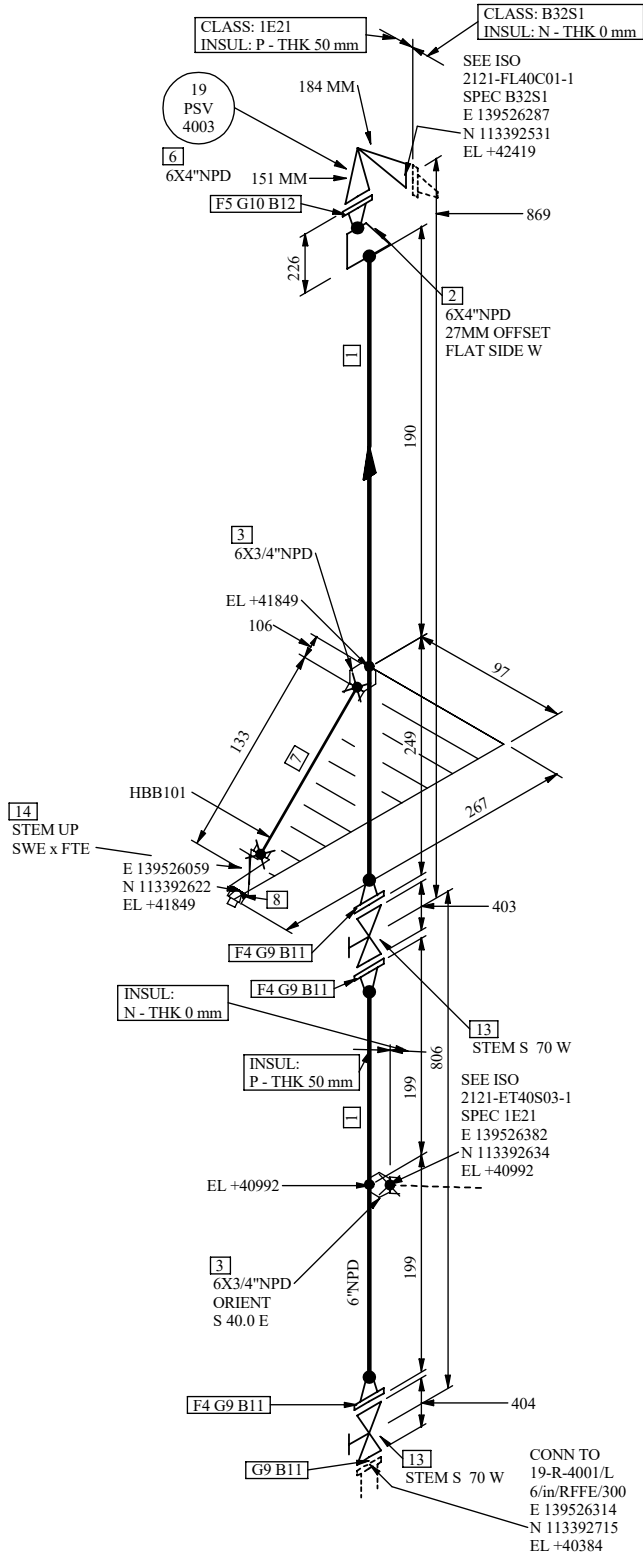


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EXTR. DATE: 10-12-2022 11:28:07




STREAM NO.:4015

REV. CAUSE ID:



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-045 |
| | | | | | | | P & ID 19-A-19-000-1-01-00001 sheet 31 |
| | | | | | | | LINE LIST N° 19-L-19-000-2-00-80602 |
| 00 | ISSUED FOR CONSTRUCTION | 09-DEC-22 | M.YADAV | P.VAZE | G.PAGANONI | | PIPE LAYOUT N° 19-L-19-000-2-00-86197 sheet 9 |
| 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

6"-HCM-40C01-1E21 (P)

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 <PIPA010B16STD> (L-7806) | 6 | I117981 | 0.6 M | |
| FITTINGS | | | | | |
| 2 | ECCENTRIC REDUCER ASME B16.9 A234-WPB BE SMLS C22DC04V01 S-STD S-STD <EREA200F317151615> (L-7959) | 6X4 | I128353 | 1 | |
| 3 | REDUCING SOCKOLET MSS-SP-97 3000# A105N BE SWE - R13DNC44V101 NREQD <SOKA300LB01711> (L-343) | 6X3/4 | I1651371 | 2 | |
| FLANGES | | | | | |
| 4 | WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC44BV05 S-STD <WNFA300R356STD> (L-236) | 6 | I4274965 | 3 | |
| 5 | WN FLANGE ASME B16.5 300# A105N RFFE BE 125 - 250 AARH F01CFC44BV05 S-STD <WNFA300R354STD> (L-236). | 4 | I4272446 | 1 | |
| INSTRUMENTS | | | | | |
| 6 | INSTRUMENT COMPONENT | 6X4 | 19-PSV-4003 | 1 | |
| PIPE | | | | | |
| 7 | PIPE - A106-B PE SMLS T01AC03Z02 S-XS <PIPA010A13/4XS> (L-6679) | 3/4 | I132785 | 0.2 M | |
| FITTINGS | | | | | |
| 8 | PLUG ROUND HEAD ASME B16.11 - A105N MTE NREQD - R42FQC44W001 NREQD <PLUA300CK3/4> (L-77) | 3/4 | I10088232 | 1 | |
| GASKETS | | | | | |
| 9 | SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 304/GRAFOIL CARBON STEEL SS 304 ASME B16.5 G03GFP1IS12 <N/A> (N/A) | 6 | I63508987 | 4 | |
| 10 | 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 | | | | | |
| 11 | 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 | 48 | |
| 12 | STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G3/453/4> - 2 NUTS PER BOLT - 145 mm Length | 3/4 | I53437472 | 8 | |
| VALVES / IN-LINE ITEMS | | | | | |
| 13 | 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 <G46L-130> (L-130) | 6 | I5606097 | 2 | |
| 14 | GATE VALVE API 602 800# A105N SWE FTE 8-F6&HF WB-OS&Y SOW API 602 HW V01GIC4412BL NREQD <N/A> (N/A) | 3/4 | I10015410 | 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) I | | CONTRACTOR:  | CONTRACTOR DRAWING NUMBER: 4274-XH-DL-2121HCM40C01-1 | PROJECT: 4001008 | | |
| PIPING CLASS 1E21 | | | | | | |
| WELDING CLASS (4) E | | LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT | | | | |
| PED CATEGORY III | | | | | | |
| INSULATION CODE / THK. (mm) P 50 | | ANNEX 19 | SPEC. L | DRAWING NUMBER 19-000-2-02-00001 sheet 2121HCM40C01-1 | | REV. 00 |