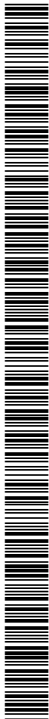
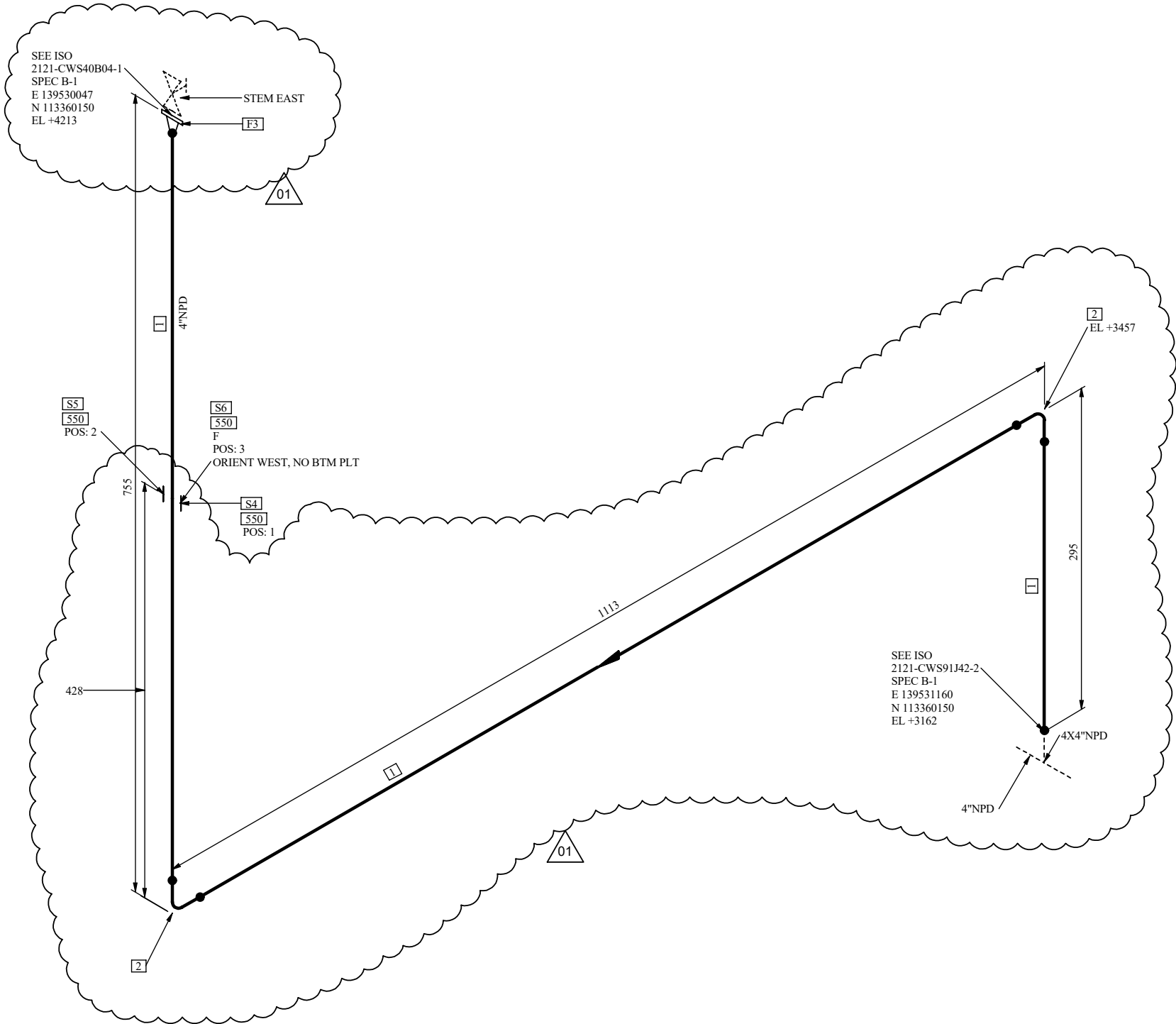


THIS DOCUMENT BELONGS TO REPSOL. IT CAN NOT BE COPIED, REPRODUCED AND/OR USED WITHOUT PREVIOUS AUTHORIZATION OF REPSOL. COMPUTERIZED DRAWING (HANDWRITING STRICTLY FORBIDDEN).



EXTR. DATE: 06-07-2023 07:56:20

STREAM NO.:12      STREAM REV. NO. : 9      REV. CAUSE ID: 1




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	1.5 M	
FITTINGS					
2	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F34STD> (L-7955).	4	I128635	2	
FLANGES					
3	WN FLANGE ASME B16.5 150# A105N RFFE BE 125 - 250 AARH F01CDC44BV05 S-STD <WNFA300R154STD> (L-149).	4	I5355796	1	
PIPE SUPPORTS					
4	WELDED BRACKET TO STRUCT SB31 - HE100A	4	550	1	
5	U BOLT (FOR GUIDE)-P02D	4	550	1	
6	STOP HORIZ VERT FOR NOT INS. PIPING-N1F1	4	550	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	06-JUL-23	M.YADAV	P.VAZE	G.PAGANONI		P & ID 19-A-19-000-1-01-00001 sheet 107
00	ISSUED FOR CONSTRUCTION	10-FEB-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-19-000-2-00-86192 sheet 2

APPROVED FOR CONSTRUCTION	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) 1		CONTRACTOR:	CONTRACTOR DRAWING NUMBER:		PROJECT:
PIPING CLASS B-1			4274-XH-DL-2121CWS91J52-1		4001008		
TITLE  ISOMETRIC DRAWING LINE  4"-CWS-91J52-B-1	WELDING CLASS (4) E		LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT 				CLIENT / COMPLEX REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX
	PED CATEGORY Art 4.3						
	INSULATION CODE / THK. (mm) N 0		ANNEX 19	SPEC. L	DRAWING NUMBER 19-000-2-02-00001 sheet 2121CWS91J52-1		REV. 01