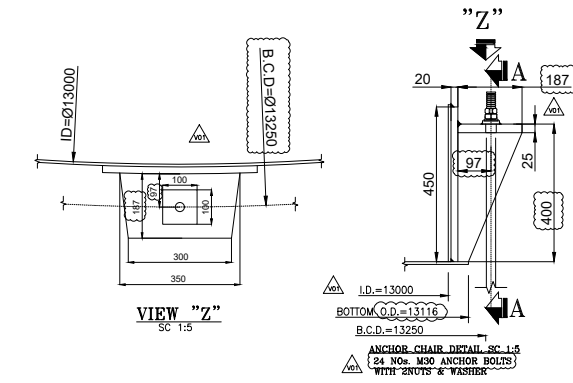
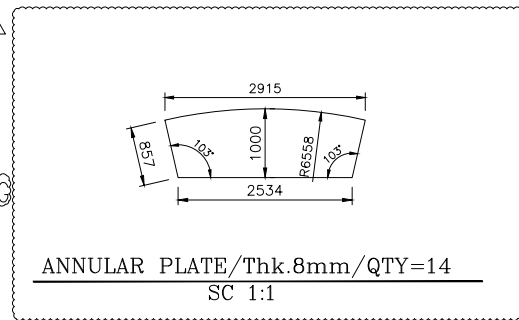
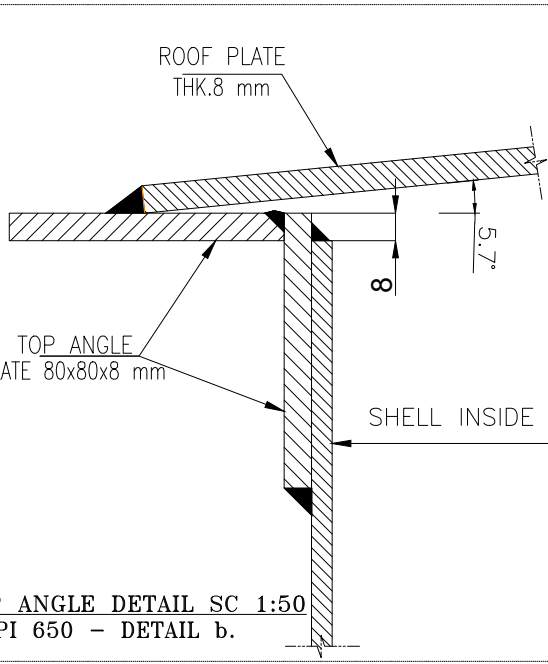
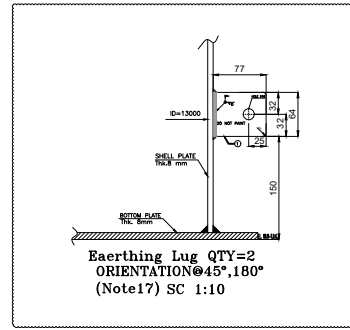
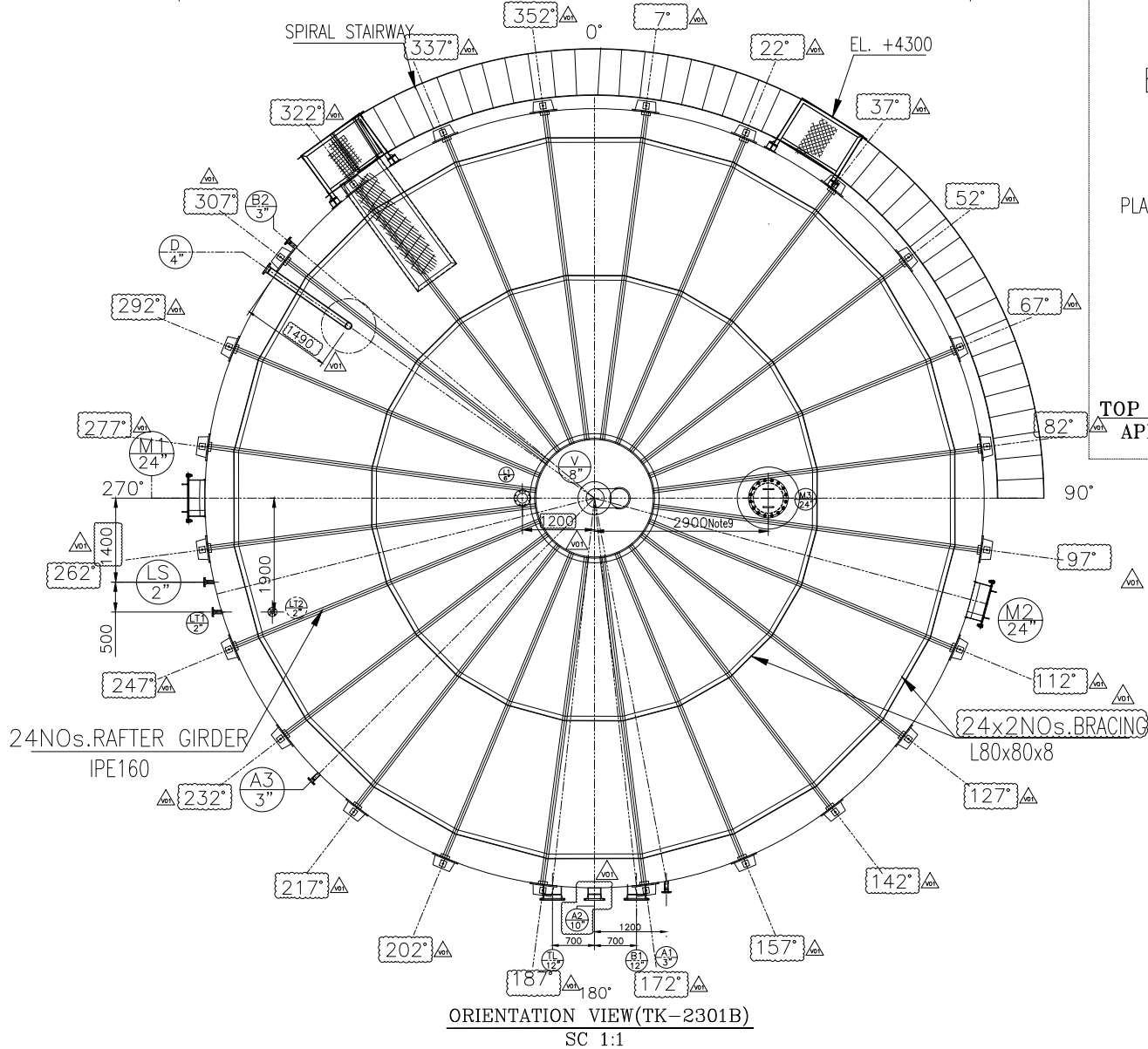
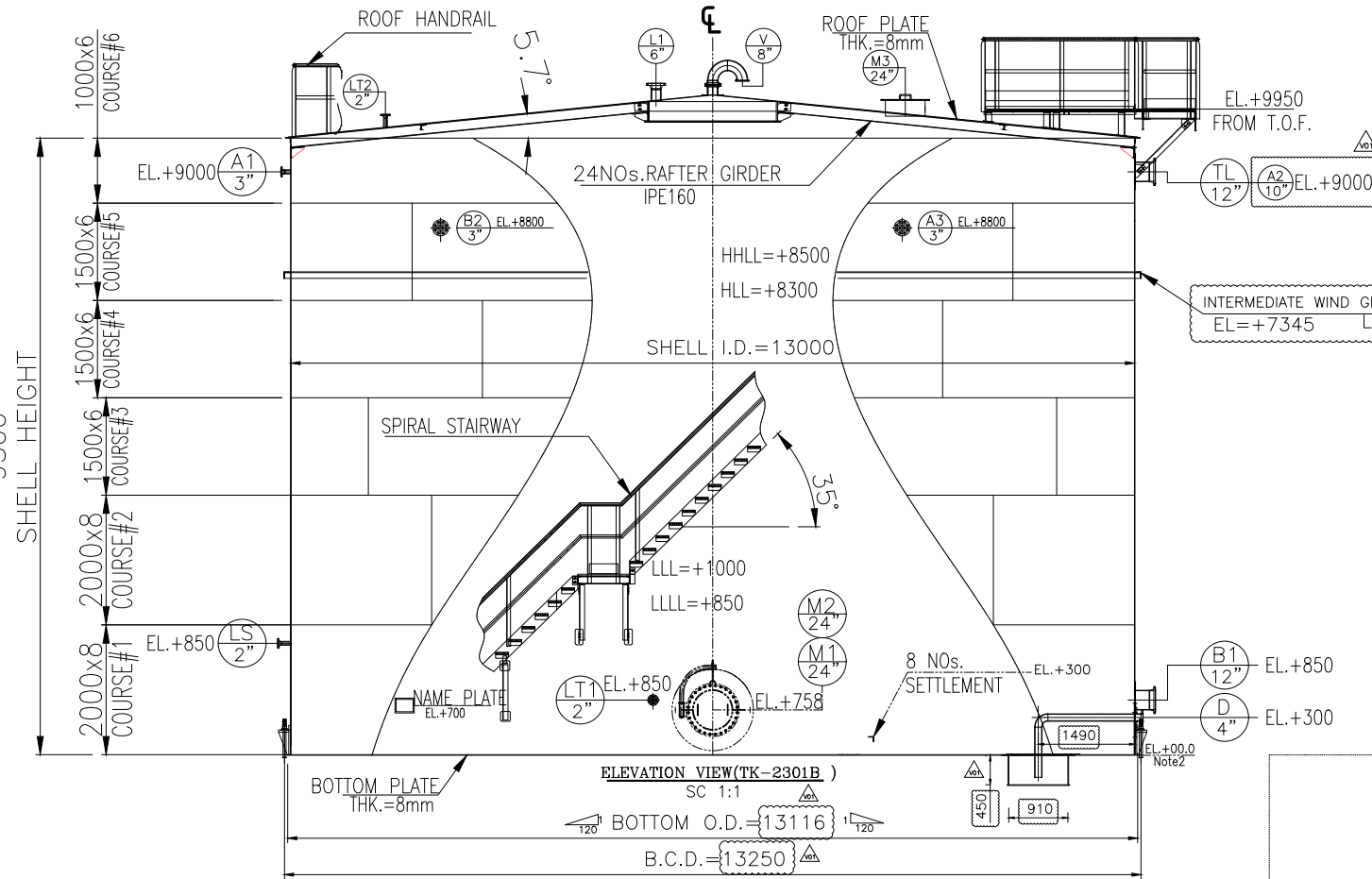




| NOZZLE LIST |     |                       |      |      |                |       |      |       |          |
|-------------|-----|-----------------------|------|------|----------------|-------|------|-------|----------|
| ITEM        | QTY | SERVICE               | SIZE | SC   | THK            | PLATE | TYPE | PROJ. | REMARKS  |
| A1          | 1   | Inlet                 | 3"   | 80   | W.N.           | 150#  | R.F. | 6691  | 25x81    |
| B1          | 1   | Outlet                | 12"  | 80   | W.N.           | 150#  | R.F. | 6741  | 685x81   |
| TL          | 1   | Test Line             | 12"  | 80   | W.N.           | 150#  | R.F. | 6741  | 685x81   |
| A3          | 1   | Inlet                 | 3"   | 80   | W.N.           | 150#  | R.F. | 6691  | 25x81    |
| LS          | 1   | Level Switch          | 2"   | 80   | W.N.           | 300#  | R.F. | 6666  | (250x81) |
| B2          | 1   | Over Flow             | 3"   | 80   | W.N.           | 150#  | R.F. | 6691  | 685x81   |
| D           | 1   | Drain                 | 4"   | 80   | W.N.           | 150#  | R.F. | 6691  | 305x81   |
| M1/2        | 2   | Manhole               | 24"  | -7/8 | AS PER API-650 |       |      | 6816  | 1255x81  |
| LT1         | 1   | Level Transmitter     | (2") | 80   | W.N.           | 300#  | R.F. | 6666  |          |
| A2          | 1   | Pressure Relief Valve | (2") | 80   | W.N.           | 150#  | R.F. | 7091  | 285x81   |
| V           | 1   | Vent                  | 6"   | 80   | W.N.           | 300#  | R.F. | 6666  | 170x81   |
| LI          | 1   | Level Indicator       | 6"   | 80   | W.N.           | 300#  | R.F. | 6666  | 170x81   |
| M1          | 1   | Roof Manhole          | 24"  | 80   | W.N.           | 150#  | R.F. | 6691  | 175x81   |
| LT2         | 1   | Level Transmitter     | 2"   | 80   | W.N.           | 300#  | R.F. | 6666  | 65x81    |

| GENERAL DATA                                                                                 |                                             |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------|---------------------------------------------|--|--|--|--|--|--|--|--|
| TAG No.                                                                                      | TK-2301 B                                   |  |  |  |  |  |  |  |  |
| QTY. OF TANKS                                                                                | 1                                           |  |  |  |  |  |  |  |  |
| STORAGE FLUID                                                                                | Fire Water Tank                             |  |  |  |  |  |  |  |  |
| CODE                                                                                         | API 650 (13th EDITION, ADD. 2021, APP.E.P.) |  |  |  |  |  |  |  |  |
| CAL. METHOD FOR SHELL                                                                        | ONE FOOT METHOD                             |  |  |  |  |  |  |  |  |
| ROOF TYPE                                                                                    | Rafters Supported Cone Roof                 |  |  |  |  |  |  |  |  |
| SPECIFIC GRAVITY                                                                             | 1                                           |  |  |  |  |  |  |  |  |
| CORROSION ALLOWANCE BOTTOM / SHELL / ROOF / NOZZLES / STRUCTURE (mm)                         | 1.6/1.6/1.6/1.6/1.6                         |  |  |  |  |  |  |  |  |
| SEISMIC DATA: S <sub>s</sub> /S <sub>1</sub> /F <sub>o</sub> /F <sub>v</sub> /Site Class/SUG | 1.1255/0.46/1/1.33/D/II                     |  |  |  |  |  |  |  |  |
| WIND VELOCITY / DESIGN WIND VELOCITY (Km/h)                                                  | 232/193                                     |  |  |  |  |  |  |  |  |
| DIMENSIONS (mm)                                                                              | 13000 I.D. x 9500 Height                    |  |  |  |  |  |  |  |  |
| TEMPERATURE: OPERATING / DESIGN (°C)                                                         | AMB. / 85                                   |  |  |  |  |  |  |  |  |
| INT.PRESSURE: OPERATING (MIN./MAX)/DESIGN (INT./EXT.) (bars)                                 | 0 / ATM./Full of Water + 50 mm H2O          |  |  |  |  |  |  |  |  |
| EXT. DESIGN PRESSURE (bars)                                                                  | 0                                           |  |  |  |  |  |  |  |  |
| CAPACITY: NOMINAL / NET (m <sup>3</sup> )                                                    | 1260/1040                                   |  |  |  |  |  |  |  |  |
| FILLING/EMPTYING RATE (MAX) (m <sup>3</sup> /h)                                              | HOLD                                        |  |  |  |  |  |  |  |  |
| COOLING SYSTEM/FOAM SYSTEM                                                                   | NO/NO                                       |  |  |  |  |  |  |  |  |
| P.W.H.T.                                                                                     | NO                                          |  |  |  |  |  |  |  |  |
| FOUNDATION TYPE                                                                              | RING WALL                                   |  |  |  |  |  |  |  |  |
| APPLICABLE ANNEXES                                                                           | E                                           |  |  |  |  |  |  |  |  |
| CATHODIC PROTECTION (EXTERNAL/INTERNAL)                                                      | YES/NO                                      |  |  |  |  |  |  |  |  |
| DESIGN METAL TEMPERATURE (°C)                                                                | AMB.                                        |  |  |  |  |  |  |  |  |
| HULL / LULL (mm)                                                                             | 8500 / 850                                  |  |  |  |  |  |  |  |  |
| BLANKETING (with nitrogen)                                                                   | NO                                          |  |  |  |  |  |  |  |  |
| FLAME ARRESTOR                                                                               | NO                                          |  |  |  |  |  |  |  |  |
| EMERGENCY VENT                                                                               | NO                                          |  |  |  |  |  |  |  |  |
| PRESSURE RELIEF VALVE                                                                        | YES                                         |  |  |  |  |  |  |  |  |
| GAUGE HATCH                                                                                  | YES                                         |  |  |  |  |  |  |  |  |

| THICKNESS SUMMARY                       |                |  |  |  |  |  |  |  |  |
|-----------------------------------------|----------------|--|--|--|--|--|--|--|--|
| ANNUAL THICKNESS                        | mm 8           |  |  |  |  |  |  |  |  |
| BOTTOM THICKNESS                        | mm 8           |  |  |  |  |  |  |  |  |
| ROOF THICKNESS                          | mm 8           |  |  |  |  |  |  |  |  |
| SHELL THICKNESS C#1/C#2/C#3/C#4/C#5/C#6 | mm 8/8/6/6/6/6 |  |  |  |  |  |  |  |  |

| INSPECTION & TEST               |                                          |  |  |  |  |  |  |  |  |
|---------------------------------|------------------------------------------|--|--|--|--|--|--|--|--|
| VISUAL & DIMENSIONAL INSPECTION | YES                                      |  |  |  |  |  |  |  |  |
| HYDROSTATIC TEST                | YES (FILLED WITH WATER TO HULL+50mm H2O) |  |  |  |  |  |  |  |  |
| RADIOGRAPHY EXAM                | YES (API 650 - 8.1.2)                    |  |  |  |  |  |  |  |  |
| VACUUM BOX TEST                 | YES                                      |  |  |  |  |  |  |  |  |
| AIR AND SOAP LEAK TEST          | YES                                      |  |  |  |  |  |  |  |  |
| IMPACT TEST                     | NO                                       |  |  |  |  |  |  |  |  |

| SURFACE TREATMENT (PAINTING & INSULATION) |                 |  |  |  |  |  |  |  |  |
|-------------------------------------------|-----------------|--|--|--|--|--|--|--|--|
| INTERNAL (SHELL/ROOF/BOTTOM)              | YES/YES/YES     |  |  |  |  |  |  |  |  |
| EXTERNAL (SHELL/ROOF/BOTTOM/STRUCTURE)    | YES/YES/YES/YES |  |  |  |  |  |  |  |  |
| INSULATION                                | NO              |  |  |  |  |  |  |  |  |

| MATERIAL                        |                                                         |  |  |  |  |  |  |  |  |
|---------------------------------|---------------------------------------------------------|--|--|--|--|--|--|--|--|
| ROOF/SHELL/REINF. PAD           | SA283-C                                                 |  |  |  |  |  |  |  |  |
| BOTTOM/ANNUAL PLATE/WIND GIRDER | SA283-C/SA283-C/A36                                     |  |  |  |  |  |  |  |  |
| STRUCTURE/TOP ANGLE             | S137                                                    |  |  |  |  |  |  |  |  |
| NOZZLE NECK (PLATE/PIPE)        | SA283-C/A-106GrB                                        |  |  |  |  |  |  |  |  |
| FLANGE (PLATE/FORGED)           | SA283-C/A-105                                           |  |  |  |  |  |  |  |  |
| EXTERNAL (BOLTS /NUTS)          | A 193-BM / A 194-3M (Hot Dip Galvanizing or Dichromate) |  |  |  |  |  |  |  |  |
| GASKET                          | Note 7 (PTFE for manhole gasket material)               |  |  |  |  |  |  |  |  |
| ANCHOR BOLT                     | F1554 Gr.36                                             |  |  |  |  |  |  |  |  |
| FITTINGS                        | A 234 WPB                                               |  |  |  |  |  |  |  |  |
| NAME PLATE BRACKET / NAME PLATE | A 283 Gr. C / A 240 316 L                               |  |  |  |  |  |  |  |  |
| INTERNAL (BOLTS /NUTS)          | A 193-BM / A 194-3M                                     |  |  |  |  |  |  |  |  |
| FIXED INTERNALS                 | A 106 Gr. B / A 283 Gr. C                               |  |  |  |  |  |  |  |  |
| FOAM AND WATER COOLING SYSTEM   | N/A                                                     |  |  |  |  |  |  |  |  |

| LOADING DATA                  |                 |  |  |  |  |  |  |  |  |
|-------------------------------|-----------------|--|--|--|--|--|--|--|--|
| EMPTY WEIGHT                  | 50.5 TON        |  |  |  |  |  |  |  |  |
| HYDROTEST WEIGHT              | 1312 TON        |  |  |  |  |  |  |  |  |
| OPERATING WEIGHT              | 1092 TON        |  |  |  |  |  |  |  |  |
| WIND SHEAR                    | 456 KN          |  |  |  |  |  |  |  |  |
| WIND MOMENT                   | 2683 KN.m       |  |  |  |  |  |  |  |  |
| SEISMIC SHEAR                 | 1964 KN         |  |  |  |  |  |  |  |  |
| SEISMIC MOMENT RING WALL/SLAB | 6930/10791 KN.m |  |  |  |  |  |  |  |  |

| V01  | DEC. 2024 | APC     | idRill M.E. | M.FAKHARIAN | M.SADEGHIAN | **   |
|------|-----------|---------|-------------|-------------|-------------|------|
| V00  | NOV. 2024 | IPA     | idRill M.E. | M.FAKHARIAN | M.SADEGHIAN | **   |
| REV. | DATE      | P.O.I.S | PREP.       | CHK.        | APP.        | AUT. |

|                                                                                            |  |  |                                                        |  |  |
|--------------------------------------------------------------------------------------------|--|--|--------------------------------------------------------|--|--|
| PROJECT NAME: BINAQ OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS & GAS-CONDENSATE PIPELINES |  |  |                                                        |  |  |
| PROJECT NO.: 971020                                                                        |  |  |                                                        |  |  |
| EPC CONTRACTOR: HIRGAN ENERGY                                                              |  |  | EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY |  |  |

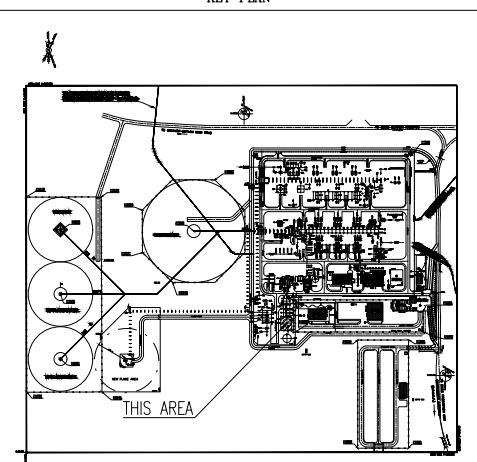
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|--------------------------------------------------------------------|------|---------------------------|-----------|------|--|
| DRAWING TITLE: GENERAL ARRANGEMENT FOR FIRE WATER TANKS (TK-2301B) |      |                           |           |      |  |
| SCALE                                                              | SIZE | DRAWING NO.               | SHEET NO. | REV. |  |
| 1:110                                                              | A3   | BK-GCS-IDR-120-ME-DW-0007 | 2 OF 2    | V01  |  |

- NOTES
- ALL DIMENSION ARE IN mm, UNLESS OTHERWISE SPECIFIED.
  - ALL ELEVATIONS ARE MEASURED FROM TOP OF FOUNDATION.
  - SHELL AND ROOF NOZZLES PROJECTIONS ARE MEASURED FROM OUTSIDE SHELL BODY OR ROOF PLATE.
  - ROOF-SHELL JUNCTION IS ABOVE OF TOP ANGLE.
  - MINIMUM ANCHOR BOLT YIELD STRESS Sy = 248 MPa.
  - ANCHOR BOLTS TO BE STRADDLED NORTH/SOUTH CL UNLESS OTHERWISE NOTED.
  - GASKET PROPERTIES: ASBESTOS FREE SPW, WOR, RF, 4.5MM, SPIRAL-316L, CENTERING RING, C.S./INNER RING-316L, FILLER-GRAPHITE, ASME B16.20 FOR PIPING COMPONENT AND FLAT GASKET MATERIAL (WHICH CONFORMED TO 'API650') SHALL BE NEOPRENE RUBBER SHEET CONSIDERED FOR ROOF AND SHELL MANHOLES.
  - SHELL NOZZLE PROJECTION HAS BEEN SPECIFIED FROM TANK CENTER LINE AND ROOF NOZZLE PROJECTION SHALL HAS BEEN SPECIFIED FROM UNDERSIDE OF BOTTOM PLATE.
  - DUE TO THE CLASH BETWEEN THE NOZZLES (M3) WITH THE RAFTER, IT IS NECESSARY TO MOVE THESE NOZZLES.
  - DELETED.
  - EXTERNAL AND INTERNAL SURFACE OF TANK WILL BE COATED IN ACCORDANCE WITH BK-GNRL-PEDCO-000-PI-SF-0006 & BK-GNRL-PEDCO-000-PI-SF-0007 RESPECTIVELY.
  - MANWAYS WILL BE SUPPLIED COMPLETE WITH BLIND FLANGE, EXTERNAL GRAB HANDLES, INTERNAL GRAB HANDLE AND LADDER RUNGS, NUTS,BOLTING, GASKET AND PROOF LOAD TEST DWITS. DWITS WILL BE PROOF LOAD TESTED ON THE VESSEL TO 1.5 X SAFE WORKING LOAD (SWL) AND WILL BE MARKED ACCORDINGLY.
  - INSTRUMENT AND PIPING NOZZLE FLANGES WILL BE IN ACCORDANCE WITH ASME B 16.5.
  - ALL NOZZLES CONNECTION WELD TO TANK WILL BE WITH FULL PENETRATION.
  - ON THE BOTTOM PLATE, A U-SHAPED CLIP IS WELDED TO HOLD & GUIDE THE INDICATOR STRAP OF THE FLOAT GAUGE.
  - WILL BE FINALIZED NEXT REVISION.
  - ALL ANCHOR BOLT/NUT SHALL BE HOT DIP GALVANIZED (BY OTHER).

| HOLD ITEM                 |  |
|---------------------------|--|
| 1- Allowable Nozzle Load. |  |
| 2- Pipe Clip Support.     |  |

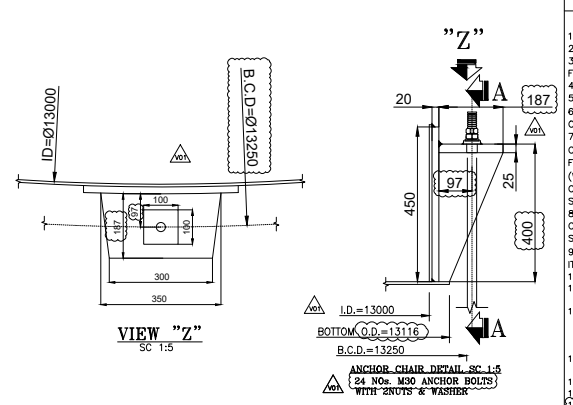
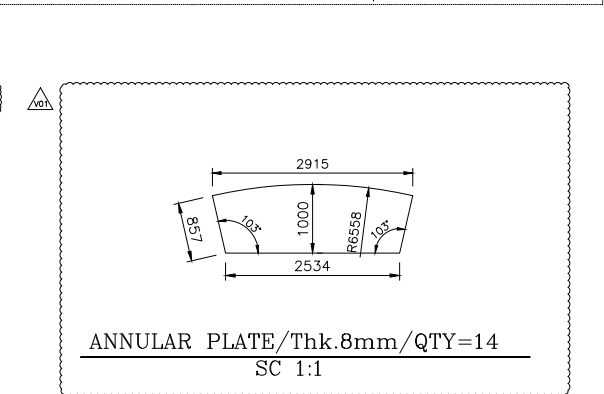
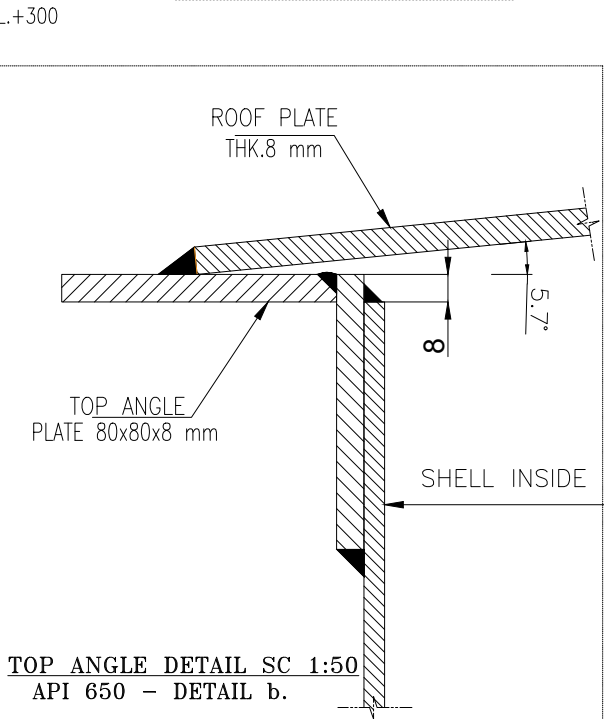
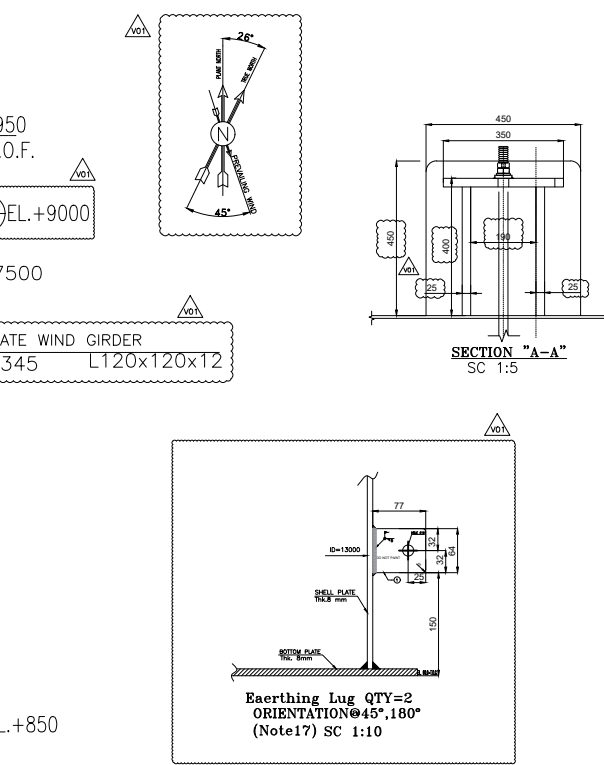
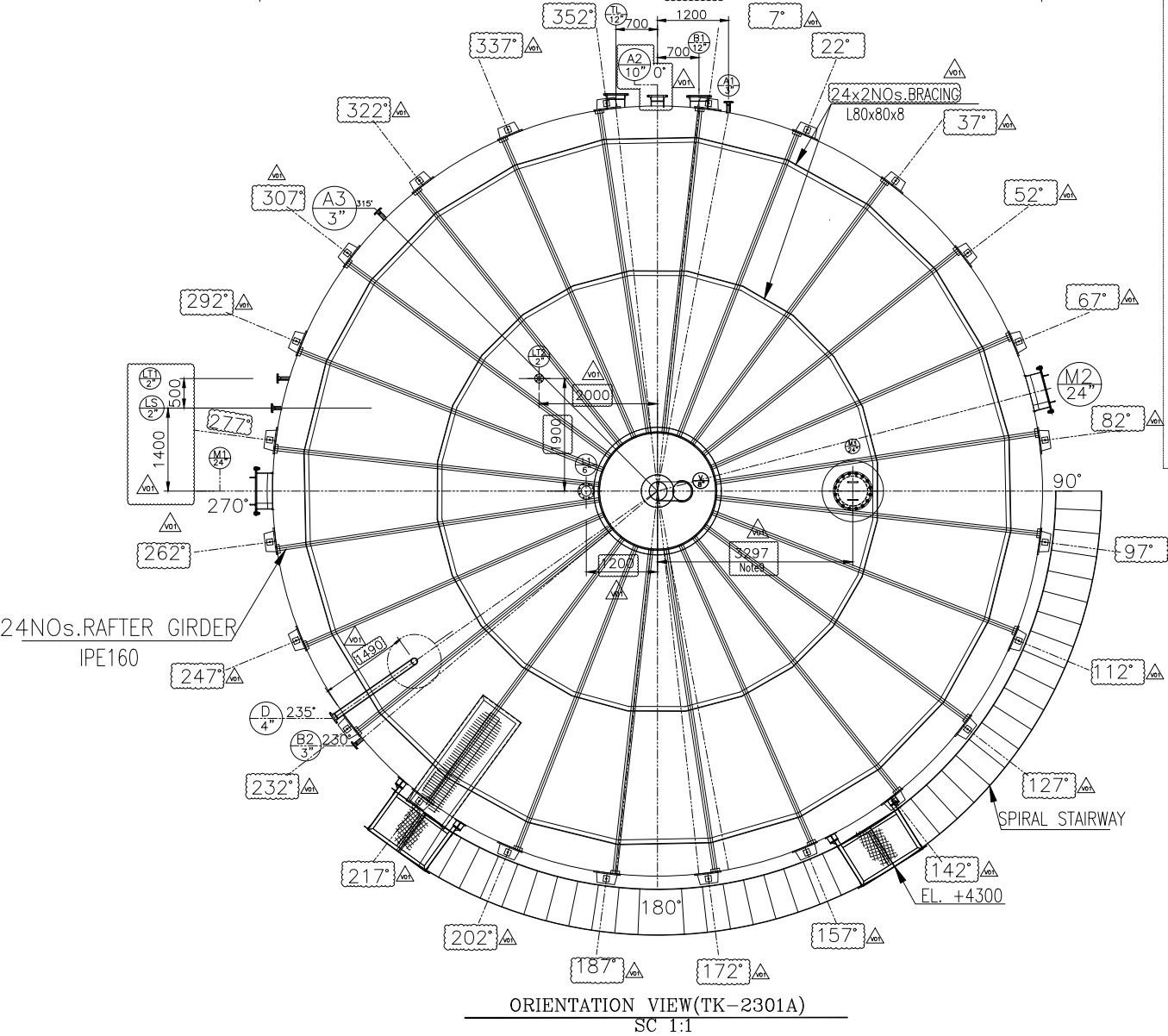
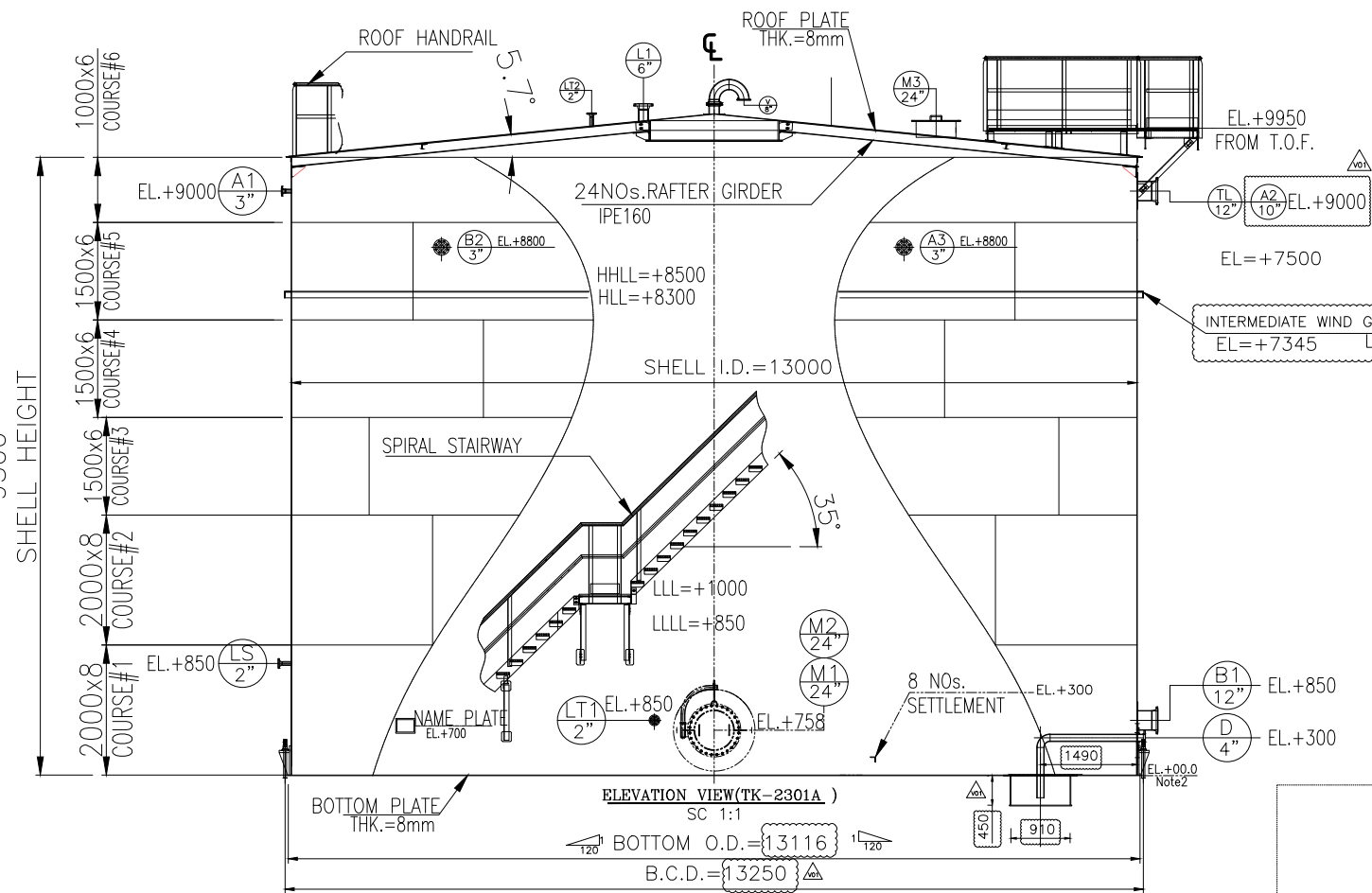
| LEGEND                                      |  |
|---------------------------------------------|--|
| ELEVATION & PROJECTION KEY PLANE (NOTE 2.8) |  |
| PROJECTION                                  |  |
| SHELL NOZZLE KEY PLANE                      |  |
| ROOF NOZZLE KEY PLANE                       |  |

| REFERENCE DOCUMENT                                 | DRG. No.                        |
|----------------------------------------------------|---------------------------------|
| MECHANICAL DATA SHEETS FOR FIRE WATER STORAGE TANK | BK-GCS-PEDCO-120-ME-DW-0017-D05 |
| Mechanical Design Criteria                         | BK-GNRL-PEDCO-000-ME-DC-0001    |
| Specification for Painting                         | BK-GNRL-PEDCO-000-PI-SF-0006    |
| Specification for Insulation                       | BK-GNRL-PEDCO-000-PI-SF-0019    |
| Specification for Lining                           | BK-GNRL-PEDCO-000-PI-SF-0007    |



| REV. | DESCRIPTION | BY  | DATE  | BY  | DATE  |
|------|-------------|-----|-------|-----|-------|
| ...  | *****       | ... | ***** | ... | ***** |

|                                                                                                                             |          |            |            |              |          |
|-----------------------------------------------------------------------------------------------------------------------------|----------|------------|------------|--------------|----------|
| THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS |          |            |            |              |          |
| BINAQ OILFIELD DEVELOPMENT SURFACE FACILITIES GAS CPMRESSOR STATION                                                         |          |            |            |              |          |
| DATE                                                                                                                        | SCALE    | DRAWING BY | CHECKED BY | PROJECT ENG. |          |
| NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED                                                                           |          |            |            |              |          |
| APPROVED FOR CONSTRUCTION                                                                                                   |          |            | BY:        | DATE:        |          |
| BUDGET REF.                                                                                                                 | LOCATION | SIZE CLASS | SERIAL NO. | SHEET        | REVISION |



| NOZZLE LIST |      |                       |      |         |                |      |       |         |                               |
|-------------|------|-----------------------|------|---------|----------------|------|-------|---------|-------------------------------|
| ITEM        | QTY. | SERVICE               | SIZE | SC./THK | PLATE          | TYPE | PROJ. | OB. THK | REMARKS                       |
| A1          | 1    | Inlet                 | 3"   | 80      | W.N.           | 150# | R.F.  | 6691    | 25x81                         |
| B1          | 1    | Outlet                | 12"  | 80      | W.N.           | 150# | R.F.  | 6741    | 685x81                        |
| TL          | 1    | Test Line             | 12"  | 80      | W.N.           | 150# | R.F.  | 6741    | 685x81                        |
| A3          | 1    | Inlet                 | 3"   | 80      | W.N.           | 150# | R.F.  | 6691    | 25x81                         |
| LS          | 1    | Level Switch          | 2"   | 80      | W.N.           | 300# | R.F.  | 6666    | (250x81)                      |
| B2          | 1    | Over Flow             | 3"   | 80      | W.N.           | 150# | R.F.  | 6691    | 685x81                        |
| D           | 1    | Drain                 | 4"   | 80      | W.N.           | 150# | R.F.  | 6691    | 305x81                        |
| M1/2        | 2    | Manhole               | 24"  | -7/8    | AS PER API-650 |      |       | 6816    | 1255x81 with devil            |
| LT1         | 1    | Level Transmitter     | (2") | 80      | W.N.           | 300# | R.F.  | 6666    |                               |
| A2          | 1    | Pressure Relief Valve | 10"  | 80      | W.N.           | 150# | R.F.  | 7091    | 225x81 (Note 1)               |
| V           | 1    | Vent                  | 8"   | 80      | W.N.           | 150# | R.F.  | 7091    | 225x81                        |
| LI          | 1    | Level Indicator       | 6"   | 80      | W.N.           | 300# | R.F.  | 170x81  |                               |
| M1          | 1    | Roof Manhole          | 24"  | 80      | W.N.           | 150# | R.F.  | 175x81  | with devil and strap (Note 1) |
| LT2         | 1    | Level Transmitter     | 2"   | 80      | W.N.           | 300# | R.F.  | 65x81   |                               |

| GENERAL DATA                                                  |                                             |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------|---------------------------------------------|--|--|--|--|--|--|--|--|
| TAG No.                                                       | TK-2301 A                                   |  |  |  |  |  |  |  |  |
| QTY. OF TANKS                                                 | 1                                           |  |  |  |  |  |  |  |  |
| STORAGE FLUID                                                 | Fire Water Tank                             |  |  |  |  |  |  |  |  |
| CODE                                                          | API 650 (13th EDITION, ADD. 2021, APP.E.P.) |  |  |  |  |  |  |  |  |
| CAL. METHOD FOR SHELL                                         | ONE FOOT METHOD                             |  |  |  |  |  |  |  |  |
| ROOF TYPE                                                     | Roof Supported Cone Roof                    |  |  |  |  |  |  |  |  |
| SPECIFIC GRAVITY                                              | 1                                           |  |  |  |  |  |  |  |  |
| CORROSION ALLOWANCE BOTTOM/ SHELL / ROOF/NOZZLES              | 1.6/1.6/1.6/1.6                             |  |  |  |  |  |  |  |  |
| SEISMIC DATA: Sa/S1/Fa/Fv/Site Class/SUG                      | 1:1255/0.46/1/1.33/D/II                     |  |  |  |  |  |  |  |  |
| WIND VELOCITY / DESIGN WIND VELOCITY                          | 232/193 (Km/h)                              |  |  |  |  |  |  |  |  |
| DIMENSIONS                                                    | 13000 I.D. x 9500 Height (mm)               |  |  |  |  |  |  |  |  |
| TEMPERATURE: OPERATING / DESIGN                               | AMB. / 85 (°C)                              |  |  |  |  |  |  |  |  |
| INT. PRESSURE: OPERATING (MIN./MAX)/DESIGN (INT./EXT.) (bars) | 0 / 0                                       |  |  |  |  |  |  |  |  |
| EXT. DESIGN PRESSURE                                          | Full of Water + 50 mm H2O                   |  |  |  |  |  |  |  |  |
| CAPACITY: NOMINAL / NET                                       | 1260/1040 (m³)                              |  |  |  |  |  |  |  |  |
| FILLING/EMPTYING RATE (MAX)                                   | HOLD                                        |  |  |  |  |  |  |  |  |
| COOLING SYSTEM/FOAM SYSTEM                                    | NO/NO                                       |  |  |  |  |  |  |  |  |
| P.W.H.T.                                                      | NO                                          |  |  |  |  |  |  |  |  |
| FOUNDATION TYPE                                               | RING WALL                                   |  |  |  |  |  |  |  |  |
| APPLICABLE ANNEXES                                            | E                                           |  |  |  |  |  |  |  |  |
| CATHODIC PROTECTION(EXTERNAL/INTERNAL)                        | YES/NO                                      |  |  |  |  |  |  |  |  |
| DESIGN METAL TEMPERATURE                                      | (°C) AMB.                                   |  |  |  |  |  |  |  |  |
| HULL / LULL                                                   | (mm) 8500/ 850                              |  |  |  |  |  |  |  |  |
| BLANKETING (with nitrogen)                                    | NO                                          |  |  |  |  |  |  |  |  |
| FLAME ARRESTOR                                                | NO                                          |  |  |  |  |  |  |  |  |
| EMERGENCY VENT                                                | NO                                          |  |  |  |  |  |  |  |  |
| PRESSURE RELIEF VALVE                                         | YES                                         |  |  |  |  |  |  |  |  |
| GAUGE HATCH                                                   | YES                                         |  |  |  |  |  |  |  |  |

| THICKNESS SUMMARY                       |                |  |  |  |  |  |  |  |  |
|-----------------------------------------|----------------|--|--|--|--|--|--|--|--|
| ANNUAL THICKNESS                        | mm 8           |  |  |  |  |  |  |  |  |
| BOTTOM THICKNESS                        | mm 8           |  |  |  |  |  |  |  |  |
| ROOF THICKNESS                          | mm 8           |  |  |  |  |  |  |  |  |
| SHELL THICKNESS C#1/C#2/C#3/C#4/C#5/C#6 | mm 8/8/6/6/6/6 |  |  |  |  |  |  |  |  |

| INSPECTION & TEST               |                                          |  |  |  |  |  |  |  |  |
|---------------------------------|------------------------------------------|--|--|--|--|--|--|--|--|
| VISUAL & DIMENSIONAL INSPECTION | YES                                      |  |  |  |  |  |  |  |  |
| HYDROSTATIC TEST                | YES (FILLED WITH WATER TO HHLL+50mm H2O) |  |  |  |  |  |  |  |  |
| RADIOGRAPHY EXAM.               | YES(API650 - B.1.2)                      |  |  |  |  |  |  |  |  |
| VACUUM BOX TEST                 | YES                                      |  |  |  |  |  |  |  |  |
| AIR AND SOAP LEAK TEST          | YES                                      |  |  |  |  |  |  |  |  |
| IMPACT TEST                     | NO                                       |  |  |  |  |  |  |  |  |

| SURFACE TREATMENT (PAINTING & INSULATION) |                 |  |  |  |  |  |  |  |  |
|-------------------------------------------|-----------------|--|--|--|--|--|--|--|--|
| INTERNAL (SHELL/ROOF/BOTTOM)              | YES/YES/YES     |  |  |  |  |  |  |  |  |
| EXTERNAL (SHELL/ROOF/BOTTOM/STRUCTURE)    | YES/YES/YES/YES |  |  |  |  |  |  |  |  |
| INSULATION                                | NO              |  |  |  |  |  |  |  |  |

| MATERIAL                        |                                                           |  |  |  |  |  |  |  |  |
|---------------------------------|-----------------------------------------------------------|--|--|--|--|--|--|--|--|
| ROOF/SHELL/REINF. PAD           | SA283-C                                                   |  |  |  |  |  |  |  |  |
| BOTTOM/ANNUAL PLATE/WIND GIRDER | SA283-C/SA283-C/A36                                       |  |  |  |  |  |  |  |  |
| STRUCTURE/TOP ANGLE             | S137                                                      |  |  |  |  |  |  |  |  |
| NOZZLE NECK(PLATE/PIPE)         | SA283-C/A-106GrB                                          |  |  |  |  |  |  |  |  |
| FLANGE(PLATE/FORGED)            | SA283-C/A-105                                             |  |  |  |  |  |  |  |  |
| EXTERNAL (BOLTS /NUTS)          | A 193-B7M / A 194-20M (Hot Dip Galvanizing or Dichromate) |  |  |  |  |  |  |  |  |
| GASKET                          | Note 7(PTFE for manhole gasket material)                  |  |  |  |  |  |  |  |  |
| ANCHOR BOLT                     | F1554 Gr.36                                               |  |  |  |  |  |  |  |  |
| FITTINGS                        | A 234 WPB                                                 |  |  |  |  |  |  |  |  |
| NAME PLATE BRACKET / NAME PLATE | A 283 Gr. C / A 240 316 L                                 |  |  |  |  |  |  |  |  |
| INTERNAL (BOLTS /NUTS)          | A 193-B7M / A 194-20M                                     |  |  |  |  |  |  |  |  |
| FIXED INTERNALS                 | A 106 Gr. B / A 283 Gr. C                                 |  |  |  |  |  |  |  |  |
| FOAM AND WATER COOLING SYSTEM   | N/A                                                       |  |  |  |  |  |  |  |  |

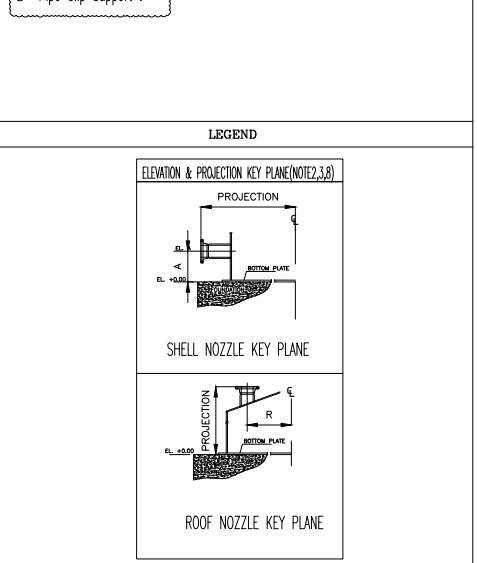
| LOADING DATA                  |                 |  |  |  |  |  |  |  |  |
|-------------------------------|-----------------|--|--|--|--|--|--|--|--|
| EMPTY WEIGHT                  | 50.5 TON        |  |  |  |  |  |  |  |  |
| HYDROTEST WEIGHT              | 1312 TON        |  |  |  |  |  |  |  |  |
| OPERATING WEIGHT              | 1092 TON        |  |  |  |  |  |  |  |  |
| WIND SHEAR                    | 456 KN          |  |  |  |  |  |  |  |  |
| WIND MOMENT                   | 2683 KN.m       |  |  |  |  |  |  |  |  |
| SEISMIC SHEAR                 | 1964 KN         |  |  |  |  |  |  |  |  |
| SEISMIC MOMENT RING WALL/SLAB | 6920/10791 KN.m |  |  |  |  |  |  |  |  |

| REV. | DATE      | BY  | DESCRIPTION                         | CHECKED | DATE | BY | DESCRIPTION |
|------|-----------|-----|-------------------------------------|---------|------|----|-------------|
| V01  | DEC. 2024 | APC | idril M.E. M.FAKHARIAN M.SADREGHIAN | **      |      |    |             |
| V00  | NOV. 2024 | IPA | idril M.E. M.FAKHARIAN M.SADREGHIAN | **      |      |    |             |

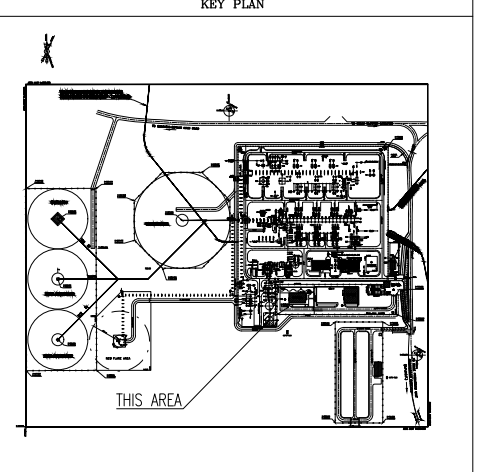
|                                                                                                                                           |      |                                                                                                                                                                                         |  |                                     |      |
|-------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------|------|
| PROJECT NAME:                                                                                                                             |      | BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES<br>GAS & GAS-CONDENSATE PIPELINES                                                                                                         |  |                                     |      |
| PROJECT NO.:                                                                                                                              |      | 971020                                                                                                                                                                                  |  |                                     |      |
| EPC CONTRACTOR:                                                                                                                           |      | EPD/EPC CONTRACTOR (GC):                                                                                                                                                                |  |                                     |      |
| <br>HIRGAN ENERGY - DESIGN & INSPECTION<br>COMPANIES |      | <br><br>PEDCO |  | PETROIRAN<br>DEVELOPMENT<br>COMPANY |      |
| DRAWING TITLE:                                                                                                                            |      |                                                                                                                                                                                         |  |                                     |      |
|                                                                                                                                           |      | GENERAL ARRANGEMENT FOR FIRE WATER TANKS (TK-2301 A)                                                                                                                                    |  |                                     |      |
| SCALE                                                                                                                                     | SIZE | DRAWING NO.                                                                                                                                                                             |  | SHEET NO.                           | REV. |
| 1:110                                                                                                                                     | A3   | BK-GCS-IDR-120-ME-DW-0007                                                                                                                                                               |  | 1 OF 2                              | V01  |

- NOTES
- ALL DIMENSION ARE IN mm, UNLESS OTHERWISE SPECIFIED.
  - ALL ELEVATIONS ARE MEASURED FROM TOP OF FOUNDATION.
  - SHELL AND ROOF NOZZLES PROJECTIONS ARE MEASURED FROM OUTSIDE SHELL BODY OR ROOF PLATE.
  - ROOF-SHELL JUNCTION IS ABOVE OF TOP ANGLE.
  - MINIMUM ANCHOR BOLT YIELD STRESS Sy = 248 MPa.
  - ANCHOR BOLTS TO BE STRADDLED NORTH/SOUTH CL UNLESS OTHERWISE NOTED.
  - GASKET PROPERTIES: ASBESTOS FREE SPW, WOR, RF, 4.5MM, SPIRAL-316L, CENTERING RING: C.S./INNER RING:316L/FILLER:GRAPHITE, ASME B16.20 FOR PIPING COMPONENT AND FLAT GASKET MATERIAL (WHICH CONFORMED TO "API650") SHALL BE NEOPRENE RUBBER SHEET CONSIDERED FOR ROOF AND SHELL MANHOLES.
  - SHELL NOZZLE PROJECTION HAS BEEN SPECIFIED FROM TANK CENTER LINE AND ROOF NOZZLE PROJECTION SHALL HAS BEEN SPECIFIED FROM UNDERSIDE OF BOTTOM PLATE.
  - DUE TO THE CLASH BETWEEN THE NOZZLES (M3) WITH THE RAFTER, IT IS NECESSARY TO MOVE THESE NOZZLES.
  - DELETED.
  - EXTERNAL AND INTERNAL SURFACE OF TANK WILL BE COATED IN ACCORDANCE WITH BK-GNRL-PEDCO-000-PI-SF-0006 & BK-GNRL-PEDCO-000-PI-SF-0007 RESPECTIVELY.
  - MANWAYS WILL BE SUPPLIED COMPLETE WITH BLIND FLANGE, EXTERNAL GRAB HANDLES, INTERNAL GRAB HANDLE AND LADDER RUNGS, NUTS,BOLTING, GASKET AND PROOF LOAD TEST DOWNS. DOWNS WILL BE PROOF LOAD TESTED ON THE VESSEL TO 1.5 X SAFE WORKING LOAD (SWL) AND WILL BE MARKED ACCORDINGLY.
  - INSTRUMENT AND PIPING NOZZLE FLANGES WILL BE IN ACCORDANCE WITH ASME B 16.5.
  - DELETED.
  - ALL NOZZLES CONNECTION WELD TO TANK WILL BE WITH FULL PENETRATION.
  - ON THE BOTTOM PLATE, A U-SHAPED CLIP IS WELDED TO HOLD & GUIDE THE INDICATOR STRAP OF THE FLOAT GAUGE.
  - WILL BE FINALIZED NEXT REVISION.
  - ALL ANCHOR BOLT/NUT SHALL BE HOT DIP GALVANIZED (BY OTHER).

- HOLD ITEM
- Allowable Nozzle Load.
  - Pipe Clip Support.



| REFERENCE DOCUMENT                                 | DRG. No.                        |
|----------------------------------------------------|---------------------------------|
| MECHANICAL DATA SHEETS FOR FIRE WATER STORAGE TANK | BK-GCS-PEDCO-120-ME-DW-0017-D05 |
| Mechanical Design Criteria                         | BK-GNRL-PEDCO-000-MR-DC-0001    |
| Specification for Painting                         | BK-GNRL-PEDCO-000-PI-SP-0006    |
| Specification for Insulation                       | BK-GNRL-PEDCO-000-PI-SP-0019    |
| Specification for Lining                           | BK-GNRL-PEDCO-000-PI-SP-0007    |



|                                                                                                                                                                                                                                                 |             |            |            |              |         |       |     |          |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|------------|--------------|---------|-------|-----|----------|---------|
|                                                                                                                                                                                                                                                 |             |            |            |              |         |       |     |          |         |
| ***                                                                                                                                                                                                                                             | *****       | ****       | ***.***    | ***          | ***.*** | ***   | *** | ***.***  | ***.*** |
| REV.                                                                                                                                                                                                                                            | DESCRIPTION | BY         | DATE       | BY           | DATE    |       |     |          |         |
|                                                                                                                                                                                                                                                 |             | CHECKED    |            | REV. APPR.   |         |       |     |          |         |
| <div></div> <div>THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH<br/>THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF<br/>N.I.S.O.C./ FIELDS</div> |             |            |            |              |         |       |     |          |         |
| BINAK OILFIELD DEVELOPMENT<br>SURFACE FACILITIES<br>GAS CPMRESSOR STATION                                                                                                                                                                       |             |            |            |              |         |       |     |          |         |
| DATE                                                                                                                                                                                                                                            | SCALE       | DRAWING BY | CHECKED BY | PROJECT ENG. |         |       |     |          |         |
| NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED                                                                                                                                                                                               |             |            |            |              |         |       |     |          |         |
| APPROVED FOR CONSTRUCTION                                                                                                                                                                                                                       |             |            |            | BY:          |         | DATE: |     |          |         |
| BUDGET REF.                                                                                                                                                                                                                                     | LOCATION    | SIZE       | CLASS      | SERIAL NO.   |         | SHEET |     | REVISION |         |
|                                                                                                                                                                                                                                                 |             |            |            |              |         |       |     |          |         |