 150# RFTBE 316/GRAP CARBON STEEL SS 316 ASME B16.5 G03GDP11A01 <SPWQ400R111/2> (L-1527)	1.1/2	I1256083	1	
BOLTS					
9	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE 1010B0301 <SB2R51G1/223/4> - 2 NUTS PER BOLT - 70 mm Length	1/2	I53437201	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 B=ANCHOR M=SPRING S=TEFLON PAD WHERE □ WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE.						
						STRESS CALC. N° -
						P & ID 19-A-19-000-1-01-00001 sheet 117
00	ISSUED FOR REFERENCE	01-SEP-23	U.CHAVAN	P.VAZE	G.PAGANONI	LINE LIST N° 19-L-19-000-2-00-80602
REV.	DESCRIPTION	DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT 19-L-19-000-2-00-86192 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".							
	CS									
	HEAT TREATMENT (PWHT)									
	N									
Signature for construction is shown on Iso list of relevant CWA	PAINTING SCHEME (3)				CONTRACTOR DRAWING NUMBER: 4274-XH-DL-2121LS91A78-1		PROJECT: 4001008			
	20									
	PIPING CLASS									
	B-5									
TITLE	WELDING CLASS (4)		 LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT					CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX		
ISOMETRIC DRAWING LINE	E									
	PED CATEGORY									
	Art 4.3									
1-1/2"-LS-91A78-B-5 (HA)	INSULATION CODE / THK. (mm)		ANNEX 19		SPEC. L		DRAWING NUMBER 19-000-2-02-00001 sheet 2121LS91A78-1		REV. 00	
	HA 50									