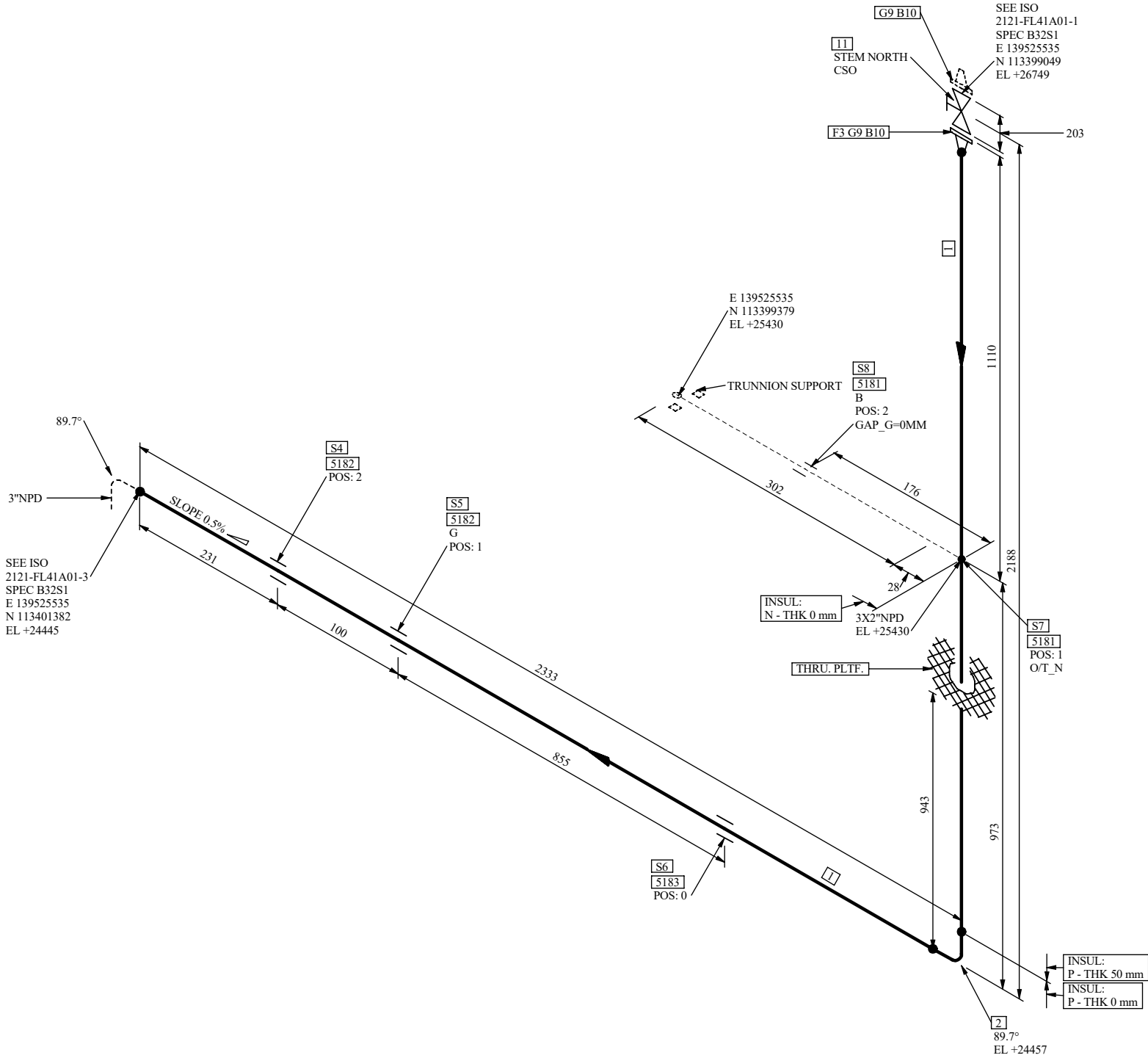




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




EXTR. DATE: 09-12-2022 15:44:30 STREAM NO.:3351 REV. CAUSE ID:



BILL OF MATERIAL					
PT NO	COMPONENT DESCRIPTION	N.S. (IN)	ITEM CODE	QTY	HOLD STATUS
PIPE					
1	PIPE - A333-6 BE SMLS T01AC22V02 S-STD <PIPL020B13STD> (L-8199).	3	I146278	4.2 M	
FITTINGS					
2	90 LR ELBOW ASME B16.9 A420-WPL6 BE SMLS C01DC09V01 S-STD <90LL210F33STD> (L-7966).	3	I213645	1	
FLANGES					
3	WN FLANGE ASME B16.5 150# A350-LF2 Class 1 RFFE BE 125 - 250 AARH F01CDC07BV05 S-STD <WNFL300R153STD> (L-7971).	3	I140827	1	
PIPE SUPPORTS					
4	VERTICAL STAKES WELDED TO STR. ST42 L100X100X10	3	5182	1	
5	WELDED GUIDE-C1G1 H = 100 L = 300	3	5182	1	
6	SPECIALITY SUPPORT - 19-SP-025	3	5183	1	
7	WELDED EXTENSIONS-EW05 DN2 = 2 L = 330	3	5181	1	
8	GUIDE AND STOP HORIZ VERT SUPPORT-N1B1	2	5181	1	
GASKETS					
9	FLAT RING GASKET ASME B16.21 150# RFTBE NA/CARBON/NBR ASME B16.5 G02HDP2QS01 <NMGQ102R1F3> (L-NMG17)	3	I1169079	2	
BOLTS					
10	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A320-L7/A194-7 INCH SIZE I01OB5301 <SB2R55G5/831/2> - 2 NUTS PER BOLT - 90 mm Length	5/8	155705059	8	
VALVES / IN-LINE ITEMS					
11	GATE VALVE API 600 150# A352-LCC RFFE 10-316 API 600 L7/7 125 - 250 AARH BB-OS&Y FLXW API 600 HW ASME B16.5 V01FDC82B12R NREQD <G43L-8353> (L-8353).	3	I63584469	1	
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 (P/WHIT)					
N					
PAINTING SCHEME (3)		CONTRACTOR:	CONTRACTOR DRAWING NUMBER:	PROJECT:	
1					
PIPING CLASS					
B32S1		4274-XH-DL-2121FL41A01-2			
WELDING CLASS (4)		 LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT			
M					
PED CATEGORY					
I		CLIENT / COMPLEX			
INSULATION CODE / THK. (mm)		ANNEX 19	SPEC. L	DRAWING NUMBER 19-000-2-02-00001 sheet 2121FL41A01-2	REV. 00
P 50					

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° REP-PE-023
							P & ID 19-A-19-000-1-01-00001 sheet 52
							LINE LIST N° 19-L-19-000-2-00-80602
00	ISSUED FOR CONSTRUCTION	09-DEC-22	U.CHAVAN	P.VAZE	G.PAGANONI		PIPE LAYOUT N° 19-L-19-000-2-00-86197 sheet 7
REV.	DESCRIPTION	DATE	DRW. BY	CHECK BY	APPR. BY	APPR. CLIENT	

APPROVED FOR CONSTRUCTION

Signature for construction is shown on Iso list of relevant CWA

TITLE
ISOMETRIC DRAWING LINE

3"-FL-41A01-B32S1 (P)