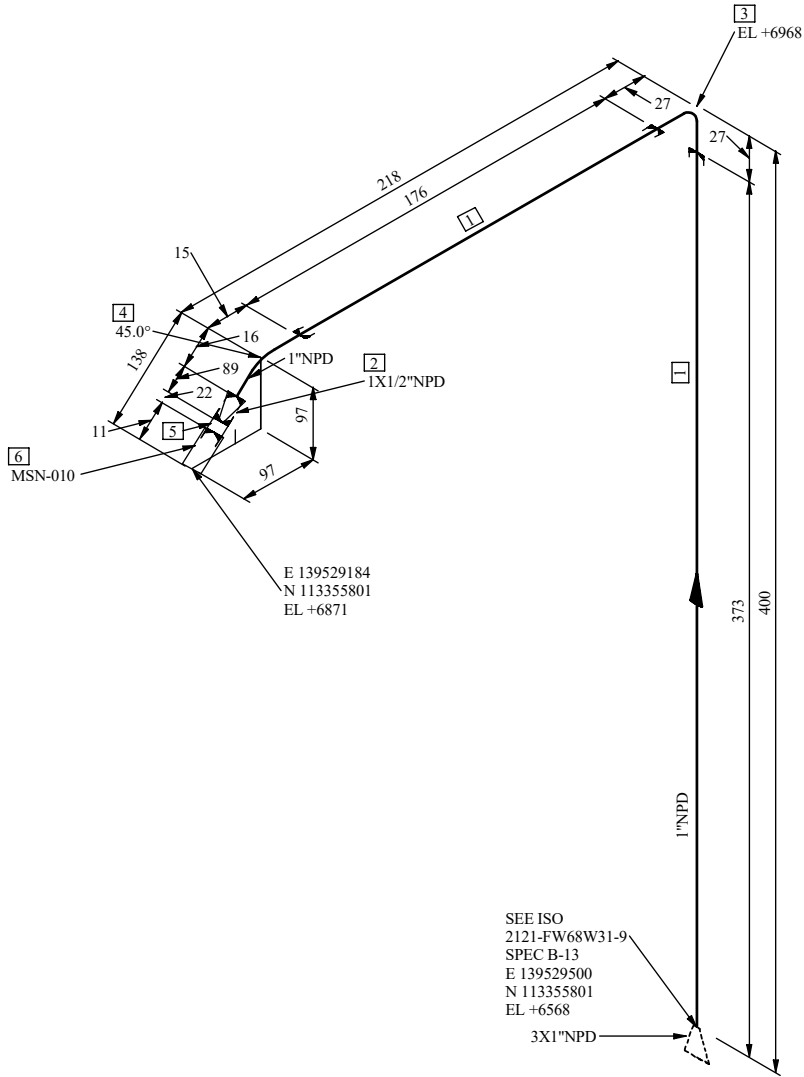


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PREVIOUS AUTHORIZATION OF REPSOL. COMPUTERIZED DRAWING (HANDWRITING STRICTLY FORBIDDEN).


EXTR. DATE: 25-03-2023 08:25:01




STREAM NO.:74

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 WHERE  WITHOUT NUMBERING IS INDICATED, THIS MEANS THAT THERE IS A REST DIRECTLY ON STEEL STRUCTURE. | G=GUIDE | F=AXIAL STOP | B=ANCHOR | M=SPRING | S=TEFLON PAD |
|------------------|--|---|--|--|---------|--------------|----------|----------|--------------|

| | | | | | | | |
|------|----------------------|-----------|----------|----------|------------|--------------|--|
| | | | | | | | STRESS CALC. N° |
| | | | | | | | - |
| | | | | | | | P & ID 19-A-19-000-1-01-00001 sheet 124 |
| 00 | ISSUED FOR REFERENCE | 24-MAR-23 | 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-19-000-2-00-86192 sheet 2 |

ISSUED FOR REFERENCE

Signature for construction is shown on Iso list of relevant CWA


ISOMETRIC DRAWING LINE

1"-FW-68W31-B-13

BILL OF MATERIAL

| PT NO | COMPONENT DESCRIPTION | N.S. (IN) | ITEM CODE | QTY | HOLD STATUS |
|----------|--|-----------|-----------|-------|-------------|
| PIPE | | | | | |
| 1 | PIPE - A53-B GALV MTE SMLS T01AC11W02 S-XS <PIPG010C11XS> (N/A) | 1 | I145594 | 0.6 M | |
| FITTINGS | | | | | |
| 2 | CONCENTRIC SWAGE MSS SP-95 - A105 GALV MTE MTE SMLS SCH1-XS SCH2-XS R21FQC02WW01 <CSWG010DR12161016> (L-CSW28) | 1X1/2 | I4198150 | 1 | |
| 3 | 90 ELBOW ASME B16.11 3000# A105 GALV FTE FTE - R31FNC022203 NREQD <90TG300KBK1> (L-8907). | 1 | I214920 | 1 | |
| 4 | 45 ELBOW ASME B16.11 3000# A105 GALV FTE FTE - R32FNC022201 NREQD <45TG300KBK1> (L-8908). | 1 | I214932 | 1 | |
| 5 | COUPLING ASME B16.11 3000# A105 GALV FTE FTE - R01FNC022201 NREQD <FCPG300KBK1/2> (L-8910) | 1/2 | I214895 | 1 | |
| 6 | SPECIALTY COMPONENT | 1/2 | MSN-010 | 1 | |

- 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".

| | | |
|---|----------------------------|----------|
| CONTRACTOR: | CONTRACTOR DRAWING NUMBER: | PROJECT: |
|  | 4274-XH-DL-2121FW68W31-15 | 4001008 |

| | | | | |
|-------------------|--|--|--|--|
| WELDING CLASS (4) | | LOW LINEAL DENSITY POLYETHILENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT | | CLIENT / COMPLEX |
| PED CATEGORY | | Art 4.3 | | REPSOL POLYMEROS/ SINES INDUSTRIAL COMPLEX |

| | | | | |
|-----------------------------|----------|---------|---|---------|
| INSULATION CODE / THK. (mm) | ANNEX 19 | SPEC. L | DRAWING NUMBER 19-000-2-02-00001 sheet 2121FW68W31-15 | REV. 00 |
| N 0 | | | | |