

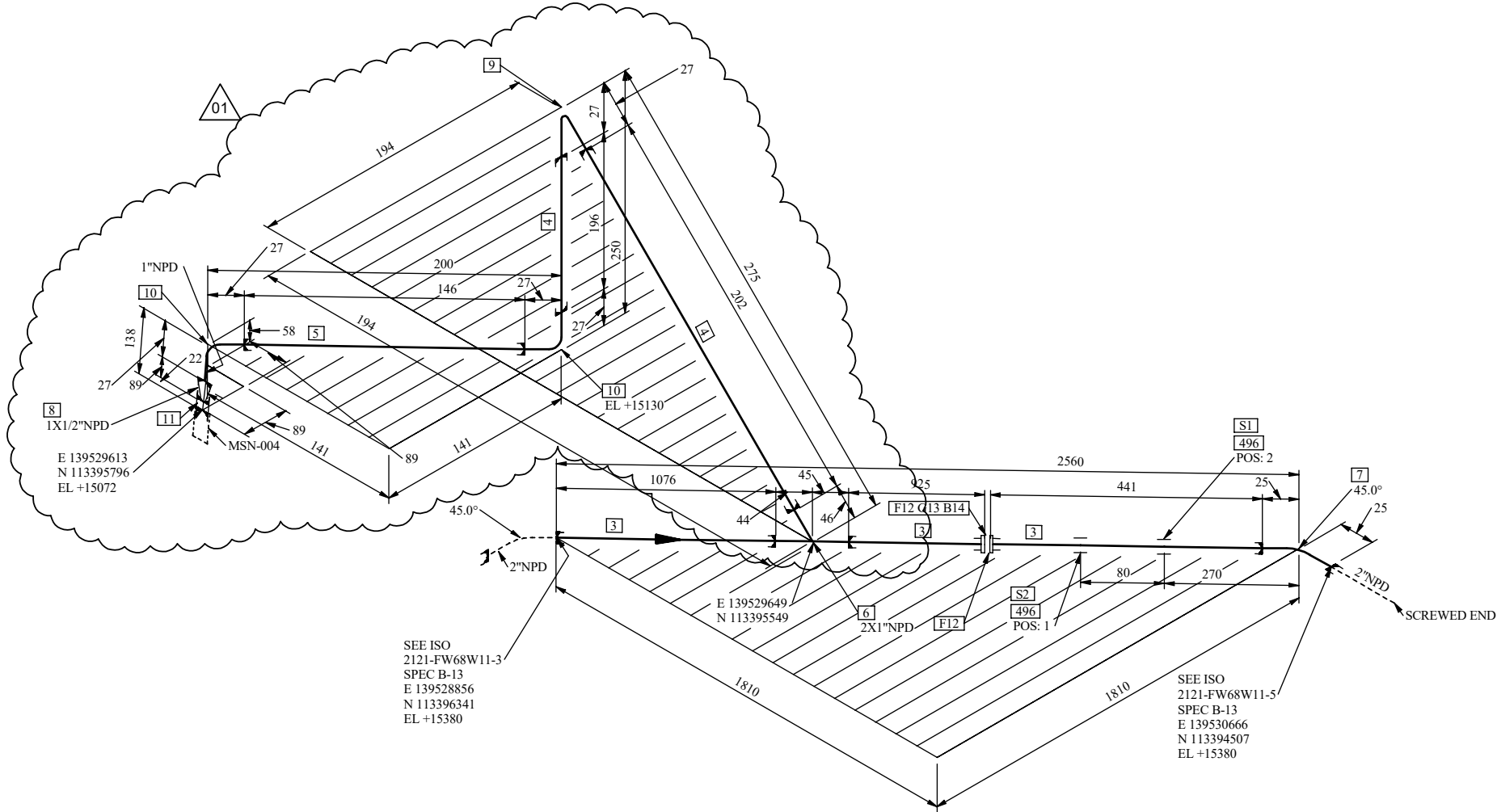
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EXTR. DATE: 30-08-2023 14:28:57

STREAM NO.: 74

REV. CAUSE ID: 23


STREAM REV. NO. : 10







BILL OF MATERIAL

PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
PIPE SUPPORTS					
1	VERTICAL STAKES WELDED TO STR. ST42 L80X80X10	2	496	1	
2	U BOLT (FOR GUIDE)-P02D	2	496	1	
PIPE					
3	PIPE - A53-B GALV MTE SMLS T01AC11W02 S-XS <PIPG010C12XS> (N/A).	2	1145688	2.5 M	
4	PIPE - A53-B GALV MTE SMLS T01AC11W02 S-XS <PIPG010C11XS> (N/A).	1	1145594	0.4 M	
5	PIPE - A53-B GALV MTE SMLS T01AC11W02 S-XS <PIPG010C11XS> (N/A)	1	1145594	0.2 M	
FITTINGS					
6	REDUCING TEE ASME B16.11 3000# A105 GALV FTE FTE - R12FNC022201 NREQD <RTEG300KBK21> (L-RTE01).	2X1	1225442	1	
7	45 ELBOW ASME B16.11 3000# A105 GALV FTE FTE - R32FNC022201 NREQD <45TG300KBK2> (L-8908).	2	1214935	1	
8	CONCENTRIC SWAGE MSS SP-95 - A105 GALV MTE MTE SMLS SCH1-XS SCH2-XS R21FQC02WW01 <CSWG010DR12161016> (L-CSW28)	1X1/2	14198150	1	
9	90 ELBOW ASME B16.11 3000# A105 GALV FTE FTE - R31FNC022203 NREQD <90TG300KBK1> (L-8907).	1	1214920	1	
10	90 ELBOW ASME B16.11 3000# A105 GALV FTE FTE - R31FNC022203 NREQD <90TG300KBK1> (L-8907)	1	1214920	2	
11	COUPLING ASME B16.11 3000# A105 GALV FTE FTE - R01FNC022201 NREQD <FCPG300KBK1/2> (L-8910).	1/2	1214895	1	
FLANGES					
12	THD FLANGE ASME B16.5 150# A105 GALV RFFE FTE 125 - 250 AARH F03CDC02B205 <THFG300R152> (L-8918).	2	1215065	2	
GASKETS					
13	FLAT RING GASKET ASME B16.21 150# RFTBE NA/ARAMIDIC/NBR ASME B16.5 G02HDP2QR01 <NMGQ009R1FC2> (L-NMG11)	2	11169030	1	
BOLTS					
14	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H GALV. INCH SIZE I01OB6001 <SB2R6G5/831/2> - 2 NUTS PER BOLT - 85 mm Length	5/8	149881360	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.

REV.	DESCRIPTION	DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT	STRESS CALC. N°
01	ISSUED FOR CONSTRUCTION	31-AUG-23	U.CHAVAN	P.VAZE	G.PAGANONI		P & ID 19-A-19-000-1-01-00001 sheet 124
00	ISSUED FOR CONSTRUCTION	21-JAN-23	U.CHAVAN	P.VAZE	G.PAGANONI		LINE LIST N° 19-L-19-000-2-00-80602
							PIPE LAYOUT N° 19-L-19-000-2-00-86197 sheet 4

APPROVED FOR
CONSTRUCTION

Signature for construction is shown
on Iso list of relevant CWA

TITLE
**ISOMETRIC DRAWING
LINE**
2"-FW-68W11-B-13

PIPE MATERIAL CS, Galvanized	NOTES: 1. FOR TECHNICAL DETAILS SEE LINE LIST. 2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-800102. 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".		
HEAT TREATMENT (PWHIT) -			
PAINTING SCHEME (3) 4	CONTRACTOR:	CONTRACTOR DRAWING NUMBER:	PROJECT:
PIPING CLASS B-13		4274-XH-DL-2121FW68W11-4	4001008
WELDING CLASS (4) -	 LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT CLIENT / COMPLEX REPSOL POLYMERS/ 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 2121FW68W11-4
			REV. 01