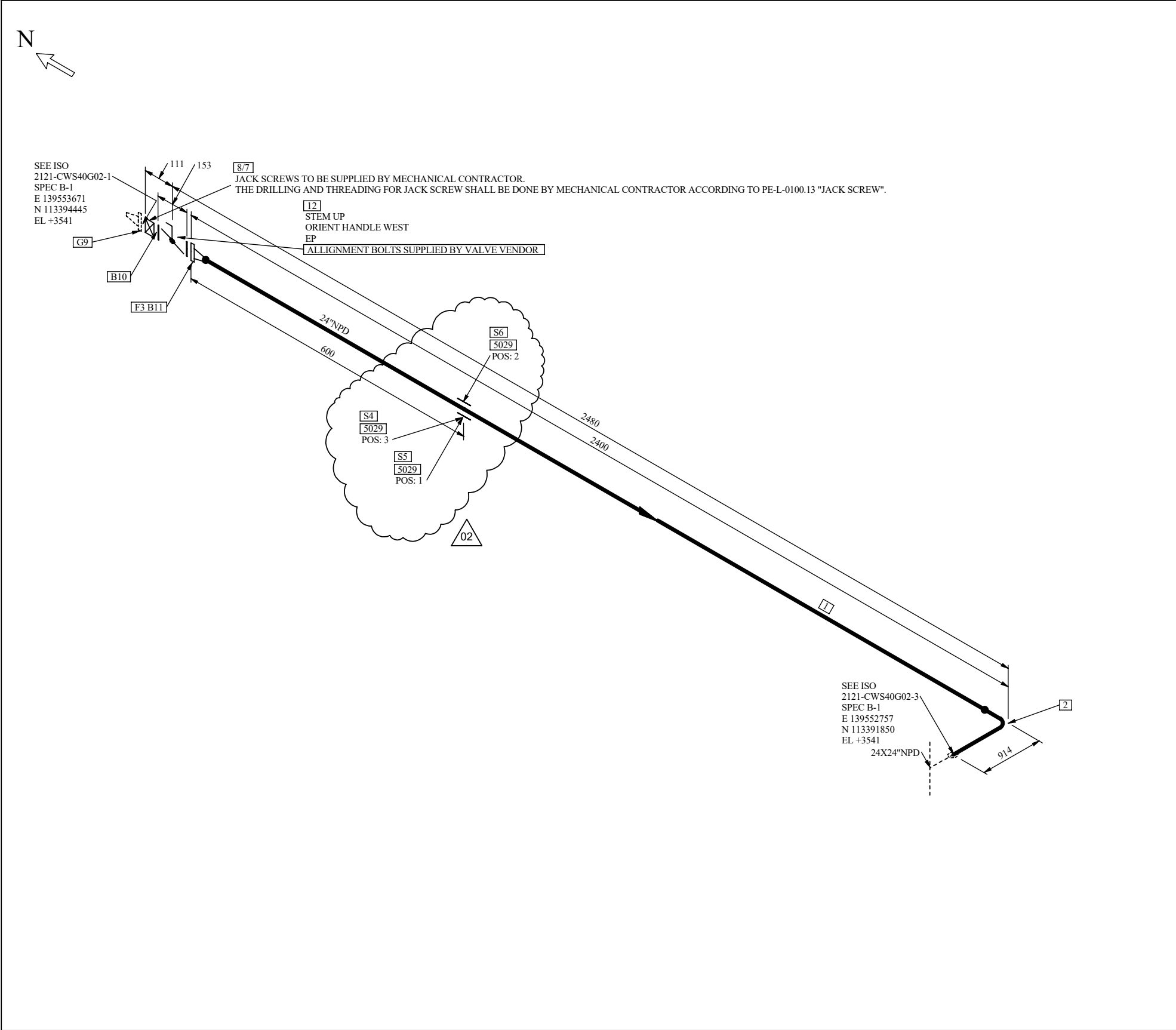



THIS DOCUMENT BELONGS TO REPSOL. IT CAN NOT BE COPIED, REPRODUCED AND/OR USED WITHOUT
PREVIOUS AUTHORIZATION OF REPSOL. COMPUTERIZED DRAWING (HANDWRITING STRICTLY FORBIDDEN).

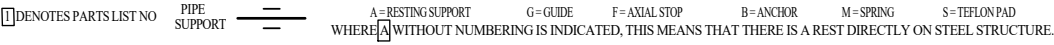
EXTR. DATE: 02-02-2024 18:16:50

STREAM NO.:4104 STREAM REV. NO. : 10 REV. CAUSE ID: 13



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 <PIPA010B124STD> (L-7806)	24	I117907	1.4 M	
FITTINGS					
2	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F324STD> (L-7955)	24	I128581	1	
FLANGES					
3	WN FLANGE ASME B16.5 150# A105N RFFE BE 125 - 250 AARH F01CDC44BV05 S-STD <WNFA300R1524STD> (L-149)	24	14067800	1	
PIPE SUPPORTS					
4	WELDED BRACKET TO STRUCT. SB04 HEA180	24	5029	1	
5	RESTING SHOE WELDED -C4A1 H = 150 L = 300	24	5029	1	
6	SLIDING TEFLON PLATE- P69A-100mm	24	5029	1	
MISCELLANEOUS COMPONENTS					
7	SPACER RING ASME B16.48 150# A516-70 NORM. FFTBE 125 - 250 AARH SUPPL. REQ. S5 ASME B16.5 D0501DC65O04 <SPRA510F1A26> (L-SPR19)	24	15393981	1	
FITTINGS					
8	BLIND DISC ASME B16.48 150# A516-70 NORM. FFTBE 125 - 250 AARH SUPPL. REQ. S5 ASME B16.5 D0401DC65O04 NREQD <BLIA510F1A26> (L-BLI19)	24	15393957	1	
GASKETS					
9	FLAT RING GASKET ASME B16.21 150# RFTBE NA/ARAMIDIC/NBR ASME B16.5 G02HDP2QR01 <NMGQ009R1FC24> (L-NMG11)	24	I1169044	1	
BOLTS					
10	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G11/481/4> - 2 NUTS PER BOLT - 210 mm Length	1.1/4	153438265	20	
11	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G11/463/4> - 2 NUTS PER BOLT - 175 mm Length	1.1/4	153438258	20	
VALVES / IN-LINE ITEMS					
12	BUTTERFLY LUG VALVE API 609 150# EPDM LIN A216-WCB RFTBCSE DISC-CF8M , SHAFT-316 FL API 609 GE ASME B16.5 V33IDC35S5B0 NREQD <N/A> (N/A)	24	164945673	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:						
						
02	ISSUED FOR CONSTRUCTION	05-FEB-24	M.YADAV	P.VAZE	G.PAGANONI	STRESS CALC. N° REP-PE-008
01	ISSUED FOR CONSTRUCTION	06-JUL-23	U.CHAVAN	P.VAZE	G.PAGANONI	P & ID 19-A-19-000-1-01-00001 sheet 37
00	ISSUED FOR CONSTRUCTION	13-JAN-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 PIPE LAYOUT N° 19-L-19-000-2-00-86199 sheet 1

APPROVED FOR
CONSTRUCTION

Signature for construction is shown
on Iso list of relevant CWA

TITLE
**ISOMETRIC DRAWING
LINE**
24"-CWS-40G02-B-1 (P)

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)			CONTRACTOR:		CONTRACTOR DRAWING NUMBER:		PROJECT:			
I					4274-XH-DL-2121CWS40G02-2		4001008			
PIPING CLASS										
B-1										
WELDING CLASS (4)		 <div>LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT</div>					CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX			
E										
PED CATEGORY										
III										
INSULATION CODE / THK. (mm)		ANNEX		SPEC.		DRAWING NUMBER			REV.	
P 100		19		L		19-000-2-02-00001 sheet 2121CWS40G02-2			02	