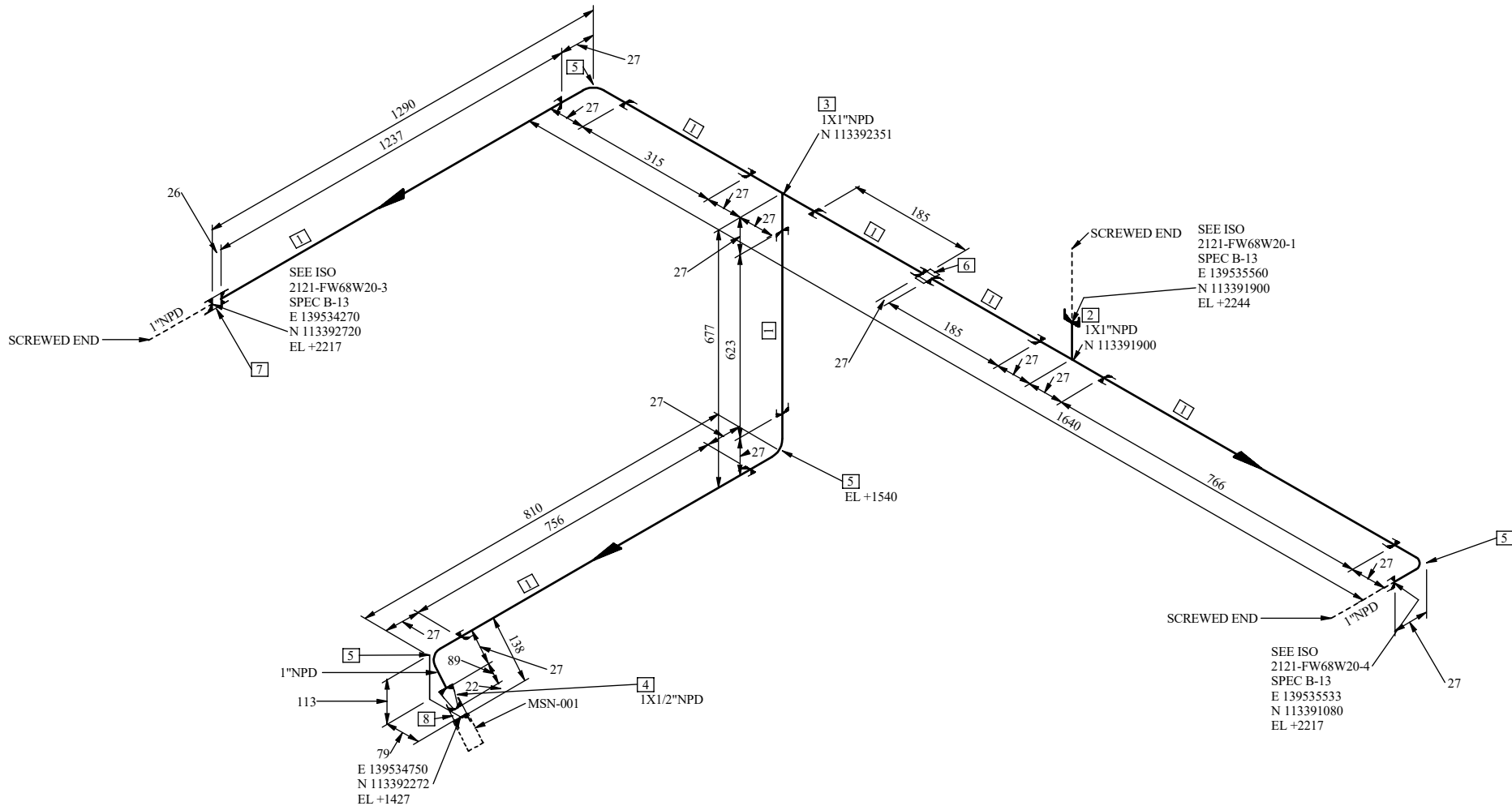








EXTR. DATE: 23-04-2024 18:42:59



| 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   | 4.1 M |             |
| FITTINGS         |   |           |           |       |             |
| 2                | TEE ASME B16.11 3000# A105 GALV FTE FTE - R11FNC022201 NREQD <TETG300KBK1> (L-8911).                            | 1X1       | I214944   | 1     |             |
| 3                | TEE ASME B16.11 3000# A105 GALV FTE FTE - R11FNC022201 NREQD <TETG300KBK1> (L-8911)                             | 1X1       | I214944   | 1     |             |
| 4                | CONCENTRIC SWAGE MSS SP-95 - A105 GALV MTE MTE SMLS SCH1-XS SCH2-XS R21FQC02WW01 <CSWG010DR12161016> (L-CSW28). | 1X1/2     | I4198150  | 1     |             |
| 5                | 90 ELBOW ASME B16.11 3000# A105 GALV FTE FTE - R31FNC022203 NREQD <90TG300KBK1> (L-8907)                        | 1         | I214920   | 4     |             |
| 6                | UNION ASME B16.11 3000# A105 GALV FTE FTE - R43FNC022201 NREQD <N/A> (N/A).                                     | 1         | I45867360 | 1     |             |
| 7                | COUPLING ASME B16.11 3000# A105 GALV FTE FTE - R01FNC022201 NREQD <FCPG300KBK1> (L-8910)                        | 1         | I214897   | 1     |             |
| 8                | COUPLING ASME B16.11 3000# A105 GALV FTE FTE - R01FNC022201 NREQD <FCPG300KBK1/2> (L-8910).                     | 1/2       | I214895   | 1     |             |

|   |                      |           |          |          |            |              |  |  |   |  |  |  |  |  |
|---|----------------------|-----------|----------|----------|------------|--------------|--|--|---|--|--|--|--|--|
| <div>REMARKS FOR MECHANICAL SUBCONTRACTOR:</div> <div>1) LINES 1.1/2" AND SMALLER SHALL BE SUPPORTED IN FIELD IF NOT OTHERWISE INDICATED.</div> <div>2) ALL DIMENSION AND PROPER CONFIGURATION FOR LINES NPS 1.1/2" AND SMALLER SHALL BE CHECKED IN FIELD BEFORE CONSTRUCTION.</div> <div>3) FOR THE COMPONENTS MARKED AS FIELD WELDED WITH THIS SYMBOL  , ONE WELD FOR ADJUSTMENT OF IN LINE COMPONENT MUST BE LEFT</div> <div>4) FOR EXTRA PIPE LENGTH REFER TO 4274-LZ-PC-00000603.</div> <div>5) GUSSETING TO BE IMPLEMENTED BY MECHANICAL SUBCONTRACTOR AS PER 45-L-45-000-2-00-80004 / 4274-XH-SG-00000002.</div> <div>6) CROSSING BETWEEN WELDS ON PIPELINE SHALL NOT BE ADMITTED.</div> <div>7) IN CASE OF DISCREPANCIES BETWEEN DATA SHOWN ON ISO AND IN LINE LIST (AS APPLICABLE, DATA SHOWN IN LINE LIST GOVERN.</div> <div>8) ACTUAL CUT LENGTH OF PIPE AND FIELD WELDS SHALL BE DEFINED BY MECHANICAL SUBCONTRACTOR (REF. TO 4274-LZ-PC-00000603).</div> <div>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 FEO19.</div> |                      |           |          |          |            |              | <div>ISSUED FOR REFERENCE</div>  |  | <div>PIPE MATERIAL</div> <div>CS, Galvanized</div> <div>HEAT TREATMENT (PWHT)</div> <div>-</div>  |  | <div>NOTES:</div> <div>1. FOR TECHNICAL DETAILS SEE LINE LIST.</div> <div>2. FOR VENT, DRAIN OR INSTRUMENT CONNECTION DETAILS SEE 45-L-45-000-2-00-80012.</div> <div>3. WELDING ACCORDING TO 45-L-45-000-2-00-80021.</div> <div>4. PAINTING ACCORDING TO 45-A-45-000-1-00-20160.</div> <div>5. CODE SHOWN IN BOM BETWEEN "&lt;" &amp; "&gt;" DENOTES REPSOL UNICODE. "&lt;N/A&gt;" MEANS UNICODE IS "NOT AVAILABLE".</div> |  |  |  |
| <div>SUPPORTS LEGEND:</div> <div> 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.</div>  |                      |           |          |          |            |              | <div>Signature for construction is shown on Iso list of relevant CWA</div> |  | <div>PAINTING SCHEME (3)</div> <div>4</div> <div>PIPING CLASS</div> <div>B-13</div>   |  | <div>CONTRACTOR:</div> <div></div> <div>CONTRACTOR DRAWING NUMBER:</div> <div>4274-XH-DL-2121FW68W20-2</div> <div>PROJECT:</div> <div>4001008</div>   |  |  |  |
|   |                      |           |          |          |            |              | STRESS CALC. N°  | <div>TITLE</div> <div>ISOMETRIC DRAWING LINE</div> <div>1"-FW-68W20-B-13</div> | <div>WELDING CLASS (4)</div> <div>-</div> <div>PED CATEGORY</div> <div>Art 4.3</div> <div>INSULATION CODE / THK. (mm)</div> <div>N0</div> |  | <div>LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS FOR PROJECT - ALBA PROJECT</div> <div></div> <div>ANNEX 19</div> <div>SPEC. L</div> <div>DRAWING NUMBER 19-000-2-02-00001 sheet 2121FW68W20-2</div> <div>REV. 01</div>   |  |  |  |
| 01  | ISSUED FOR REFERENCE | 26-APR-24 | M.YADAV  | P.VAZE   | G.PAGANONI |              | P & ID<br>19-A-19-000-1-01-00001 sheet 124                                 |  |   |  |  |  |  |  |
| 00  | ISSUED FOR REFERENCE | 21-APR-23 | U.CHAVAN | P.VAZE   | G.PAGANONI |              | LINE LIST N°<br>19-L-19-000-2-00-80602                                     |  |   |  |  |  |  |  |
| REV.  | DESCRIPTION          | DATE      | DRW. BY  | CHECK BY | APPR. BY   | APPR. CLIENT | PIPE LAYOUT N°<br>19-L-19-000-2-00-86197 sheet 1                           |  |   |  |  |  |  |  |