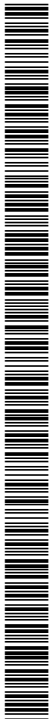


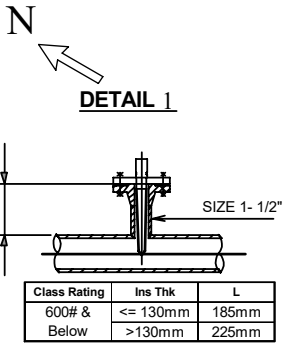
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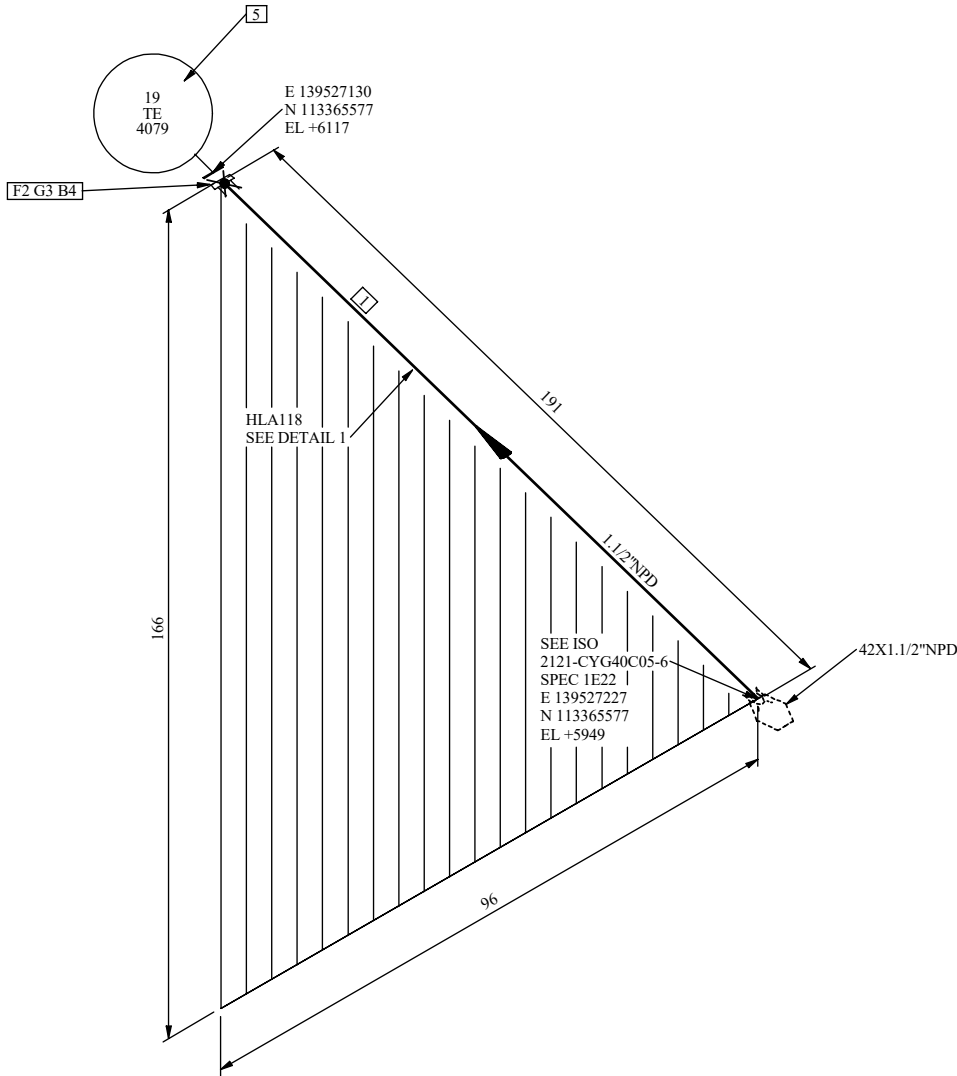
EXTR. DATE: 17-06-2023 10:18:15

STREAM NO.:4512

REV. CAUSE ID:



DETAIL FOR TEMPERATURE TAP ON LINE



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<br>19-A-19-000-1-01-00001 sheet 29        |
| 00   | ISSUED FOR REFERENCE | 16-JUN-2023 | M.YADAV | 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-19-000-2-00-86192 sheet 2 |

ISSUED FOR  
REFERENCE

Signature for construction is shown  
on Iso list of relevant CWA

TITLE  
**ISOMETRIC DRAWING  
LINE**

1-1/2"-CYG-40C05-1E22 (PS)

BILL OF MATERIAL

| PT NO       | COMPONENT DESCRIPTION   | N.S. (IN) | ITEM CODE  | QTY   | HOLD STATUS |
|-------------|---|-----------|------------|-------|-------------|
| PIPE        |   |           |            |       |             |
| 1           | PIPE - A106-B PE SMLS T01AC03Z02 S-XS <PIPA010A111/2XS> (L-6679)  | 1.1/2     | I132809    | 0.2 M |             |
| FLANGES     |   |           |            |       |             |
| 2           | SW FLANGE ASME B16.5 300# A105N RFFE SWE 125 - 250 AARH F02CFC44B105 S-XS <SWFA300R3511/2XS> (L-375)                          | 1.1/2     | 19762192   | 1     |             |
| GASKETS     |   |           |            |       |             |
| 3           | SPIRAL WOUND GASKET ASME B16.20 300# RFTBE 316/GRAFOIL CARBON STEEL SS 316 ASME B16.5 G03GFP1IQ01 <SPAQ504R3EA11/2> (L-SPA01) | 1.1/2     | 160205409  | 1     |             |
| BOLTS       |   |           |            |       |             |
| 4           | STUD BOLTS&NUTS ASME B18.31.2/ B18.2.2 A193-B7/A194-2H INCH SIZE I01OB0301 <SB2R51G3/431/2> - 2 NUTS PER BOLT - 90 mm Length  | 3/4       | 153437635  | 4     |             |
| INSTRUMENTS |   |           |            |       |             |
| 5           | INSTRUMENT COMPONENT  | 1.1/2     | 19-TE-4079 | 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-2121CYG40C05-9  | 4001008  |

LOW LINEAL DENSITY POLYETHYLENE (PEL) AND POLYPROPYLENE (PP) PLANTS  
FOR PROJECT - ALBA PROJECT

CLIENT / COMPLEX  
REPSOL POLYMEROS/  
SINES INDUSTRIAL COMPLEX

|          |         |  |            |
|----------|---------|--|------------|
| ANNEX 19 | SPEC. L | DRAWING NUMBER<br>19-000-2-02-00001 sheet 2121CYG40C05-9 | REV.<br>00 |
|----------|---------|--|------------|