

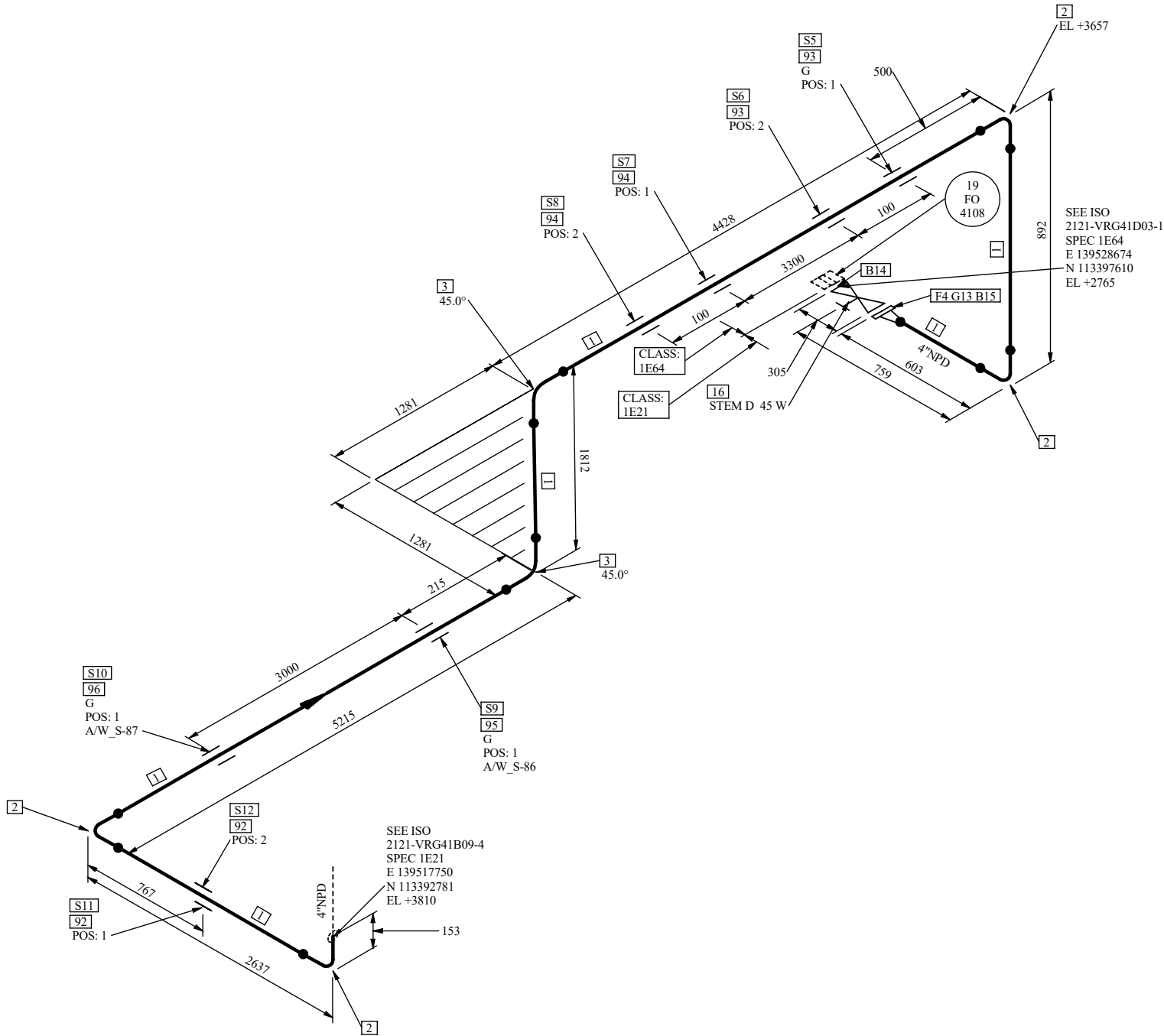
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EXTR. DATE: 28-01-2023 12:56:21


STREAM NO.:4570





REV. CAUSE ID:

REV. NO. : 7



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°
							-
							P & ID
							19-A-19-000-1-01-00001 sheet 53
							LINE LIST N°
							19-L-19-000-2-00-80602
							PIPE LAYOUT N°
							19-L-19-000-2-00-86197 sheet 1
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

ISOMETRIC DRAWING  
LINE

4"-VRG-41B09-1E21 (CG)

TITLE

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	14.2 M	
FITTINGS					
2	90 LR ELBOW ASME B16.9 A234-WPB BE SMLS C01DC04V01 S-STD <90LA200F34STD> (L-7955)	4	I128635	4	
3	45 LR ELBOW ASME B16.9 A234-WPB BE SMLS C02DC04V01 S-STD <45LA200F34STD> (L-7956)	4	I201302	2	
FLANGES					
4	WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC44BV05 S-STD <WNFA300R354STD> (L-236)	4	I4272446	1	
PIPE SUPPORTS					
5	CLAMPED GUIDE,COLD INS.-F2G1 H=150 L=300	4	93	1	
6	VERTICAL STAKES WELDED TO STR. ST42 L100X100X10	4	93	1	
7	RESTING SHOE CLAMPED,COLD INS. -F2A1 H=150 L=300	4	94	1	
8	VERTICAL STAKES WELDED TO STR. ST42 L100X100X10	4	94	1	
9	CLAMPED GUIDE,COLD INS.-F2G1 H=150 L=300	4	95	1	
10	CLAMPED GUIDE,COLD INS.-F2G1 H=150 L=300	4	96	1	
11	RESTING SHOE CLAMPED,COLD INS. -F2A1 H=150 L=300	4	92	1	
12	VERT.TRESTLES WELDED TO STR TR34 HEA100	4	92	1	
GASKETS					
13	SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 ASME B16.5 G03GFP1IS12 <N/A> (N/A)	4	I63508975	1	
BOLTS					
14	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G3/45> - 2 NUTS PER BOLT - 125 mm Length	3/4	I53437468	8	
15	STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G3/441/2> - 2 NUTS PER BOLT - 115 mm Length	3/4	I53437466	8	
VALVES / IN-LINE ITEMS					
16	GATE VALVE API 600 300# A216-WCB RFFE 8-F6&HF API 600 B7/2H 125 - 250 AARH BB-OS&Y FLXW API 600 HW ASME B16.5 V01FFC29B167 NREQD <G44L-130> (L-130)	4	I5606092	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			
HEAT TREATMENT (PWHT)			
N			
PAINTING SCHEME (3)			
20			
PIPING CLASS			
1E21			
WELDING CLASS (4)			
E			
PED CATEGORY			
II			
INSULATION CODE / THK. (mm)			
CG 50			
ANNEX 19	SPEC. L	DRAWING NUMBER 19-000-2-02-00001 sheet 2121VRG41B09-5	REV. 00