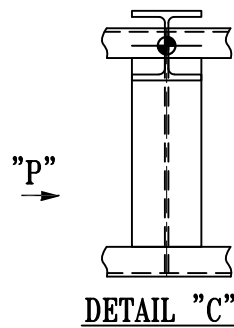
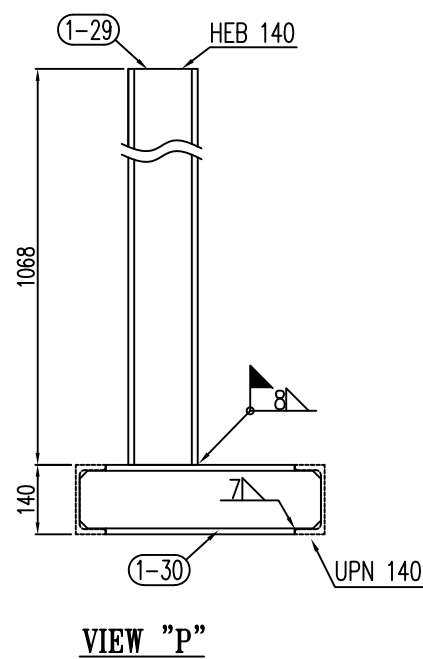
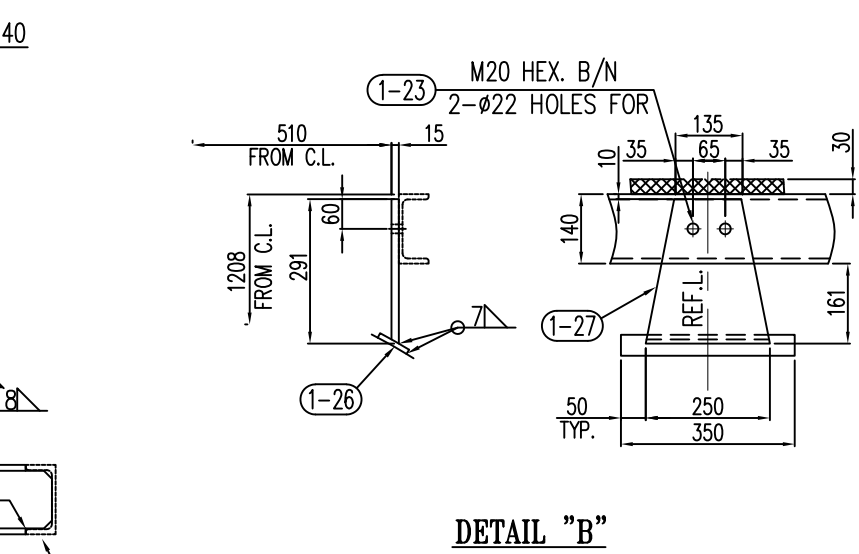
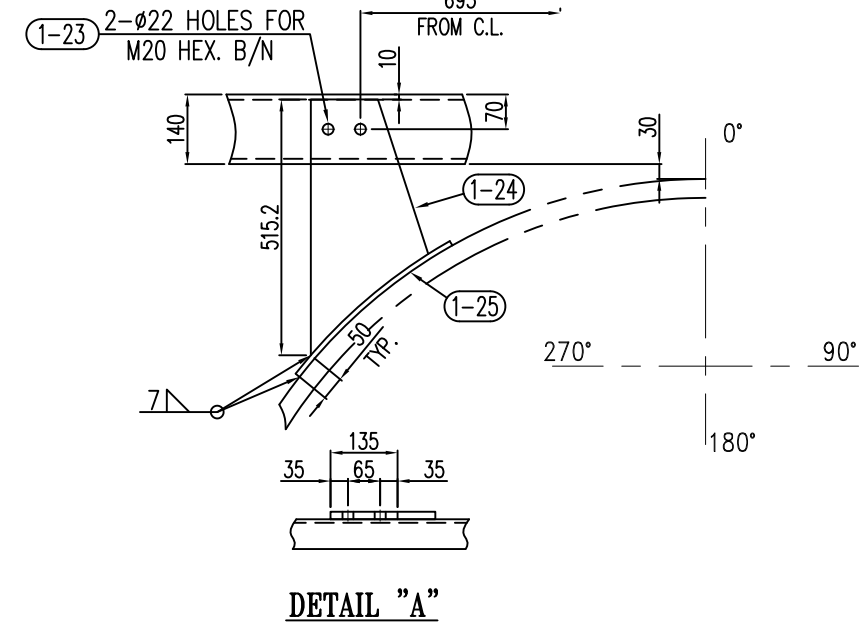
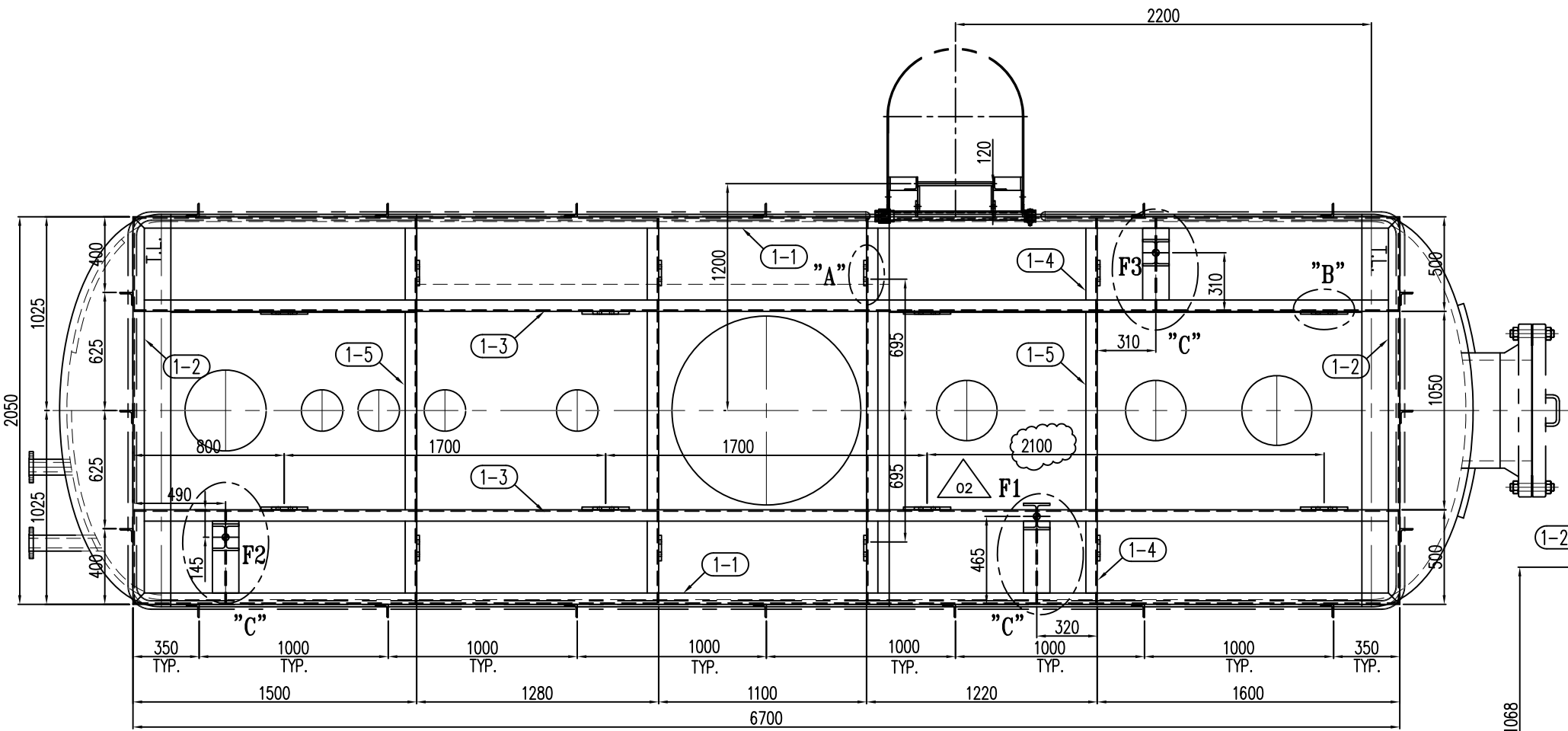
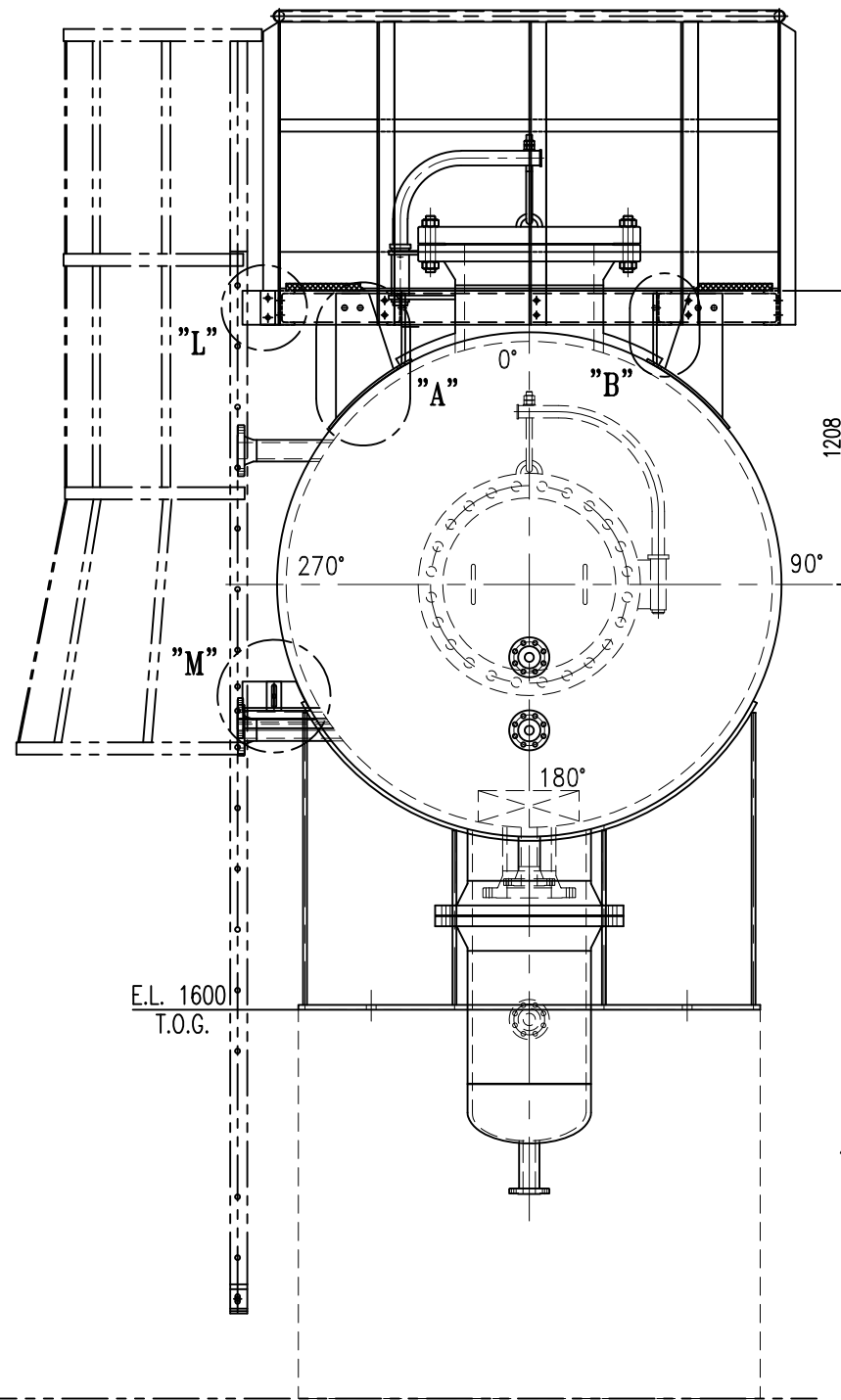
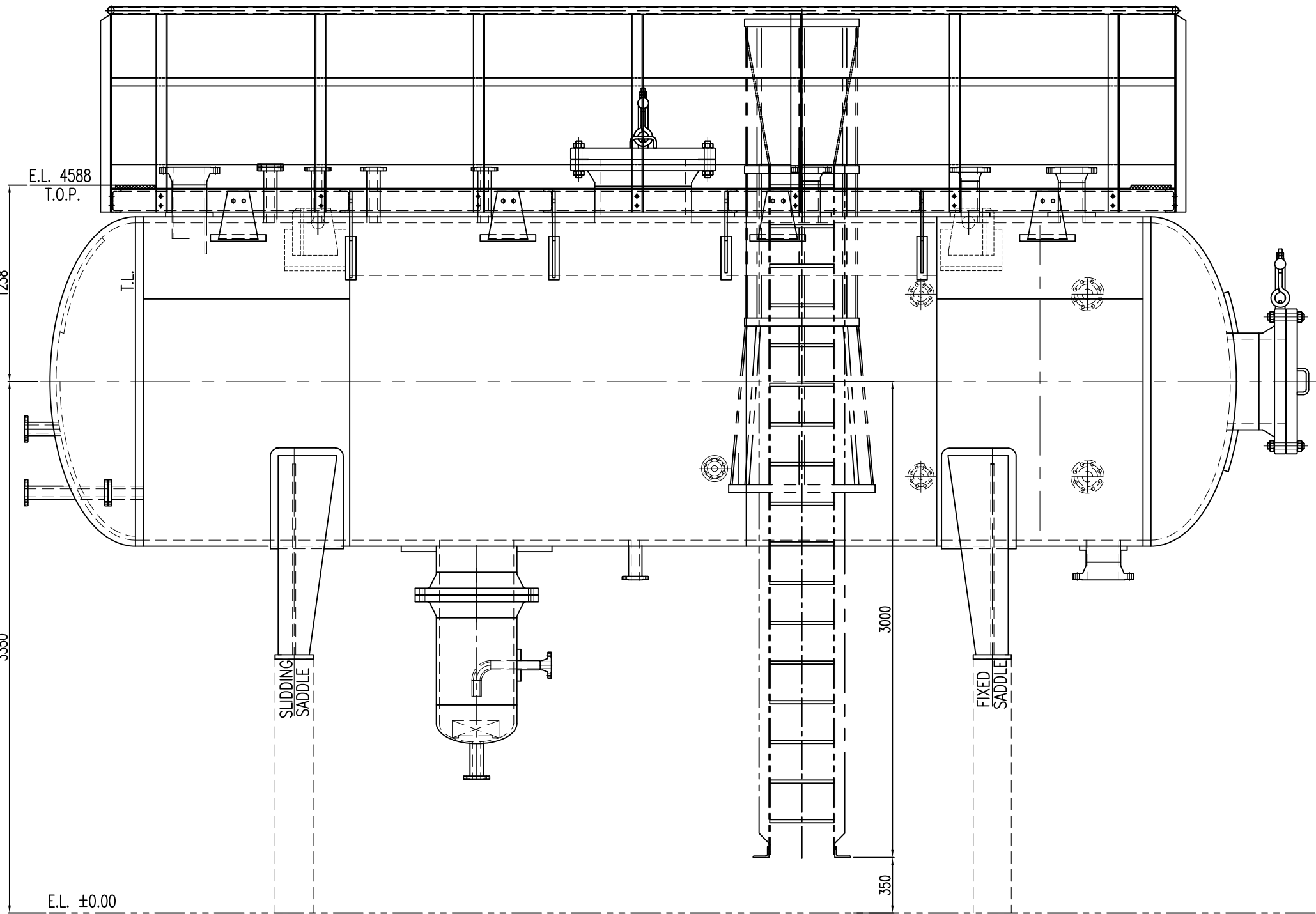




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## BILL OF MATERIALS

| NO.   | PARTICULARS                      | WEIGHT (Kg)  |             | MATERIAL               | REMARK                |
|-------|----------------------------------|--------------|-------------|------------------------|-----------------------|
|       |                                  | RQD MAIN SPA | UNIT TOTAL  |                        |                       |
| 1-1   | UPN 140 X L=6700                 | 2            | 115 230     | ST 37                  |                       |
| 1-2   | UPN 140 X L=2050                 | 2            | 35 70       | ST 37                  |                       |
| 1-3   | UPN 140 X L=6686                 | 2            | 114.3 228.6 | ST 37                  |                       |
| 1-4   | UPN 140 X L=486                  | 8            | 8.2 65.6    | ST 37                  |                       |
| 1-5   | UPN 140 X L=1050                 | 4            | 18 72       | ST 37                  |                       |
| 1-6   | F.B. 150 X 6 X L=16552           | 1            | 117 117     | ST 37                  |                       |
| 1-7   | F.B. 50 X 8 X L=16552            | 1            | 52 52       | ST 37                  |                       |
| 1-8   | PIPE 1,1/2" ,SCH.40 X L=16456    | 1            | 65.7 65.7   | SA 53                  |                       |
| 1-8a  | CAP 1,1/2" ,SCH.40               | 2            | 0.05 0.1    | SA 420-WPL6            |                       |
| 1-9   | L 70 X 70 X 7 X L= 1295          | 2            | 9.5 19      | ST 37                  |                       |
| 1-10  | L 70 X 70 X 7 X L=1246           | 19           | 9 171       | ST 37                  |                       |
| 1-11  | PL. 6 X 110 X110                 | 2            | 0.5 1       | ST 37                  |                       |
| 1-12  | PL. 5 X 60 X 60                  | 2            | 0.1 0.2     | ST 37                  |                       |
| 1-13  | PL. 10 X 15 X 30                 | 1            | 0.03 0.03   | ST 37                  |                       |
| 1-14  | PIPE 1/2" ,SCH.STD X L=50        | 1            | 0.06 0.06   | SA 53                  |                       |
| 1-15  | PL. 5 X 60 X 62                  | 1            | 0.1 0.1     | ST 37                  |                       |
| 1-15a | CLEVIS PINØ15 ,L=80              | 1            | 0.01 0.01   | ST 37                  | ISO 2341-B-16X80X4-ST |
| 1-15b | SPLIT PIN Ø4 ,L=25               | 1            | 0.1 0.1     | FA 436                 | DIN 94-4X25-ST        |
| 1-15c | WASHER I.D. 18 X O.D.28 X THK.=4 | 2            | 0.03 0.06   | ST 37                  | ISO 8738-18-ST        |
| 1-16  | PL. 5 X 60 X 60                  | 3            | 0.06 0.18   | ST 37                  |                       |
| 1-17  | PL. 10 X 30 X 40                 | 1            | 0.1 0.1     | ST 37                  |                       |
| 1-18  | PIPE 2" ,SCH.80 X L=100          | 1            | 7.3 7.3     | PLASTIC                |                       |
| 1-19  | PIPE 1,1/4" ,SCH.40 X L=850      | 1            | 28.3 28.3   | SA 53                  |                       |
| 1-20  | PL. 5 X 60 X 74                  | 1            | 0.2 0.2     | ST 37                  |                       |
| 1-21  | HEX. BOLT & NUT/W M16, L=40      | 44           | --- ---     | A325-A563-F436         |                       |
| 1-22  | PL 10 X 80 X 140                 | 2            | 0.8 1.6     | ST 37                  |                       |
| 1-23  | HEX B/N M20 x 55L                | 32           | 0.25 8      | A193-Gr.B7M/194-Gr.2HM |                       |
| 1-24  | PL. 15 X 235 X(515,2)            | 8            | 13.9 111.2  | ST 37                  |                       |
| 1-25  | PL. 10 X 65 X 411                | 8            | 2 16        | SA516-70               |                       |
| 1-26  | PL. 10 X 65 X 350                | 8            | 1.8 14.4    | SA516-70               |                       |
| 1-27  | PL. 15 X 250 X(291)              | 8            | 8.2 65.6    | ST 37                  |                       |
| 1-28  | PL. 10 X 120 X 179.3             | 2            | 1.7 3.4     | ST 37                  |                       |
| 1-29  | HBE. 140-1068L                   | 3            | 36 108      | ST 37                  |                       |
| 1-30  | HBE. 140-486L                    | 3            | 16.3 48.9   | ST 37                  |                       |

WEIGHT PER 1 SET : 1505.7 Kg  
NUMBER OF SETS : 1  
TOTAL WEIGHT : 1505.7 Kg

AS BUILT

|    |             |                     |            |           |          |    |
|----|-------------|---------------------|------------|-----------|----------|----|
| 02 | 19.Jan.2020 | AS BUILT            | s.shahbazi | M.pilevar | M.jafari | -- |
| 01 | 20.May.2019 | Issued for Approval | s.shahbazi | M.pilevar | M.jafari | -- |
| 00 | 09.Jan.2019 | Issued for Approval | s.shahbazi | M.pilevar | M.jafari | -- |

|                        |      |        |         |      |      |      |
|------------------------|------|--------|---------|------|------|------|
| Rev.                   | Date | Status | Prep.   | Chk. | App. | R.S. |
| MANAGEMENT CONTRACTOR: |      |        | CLIENT: |      |      |      |
| Petropars Ltd.         |      |        | PEDEC   |      |      |      |
| CONTRACTOR:            |      |        |         |      |      |      |
| AZERREF INCO           |      |        |         |      |      |      |

PROJECT TITLE:  
SOUTH AZADEGAN OIL FIELD DEVELOPMENT PROJECT  
PHASE1-MANIFOLD STATIONS & TRUNK LINES (NORTH SIDE)

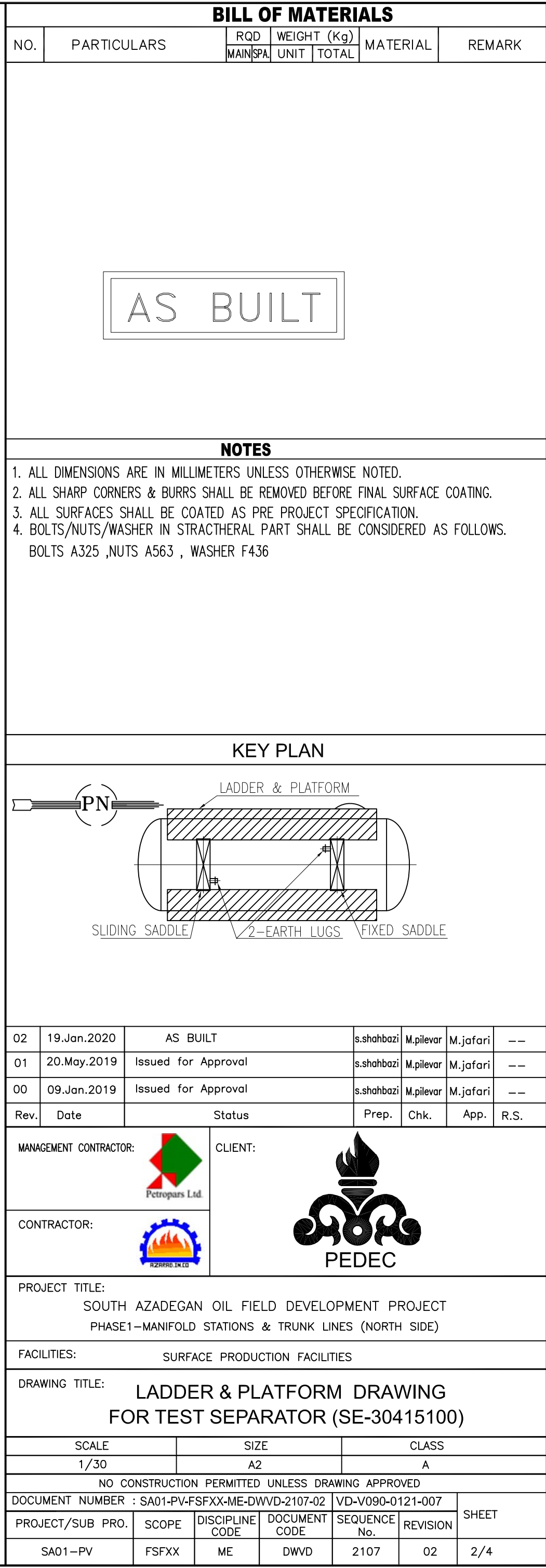
FACILITIES: SURFACE PRODUCTION FACILITIES

DRAWING TITLE:  
LADDER & PLATFORM DRAWING  
FOR TEST SEPARATOR (SE-30415100)

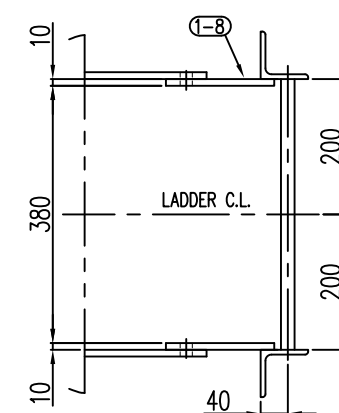
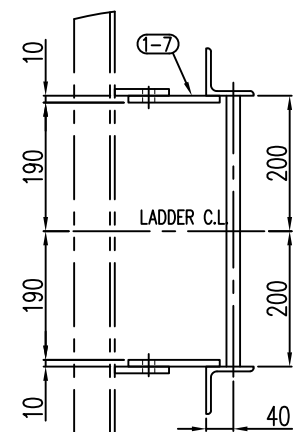
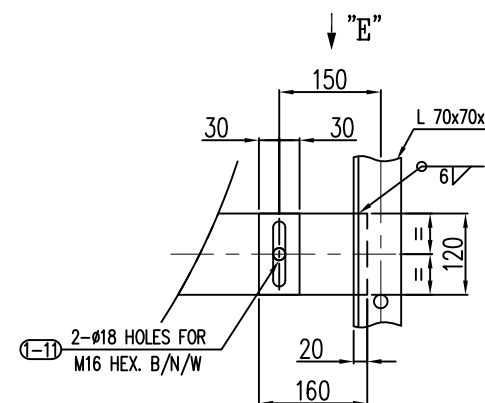
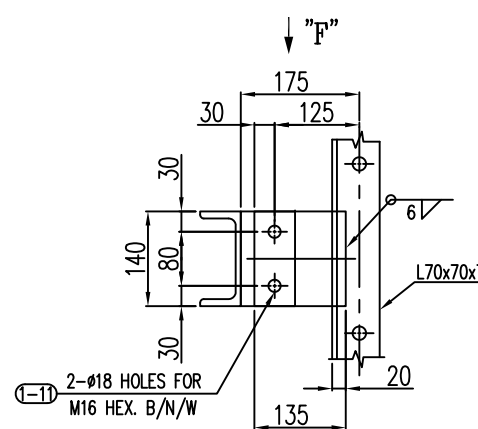
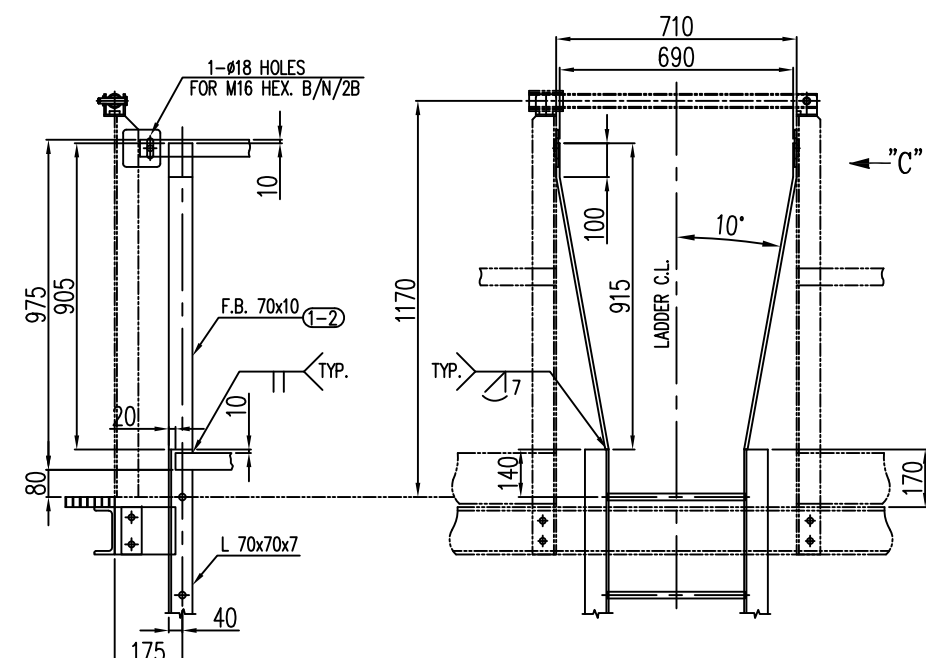
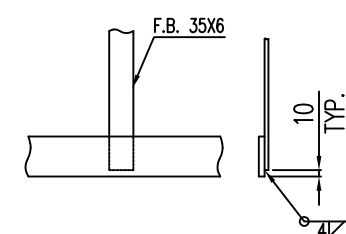
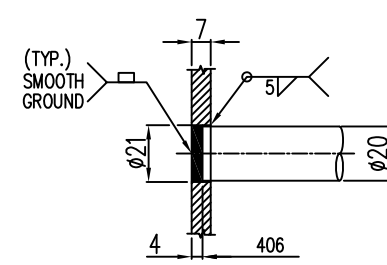
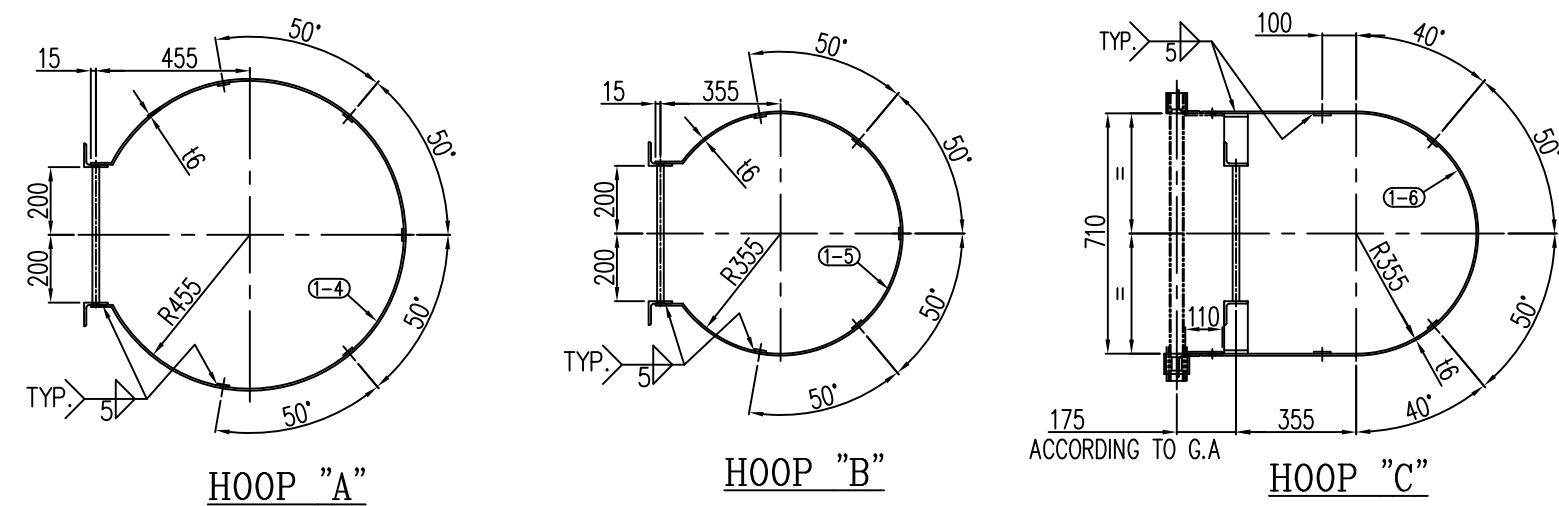
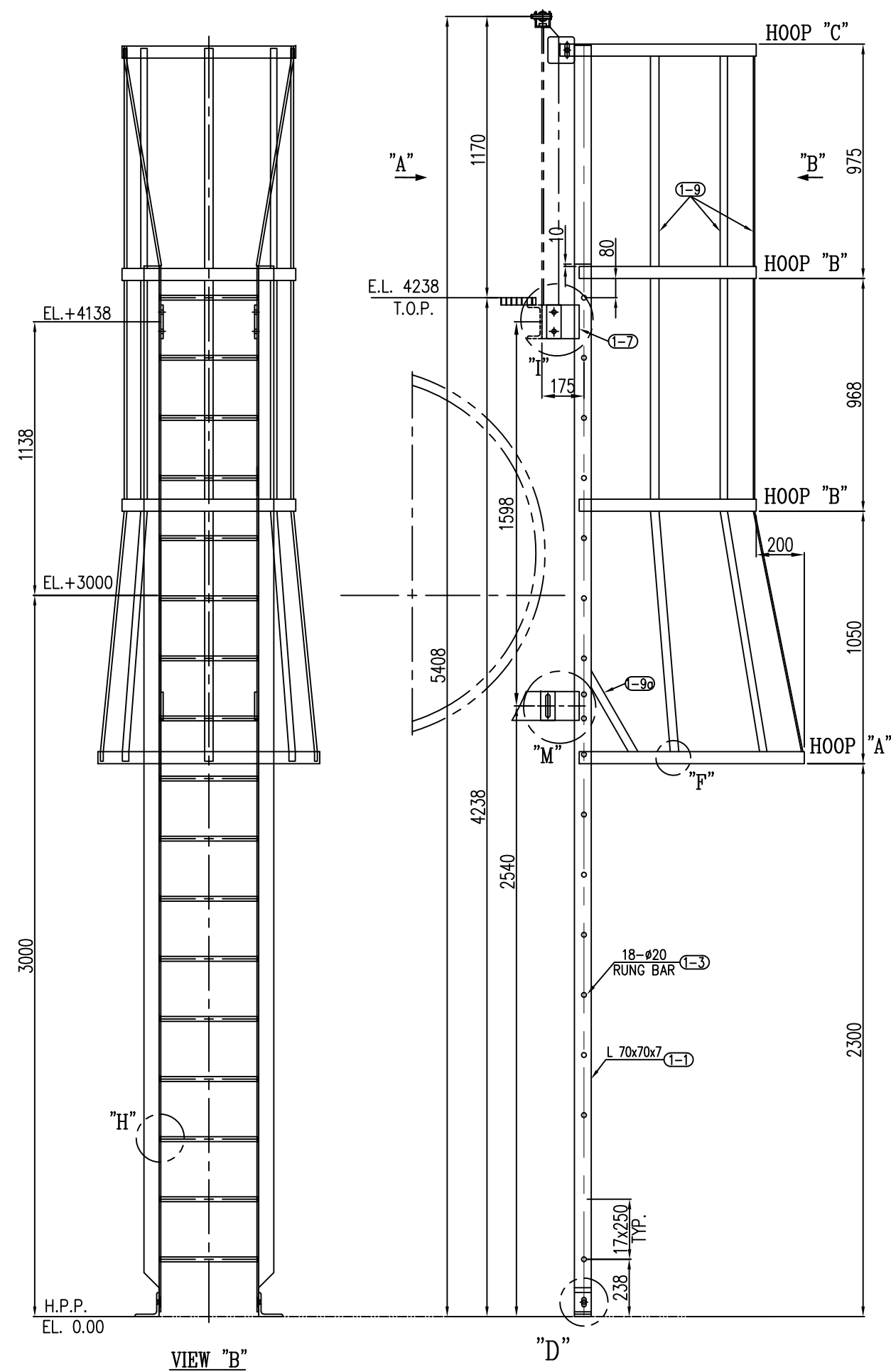
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| SCALE                                             |       | SIZE            |               | CLASS            |          |       |
| 1/30                                              |       | A2              |               | A                |          |       |
| NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED |       |                 |               |                  |          |       |
| DOCUMENT NUMBER : SA01-PV-FSFXX-ME-DWVD-2107-02   |       |                 |               | VD-V090-0121-007 |          | SHEET |
| PROJECT/SUB PRO.                                  | SCOPE | DISCIPLINE CODE | DOCUMENT CODE | SEQUENCE No.     | REVISION |       |
| SA01-PV                                           | FSFXX | ME              | DWVD          | 2107             | 02       | 1/4   |

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| BILL OF MATERIALS |                             |      |      |             |       |                           |        |
|-------------------|-----------------------------|------|------|-------------|-------|---------------------------|--------|
| NO.               | PARTICULARS                 | RQD  |      | WEIGHT (Kg) |       | MATERIAL                  | REMARK |
|                   |                             | MAIN | SPL  | UNIT        | TOTAL |                           |        |
| 1-1               | L 70 X 70 X 7 X L= 4350     | 2    |      | 44          | 88    | ST 37                     |        |
| 1-2               | F.B. 70 X 10 X L= 917       | 2    |      | 5           | 10    | ST 37                     |        |
| 1-3               | R.B. Ø20 X L=406            | 17   |      | 0.8         | 13.6  | ST 37                     |        |
| 1-4               | F.B. 50 X 6 X L=2502        | 1    |      | 39.5        | 39.5  | ST 37                     |        |
| 1-5               | F.B. 50 X 6 X L=1957.5      | 2    |      | 4.5         | 9     | ST 37                     |        |
| 1-6               | F.B. 50 X 6 X L=2175        | 1    |      | 5           | 5     | ST 37                     |        |
| 1-7               | PL. 10 X 135 X 140          | 2    |      | 1.5         | 3     | ST 37                     |        |
| 1-8               | PL. 10 X 160 X 120          | 2    |      | 1.5         | 3     | ST 37                     |        |
| 1-9               | F.B. 35 X 6 -2983L          | 5    |      | 5           | 25    | ST 37                     |        |
| 1-9a              | F.B. 35 X 6 - 475L          | 2    |      | 0.8         | 1.6   | ST 37                     |        |
| 1-10              | L 100 X 100 X 10 X L= 70    | 2    |      | 1           | 2     | SA 36                     |        |
| 1-11              | HEX. BOLT & NUT/W M16, L=60 | 8    | SET. | —           | —     | SA193-Gr.B7M/SA194-Gr.2HM |        |

|                    |       |    |
|--------------------|-------|----|
| WEIGHT PER 1 SET : | 198.6 | Kg |
| NUMBER OF SETS :   | 1     |    |
| TOTAL WEIGHT :     | 198.6 | Kg |

AS BUILT

|      |             |                     |            |           |          |      |
|------|-------------|---------------------|------------|-----------|----------|------|
| 02   | 19.Jan.2020 | AS BUILT            | s.shahbazi | M.pilevar | M.jafari | --   |
| 01   | 20.May.2019 | Issued for Approval | s.shahbazi | M.pilevar | M.jafari | --   |
| 00   | 09.Jan.2019 | Issued for Approval | s.shahbazi | M.pilevar | M.jafari | --   |
| Rev. | Date        | Status              | Prep.      | Chk.      | App.     | R.S. |

|                        |                                                                                                           |         |                                                                                                |
|------------------------|-----------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------|
| MANAGEMENT CONTRACTOR: | <br>Petrobras Ltd.   | CLIENT: | <br>PEDEC |
| CONTRACTOR:            | <br>RAZAFISO IN. LTD |         |                                                                                                |

|                |                                                                                                     |
|----------------|-----------------------------------------------------------------------------------------------------|
| PROJECT TITLE: | SOUTH AZADegan OIL FIELD DEVELOPMENT PROJECT<br>PHASE1-MANIFOLD STATIONS & TRUNK LINES (NORTH SIDE) |
|----------------|-----------------------------------------------------------------------------------------------------|

|             |                               |
|-------------|-------------------------------|
| FACILITIES: | SURFACE PRODUCTION FACILITIES |
|-------------|-------------------------------|

DRAWING TITLE: LADDER & PLATFORM DRAWING  
FOR TEST SEPARATOR (SE-30415100)

|                                                   |       |                 |               |                  |          |
|---------------------------------------------------|-------|-----------------|---------------|------------------|----------|
| SCALE                                             |       | SIZE            |               | CLASS            |          |
| 1/30                                              |       | A2              |               | A                |          |
| NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED |       |                 |               |                  |          |
| DOCUMENT NUMBER : SA01-PV-FSFX-ME-DWVD-2107-02    |       |                 |               | VD-V090-0121-007 |          |
| PROJECT/SUB PRO.                                  | SCOPE | DISCIPLINE CODE | DOCUMENT CODE | SEQUENCE No.     | REVISION |
| SA01-PV                                           | FSFX  | ME              | DWVD          | 2107             | 02       |
|                                                   |       |                 |               |                  | SHEET    |
|                                                   |       |                 |               |                  | 4/4      |