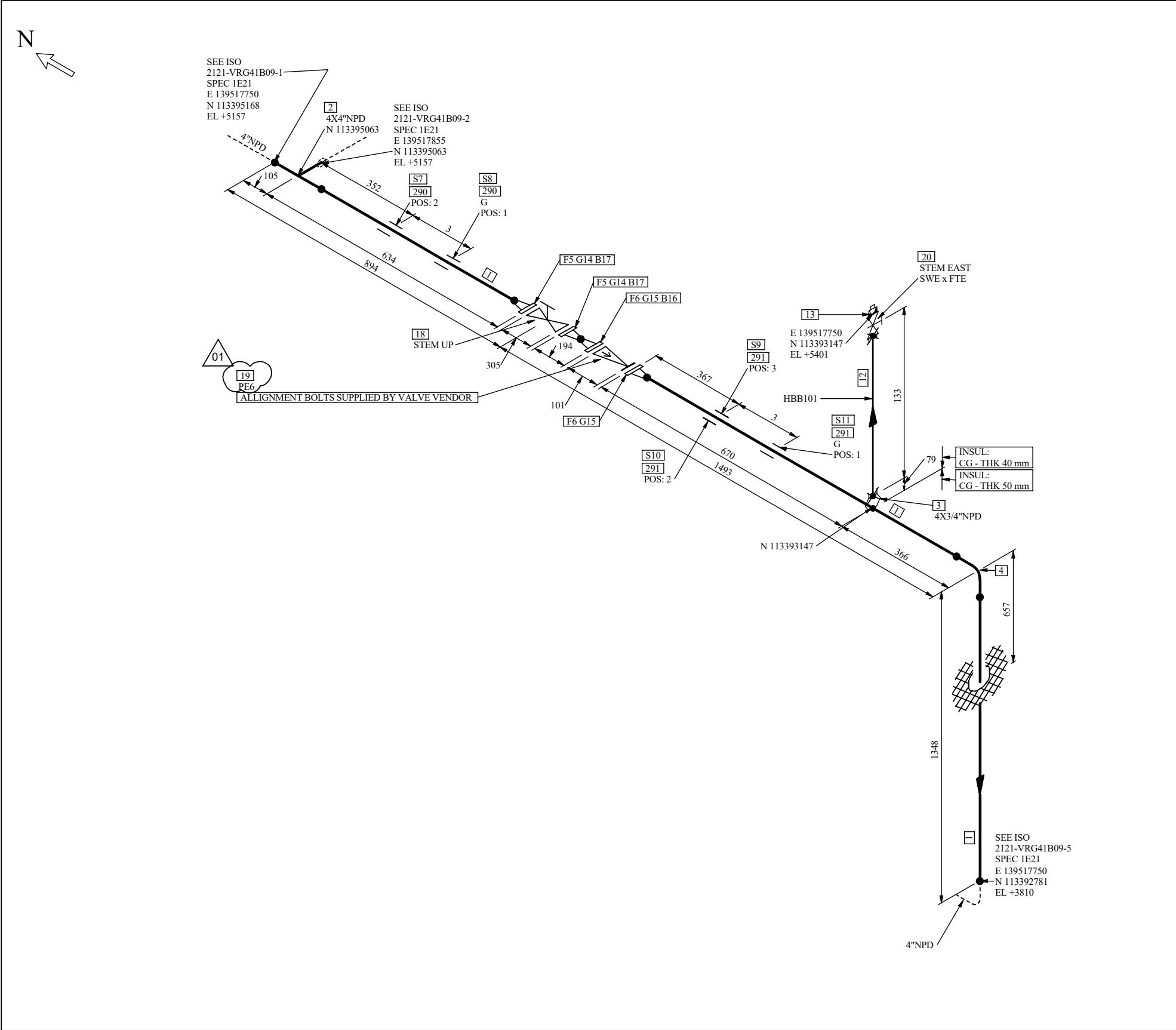


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EXTR. DATE: 20-09-2023 13:49:51

STREAM NO.:4570 STREAM REV. NO. : 10 REV. CAUSE ID: 10



BILL OF MATERIAL					
PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
PIPE					
1	PIPE - A106-B BE SMLS T01AC03V02 S-STD <PIPA010B14STD> (L-7806)	4	I117953	2.5 M	
FITTINGS					
2	STRAIGHT TEE ASME B16.9 A234-WPB BE SMLS C31DC04V01 S-STD <TEBA200F316151615> (L-6955)	4X4	I129183	1	
3	REDUCING SOCKOLET MSS-SP-97 3000# A105N BE SWE - R13DNC44V101 NREQD <SOKA300LB01611> (L-343)	4X3/4	I1651369	1	
4	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F34STD> (L-7955)	4	I128635	1	
FLANGES					
5	WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC44BV05 S-STD <WNFA300R354STD> (L-236)	4	I4272446	2	
6	WN FLANGE ASME B16.5 600# A105N RFFE BE 125 - 250 AARH F01CHC44BV05 S-STD <WNFA3004654STD> (L-248)	4	I5355798	2	
PIPE SUPPORTS					
7	STAKES SUPPORTS ST01 HEA120	4	290	1	
8	CLAMPED GUIDE,COLD INS.-F2G1 H=150 L=300	4	290	1	
9	ADDED PLATES_P73_HE 100A	4	291	1	
10	STAKES SUPPORTS ST01 HEA120	4	291	1	
11	CLAMPED GUIDE,COLD INS.-F2G1 H=150 L=300	4	291	1	
PIPE					
12	PIPE - A106-B PE SMLS T01AC03Z02 S-XS <PIPA010A13/4XS> (L-6679)	3/4	I132785	0.2 M	
FITTINGS					
13	PLUG ROUND HEAD ASME B16.11 - A105N MTE NREQD - R42FQC44W001 NREQD <PLUA300CK3/4> (L-77)	3/4	I10088232	1	
GASKETS					
14	SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 ASME B16.5 G03GFP1IS12 <N/A> (N/A)	4	I63508975	2	
15	SPIRAL WOUND GASKET ASME B16.20 600# RFTBE 304/GRAFOIL CARBON STEEL SS 304 ASME B16.5 G03GHP1IS12 <N/A> (N/A)	4	I63509029	2	
BOLTS					
16	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R051G7/810> - 2 NUTS PER BOLT - 255 mm Length	7/8	I66130801	8	
17	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G3/441/2> - 2 NUTS PER BOLT - 115 mm Length	3/4	I53437466	16	
VALVES / IN-LINE ITEMS					
18	GATE VALVE API 600 300# A216-WCB RFFE 8-F6&HF API 600 B7/2H 125 - 250 AARH BB-OS&Y FLXW API 600 HW ASME B16.5 V01FFC29B167 NREQD <G44L-130> (L-130)	4	I5606092	1	
19	DISC CHECK WFR VALVE ASME B16.34 600# A216-WCB RFTBE 316/PEEK 125 - 250 AARH SL VERTICAL&HORIZONTAL CRACK. PRESS. 1/2 PSI ASME B16.5 V40JHC29P04 NREQD <N/A> (N/A)	4	I66495797	1	
20	GATE VALVE API 602 800# A105N SWE FTE 8-F6&HF WB-OS&Y SOW API 602 HW V01GIC4412BL NREQD <N/A> (N/A)	3/4	I10015410	1	

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° -
01	ISSUED FOR CONSTRUCTION	20-Sep-23	M.YADAV	P.VAZE	G.PAGANONI	P & ID 19-A-19-000-1-01-00001 sheet 53
00	ISSUED FOR CONSTRUCTION	27-JAN-23	M.YADAV	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
						PIPE LAYOUT N° 19-L-19-000-2-00-86197 sheet 2

APPROVED FOR CONSTRUCTION Signature for construction is shown on Iso list of relevant CWA		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			
		PAINTING SCHEME (3)	20	CONTRACTOR: 	
		PIPING CLASS	IE21	CONTRACTOR DRAWING NUMBER:	PROJECT:
				4274-XH-DL-2121VRG41B09-4	4001008
		WELDING CLASS (4)	E	 LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX FOR PROJECT - ALBA PROJECT	
		PED CATEGORY	II		
		INSULATION CODE / THK. (mm)	CG 50	ANNEX 19	SPEC. L
				DRAWING NUMBER 19-000-2-02-00001 sheet 2121VRG41B09-4	REV. 01