

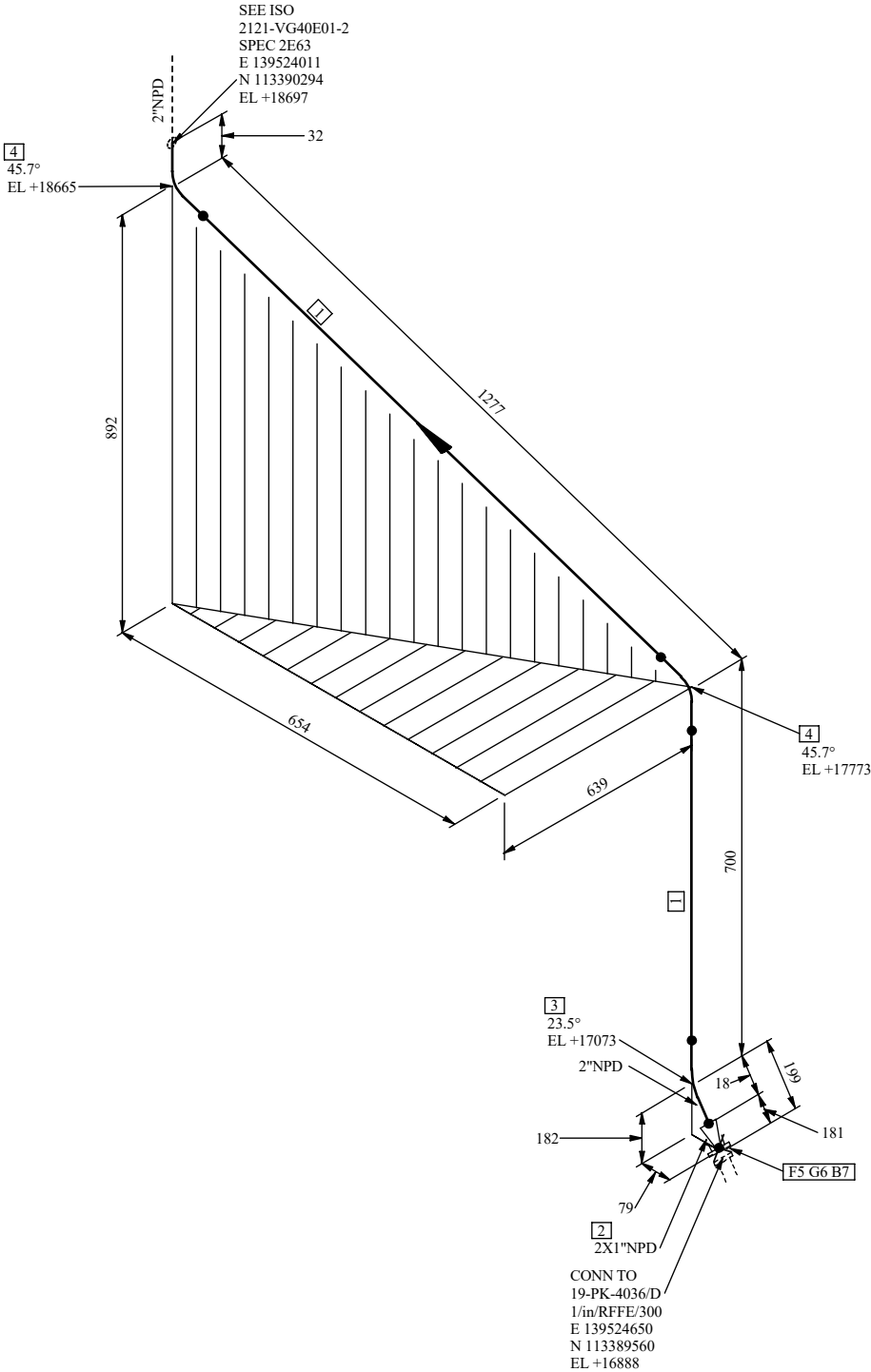
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EXTR. DATE: 21-12-2022 13:41:10

STREAM NO.:4554

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 BUTTWELDED SMLS INTERNAL SURFACE ROUGHNESS < OR = 125 RMS	2	13364292 1146219	1.9 M	
FLANGES					
2	CONCENTRIC SWAGE MSS SP-95 - A403-WP304/304L DG BE PE SMLS SCH1-STD SCH2-40S R21FOL2FVZPN <CSWB04DGR14151201> (L-CSW21).	2X1	I64580315	1	
ELBOWS					
3	45 LR ELBOW A403-WP304/304L DG BE SMLS ASME B16.9	2	1213655 12259141	1	
4	90 LR ELBOW A403-WP304/304L DG BE SMLS ASME B16.9	2	12259137 1213640	2	
FLANGES					
5	SW FLANGE ASME B16.5 300# A182-F316/316L DUAL GR RFFE SWE 125 - 250 AARH F02CFL1MB105 S-40S <SWFB34DR35140S> (L-SWF37).	1	I2500941	1	
GASKETS					
6	SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/PTFE SS 304 SS 304 ASME B16.5 G03GFP1IG04 <N/A> (N/A)	1	I219568	1	
BOLTS					
7	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A320-L7/A194-7 INCH SIZE I010B5301 <SB2R55G5/831/4> - 2 NUTS PER BOLT - 80 mm Length	5/8	I55705037	4	




Authorized for Construction
Autorizado para la Construcción

Date / Fecha
16-05-24

Signature / Firma

M. PECILE
TCM Field Engineering Manager

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° -
00A	ISSUED FOR CONSTRUCTION - SITE REVISION	16-05-2024	F.CARRA'	M.PECILE	M.PECILE		P & ID 19-A-19-000-1-01-00001 sheet 34
00	ISSUED FOR CONSTRUCTION	23-DEC-22	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-19-000-2-00-86197 sheet 5

APPROVED FOR
CONSTRUCTION

Signature for construction is shown
on Iso list of relevant CWA

ISOMETRIC DRAWING
LINE

2"-VG-40E01-2E63

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, low temperature			
HEAT TREATMENT (PWHIT)			
N			
PAINTING SCHEME (3)	NR	CONTRACTOR:	CONTRACTOR DRAWING NUMBER:
PIPING CLASS	2E63		4274-XH-DL-2121VG40E01-1
WELDING CLASS (4)	M	 LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT	
PED CATEGORY	II		
INSULATION CODE / THK. (mm)	N 0	ANNEX 19	SPEC. L
DRAWING NUMBER 19-000-2-02-00001 sheet 2121VG40E01-1			REV. 0A