

| Construction Areas |   |
|--------------------|---|
| CA00               | Area not in LEEDD scope                         |
| CA02               | CO2 Compression / Refrigeration (Machine House) |
| CA03               | Field Installation                              |
| CA05               | Pipe Rack                                       |
| CA41               | Drying Unit                                     |
| CA51               | Rectification Unit                              |
| CA61               | Tank Farm Unit                                  |
| CA63               | Ship Loading Unit                               |
| CA91               | Cooling Water Unit                              |

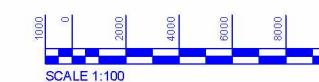
| Equipments Process Area |                                    |
|-------------------------|------------------------------------|
| C601                    | CO2 Compressor Unit                |
| C602                    | Refrigerant Compressor Unit        |
| E605                    | Cooling Water Cooler (Air Cooler)  |
| E606                    | CO2 Gas Pre-Cooler                 |
| E607                    | Regeneration Gas Heater            |
| E608                    | CO2 Liquifier                      |
| E609                    | CO2 Reboiler                       |
| E610                    | CO2 Condenser                      |
| E611                    | CO2 Subcooler                      |
| E612                    | Vent Gas Heater                    |
| E613                    | Refrigerant Condenser (Air Cooler) |
| E614                    | Interstage Cooler                  |
| E615                    | After Cooler                       |
| E617                    | Export CO2 Gas Heater              |
| F601                    | Particle Filter                    |
| P601 AIR                | Condensate Pump                    |
| P605 AIRB               | Cooling Water Pump                 |
| P606 AIR                | Refrigerant Pump                   |
| S601                    | Vent Gas Blower                    |
| T601                    | CO2 Column                         |
| V601                    | Compressor Knock Out Drum          |
| V602                    | Water Separator                    |
| V603 AIR                | Driver                             |
| V604                    | Suction Drum                       |
| V605                    | Refrigerant Receiver               |
| V606                    | Refrigerant Economizer             |
| V607                    | Cooling Water Expansion Vessel     |
| Y603                    | CO2 Ship Loading Station           |
| Y604                    | Oil Unit                           |
| Y605                    | Air Purger                         |

Notes:

- Reference Drawing &AE-0000-L-ZP 1012(EN), &AE-0000-L-ZP 1013(EN), &AE-0000-L-ZP 1014(EN) Equipment Arrangement CO2 Liquefaction Side Views
- Air cooler size E613 according vendor offer (Famet)
- Size of compressor house currently defined by vendor compressor typicals (Siemens), to be finally defined after vendor selection

LEGENDA

**1** Nummering bouwwerken in B01



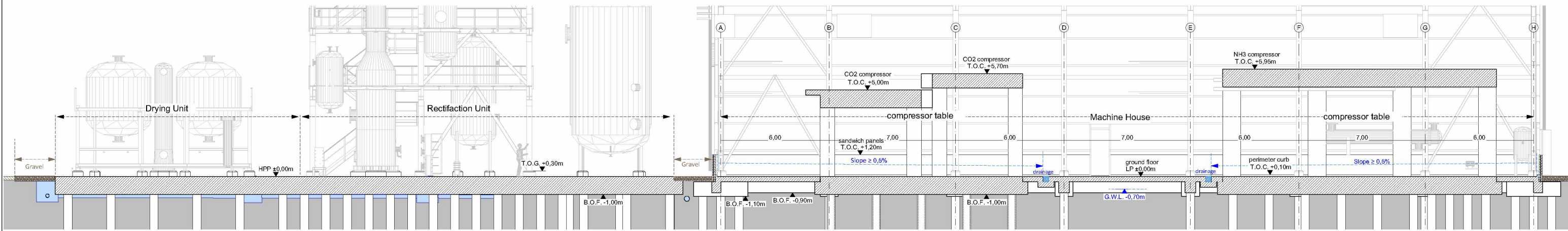
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|------------|---------|----------|----------|----------|-------------|
| 10.08.2022 | REVISED |          |          |          | First Draft |

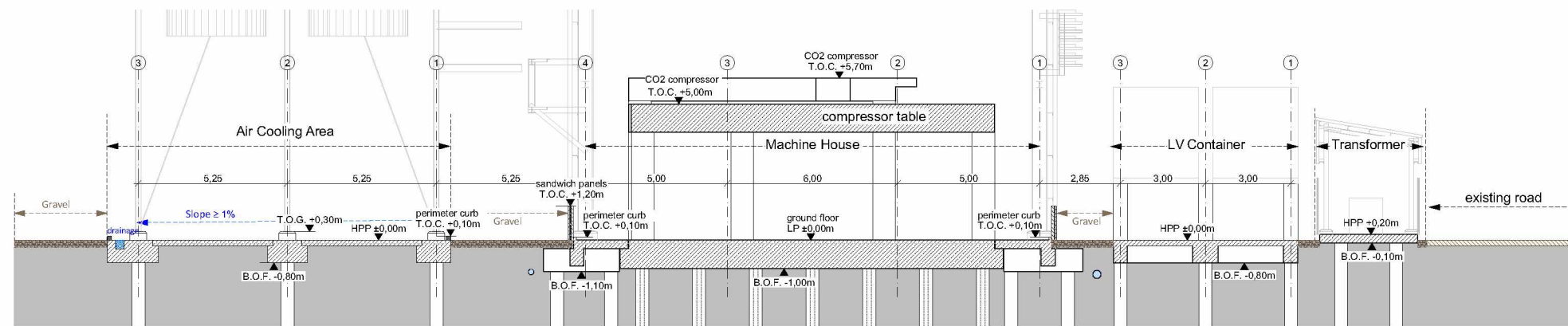
| Carbon Capture Storage Plant, Sluiskil |          |
|--|----------|
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| LINE PROJECT CODE                      | 030801   |
| CLIENT PROJECT NO.                     | 1001     |
| CLIENT PROJECT CODE                    | CACTUS   |

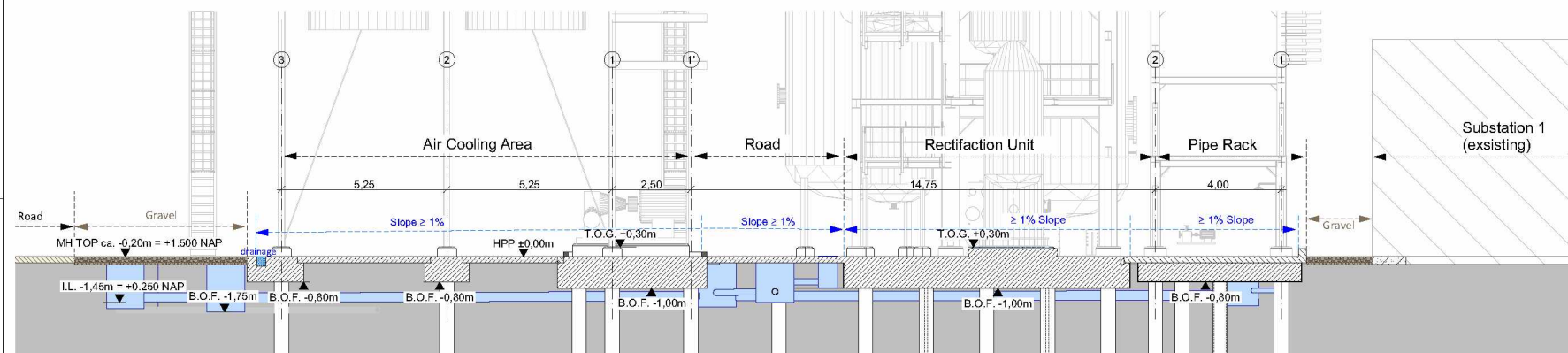
| Equipment Arrangement Drawing<br>CO2 Liquefaction<br>Overview |                        |
|---|------------------------|
| SCALE   | 1:100                  |
| LINE NO.  | &AE-0000-L-ZP 1011(EN) |
| WORK NO.  | 16471-P-07-00010       |
| SHEET   | 1                      |
| SHEETS  | 1                      |



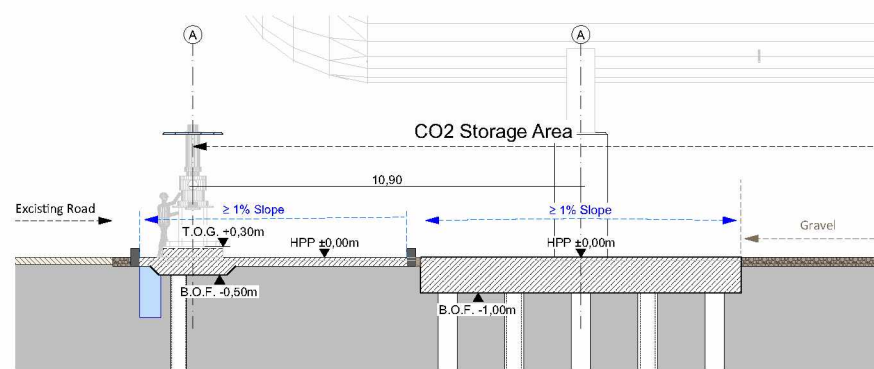
Section 1-1



Section 2-2



Section 3-3



Section 4-4

Legend

- HPP High Point Paving
- HPG High Point Gravel
- NAP Normal Amsterdam Pegel
- M+H Manhole
- T/B Top/ Bottom
- TOC Top of Concrete
- TOG Top of Grout
- BOS Bottom of Steel
- BOF Bottom of Foundation
- I.L. Invert Level
- N.C. Normally Closed
- Existing Road
- Existing Underground Facilities
- Existing Buildings
- Concrete Pavement
- Asphalt Road
- Walkway (Concrete Paver)
- Gravel
- Foundation Slab/ Beam
- Curb
- Concrete Pedestals (incl. Grouting)
- Precast Concrete Manhole
- Catch Basin
- Drainage Gutter
- Manhole
- Slope

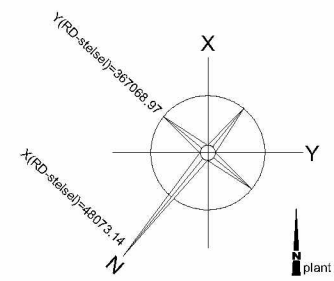
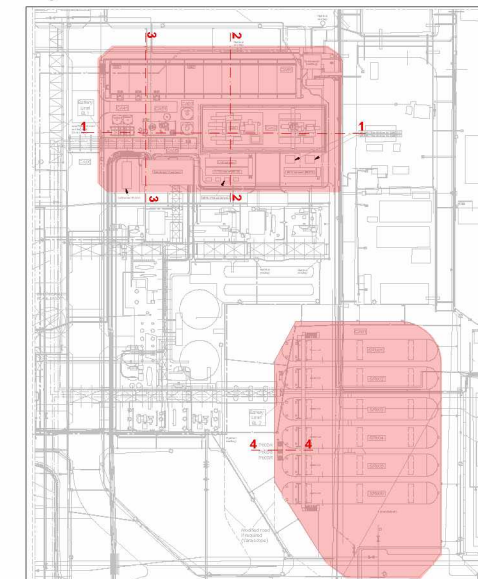


**GWL Ground Water Level**  
 assumption:  
 existing grade elevation is supposed to be between +1,40m and +1,50m NAP.  
 Tei-In elevation (I.L.) is supposed to be equal or lower then +0,25 NAP.

Reference Drawings

| Doc. No.                | Title            |
|-------------------------|------------------|
| &AE 0000 L-ZP 1001 (EN) | Overall Plotplan |

Key Plan with Section Views



Basic Level YARA = 1.700 + NAP = +/- 0.000 Plant Reference Level (HHP)  
 Groundwater Level = 1.000+ NAP = -0.700 Plant Reference Level (HHP)

| DATE       | BY  | CHKD | REVISION | APPROVED | DESCRIPTION     |
|------------|-----|------|----------|----------|-----------------|
| 21.11.2022 | S12 |      | 5.1.2    | 5.1.2    | Issued for Feed |

Carbon Capture Storage Plant, Sluiskil

**Section views - CO2 Liquefaction & Storage**

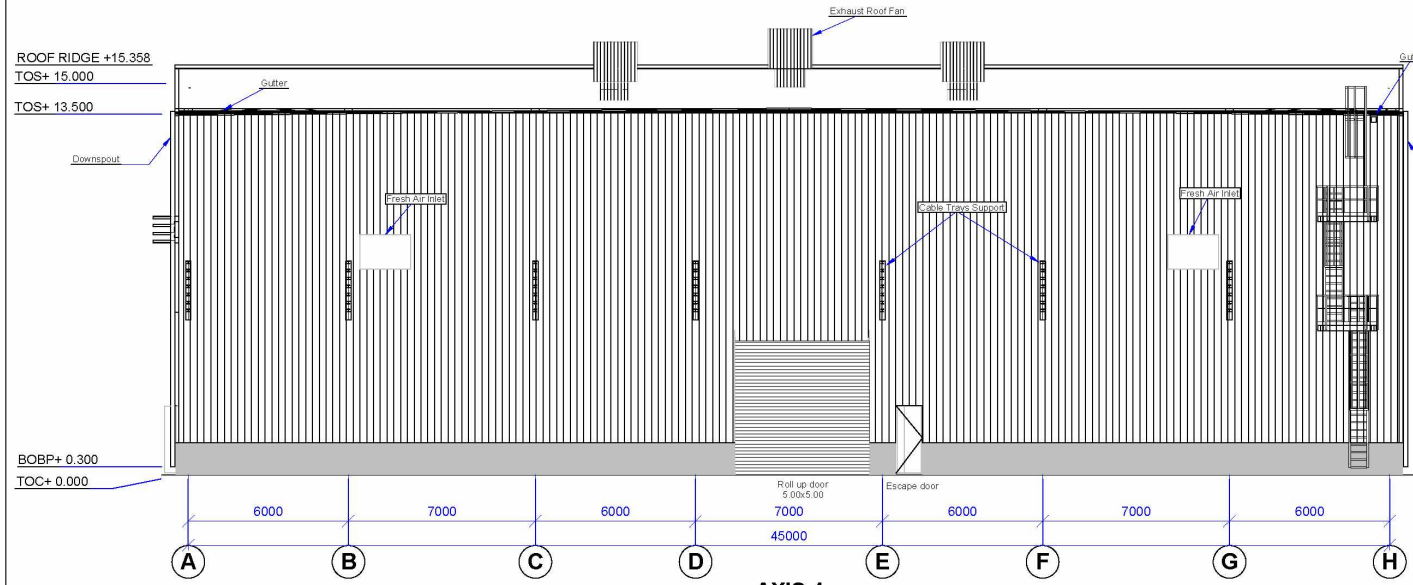
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 SHEET: 1 of 1



# 1. Compressorgebouw

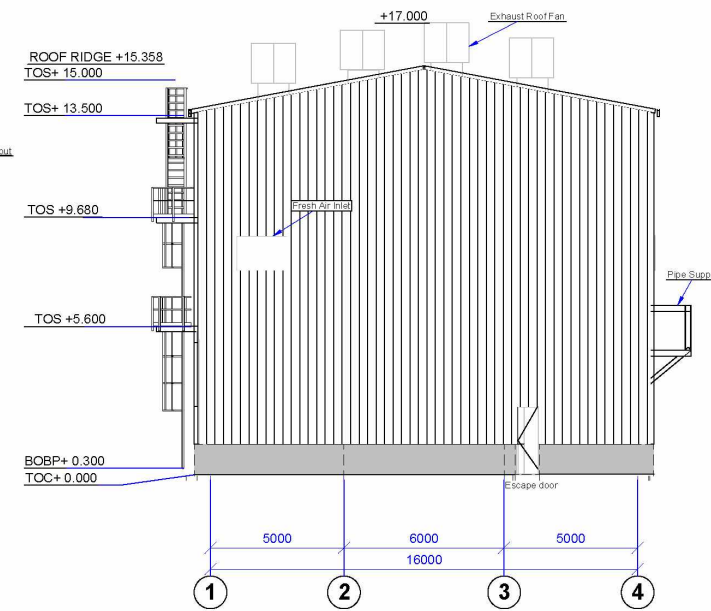
## AXIS 1

Looking North  
SCALE: 1:100 mm



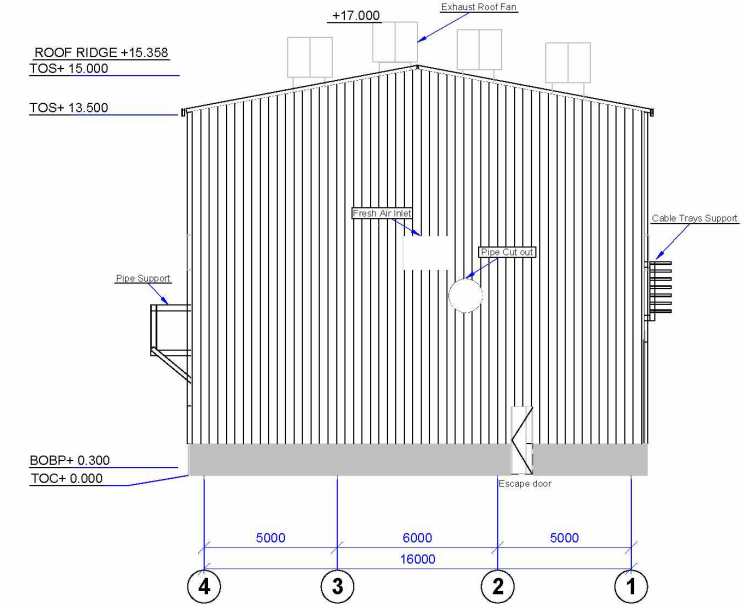
## ROW H

Looking West  
SCALE: 1:100 mm



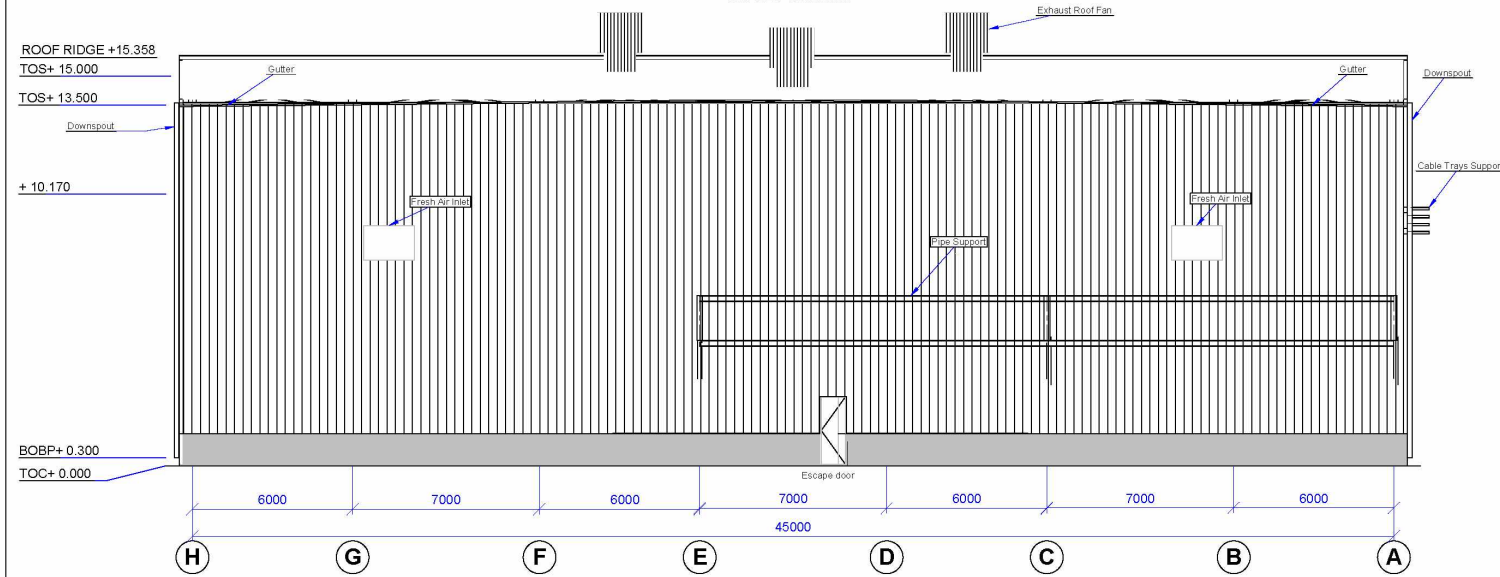
## ROW A

Looking East  
SCALE: 1:100 mm



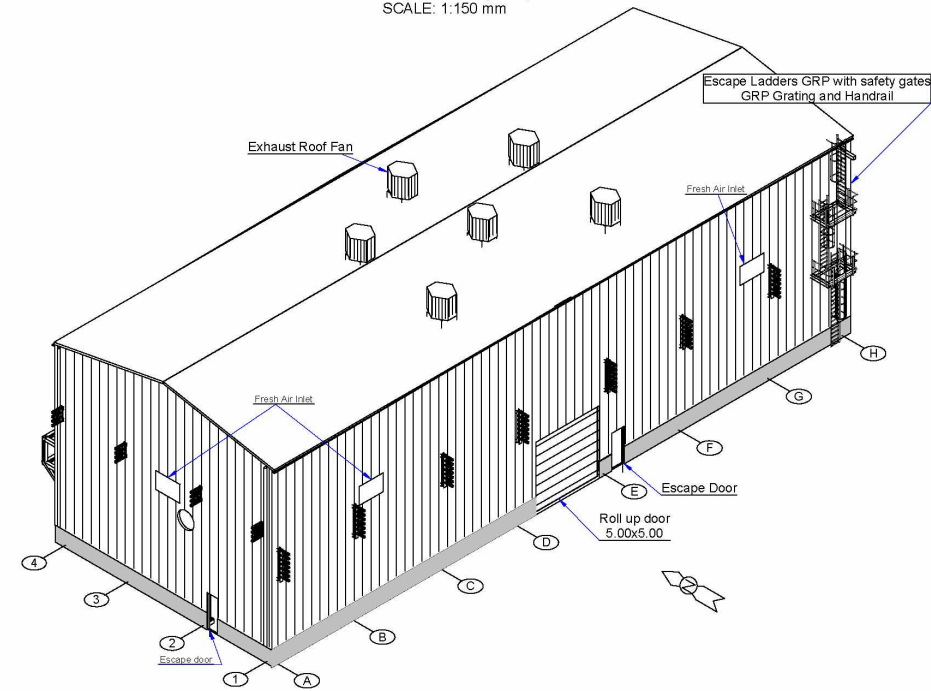
## AXIS 4

Looking South  
SCALE: 1:100 mm



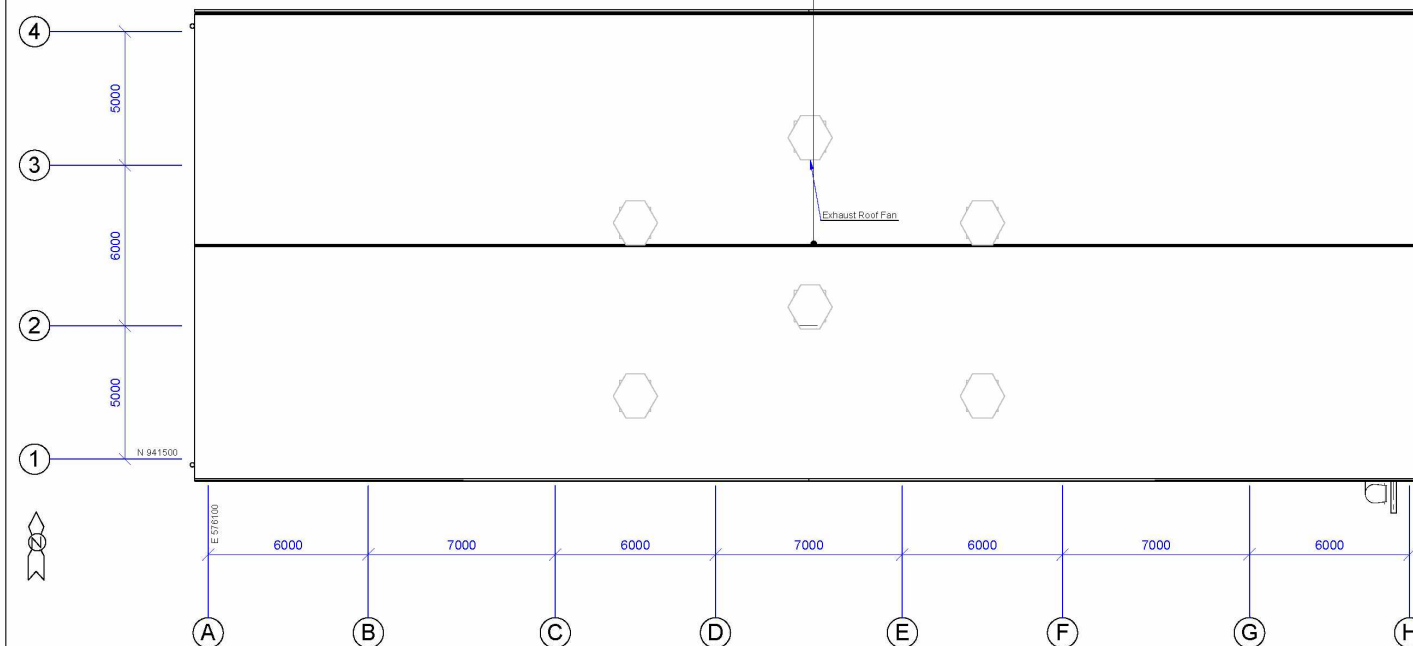
## ISOMETRIC VIEW

Looking Northeast (Down)  
SCALE: 1:150 mm



## ROOF VIEW

Looking Plan  
SCALE: 1:100 mm



- Remarks:
1. All dimensions are in mm, levels & co-ordinates are in meter.
  2. All elevations are top of steel unless noted otherwise.
  3. This is a feed document, and no construction shall be made based on this drawing.
  4. All layout, coordinates and dimensions are indicative and shall be confirmed during detail engineering.
  5. Railing height is 1200 mm in floors and staircase above 13 m above grad
  6. Structure type: corrosion protected metal building, framing system with braces in longitudinal sides
  7. Foundation: supported by reinforced concrete pile caps supported on piles
  8. Wall cladding: insulated sandwich panels with noise protection ~ 33 dB and U value < 0,24 W/m²K
  9. Roof cladding: insulated sandwich panels with noise protection ~ 33 dB and U value < 0,24 W/m²K
  10. Dewatering: Gutter and downspouts made of stainless steel, downspouts are connected to sewer system
  11. Ventilation system: Mechanical forced system for providing of required air exchange rate and for compensation of heat emission
  12. Fall prevention on roof: Cable-based system with fall arrest systems Type C (EN 795)
  13. Doors: insulated metal doors (~ 33 dB)
  14. Gate: electrical roll-up gate (27 dB)

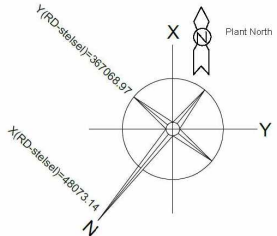
Abbreviations:  
TOS Top of Steel  
BOBP Bottom of Base Plate  
TOC Top of Concrete

References:  
&AE 0000 N-SP 1001 (EN) Steel Structure and Civil Design Basis & General Description  
YARA No 16471-Y85-00001

0542FA5480 2001 N-CS 1001 (EN) Statical Pre-Calculation for Machine House  
YARA No 16471-Y16-00003

&AE 2001 N-ZC 1002 (EN) General Layout Drawings-Machine House SG 0201 Elevation and Section Views  
YARA No 16471-Y58-00005

&AE 2001-C-ZA 1001 (EN) General Arrangement Drawing - Foundations Piling - CO2 Liquefaction  
YARA No 16471-Y56-00007



+/-0,000 = 1.700 m N.A.P.

| NO. | DATE     | STATUS | DESIGN | REVISIONS | APPROVED | DESCRIPTION     |
|-----|----------|--------|--------|-----------|----------|-----------------|
| 1.0 | 18.11.22 | ISSUE  |        |           |          | Issued for FEED |

TEAM RESPONSIBILITY

|                   |          |                     |       |
|-------------------|----------|---------------------|-------|
| PROJECT NO.       | 37104819 | CLIENT PROJECT NO.  | 16471 |
| UNDERPROJECT CODE |          | CLIENT PROJECT CODE |       |

GENERAL LAYOUT DRAWINGS  
MACHINE HOUSE SG 0201  
Facade Views

|       |      |       |      |                 |       |    |
|-------|------|-------|------|-----------------|-------|----|
| SCALE | SIZE | UNITS | DATE | PROJECT NO.     | SHEET | OF |
|       |      |       |      | 16471-Y58-00005 | 1     | 1  |

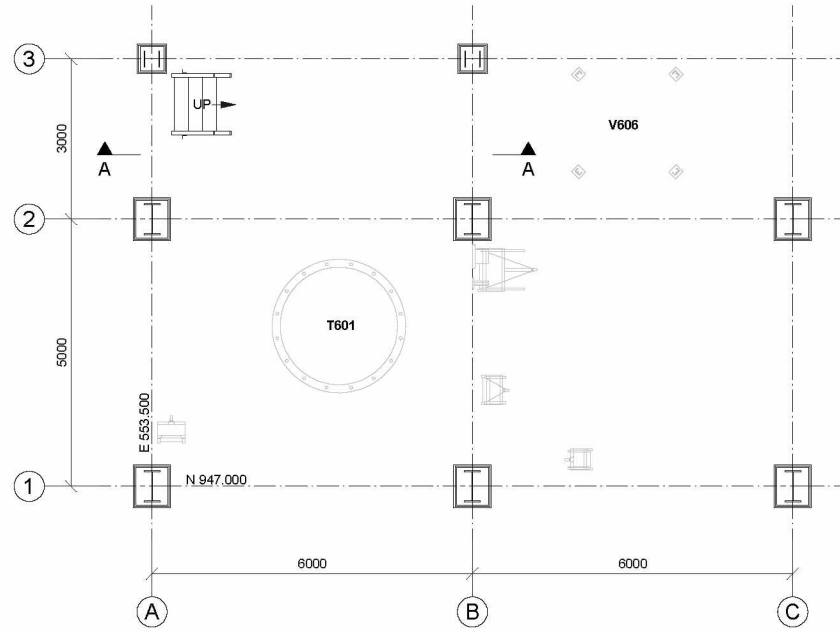




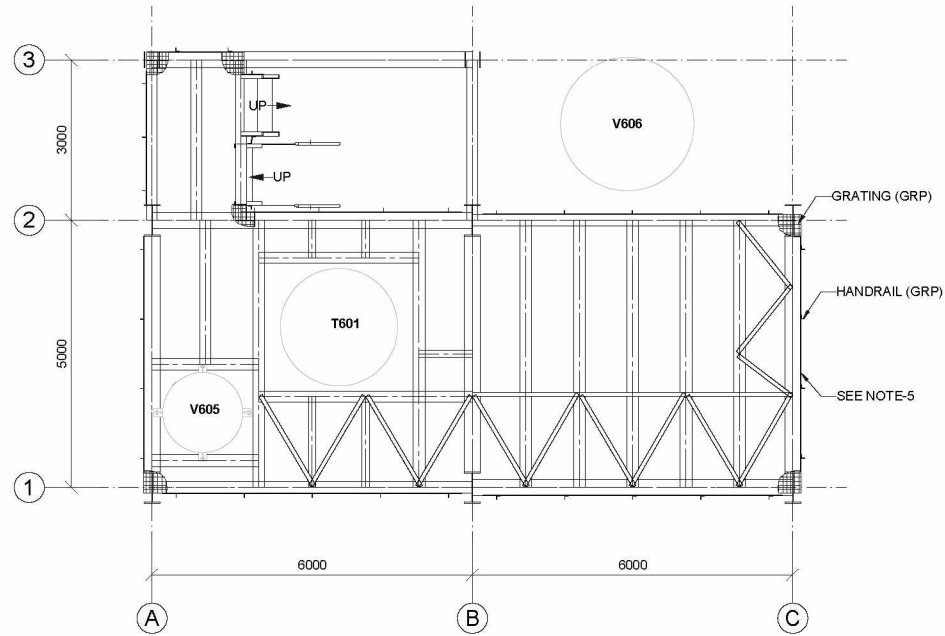
# 2. CO<sub>2</sub> Liquifaction

## PLAN AT EL+0.300 BOBP

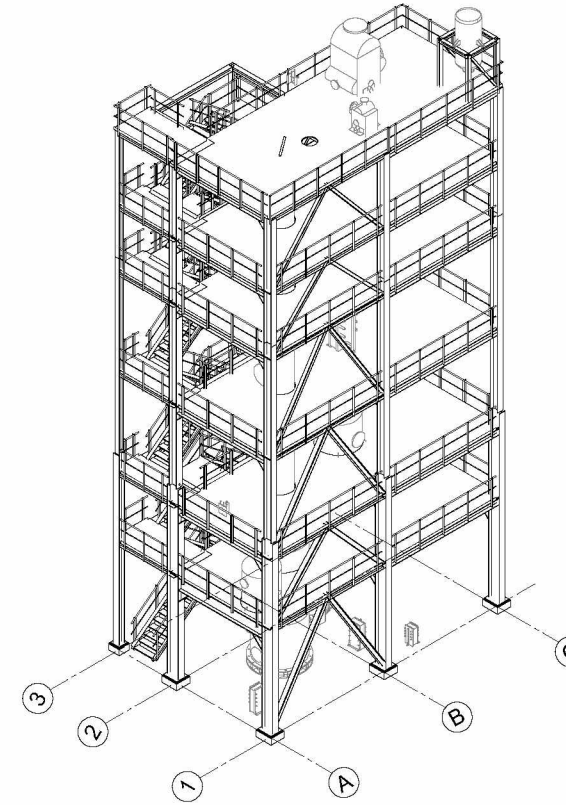
FOR SECTION A-A REFER DWG. NO. &AE 2001 N-ZB 1003 (EN)



## PLAN AT EL+5.000 TOS



## ISOMETRIC VIEW



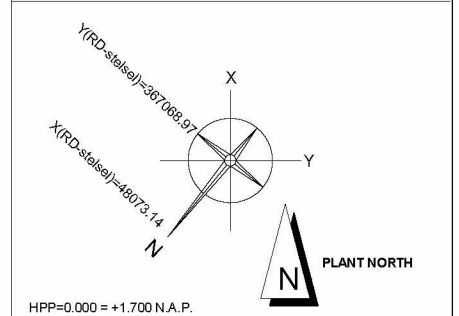
- NOTES:**
1. ALL DIMENSIONS ARE IN MM, LEVELS & CO-ORDINATES ARE IN METER.
  2. ALL ELEVATIONS ARE TOP OF STEEL UNLESS NOTED OTHERWISE.
  3. THIS IS A FEED DOCUMENT AND NO CONSTRUCTION SHALL BE MADE BASED ON THIS DRAWING.
  4. ALL LAYOUT, CO-ORDINATES AND DIMENSIONS ARE INDICATIVE AND SHALL BE CONFIRMED DURING DETAIL ENGINEERING.
  5. SECOND ESCAPE WAY VIA LADDER (GRP) WITH SAFETY GATE IS FORESEEN NEXT TO ROW C, POSITION WILL BE DEFINED IN DETAIL ENGINEERING.

### REFERENCES

| LINDE DOC. NO/<br>OWNER DOC. NO.                       | TITLE  |
|--|--|
| &AE 2001 N-ZB 1002 (EN) /<br>16471-Y56-00013           | STEEL STRUCTURE LAYOUT DRAWING<br>STRUCTURE SK5101<br>LEVEL VIEWS PART-2 |
| &AE 2001 N-ZB 1003 (EN) /<br>16471-Y56-00014           | STEEL STRUCTURE LAYOUT DRAWING<br>STRUCTURE SK5101<br>ELEVATIONS         |
| 0542FA4650 2001 N-CS<br>1002 (EN) /<br>16471-Y16-00009 | STRUCTURAL PRE-CALCULATION FOR<br>EQUIPMENT STRUCTURE SK 5101            |
| &AE 2001 C-ZA 1001 (EN) /<br>16471-Y56-00007           | GENERAL ARRANGEMENT DRAWING<br>FOUNDATION / PILING<br>CO2 LIQUIFICATION  |
| &AE 0000 N-SP 1001 (EN) /<br>16471-Y85-00001           | STEEL STRUCTURE AND CIVIL DESIGN<br>BASIS & GENERAL DESCRIPTION          |

### LEGENDS

- TOS TOP OF STEEL
- BOBP BOTTOM OF BASE PLATE
- HPP HIGH PAVING POINT
- N.A.P NORMAAL AMSTERDAMS PEIL
- ◁ MOMENT CONNECTION



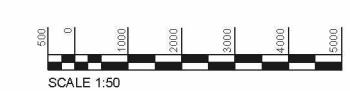
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|------------|--------|----------|---------|-------------|-----------------|
| 18 11 2022 | ISSUE  |          |         | G. T. J. de | ISSUED FOR FEED |

Carbon Capture Storage Plant, Sluisdijk

|                               |                               |
|-------------------------------|-------------------------------|
| LINDE PROJECT NO.<br>37102018 | CLIENT PROJECT NO.<br>10071   |
| LINDE PROJECT CODE<br>C04081  | CLIENT PROJECT CODE<br>CACTUS |

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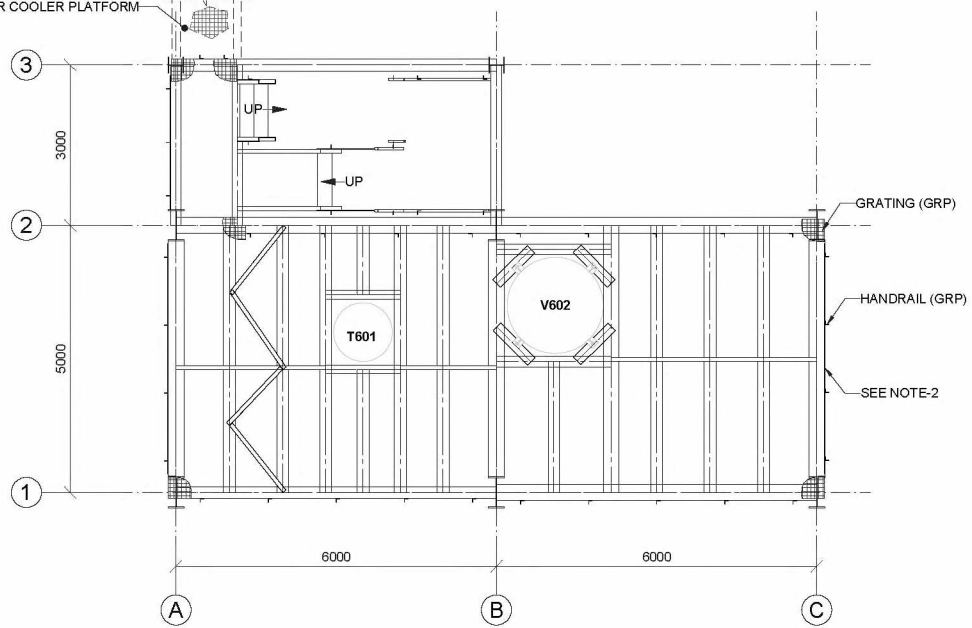
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|                |            | TRAKUCO NO.<br>16471-Y56-00004            | REV. 0     | 1           |



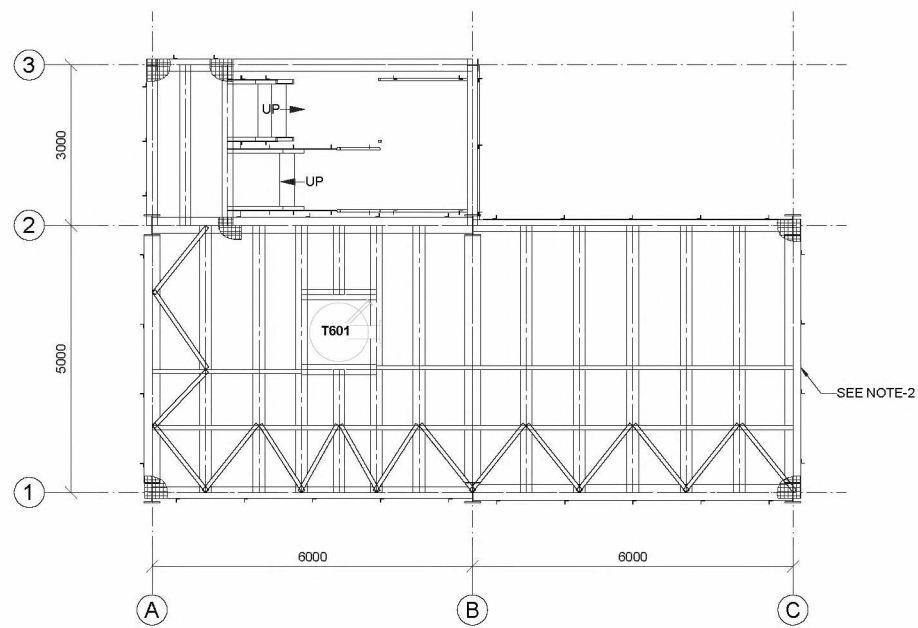


TRANSITION WALKWAY TO AIR COOLER PLATFORM

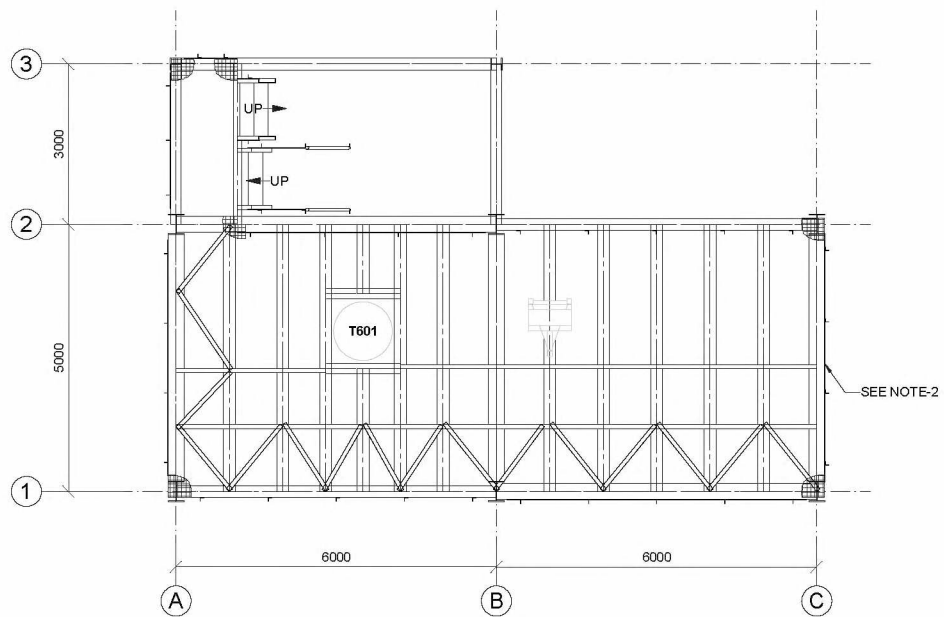
**PLAN AT EL+8.200 TOS**



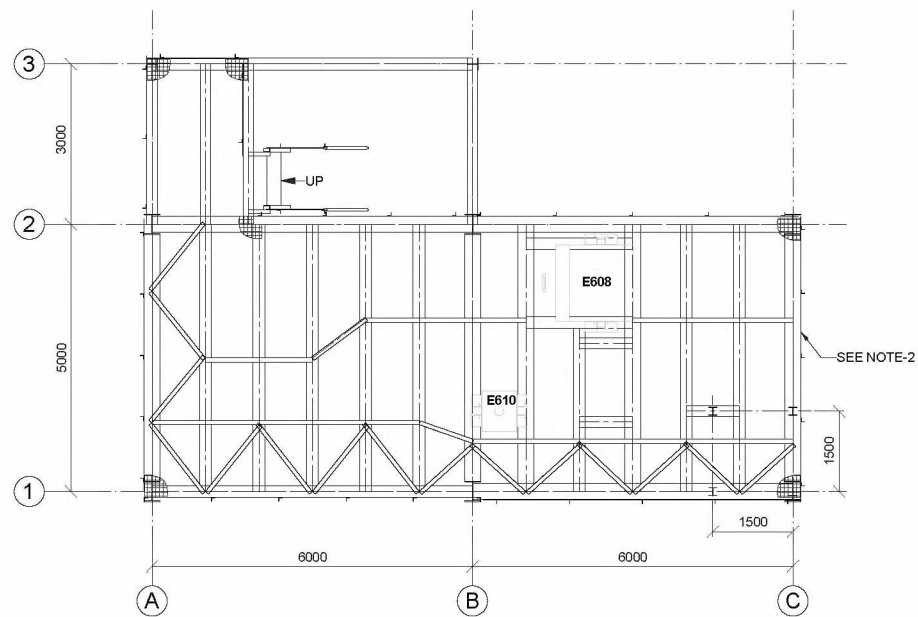
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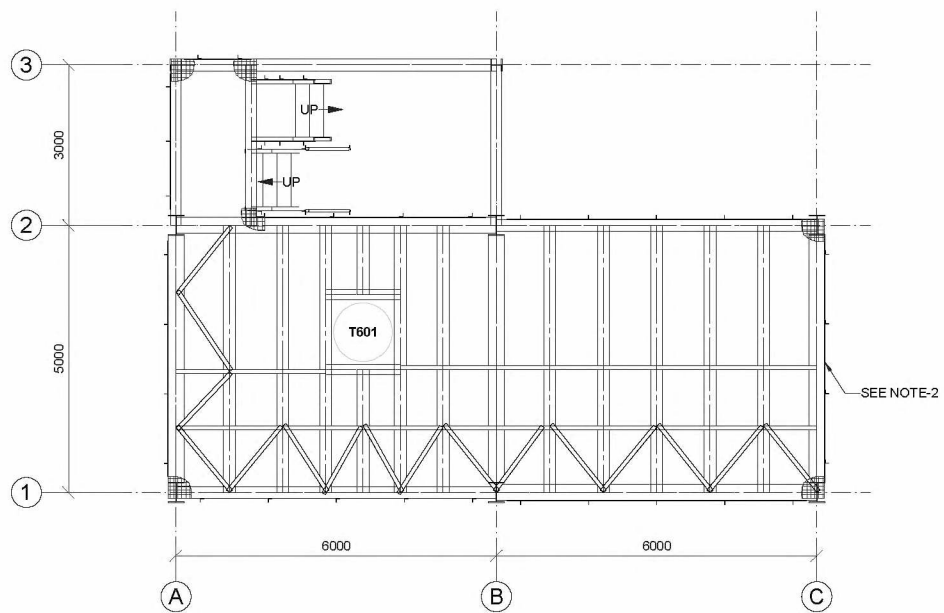
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**PLAN AT EL+23.800 TOS**

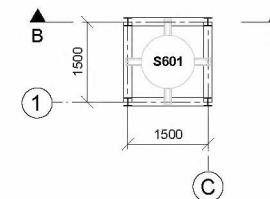


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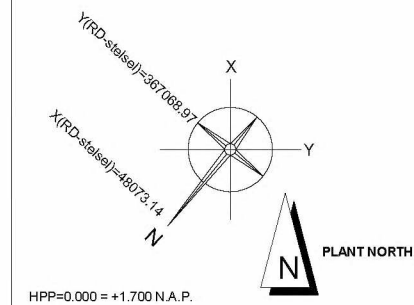


**PLAN AT EL+26.000 TOS**

FOR SECTION B-B REFER DWG. NO. &AE 2001 N-ZB 1003 (EN)



- NOTES:**
1. FOR GENERAL NOTES, LEGENDS AND REFERENCE DRAWINGS REFER DRAWING NO. &AE 2001 N-ZB 1001 (EN).
  2. SECOND ESCAPE WAY VIA LADDER (GRP) WITH SAFETY GATE IS FORESEEN NEXT TO ROW C, POSITION WILL BE DEFINED IN DETAIL ENGINEERING.



HPP=0.000 = +1.700 N.A.P.

| NO. | DATE       | STATUS             | DESIGN  | REVISION | APPROVED | REVISION           |
|-----|------------|--------------------|---------|----------|----------|--------------------|
| 1.0 | 18.11.2022 | ISSUED FOR PERMITS | ES-1-22 |          |          | ISSUED FOR PERMITS |

Carbon Capture Storage Plant, Sluisdijk

**Linde**

CLIENT PROJECT NO: 37102018 CLIENT PROJECT NO: 18971  
 CLIENT PROJECT CODE: C04088 CLIENT PROJECT CODE: CACTUS

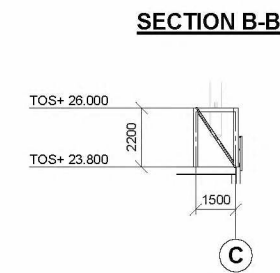
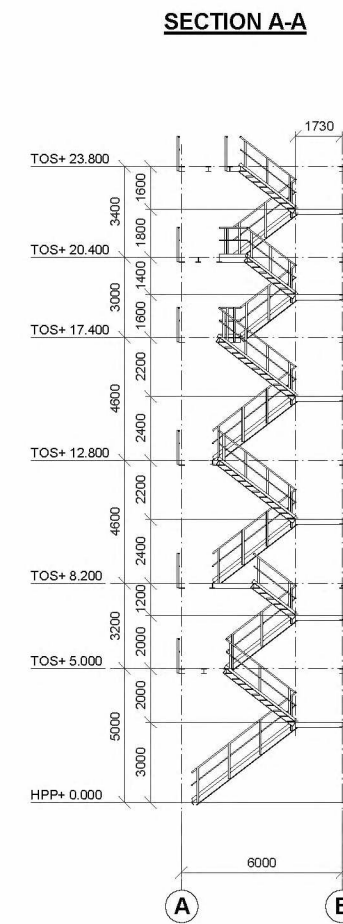
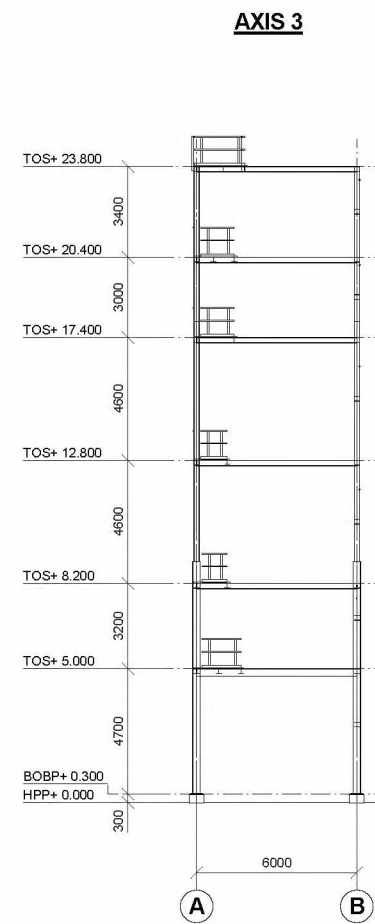
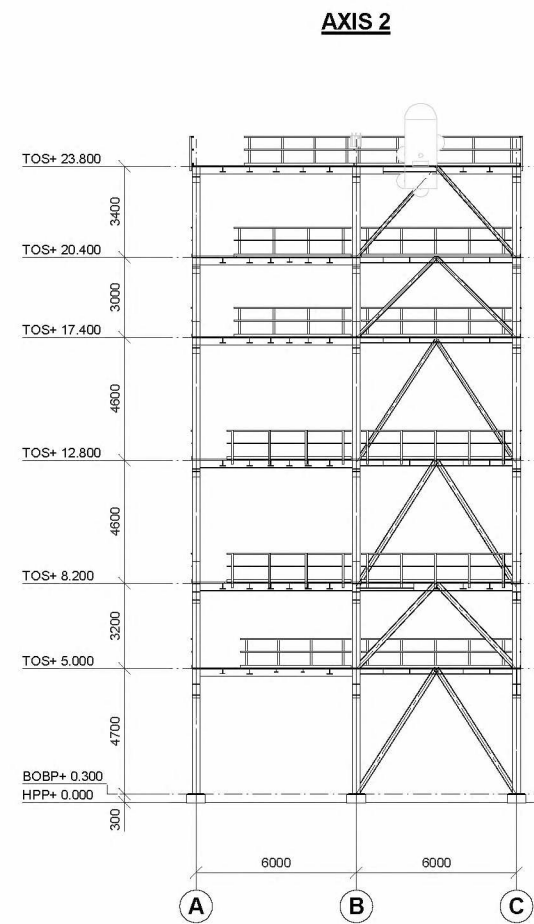
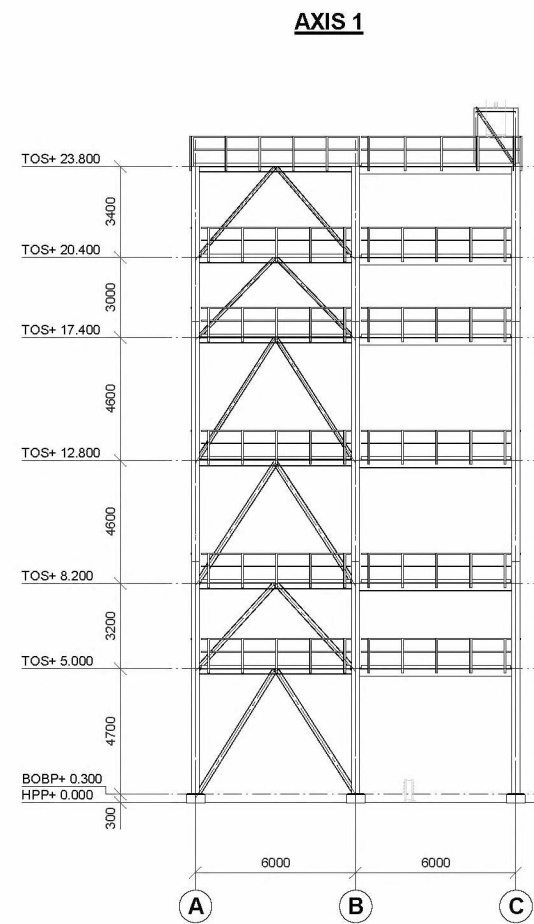
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**TITLE** STEEL STRUCTURE LAYOUT DRAWING  
 STRUCTURE SK5101  
 LEVEL VIEWS PART-2

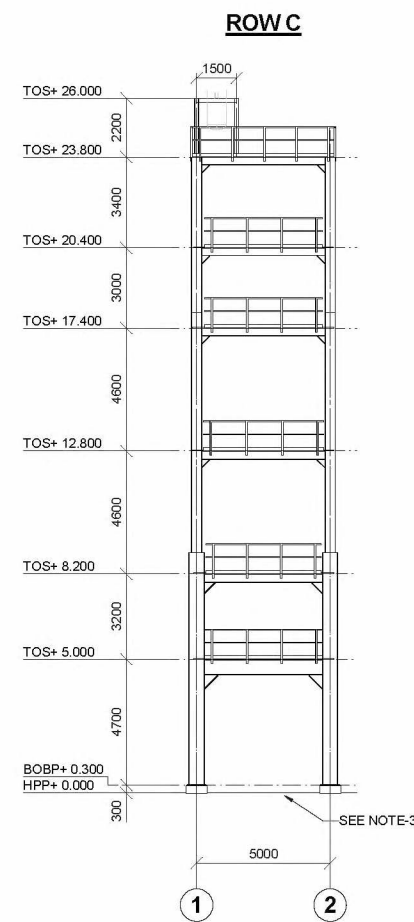
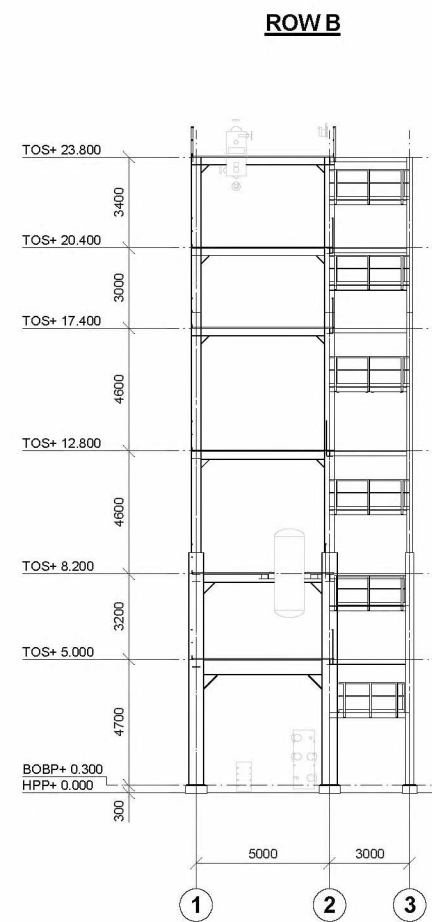
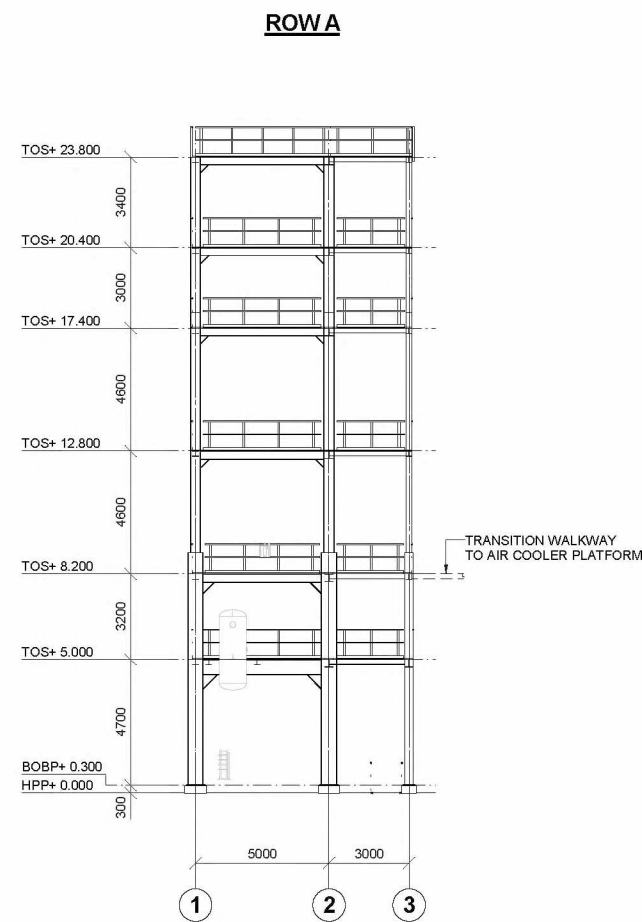
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 DWG NO: &AE 2001 N-ZB 1002 (EN)  
 DRAWING NO: 16471-Y26-00013







- NOTES:**
- FOR GENERAL NOTES, LEGENDS AND REFERENCE DRAWINGS REFER DRAWING NO. &AE 2001 N-ZB 1001 (EN).
  - RAILING HEIGHT IS 1.2 m IN FLOORS AND STAIR CASE ABOVE 13 m FROM GRADE.
  - SECOND ESCAPE WAY VIA LADDER (GRP) WITH SAFETY GATE IS FORESEEN NEXT TO ROW C, POSITION WILL BE DEFINED IN DETAIL ENGINEERING.



HPP=0.000 = +1.700 N.A.P.



| DATE       | STATUS | DESIGN   | ENGINEER | REVISIONS       | APPROVED | REVISIONS | REVISIONS |
|------------|--------|----------|----------|-----------------|----------|-----------|-----------|
| 18.11.2022 | ISSUE  | 5.1.2.4b | 5.1.2.4b | ISSUED FOR FEED |          |           |           |

Carbon Capture Storage Plant, Sluisli

**Linde**

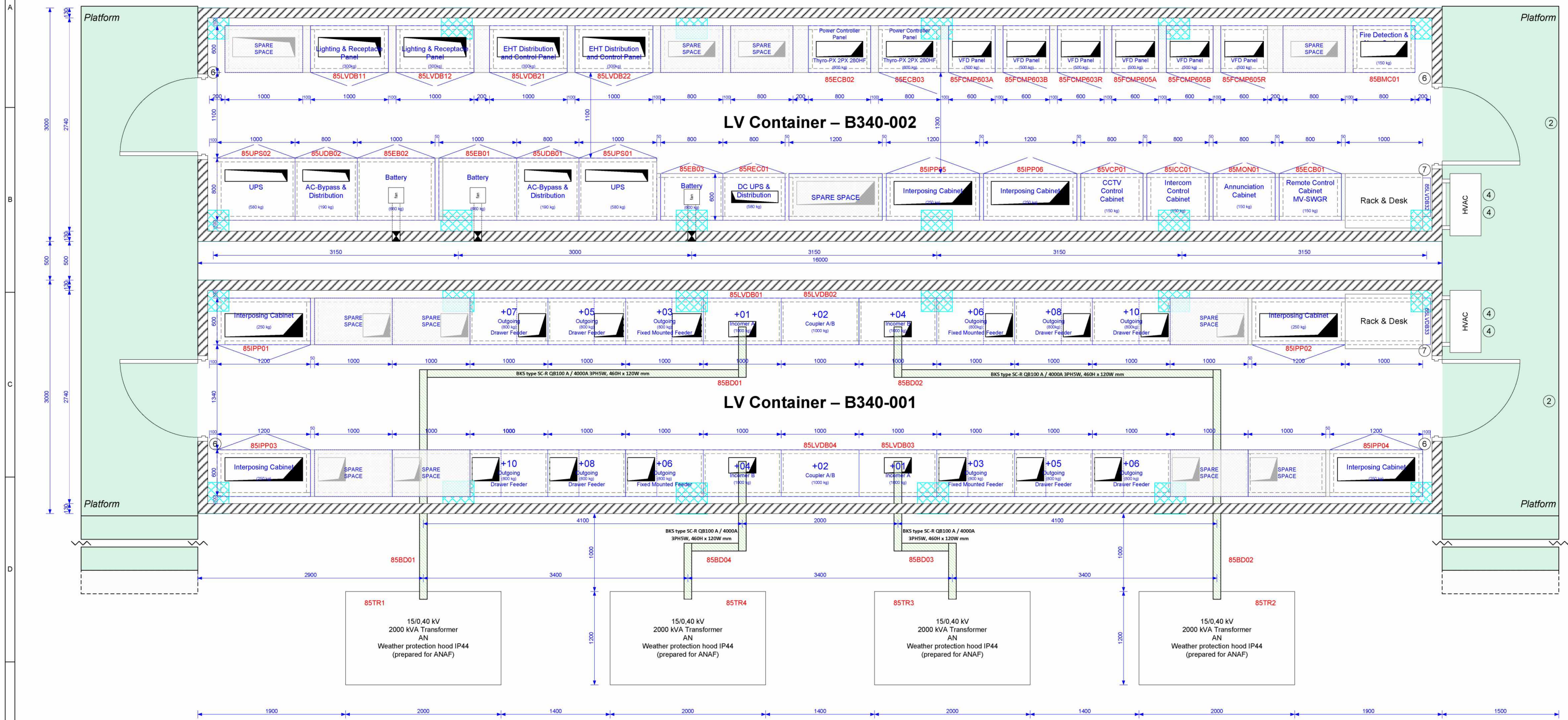
CLIENT PROJECT NO: 37104218  
CLIENT PROJECT NO: 10071  
CLIENT PROJECT CODE: CACTUS  
CLIENT PROJECT CODE: CACTUS

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TITLE: **STEEL STRUCTURE LAYOUT DRAWING**  
**STRUCTURE SK5101**  
**ELEVATIONS**

SCALE: 1:100  
SHEET: 1 OF 1

# 3. LV onderstations



For container details see vendor drawings, for guard rail details see steel structure drawings.

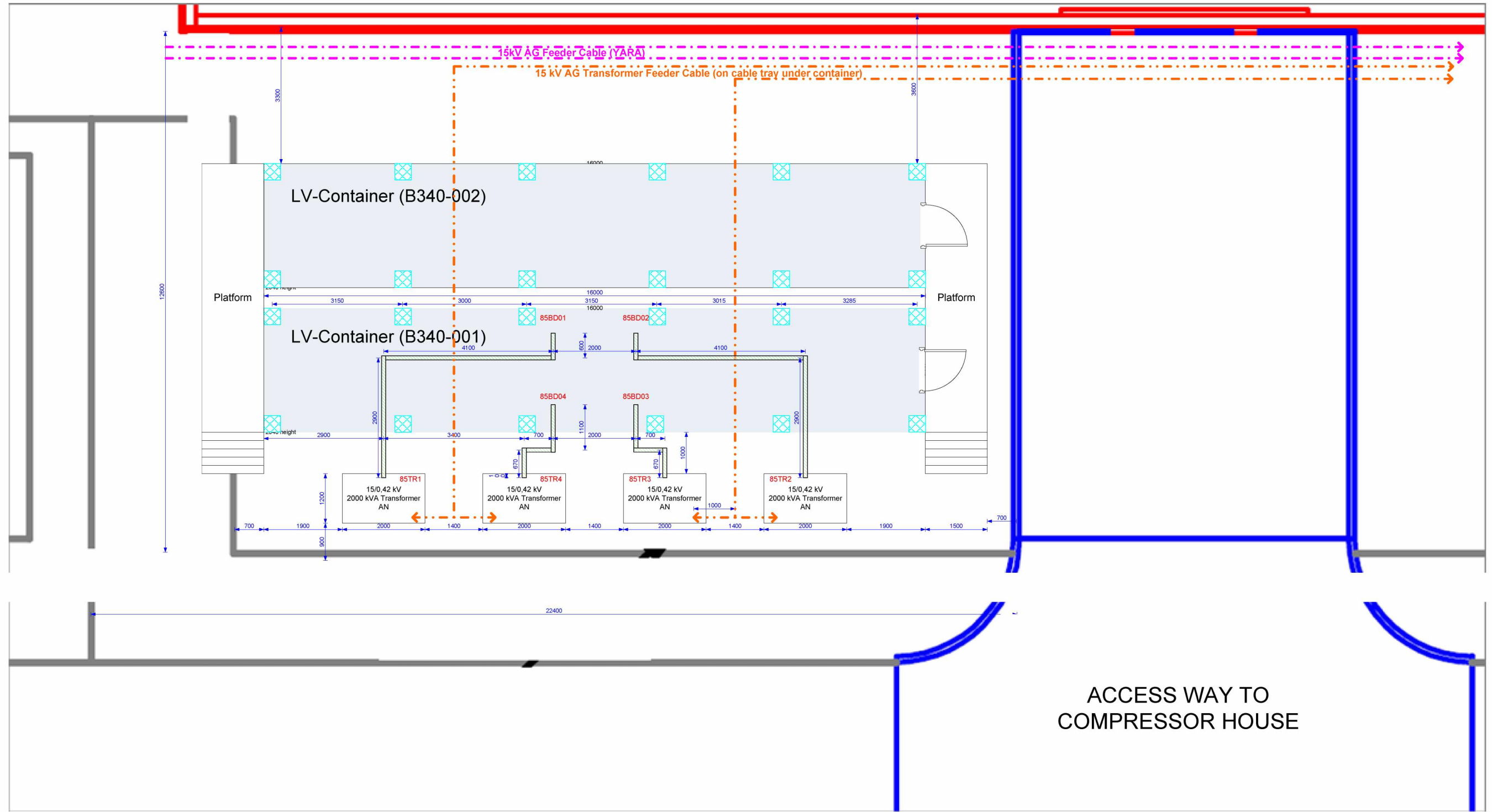
- Legend:**
- ⊕ grounding connection to external grounding grid
  - ⊕ socket 230V / light switch
  - ☹ lighting fixture 1x36W
  - ☹ lighting fixture 2x36W
  - ☹ emergency lighting fixture 2x36W battery buffered
  - ☹ emergency exit light battery buffered
  - ☹ telephone socket
  - ☹ floor opening / wall opening
  - ☹ Basement Channel / Baseframe Construction

- Notes:**
- ① floor shall be perforated for natural ventilation of transformer (if applicable)
  - ② handrail shall be removable and one side shall be forklift accessible
  - ③ door opening depends on forklift accessibility
  - ④ HVAC units shall be redundant and removable for transportation (if necessary)
  - ⑤ Protection Cover for „Cable Cellar“
  - ⑥ Wall mounted Fire Extinguisher
  - ⑦ Emergency hand lamp, battery buffered with wall holder

| 2.0  | 16.09.2022 | IFU                              | ENE      |                                      |              |          | Issued for use |
|--|------------|----------------------------------|----------|--------------------------------------|--------------|----------|----------------|
| 1.0  | 15.10.2021 | IFU                              | ENE      |                                      |              |          | Issued for use |
| ISSUE  | DATE       | STATUS                           | DIVISION | ORIGINATOR                           | REVIEWED     | APPROVED | DESCRIPTION    |
| PLANT DESCRIPTION  |            |                                  |          |                                      |              |          |                |
| <b>Carbon Capture Storage Plant, Sluiskil</b>  |            |                                  |          |                                      |              |          |                |
|  |            |                                  |          |                                      |              |          |                |
| LINDE PROJECT NO.<br><b>3710 A3T8</b>  |            |                                  |          | CLIENT PROJECT NO.<br><b>16471</b>   |              |          |                |
| LINDE PROJECT CODE<br><b>Sluiskil</b>  |            |                                  |          | CLIENT PROJECT CODE<br><b>CACTUS</b> |              |          |                |
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| TITLE  |            |                                  |          |                                      |              |          |                |
| <b>General Layout Plan Containerized Substation<br/>LV Container B340-001 &amp; B340-002</b>   |            |                                  |          |                                      |              |          |                |
| SCALE  | SIZE       | FILE NAME                        | DOC. NO. | LINDE: &AE-0000-E-ZA 4EM.0701 (EN)   | SHEET SHEETS |          |                |
| 1:25   | A1         | &AE 0000 E-ZA 4EM 0701 (EN) 1647 |          | CLIENT: 16471-E58-00001              | REV. 01      | 2 OF 3   |                |



# COMPRESSOR HOUSE



ACCESS WAY TO  
COMPRESSOR HOUSE

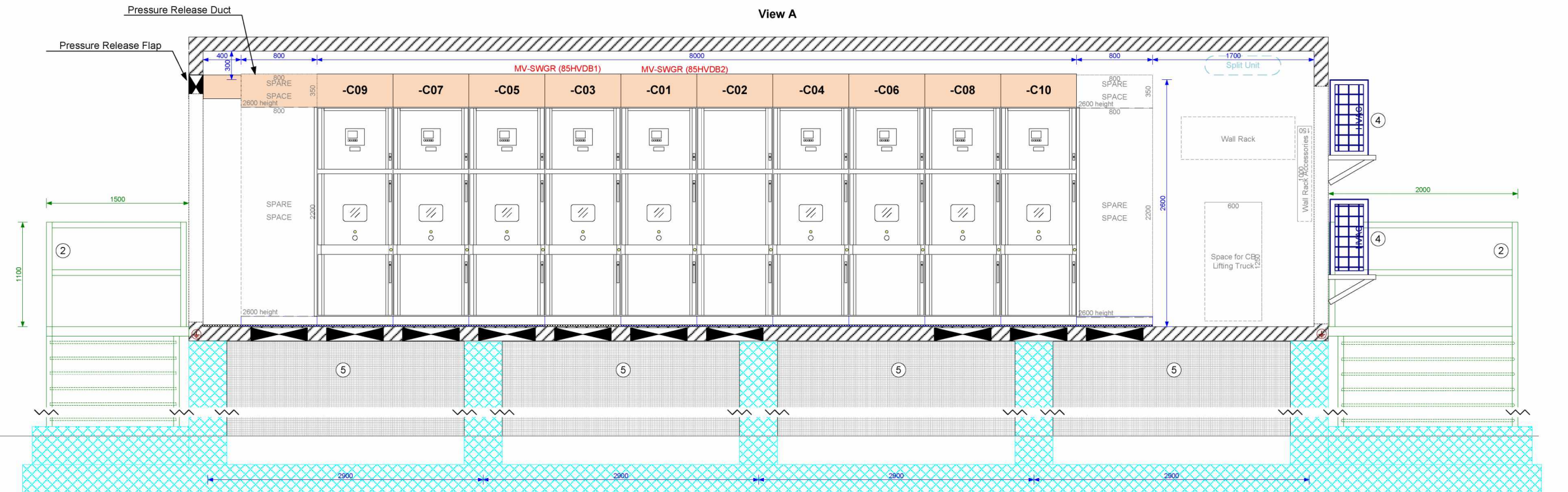
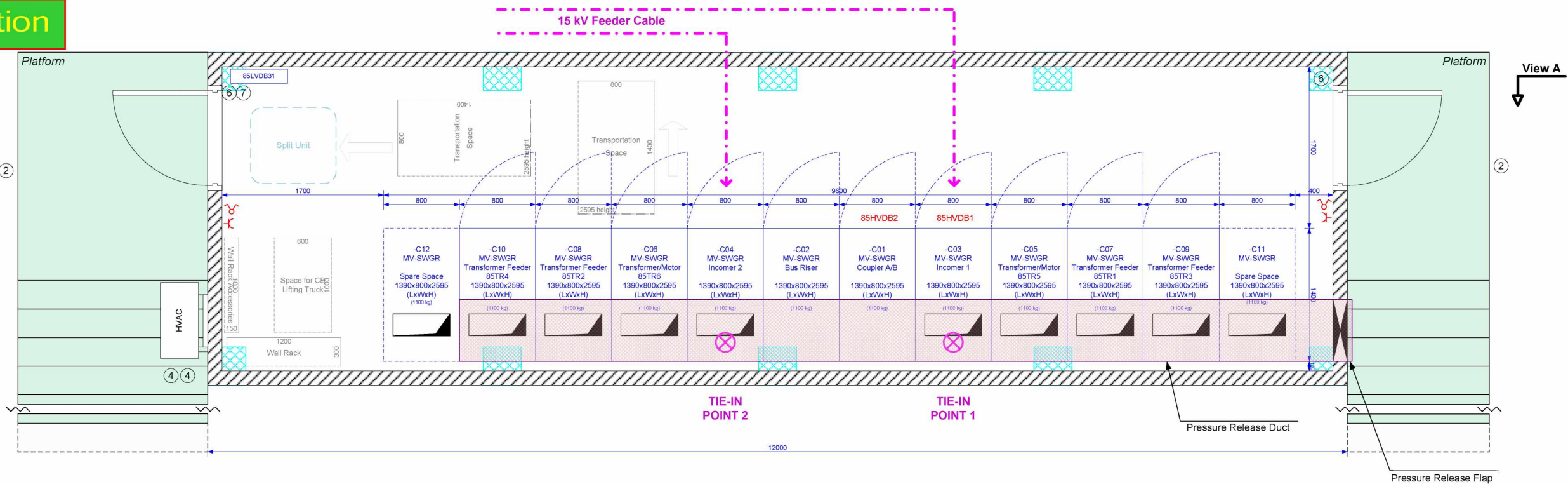
For container details see vendor drawings, for guard rail details see steel structure drawings.

- Legend:**
- grounding connection to external grounding grid
  - socket 230V / light switch
  - lighting fixture 1x36W
  - lighting fixture 2x36W
  - emergency lighting fixture 2x36W battery buffered
  - emergency exit light battery buffered
  - telephone socket
  - floor opening / wall opening
  - Basement Channel / Baseframe Construction

- Notes:**
- 1 floor shall be perforated for natural ventilation of transformer (if applicable)
  - 2 handrail shall be removable and one side shall be forklift accessible
  - 3 door opening depends on forklift accessibility
  - 4 HVAC units shall be redundant and removable for transportation (if necessary)
  - 5 Protection Cover for „Cable Cellar“
  - 6 Wall mounted Fire Extinguisher
  - 7 Emergency hand lamp, battery buffered with wall holder

| 2.0  | 16.09.2022 | IFU                              | ENE      |                                      |              |          | Issued for use |
|--|------------|----------------------------------|----------|--------------------------------------|--------------|----------|----------------|
| 1.0  | 15.10.2021 | IFU                              | ENE      |                                      |              |          | Issued for use |
| ISSUE  | DATE       | STATUS                           | DIVISION | ORIGINATOR                           | REVIEWED     | APPROVED | DESCRIPTION    |
| PLANT DESCRIPTION  |            |                                  |          |                                      |              |          |                |
| <b>Carbon Capture Storage Plant, Sluiskil</b>  |            |                                  |          |                                      |              |          |                |
|  |            |                                  |          |                                      |              |          |                |
| LINDE PROJECT NO.<br><b>3710 A3T8</b>  |            |                                  |          | CLIENT PROJECT NO.<br><b>16471</b>   |              |          |                |
| LINDE PROJECT CODE<br><b>Sluiskil</b>  |            |                                  |          | CLIENT PROJECT CODE<br><b>CACTUS</b> |              |          |                |
| CONFIDENTIAL © Linde GmbH – The reproduction, distribution and utilization of this document as well as the communication of its contents to others without express authorization are prohibited. Offenders will be held liable for the payment of damages. All rights reserved in the event of the grant of a patent, utility model or design. |            |                                  |          |                                      |              |          |                |
| TITLE  |            |                                  |          |                                      |              |          |                |
| <b>General Layout Plan Containerized Substation<br/>Overall Allocation LV-Containerized Substation</b>   |            |                                  |          |                                      |              |          |                |
| SCALE  | SIZE       | FILE NAME                        | DOC. NO. | LINDE: &AE-0000-E-ZA 4EM.0701 (EN)   | SHEET SHEETS |          |                |
| 1:25   | A1         | 8.AE.0000.E-ZA.4EM.0701 (EN).iss |          | CLIENT: 16471-E58-00001              | REV. 01      | 3        | OF 3           |

# 4. HV onderstation



- For container details see vendor drawings, for guard rail details see steel structure drawings.
- Legend:**
- ⊕ grounding connection to external grounding grid
  - ⊕ socket 230V / light switch
  - ☹ lighting fixture 1x36W
  - ☹ lighting fixture 2x36W
  - ☹ emergency lighting fixture 2x36W battery buffered
  - ☹ emergency exit light battery buffered
  - ☹ telephone socket
  - ☹ floor opening / wall opening
  - ⊔ Basement Channel / Baseframe Construction
- Notes:**
- ① floor shall be perforated for natural ventilation of transformer (if applicable)
  - ② handrail shall be removable and one side shall be forklift accessible
  - ③ door opening depends on forklift accessibility
  - ④ HVAC units shall be redundant and removable for transportation (if necessary)
  - ⑤ Protection Cover for „Cable Cellar“
  - ⑥ Wall mounted Fire Extinguisher
  - ⑦ Emergency hand lamp, battery buffered with wall holder

| 2.0  | 16.09.2022 | IFU                             | ENE      |                                      |                             |          | Issued for use |
|--|------------|---------------------------------|----------|--------------------------------------|-----------------------------|----------|----------------|
| 1.0  | 15.10.2021 | IFU                             | ENE      |                                      |                             |          | Issued for use |
| ISSUE  | DATE       | STATUS                          | DIVISION | ORIGINATOR                           | REVIEWED                    | APPROVED | DESCRIPTION    |
| PLANT DESCRIPTION  |            |                                 |          |                                      |                             |          |                |
| <b>Carbon Capture Storage Plant, Sluiskil</b>  |            |                                 |          |                                      |                             |          |                |
|  |            |                                 |          |                                      |                             |          |                |
| LINDE PROJECT NO.<br><b>3710 A3T8</b>  |            |                                 |          | CLIENT PROJECT NO.<br><b>16471</b>   |                             |          |                |
| LINDE PROJECT CODE<br><b>Sluiskil</b>  |            |                                 |          | CLIENT PROJECT CODE<br><b>CACTUS</b> |                             |          |                |
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| TITLE  |            |                                 |          |                                      |                             |          |                |
| <b>General Layout Plan Containerized Substation<br/>MV Container B341</b>  |            |                                 |          |                                      |                             |          |                |
| SCALE  | SIZE       | FILE NAME                       | DOC. NO. | LINDE:                               | &AE-0000-E-ZA 4EM.0701 (EN) |          | SHEET SHEETS   |
| 1:25   | A1         | BAE 0000 E-ZA 4EM 0701 (EN) v02 |          | CLIENT:                              | 16471-E58-00001             | REV. 01  | 1 OF 3         |





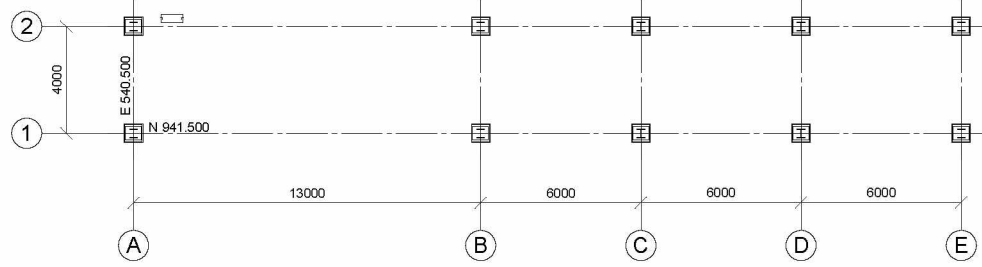
## 6. Luchtkoelers



# 7. Piperacks

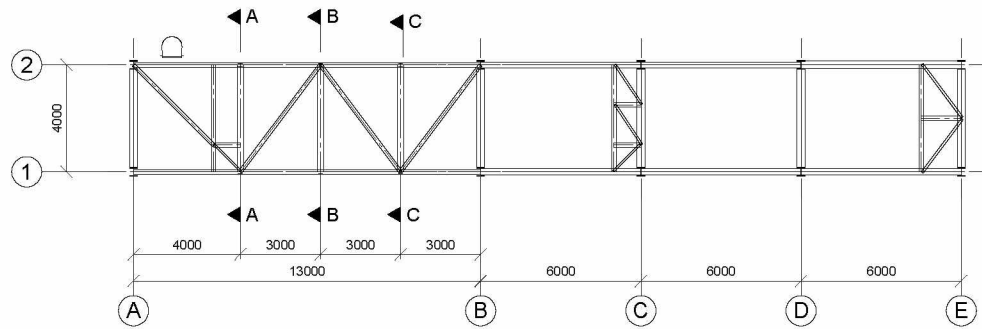


**PLAN AT EL+0.300 BOBP**

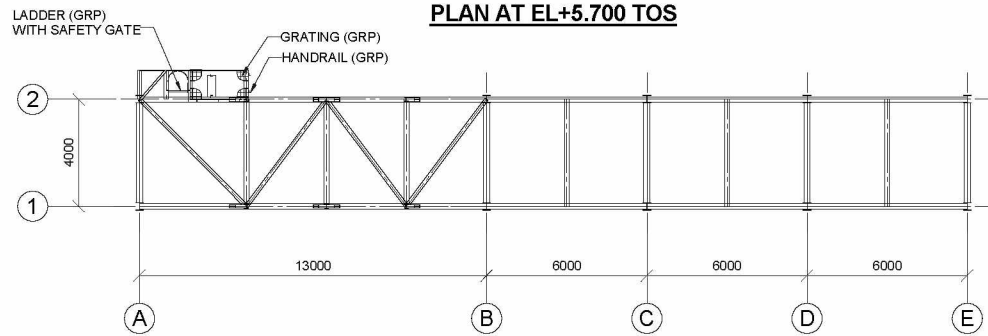


**PLAN AT EL+3.200 TOS**

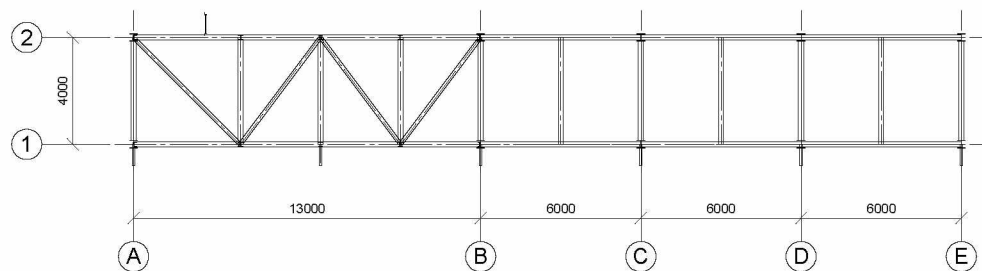
FOR SECTION A-A, B-B & C-C REFER DWG NO. &AE 2001 N-ZD 1002 (EN)



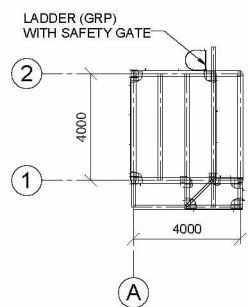
**PLAN AT EL+5.700 TOS**



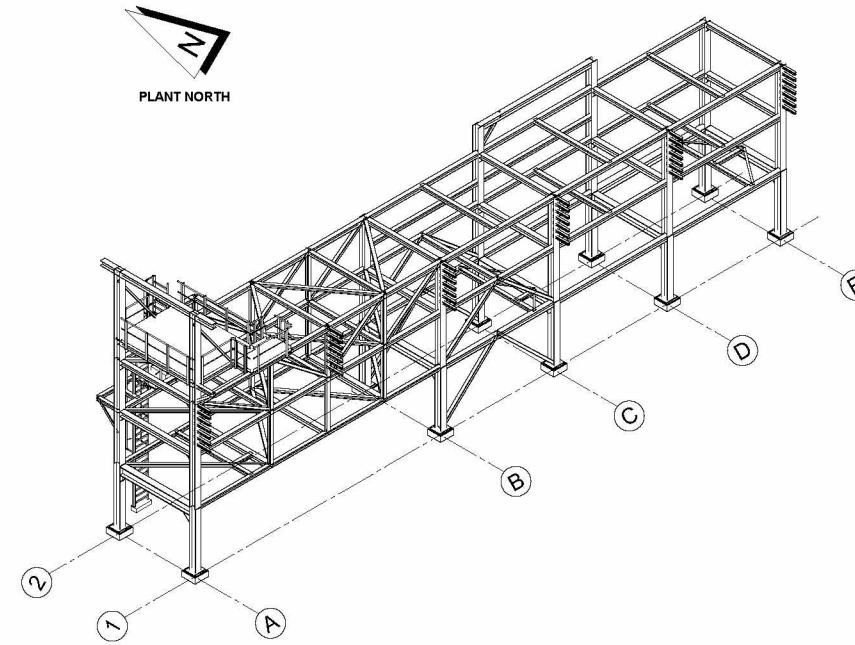
**PLAN AT EL+8.000 TOS**



**PLAN AT EL+8.900 TOS**



**ISOMETRIC VIEW**



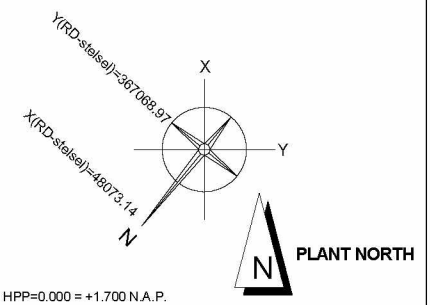
- NOTES:**
1. ALL DIMENSION ARE IN MM. LEVELS & CO-ORDINATES ARE IN METER.
  2. ALL ELEVATIONS ARE TOP OF STEEL UNLESS NOTED OTHERWISE.
  3. THIS IS A FEED DOCUMENT AND NO CONSTRUCTION SHALL BE MADE BASED ON THIS DRAWING.
  4. ALL LAYOUT, CO-ORDINATES AND DIMENSIONS ARE INDICATIVE AND SHALL BE CONFIRMED DURING DETAIL ENGINEERING.

**REFERENCES**

| LINDE DOC. NO / OWNER DOC. NO.            | TITLE   |
|---|---|
| &AE 2001 N-ZD 1002 (EN) / 16471-Y56-00012 | STEEL STRUCTURE LAYOUT DRAWING PIPERACK SR0501 ELEVATIONS         |
| &AE 2001 C-ZA 1001 (EN) / 16471-Y56-00007 | GENERAL ARRANGEMENT DRAWING FOUNDATION / PILING CO2 LIQUIFICATION |
| &AE 0000 N-SP 1001 (EN) / 16471-Y85-00001 | STEEL STRUCTURE AND CIVIL DESIGN BASIS & GENERAL DESCRIPTION      |

**LEGENDS**

- TOS TOP OF STEEL
- BOBP BOTTOM OF BASE PLATE
- HPP HIGH PAVING POINT
- N.A.P NORMAAL AMSTERDAMS PEIL
- MOMENT CONNECTION



| DATE | STATUS     | DESIGN | REVISION | APPROVED | REVISION | DESCRIPTION     |
|------|------------|--------|----------|----------|----------|-----------------|
| 1.0  | 18-11-2022 | IFD    | ENPC     |          |          | ISSUED FOR FEED |

Carbon Capture Storage Plant, Sluiskil

|                            |                             |
|----------------------------|-----------------------------|
| <b>Linde</b>               | <b>Ulf</b>                  |
| CLIENT PROJECT NO: 3710208 | CLIENT PROJECT NO: 10071    |
| CLIENT PROJECT CODE: C0088 | CLIENT PROJECT CODE: CACTUS |

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**TITLE** STEEL STRUCTURE LAYOUT DRAWING PIPERACK SR0501 ISOMETRIC VIEW & LEVEL VIEWS

SCALE: 1:100

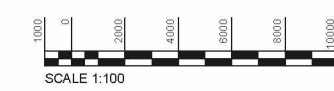
DATE: 18-11-2022

DESIGNER: AD

CLIENT: ENPC

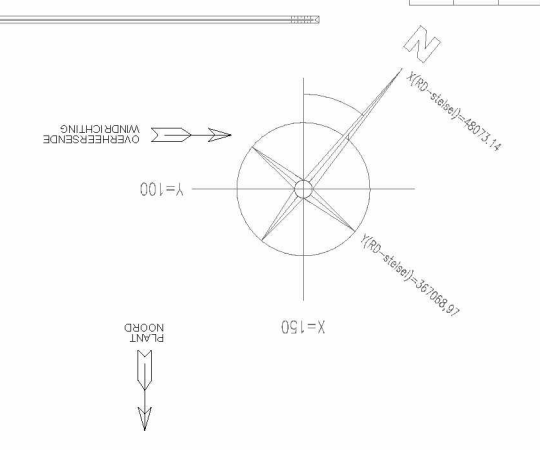
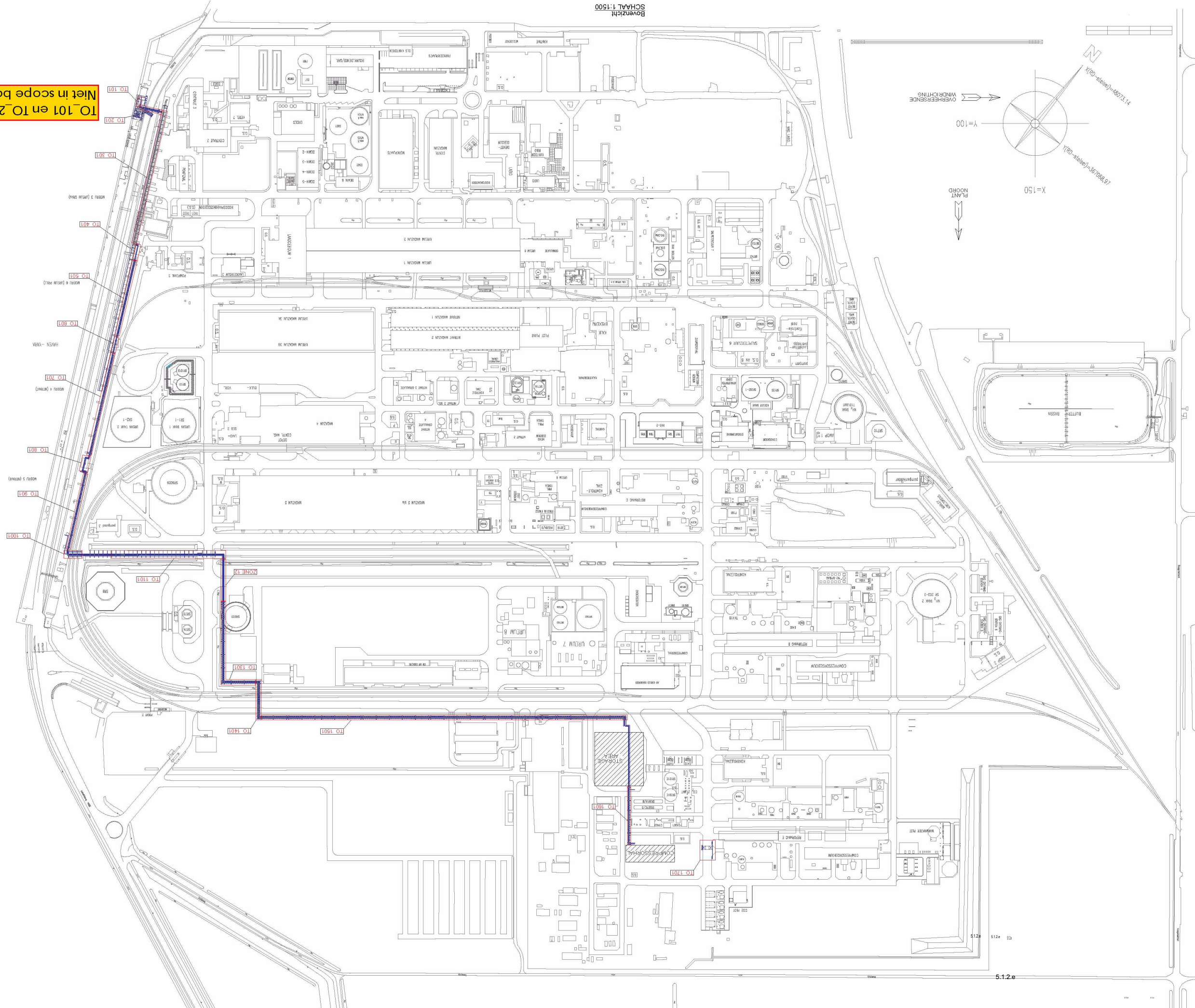
PROJECT: 16471-Y56-00007

SHEET: 1 OF 1



SCHAAL 1:1500

**TO\_101 en TO\_201  
Niet in scope bouwvraag**



**ZONE 12 =** Opgenomen in tekeningen TO\_101 en TO\_1301

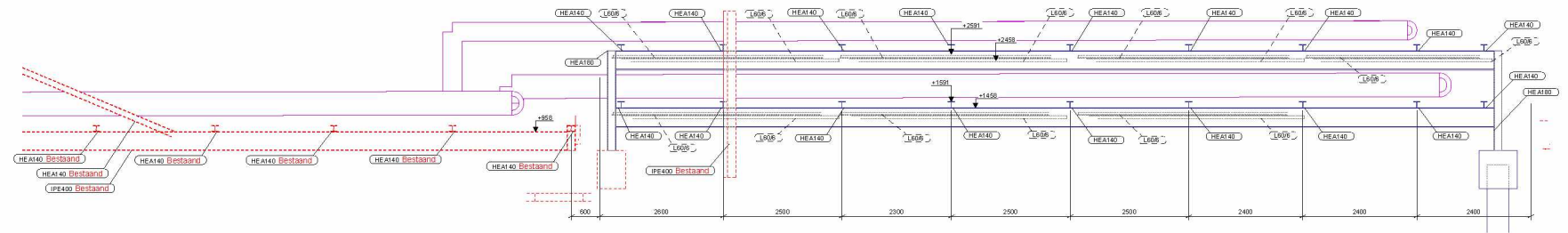




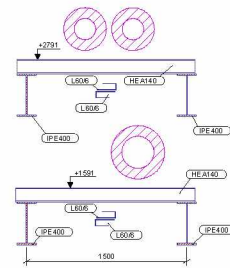




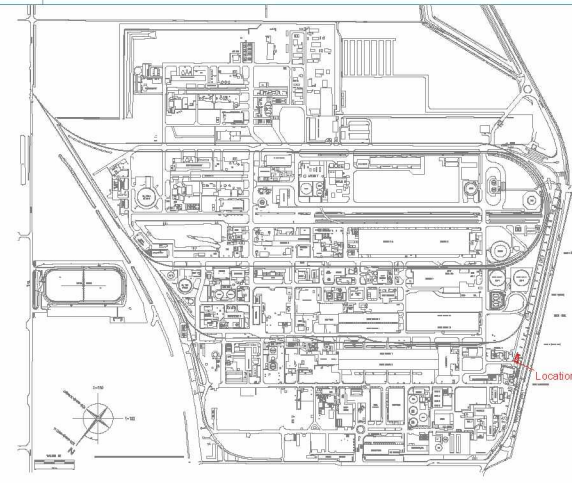
Bovenzicht  
SCHAAL 1:50



DRS A - A  
SCHAAL 1:50



DRS B - B (PRINCIPE DOORSNEDE)  
SCHAAL 1:25



| GENERAL STEEL                   |   | ADDITIONAL YARA SPECIFICATIONS   |  |            |                          |
|---------------------------------|---|--|--|------------|--------------------------|
| STEEL                           | <ul style="list-style-type: none"> <li>Structural steel: S235JR + HX</li> <li>Special steel: S355JR + HX</li> <li>Welding steel: S355JR + HX / EN 10025-3 + HX</li> <li>Construction steel: S235JR + HX / EN 10025-2 + HX</li> <li>Construction steel: S355JR + HX / EN 10025-2 + HX</li> <li>Construction steel: S355JR + HX / EN 10025-2 + HX</li> <li>Construction steel: S355JR + HX / EN 10025-2 + HX</li> <li>Construction steel: S355JR + HX / EN 10025-2 + HX</li> <li>Construction steel: S355JR + HX / EN 10025-2 + HX</li> </ul> | <ul style="list-style-type: none"> <li>Steel: S235JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> </ul> | <ul style="list-style-type: none"> <li>Steel: S235JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> <li>Steel: S355JR + HX</li> </ul>   |            |                          |
| STEEL GRADES                    | <ul style="list-style-type: none"> <li>Structural steel: S235JR + HX</li> <li>Special steel: S355JR + HX</li> <li>Welding steel: S355JR + HX</li> <li>Construction steel: S235JR + HX</li> <li>Construction steel: S355JR + HX</li> <li>Construction steel: S355JR + HX</li> <li>Construction steel: S355JR + HX</li> <li>Construction steel: S355JR + HX</li> <li>Construction steel: S355JR + HX</li> <li>Construction steel: S355JR + HX</li> </ul>  | <ul style="list-style-type: none"> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> <li>BOLTS: A4-70</li> </ul>   | <ul style="list-style-type: none"> <li>WELDING DIMENSIONS: 6mm</li> <li>WELDING DIMENSIONS: 6mm</li> <li>WELDING DIMENSIONS: 6mm</li> <li>WELDING DIMENSIONS: 6mm</li> <li>WELDING DIMENSIONS: 6mm</li> <li>WELDING DIMENSIONS: 6mm</li> <li>WELDING DIMENSIONS: 6mm</li> <li>WELDING DIMENSIONS: 6mm</li> <li>WELDING DIMENSIONS: 6mm</li> <li>WELDING DIMENSIONS: 6mm</li> </ul> |            |                          |
| EXECUTION CLASS Main steel      | EC2   | ANCHORS  | PREPARATION DEGREE   |            |                          |
| EXECUTION CLASS Secondary steel | EC2   | ANCHORS  | PREPARATION DEGREE   |            |                          |
| Rev.                            | Drawn   | Check  | Appr.  | Date       | Description              |
| 1                               |   |  |  | 15.12.2022 | Voor omgevingsvergunning |
|                                 |   |  |  |            |                          |
| 4922005<br>A0                   |   | 15.12.2022 11.25 1.50<br>This document shall not be reproduced, lent or otherwise disposed of, without YTP written approval  |  | No. TO_401 |                          |

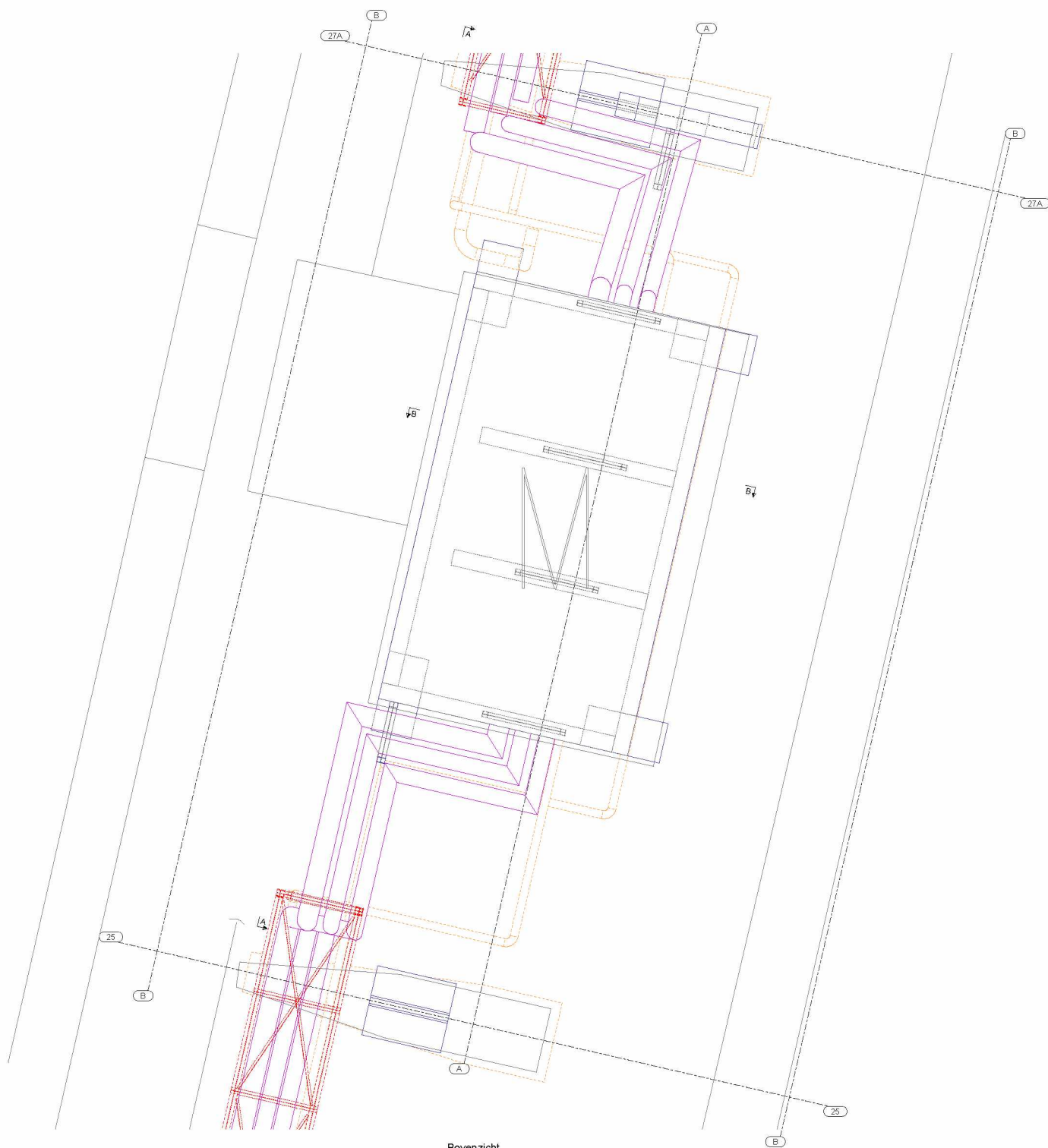




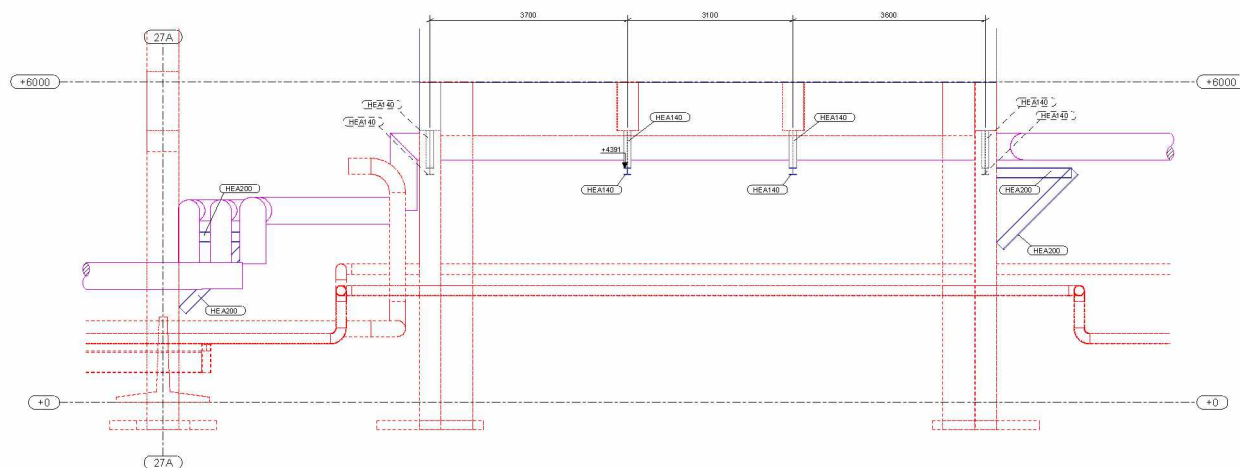




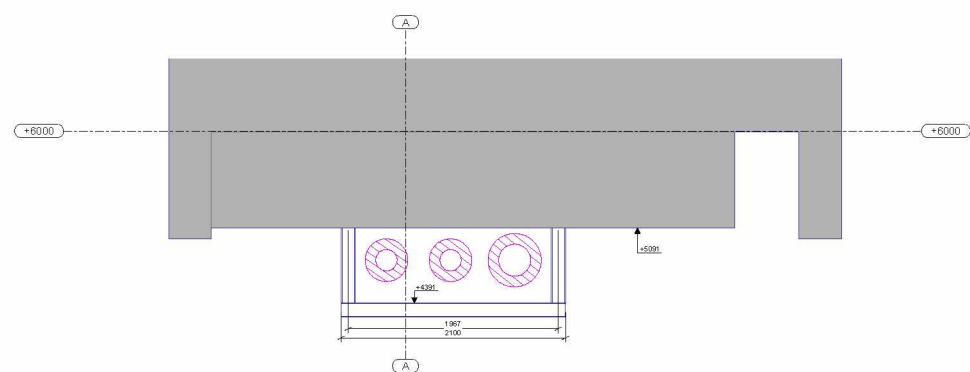




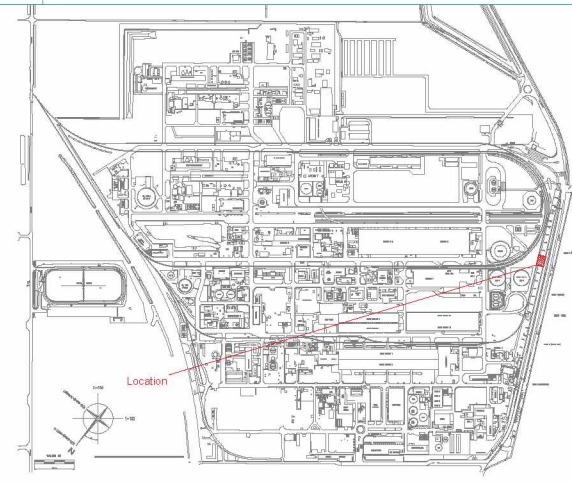
Bovenzicht  
SCHAAL 1:50



DRS A - A  
SCHAAL 1:50



DRS B - B (PRINCIPE DOORSNEDE)  
SCHAAL 1:25



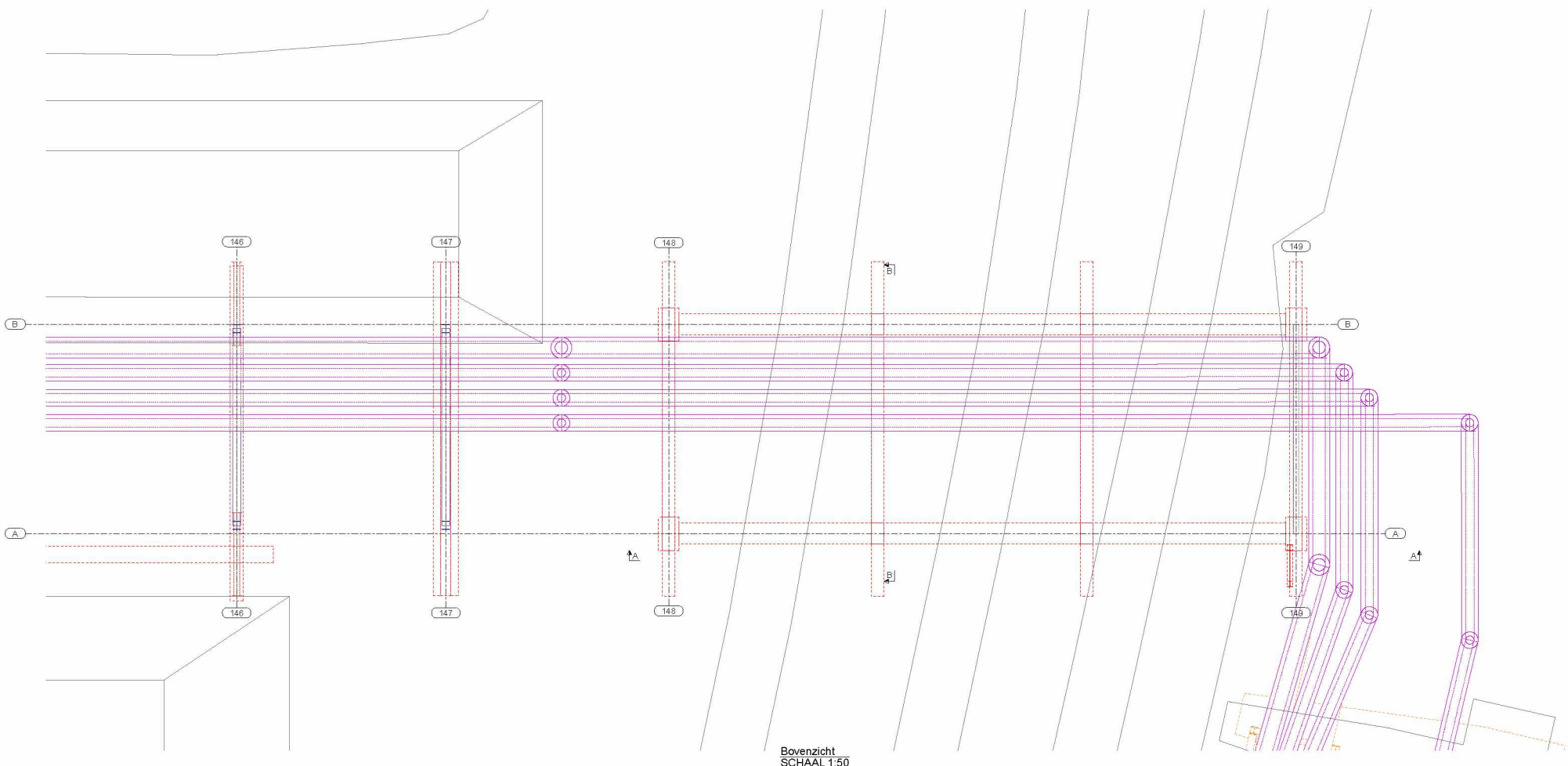
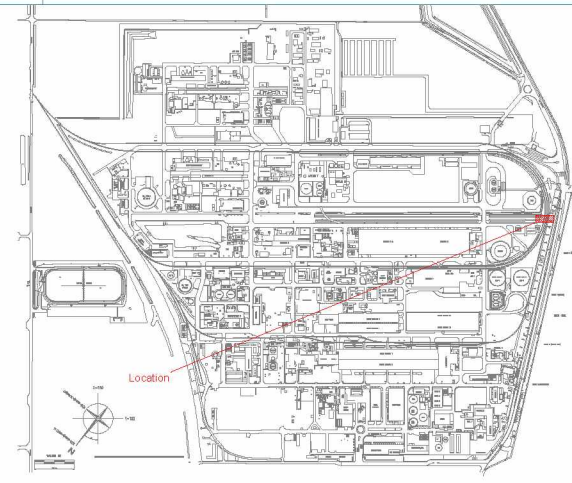
| STEEL               |                 | ADDITIONAL YARA SPECIFICATIONS |                 |
|---------------------|-----------------|--------------------------------|-----------------|
| Component steel     | EN 10025-2 S275 | Steel for fire protection      | EN 10025-2 S275 |
| Welding steel       | EN 10025-2 S275 | Welding consumables            | EN 499-1 E60    |
| Welding consumables | EN 499-1 E60    | Coatings                       | EN 15545-2 C2   |
| Coatings            | EN 15545-2 C2   | Fire protection                | EN 1363-1       |
| Fire protection     | EN 1363-1       | Preservation                   | EN 1090-2       |
| Preservation        | EN 1090-2       | Preparation degree             | EN 1090-2       |
| Preparation degree  | EN 1090-2       |                                |                 |

| STEEL GRADES        |              | BOLTS               |              | WELDING DIMENSIONS  |              |
|---------------------|--------------|---------------------|--------------|---------------------|--------------|
| Steel grade         | S275         | Bolt grade          | A4-70        | Welding process     | EN 10025-2   |
| Welding process     | EN 10025-2   | Welding consumables | EN 499-1 E60 | Welding consumables | EN 499-1 E60 |
| Welding consumables | EN 499-1 E60 | Welding consumables | EN 499-1 E60 | Welding consumables | EN 499-1 E60 |
| Welding consumables | EN 499-1 E60 | Welding consumables | EN 499-1 E60 | Welding consumables | EN 499-1 E60 |

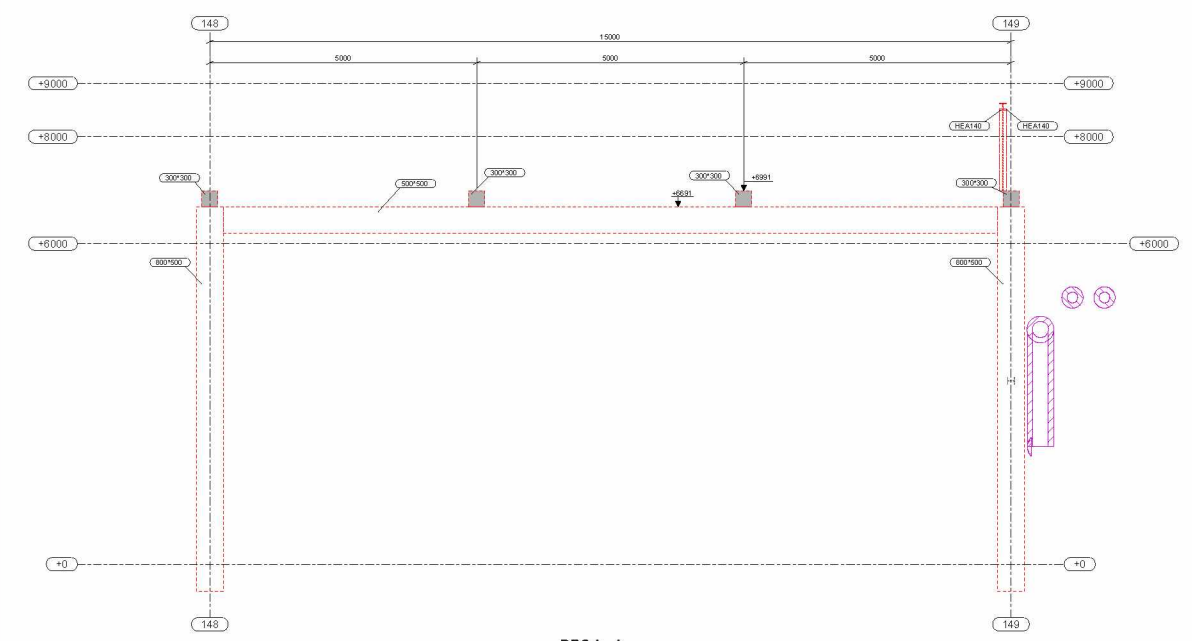




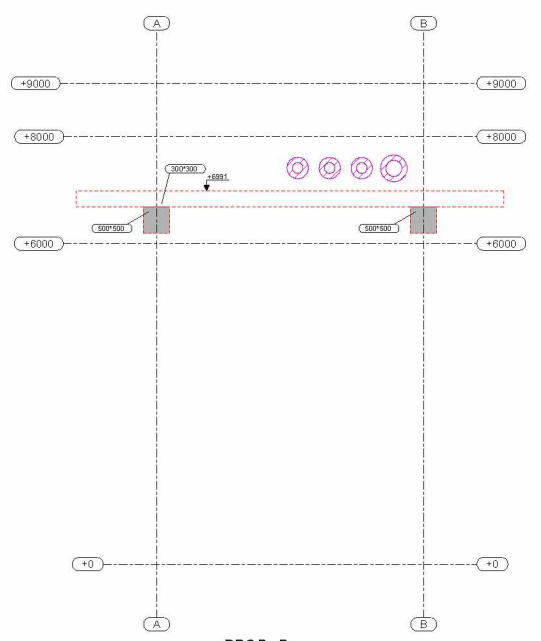




Bovenzicht  
SCHAAL 1:50

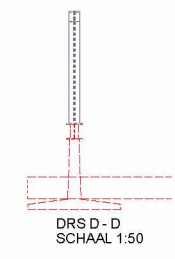
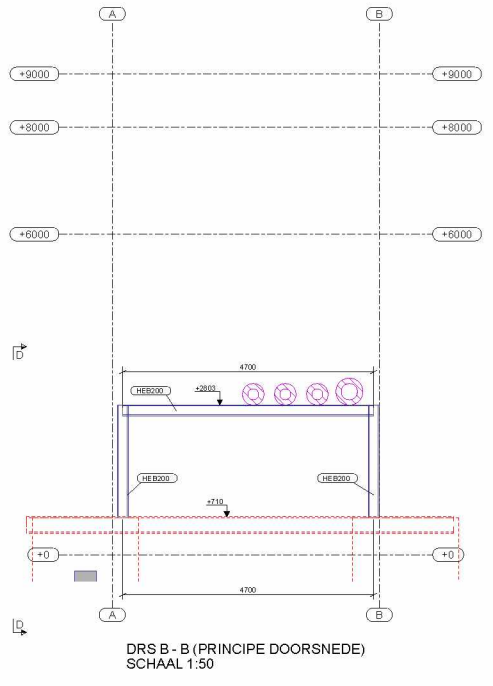
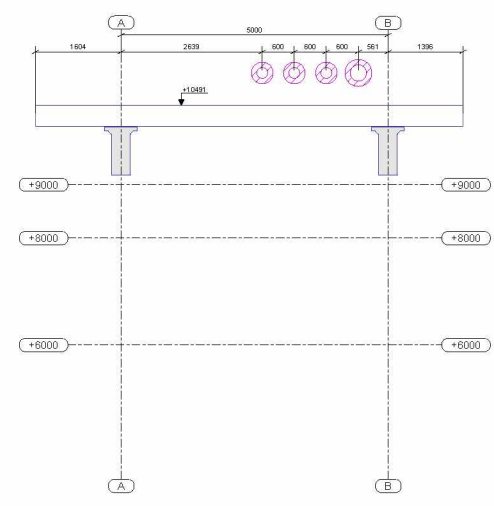
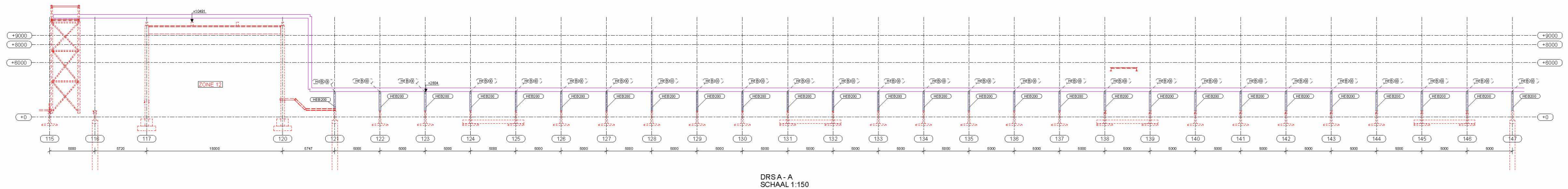
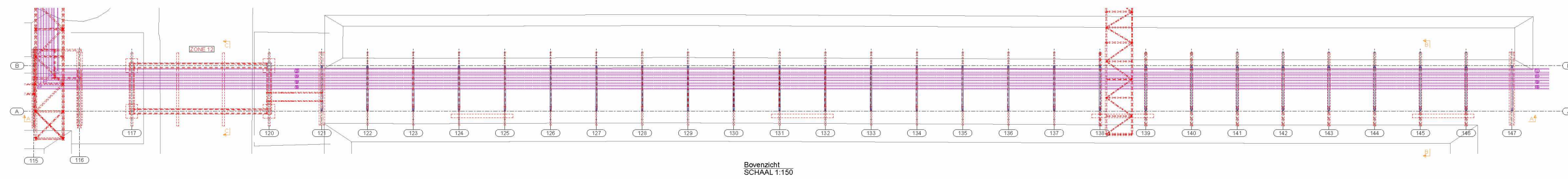
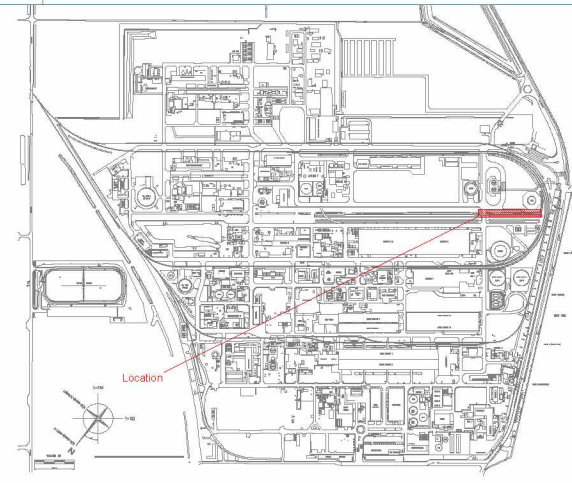


DRSA - A  
SCHAAL 1:50



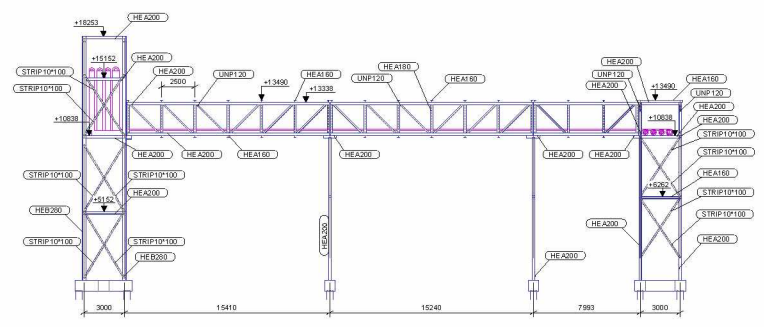
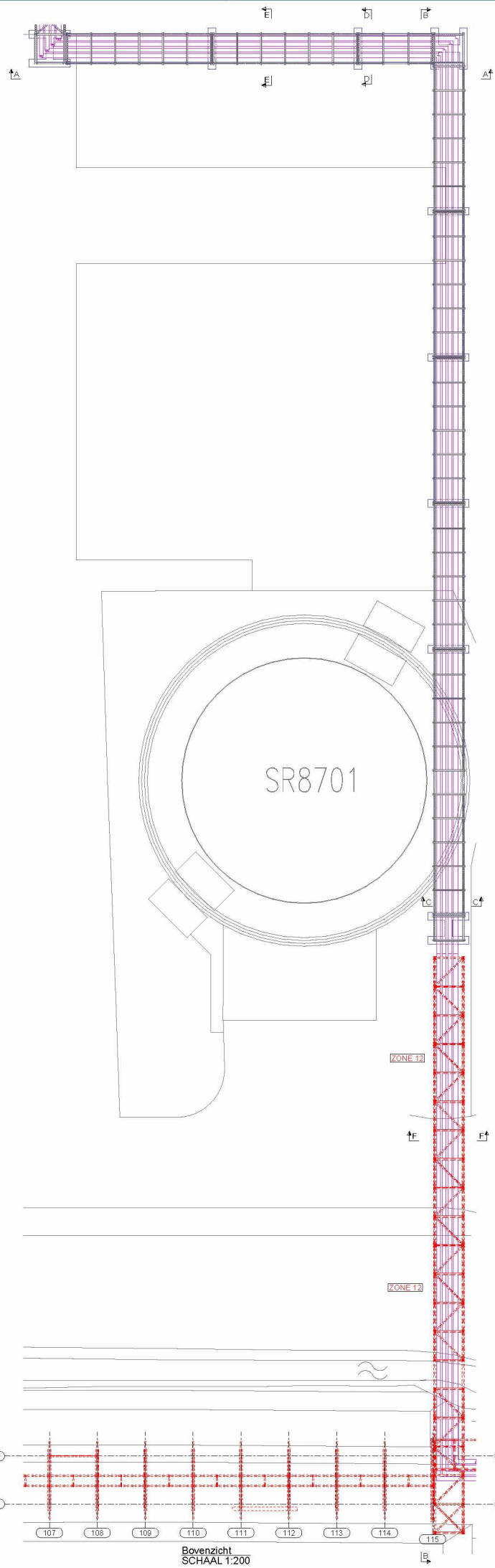
DRSB - B  
SCHAAL 1:50

| GENERAL STEEL  |   |   |   |
|--|---|---|---|
| <b>STEEL</b><br>Construction steel: EN 10025-2 S275<br>Structural steel: EN 10025-2 S275<br>Cold-chamber steel: EN 10025-2 S275<br>Cold-chamber steel: EN 10025-2 S275<br>Cold-chamber steel: EN 10025-2 S275<br>Cold-chamber steel: EN 10025-2 S275 | <b>ADDITIONAL YARA SPECIFICATIONS</b><br>Steel grade: S275<br>Steel grade: S275<br>Steel grade: S275<br>Steel grade: S275<br>Steel grade: S275<br>Steel grade: S275 | <b>STEEL GRADES</b><br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275 | <b>WELDING DIMENSIONS</b><br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275 |
| <b>EXECUTION CLASS</b> Main steel<br>EC2<br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275  | <b>EXECUTION CLASS</b> Secondary steel<br>EC2<br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275  | <b>BOLTS</b><br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275        | <b>FIRE RESISTANCE</b><br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275<br>EN 10025-2 S275    |
| <b>REVISIONS</b><br>Rev. Drawn Check Appr. Date Description<br>1 15.12.2022 Voor omgevingsvergunning<br>2 15.12.2022   |   |   |   |
| <b>Project</b><br>YARA SLUISKIL<br>PIPERACKS CCS PROJECT<br>BESTAANDE BETONNEN PIPERACK<br>ZONE 10   |   | <b>Client</b><br>YARA<br>Yara Technology and Projects   |   |
| <b>Project No.</b> 4922005<br><b>Scale</b> 1:50<br><b>Date</b> 15-12-2022<br><b>Version</b> 5.1.2.e  |   | <b>Project No.</b> TO_1001<br><b>Date</b> 15-12-2022<br><b>Version</b> 5.1.2.e  |   |

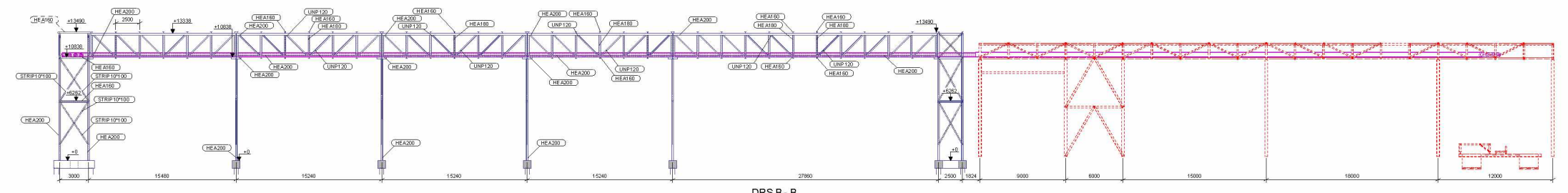


| GENERAL STEEL  |  |  |   |            |                          |       |       |      |             |   |  |  |  |            |                          |
|--|--|--|---|------------|--------------------------|-------|-------|------|-------------|---|--|--|--|------------|--------------------------|
| <b>STEEL</b>   | <ul style="list-style-type: none"> <li>Structural steel: EN 10025-2 S235JR</li> <li>Welding steel: EN 10025-2 S275JR</li> <li>Anchor bolts: EN 10025-2 S235JR</li> <li>Fasteners: EN 10025-2 S235JR</li> </ul>   | <b>ADDITIONAL YARA SPECIFICATIONS</b> <ul style="list-style-type: none"> <li>EN 10025-2 S235JR</li> <li>EN 10025-2 S275JR</li> <li>EN 10025-2 S235JR</li> <li>EN 10025-2 S235JR</li> </ul> | <b>WELDING DIMENSIONS</b> <ul style="list-style-type: none"> <li>Welding: EN 10025-2 S235JR</li> <li>Welding: EN 10025-2 S275JR</li> <li>Welding: EN 10025-2 S235JR</li> <li>Welding: EN 10025-2 S235JR</li> </ul>                              |            |                          |       |       |      |             |   |  |  |  |            |                          |
| <b>STEEL GRADES</b>  | <ul style="list-style-type: none"> <li>Structural steel: EN 10025-2 S235JR</li> <li>Welding steel: EN 10025-2 S275JR</li> <li>Anchor bolts: EN 10025-2 S235JR</li> <li>Fasteners: EN 10025-2 S235JR</li> </ul>   | <b>BOLTS</b> <ul style="list-style-type: none"> <li>Anchor bolts: EN 10025-2 S235JR</li> <li>Fasteners: EN 10025-2 S235JR</li> </ul>   | <b>FIRE RESISTANCE</b> <ul style="list-style-type: none"> <li>Fire resistance: EN 10025-2 S235JR</li> <li>Fire resistance: EN 10025-2 S275JR</li> <li>Fire resistance: EN 10025-2 S235JR</li> <li>Fire resistance: EN 10025-2 S235JR</li> </ul> |            |                          |       |       |      |             |   |  |  |  |            |                          |
| <b>EXECUTION CLASS Main steel</b>  | EN 10025-2 S235JR  | <b>ANCHORS</b>   | EN 10025-2 S235JR   |            |                          |       |       |      |             |   |  |  |  |            |                          |
| <b>EXECUTION CLASS Secondary steel</b>   | EN 10025-2 S235JR  | <b>PREPARATION</b>   | EN 10025-2 S235JR   |            |                          |       |       |      |             |   |  |  |  |            |                          |
| <b>REVISIONS</b>   | <table border="1"> <thead> <tr> <th>Rev.</th> <th>Drawn</th> <th>Check</th> <th>Appr.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td>15.12.2022</td> <td>Voor omgevingsvergunning</td> </tr> </tbody> </table> |  |   | Rev.       | Drawn                    | Check | Appr. | Date | Description | 1 |  |  |  | 15.12.2022 | Voor omgevingsvergunning |
| Rev.   | Drawn  | Check  | Appr.   | Date       | Description              |       |       |      |             |   |  |  |  |            |                          |
| 1  |  |  |   | 15.12.2022 | Voor omgevingsvergunning |       |       |      |             |   |  |  |  |            |                          |
| <b>PROJECT INFORMATION</b><br>Project: YARA SLUISKIL<br>Client: PIPERACKS CCS PROJECT<br>Location: SUPPORTS OF BEST BETON SLEEPERS ZONE 11 |  |  |   |            |                          |       |       |      |             |   |  |  |  |            |                          |
| <b>CONTRACTOR</b><br>konstruktis industrial engineering  |  | <b>PROJECT NUMBER</b><br>5.1.2.e   |   |            |                          |       |       |      |             |   |  |  |  |            |                          |
| <b>PROJECT NUMBER</b><br>4922005   |  | <b>DATE</b><br>15.12.2022  |   |            |                          |       |       |      |             |   |  |  |  |            |                          |
| <b>SCALE</b><br>A0   |  | <b>THIS DOCUMENT</b><br>This document shall not be reproduced, lent or otherwise disposed of, without YTP written approval.  |   |            |                          |       |       |      |             |   |  |  |  |            |                          |
| <b>PROJECT NUMBER</b><br>4922005   |  | <b>PROJECT NUMBER</b><br>5.1.2.e   |   |            |                          |       |       |      |             |   |  |  |  |            |                          |
| <b>SCALE</b><br>A0   |  | <b>PROJECT NUMBER</b><br>TO_1101   |   |            |                          |       |       |      |             |   |  |  |  |            |                          |

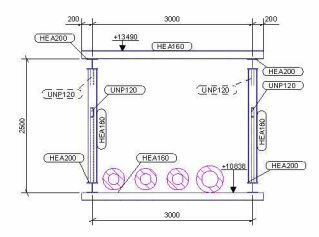




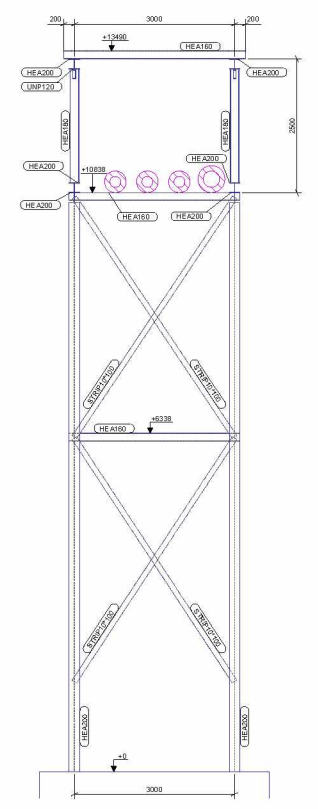
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SCHAAL 1:200



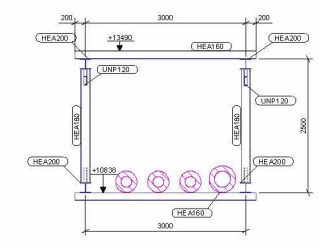
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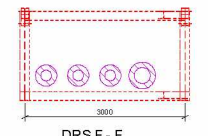
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SCHAAL 1:50



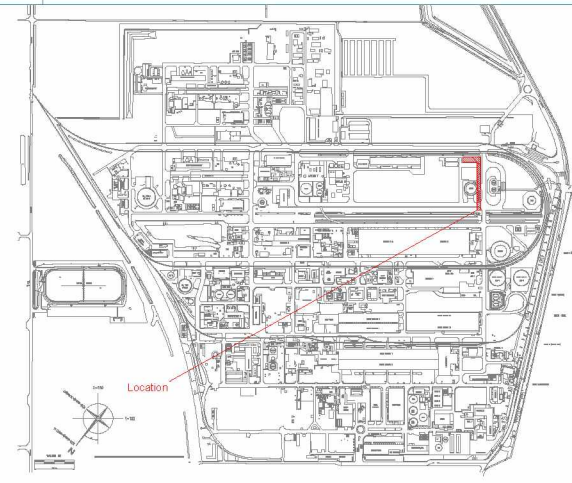
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SCHAAL 1:50



DRS E - E (PRINCIPE DOORSNEDE)  
SCHAAL 1:50



DRS F - F  
SCHAAL 1:50

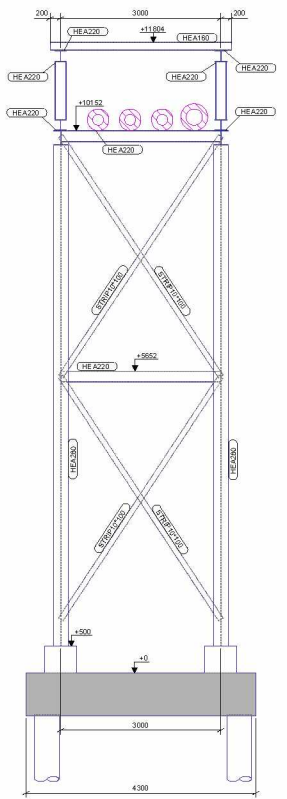
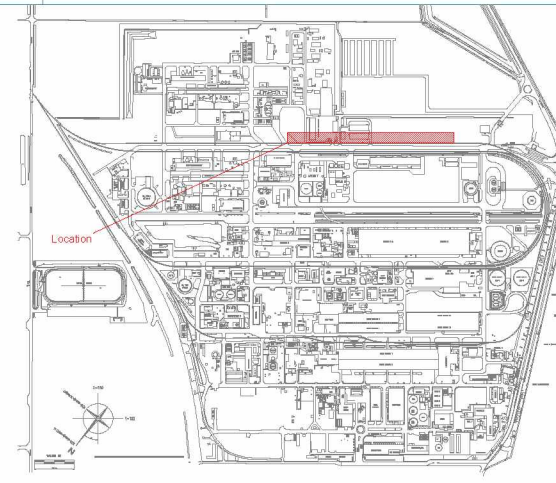
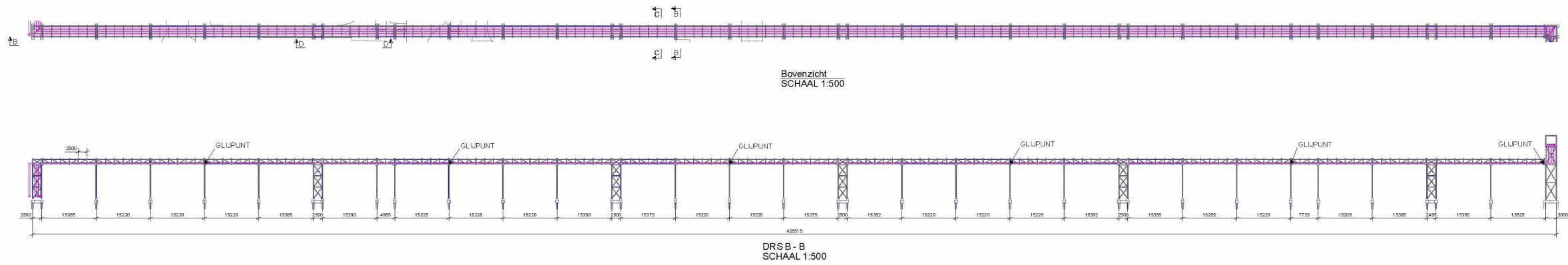


| GENERAL STEEL      |  | ADDITIONAL YARA SPECIFICATIONS  |   |
|--------------------|--|---|---|
| STEEL              | <ul style="list-style-type: none"> <li>Structural steel: S235JR + M</li> <li>Special steel: S355JR + M</li> <li>Welding wire: ER70S-G</li> <li>Corrosion protection: ZN 120g/m<sup>2</sup> + M</li> <li>Surface treatment: Phosphate</li> <li>Paint system: 2x epoxy primer, 2x epoxy topcoat</li> </ul> | <ul style="list-style-type: none"> <li>Steel grades: S235JR + M</li> <li>Steel grades: S355JR + M</li> <li>Welding wire: ER70S-G</li> <li>Corrosion protection: ZN 120g/m<sup>2</sup> + M</li> <li>Surface treatment: Phosphate</li> <li>Paint system: 2x epoxy primer, 2x epoxy topcoat</li> </ul> | <ul style="list-style-type: none"> <li>Steel grades: S235JR + M</li> <li>Steel grades: S355JR + M</li> <li>Welding wire: ER70S-G</li> <li>Corrosion protection: ZN 120g/m<sup>2</sup> + M</li> <li>Surface treatment: Phosphate</li> <li>Paint system: 2x epoxy primer, 2x epoxy topcoat</li> </ul> |
| STEEL GRADES       | S235JR + M   | S355JR + M  |   |
| WELDING DIMENSIONS |  |   |   |
| ANCHORS            |  |   |   |
| PRESERVATION       |  |   |   |
| PREPARATION DEGREE |  |   |   |

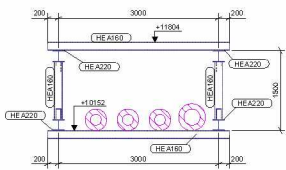
15.12.2022  
 YARA SLUISKIL  
 PIPERACKS CCS PROJECT  
 NIEUW PIPERACK  
 ZONE 13  
 5.1.2.e  
 Yara Technology and Projects  
 TO\_1301



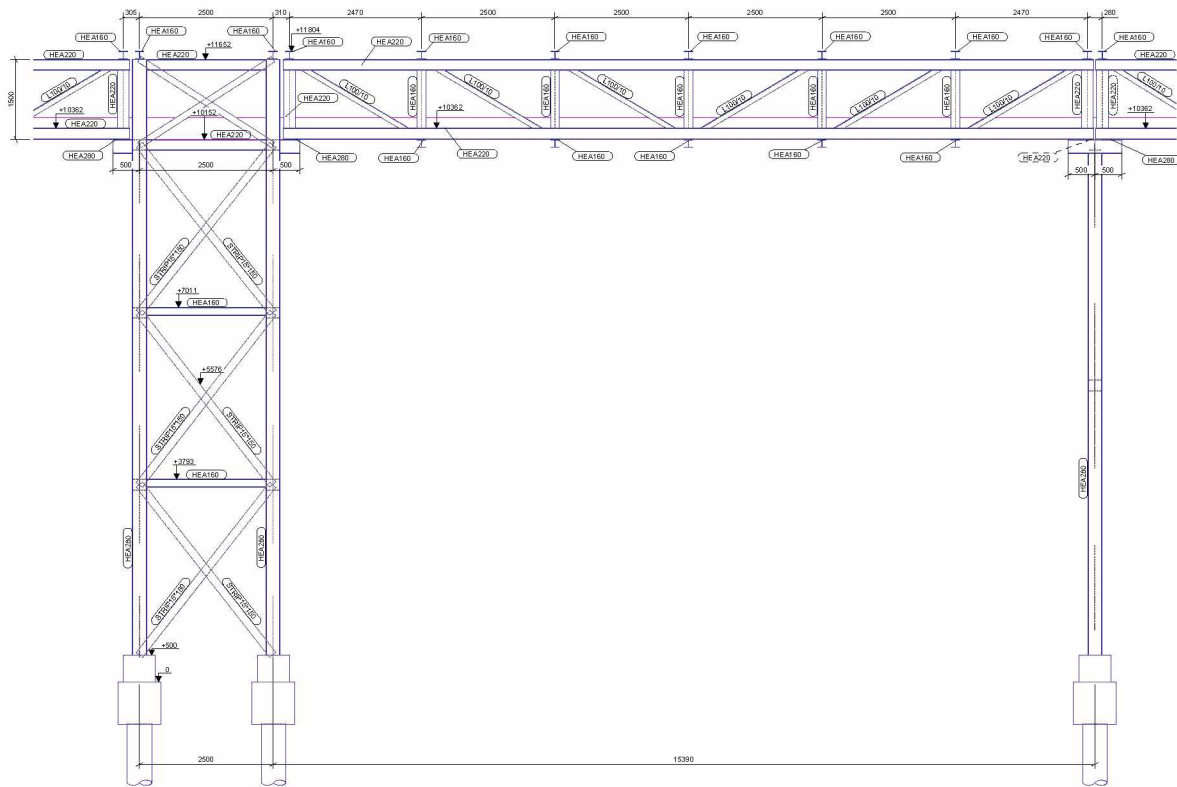




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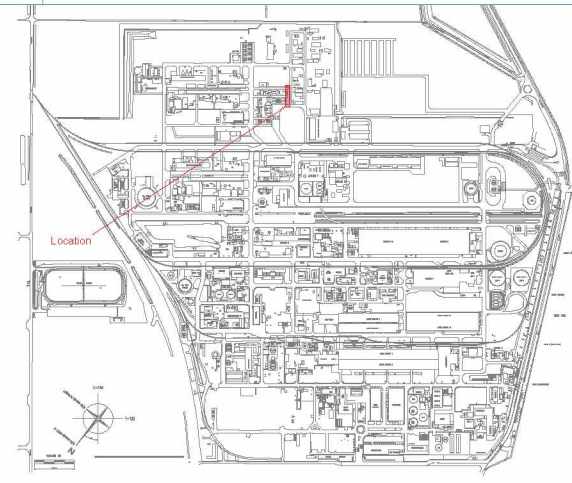
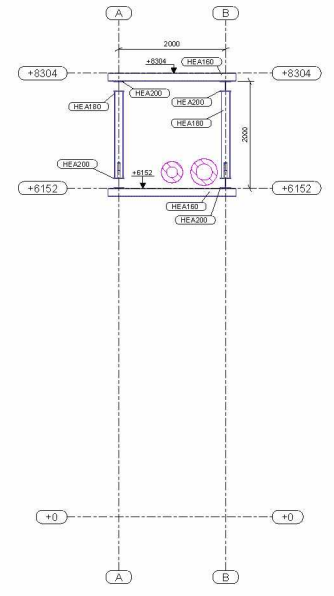
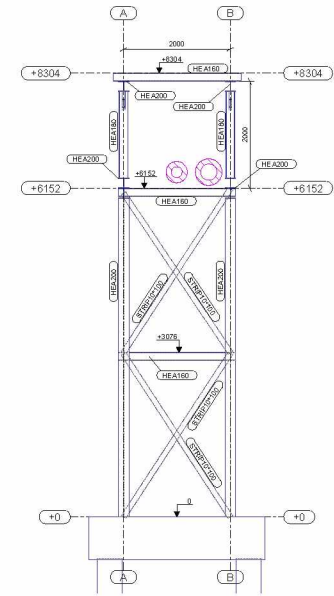
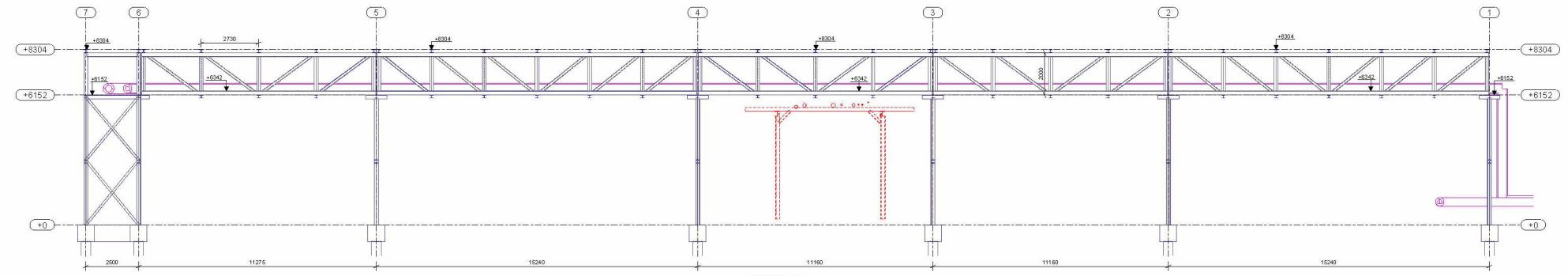
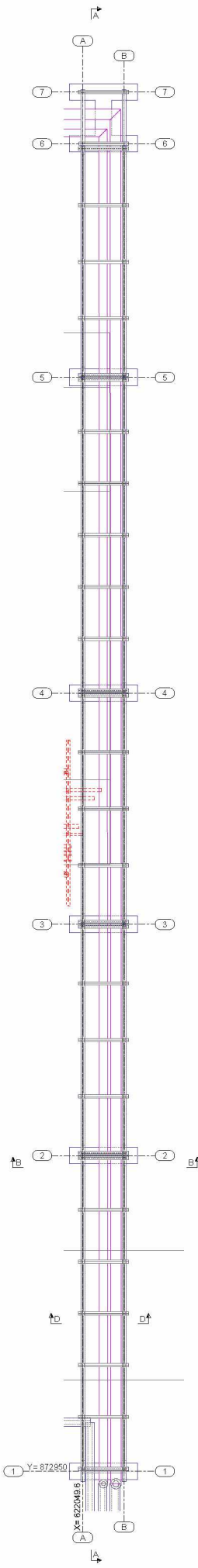
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SCHAAL 1:50



DRS D - D (PRINCIPE DOORSNEDE)  
SCHAAL 1:50

| GENERAL STEEL  |   |  |  |                      |                           |              |        |          |               |      |             |   |  |  |  |            |                           |
|--|---|--|--|----------------------|---------------------------|--------------|--------|----------|---------------|------|-------------|---|--|--|--|------------|---------------------------|
| <b>STEEL</b>   | <ul style="list-style-type: none"> <li>Structural steel: EN 10025-1 + A47</li> <li>Special steel: EN 10025-1 + A47 / EN 10025-2 + A47</li> <li>Welding electrodes: EN 10025-1 + A47 / EN 10025-2 + A47</li> <li>Coatings: EN 10025-1 + A47 / EN 10025-2 + A47</li> <li>Corrosion protection: EN 10025-1 + A47 / EN 10025-2 + A47</li> <li>Surface treatment: EN 10025-1 + A47 / EN 10025-2 + A47</li> <li>Paint systems: EN 10025-1 + A47 / EN 10025-2 + A47</li> <li>Fasteners: EN 10025-1 + A47 / EN 10025-2 + A47</li> </ul> | <b>ADDITIONAL YARA SPECIFICATIONS</b> <ul style="list-style-type: none"> <li>EN 10025-1 + A47</li> <li>EN 10025-2 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-2 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-2 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-2 + A47</li> </ul> | <b>WELDING DIMENSIONS</b> <ul style="list-style-type: none"> <li>EN 10025-1 + A47</li> <li>EN 10025-2 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-2 + A47</li> </ul> |                      |                           |              |        |          |               |      |             |   |  |  |  |            |                           |
| <b>STEEL GRADES</b>  | <ul style="list-style-type: none"> <li>Structural steel: S235JR + A47</li> <li>Special steel: S275JR + A47</li> <li>Welding electrodes: E43</li> <li>Coatings: Zn-100</li> <li>Corrosion protection: 100µm</li> <li>Surface treatment: RAL 7001</li> <li>Paint systems: 3-layer system</li> <li>Fasteners: A4-70</li> </ul>   | <b>BOLTS</b> <ul style="list-style-type: none"> <li>EN 10025-1 + A47</li> <li>EN 10025-2 + A47</li> <li>EN 10025-1 + A47</li> <li>EN 10025-2 + A47</li> </ul>  | <b>FIRE RESISTANCE</b> <ul style="list-style-type: none"> <li>EN 10025-1 + A47</li> <li>EN 10025-2 + A47</li> </ul>  |                      |                           |              |        |          |               |      |             |   |  |  |  |            |                           |
| <b>EXECUTION CLASS Main steel</b>  | EN 1090-1   | <b>ANCHORS</b>   | EN 1090-1  | <b>CLIMATE CLASS</b> | EN 1090-1                 |              |        |          |               |      |             |   |  |  |  |            |                           |
| <b>EXECUTION CLASS Secondary steel</b>   | EN 1090-2   | <b>PRESERVATION</b>  | EN 1090-2  | <b>REMARKS</b>       |                           |              |        |          |               |      |             |   |  |  |  |            |                           |
| <b>PREPARATION DEGREE</b><br>P2  |   |  |  |                      |                           |              |        |          |               |      |             |   |  |  |  |            |                           |
| <b>REVISIONS</b> <table border="1"> <thead> <tr> <th>Rev.</th> <th>Drawn</th> <th>Check</th> <th>Appr.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td>15.12.2022</td> <td>Voor omvangingenvergaring</td> </tr> </tbody> </table> |   |  |  |                      |                           | Rev.         | Drawn  | Check    | Appr.         | Date | Description | 1 |  |  |  | 15.12.2022 | Voor omvangingenvergaring |
| Rev.   | Drawn   | Check  | Appr.  | Date                 | Description               |              |        |          |               |      |             |   |  |  |  |            |                           |
| 1  |   |  |  | 15.12.2022           | Voor omvangingenvergaring |              |        |          |               |      |             |   |  |  |  |            |                           |
| <b>PROJECT INFORMATION</b> <table border="1"> <thead> <tr> <th>Project name</th> <th>Client</th> <th>Location</th> </tr> </thead> <tbody> <tr> <td>YARA SLUISKIL</td> <td>YARA</td> <td>YARA</td> </tr> </tbody> </table>  |   |  |  |                      |                           | Project name | Client | Location | YARA SLUISKIL | YARA | YARA        |   |  |  |  |            |                           |
| Project name   | Client  | Location   |  |                      |                           |              |        |          |               |      |             |   |  |  |  |            |                           |
| YARA SLUISKIL  | YARA  | YARA   |  |                      |                           |              |        |          |               |      |             |   |  |  |  |            |                           |
| <b>PROJECT NUMBER</b> 4922005  |   |  |  |                      |                           |              |        |          |               |      |             |   |  |  |  |            |                           |
| <b>DATE</b> 15.12.2022   |   |  |  |                      |                           |              |        |          |               |      |             |   |  |  |  |            |                           |
| <b>SCALE</b> 1:50  |   |  |  |                      |                           |              |        |          |               |      |             |   |  |  |  |            |                           |
| <b>PROJECT NUMBER</b> TO_1501  |   |  |  |                      |                           |              |        |          |               |      |             |   |  |  |  |            |                           |





| GENERAL STEEL   |   |  |  |
|---|---|--|--|
| STEEL   | STEEL GRADES  | BOLTS  | WELDING DIMENSIONS   |
| S235JR + HA<br>S275JR + HA<br>S355JR + HA<br>S460NL + HA<br>S460ML + HA<br>S460M + HA<br>S460L + HA<br>S460M + HA<br>S460L + HA<br>S460M + HA<br>S460L + HA | S235JR + HA<br>S275JR + HA<br>S355JR + HA<br>S460NL + HA<br>S460ML + HA<br>S460M + HA<br>S460L + HA<br>S460M + HA<br>S460L + HA<br>S460M + HA<br>S460L + HA | A4-70<br>A4-70<br>A4-70<br>A4-70<br>A4-70<br>A4-70<br>A4-70<br>A4-70<br>A4-70<br>A4-70 | 100%<br>100%<br>100%<br>100%<br>100%<br>100%<br>100%<br>100%<br>100%<br>100% |
| EXECUTION CLASS Main Steel<br>EXECUTION CLASS Secondary steel   | EXECUTION CLASS Main Steel<br>EXECUTION CLASS Secondary steel   | ANCHORS<br>PRESERVATION<br>PREPARATION DEGREE  | FIRE RESISTANCE<br>CLIMATE CLASS<br>GROUTING MORTAR<br>REMARKS               |

5.1.2.e  
 15.12.2022  
 YARA SLUISKIL  
 PIPERACKS CCS PROJECT  
 NIEUW PIPERACK  
 ZONE 16  
 5.1.2.e  
 15.12.2022 1:50 1:100 5.1.2.e  
 TO\_1601

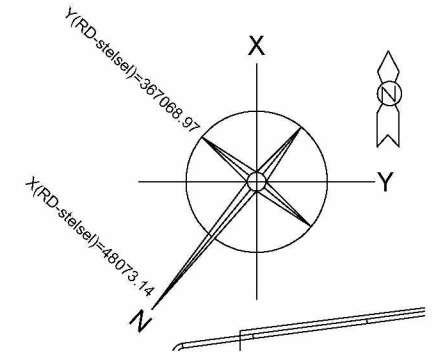
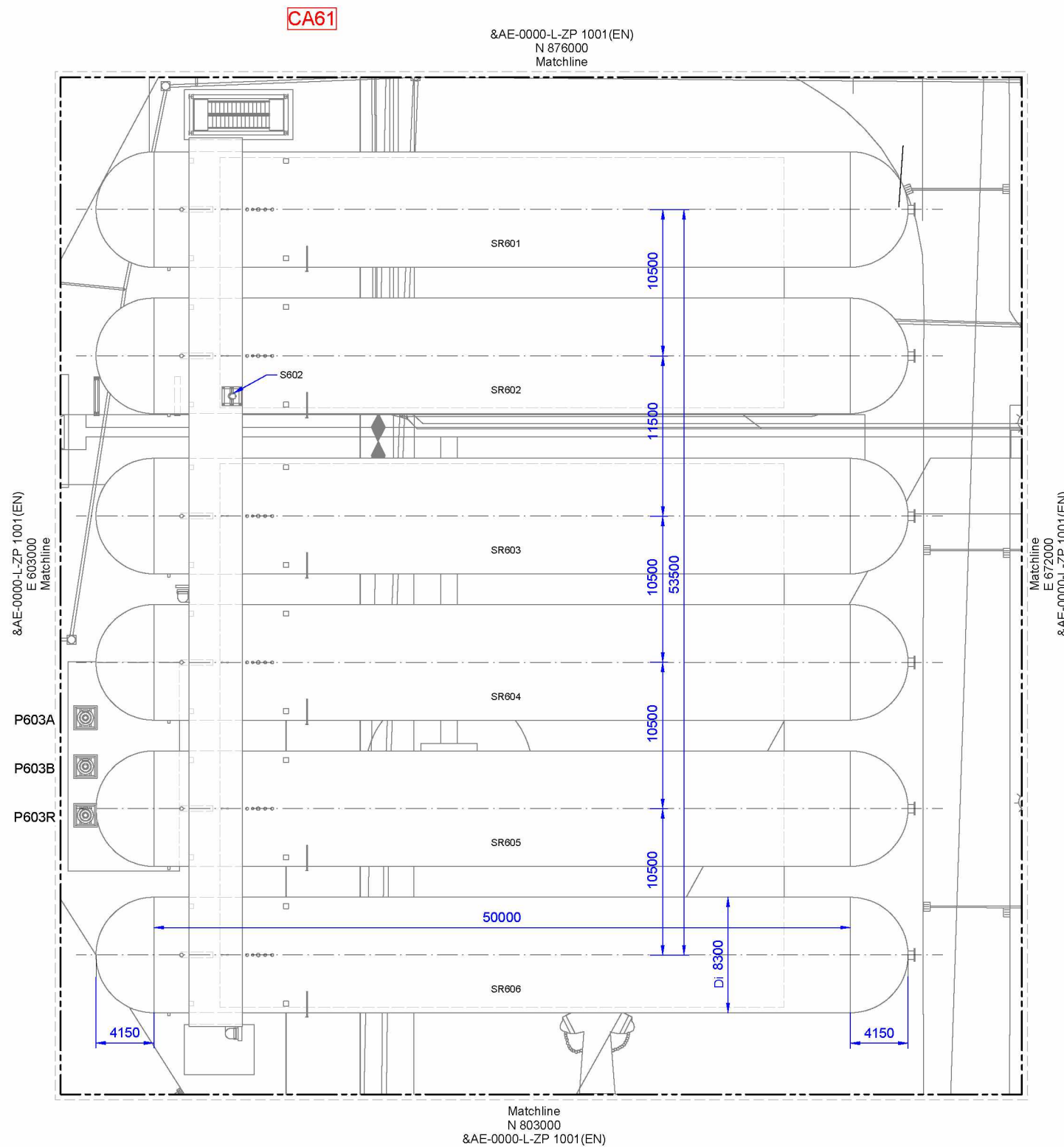




# 8. CO<sub>2</sub> opslagtanks

**top view**

Looking Plan  
SCALE: 1:200

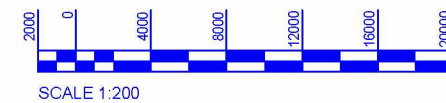


| Construction Areas |   |
|--------------------|---|
| CA00               | Area not in LEDD scope                                      |
| CA02               | CO <sub>2</sub> Compression / Refrigeration (Machine House) |
| CA03               | Field Installation  |
| CA05               | Pipe Rack   |
| CA41               | Drying Unit   |
| CA51               | Rectification Unit  |
| CA61               | Tank Farm Unit  |
| CA63               | Ship Loading Unit   |
| CA91               | Cooling Water Unit  |

| Equipments Tank Area |                              |
|----------------------|------------------------------|
| P603 A/B/R           | CO <sub>2</sub> Loading Pump |
| S602                 | Silencer Storage             |
| SR601                | CO <sub>2</sub> Storage Tank |
| SR602                | CO <sub>2</sub> Storage Tank |
| SR603                | CO <sub>2</sub> Storage Tank |
| SR604                | CO <sub>2</sub> Storage Tank |
| SR605                | CO <sub>2</sub> Storage Tank |
| SR606                | CO <sub>2</sub> Storage Tank |

**Notes:**

- Reference Drawing &AE-0000-L-ZP 1010(EN)  
"Equipment Arrangement Drawing Tank Farm Sections"



| ISSUE | DATE       | STATUS | DIVISION | ORIGINATOR | REVIEWED | APPROVED | DESCRIPTION |
|-------|------------|--------|----------|------------|----------|----------|-------------|
| 2.0   | 06 09 2022 | 512a   |          |            |          |          |             |
| 1.0   | 22 07 2022 |        |          |            |          |          | First Draft |

PLANT DESCRIPTION

**Carbon Capture Storage Plant, Sluiskil**




|                                |                               |
|--------------------------------|-------------------------------|
| LINDE PROJECT NO.<br>3710A3T8  | CLIENT PROJECT NO.<br>18471   |
| LINDE PROJECT CODE<br>Sluiskil | CLIENT PROJECT CODE<br>CACTUS |

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TITLE

**Equipment Arrangement Drawing  
Tank Farm  
Top View**

|                |            |   |                                 |            |             |
|----------------|------------|---|---------------------------------|------------|-------------|
| SCALE<br>1:200 | SIZE<br>A1 | LINDE DOC NO.<br>&AE-0000-L-ZP 1009(EN) | YARA DOC NO.<br>16471-P57-00005 | SHEET<br>1 | SHEETS<br>1 |
|----------------|------------|---|---------------------------------|------------|-------------|