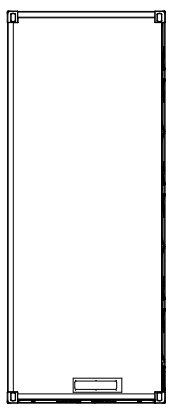
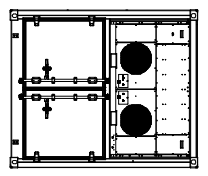
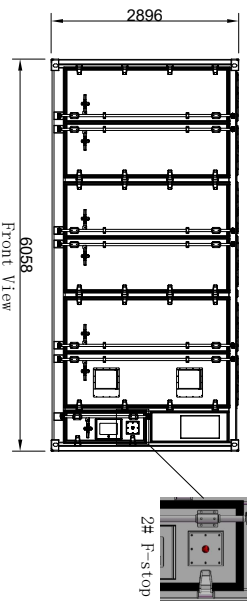
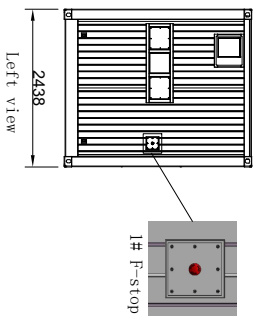
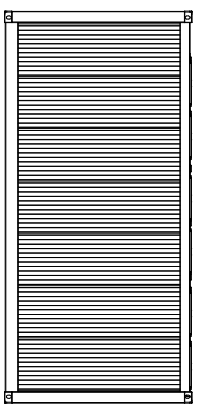
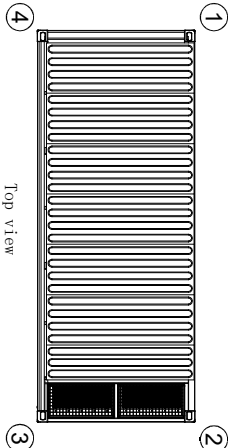


## **Appendix L – Indicative key infrastructure drawings**



- General Notes:**
- All dimensions are in millimeters unless otherwise stated.
  - ①~④ are the four lifting points of the container body.
  - The maximum opening angle is 180°.

1	ADD	Remove a blank revision for verification file	Signature	2020/07/17			
NO.	Original Drawing NO	Change Description	Signature	DATE			
DESIGNED BY	DATE	Standardizing	DATE				
CHECKED BY	DATE	APPROVED BY	DATE				
A1	PROJECTION ANGLE	UNIT	SCALE				
	mm	mm	1:1				
DRAWING NAME: Solbank dimensional drawing & three Views				PROJECT: Solbanks 0.0SP-AUS			
DRAWING NO.: M120				PART NO.:			

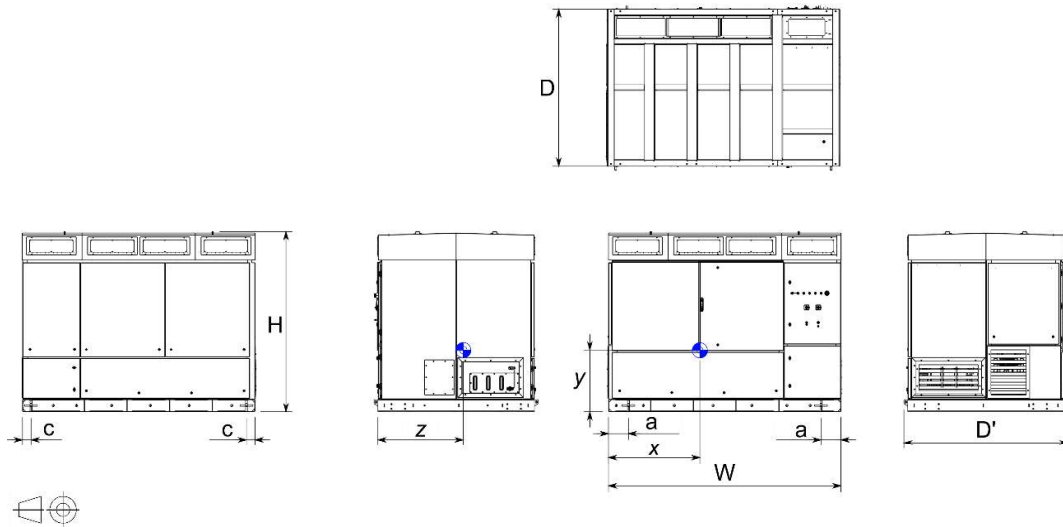


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### 3. DIMENSIONS AND WEIGHT

#### 3.1. HEMK / PCSK

The following image shows the dimensions and center of gravity of the HEMK / PCSK GEN3 products



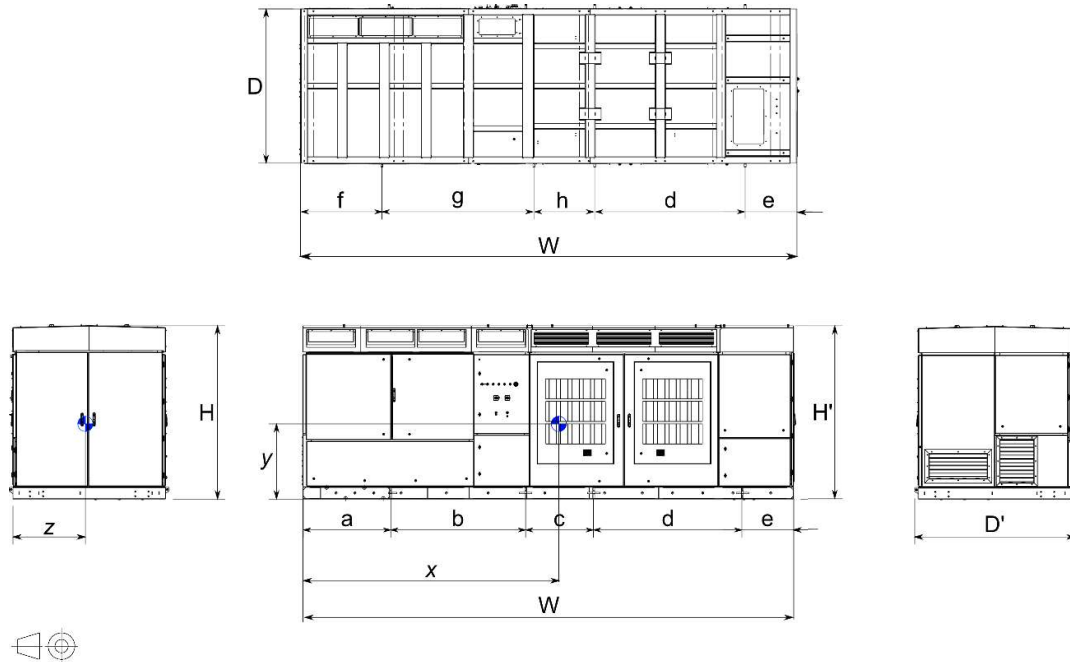
	GENERAL DIMENSIONS				CENTER OF GRAVITY			LOCATION OF THE SHACKLES	
	WIDTH (W)	DEPTH (D)	DEPTH (D')	HEIGHT (H)	X	Y	Z	A	C
mm	3000	2020	2120	2300	1179	785	1101	257,5	110
in.	118.1	79.5	83.5	90.6	46	31	43	10.1	4.3

#### 3.1.1. Weight

Total weight is approximately 5,5 t (12125 lb).

### 3.2. HEM / PCSM

The dimensions and center of gravity of the HEM / PCSM GEN3 products are shown below



GENERAL DIMENSIONS						CENTER OF GRAVITY		
	WIDTH (W)	DEPTH (D)	DEPTH (D')	HEIGHT (H)	HEIGHT (H')	X	Y	Z
mm	6500	2020	2120	2300	2286	3389	992	960
in.	255.9	79.5	83.46	90.55	90	133.43	39.06	37.8

LOCATION OF THE SHACKLES									
	A	B	C	D	E	F	G	H	
mm	1160	1790	901	1970	679	1065	1990	796	
in.	45.67	70.47	35	77.56	27	41.9	78.3	31	

**Note:** the footprint view may vary between hardware versions particularly on the AC output. For more information, please refer to the section "[Wiring access and connection](#)".

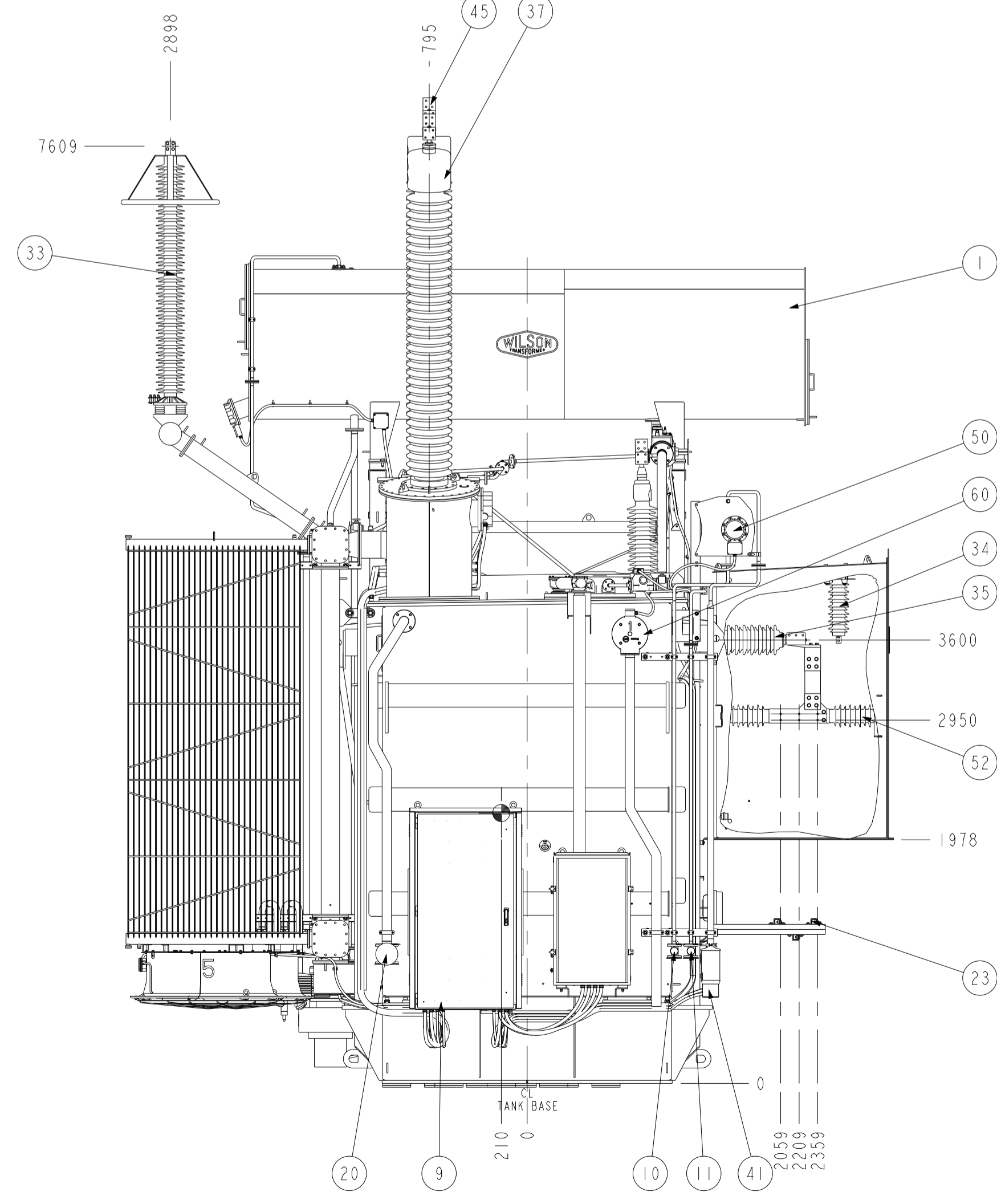
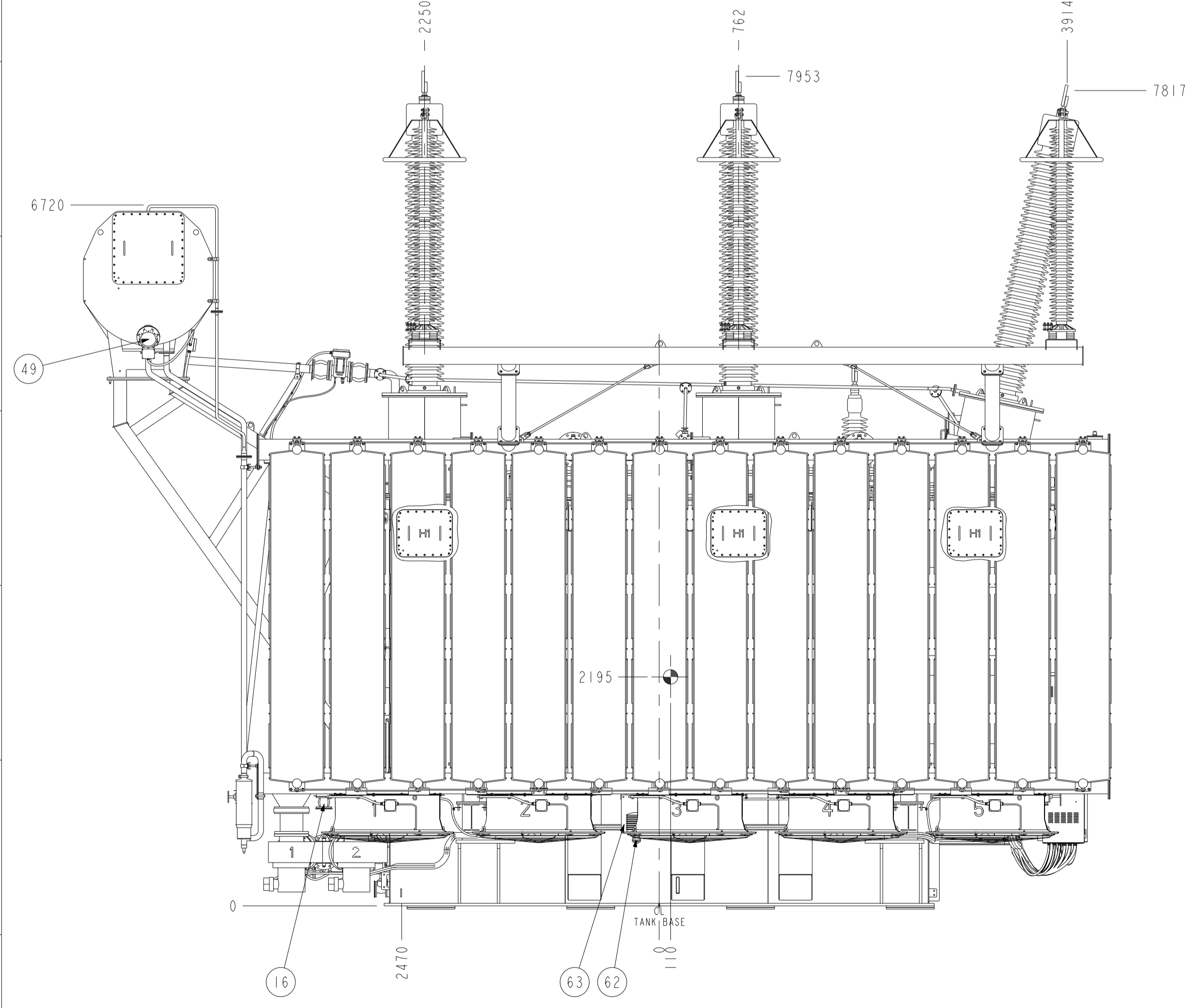
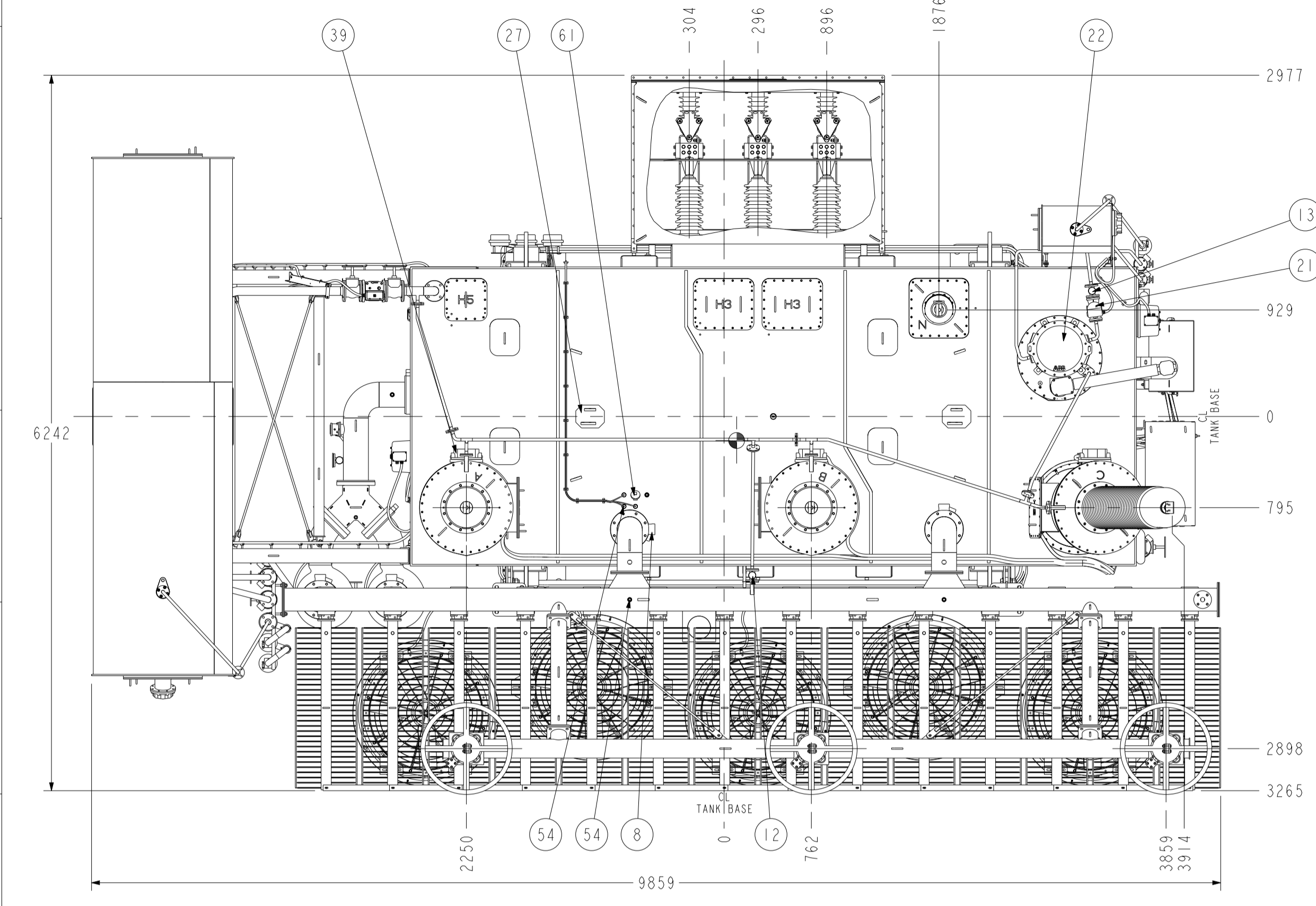
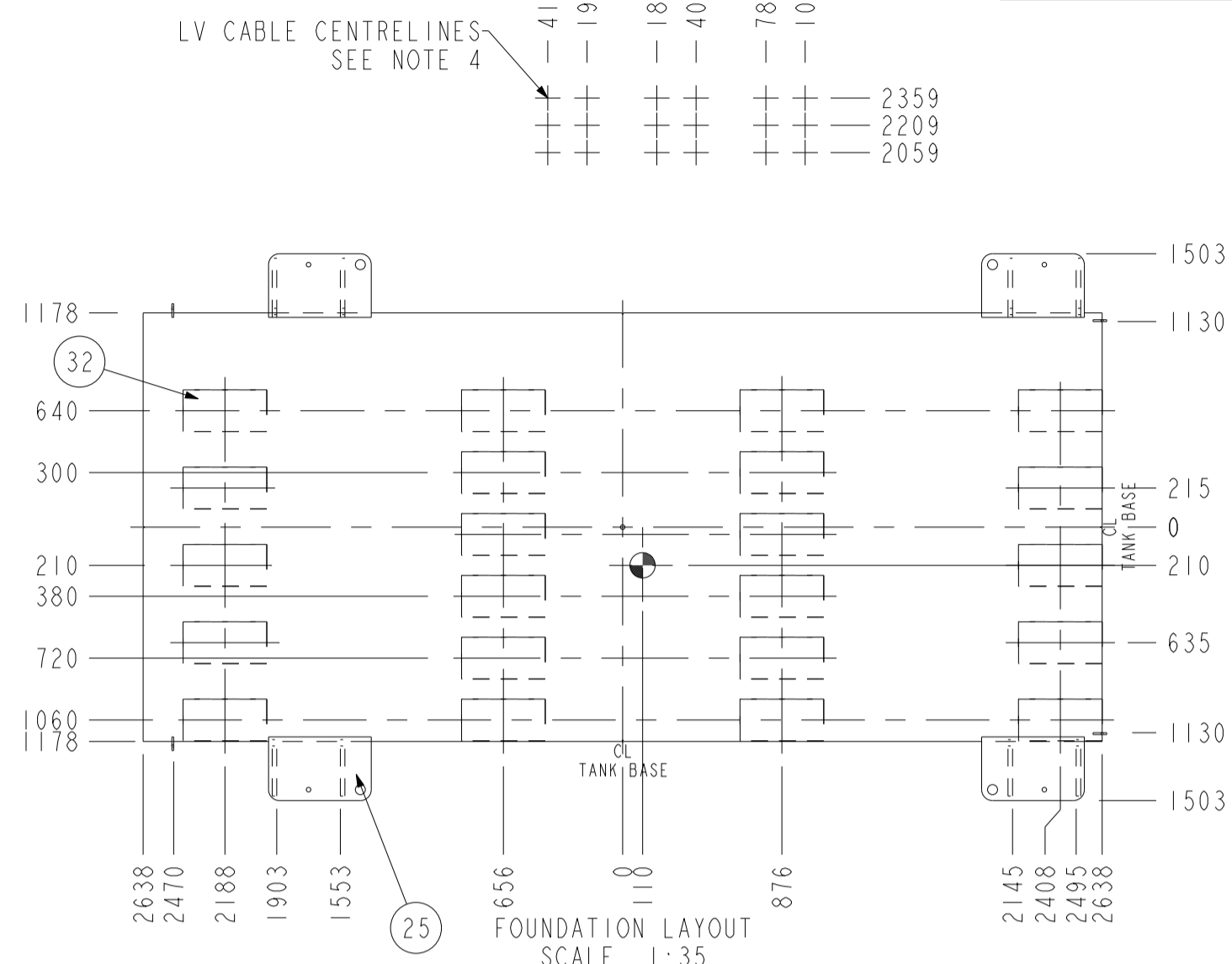
#### 3.2.1. Weight

Total weight is approximately 14t (30865lb).

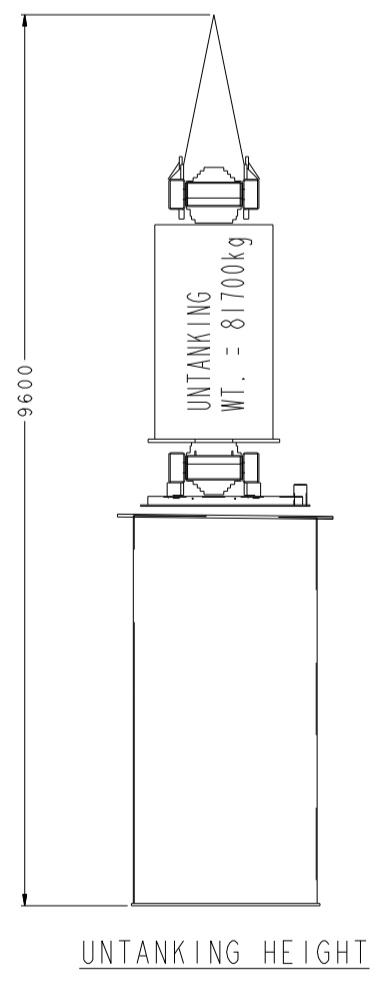
ESTIMATED MASSES

UNTANKING WEIGHT	81700 kg
TANK & FITTINGS	26100 kg
COOLERS (EMPTY)	12900 kg
TOTAL OIL	41500 kg
TOTAL TRFR. MASS : 162200 kg	
OIL VOLUME	47700 lit
Centre of Gravity	
Radiators may be added or subtracted based on test data	
TOLERANCE ON DIMENSIONS : ±5%	

ITEM	DESCRIPTION	QTY.	MAKE	PARTNO	B.O.M.
1	TRANSFORMER CONSERVATOR	1		2138-108E9000	-
2	OLTC CONSERVATOR	1		2138-108E9030	-
3	VALVE POSITION PLATE	1		591-2138C10	-
4	RATING AND DIAGRAM PLATE	1		720-2138C10	-
5	VALVE BUTTERFLY 200NB HEADER/PUMP ISOLATION	2		901-0163M10	-
6	VALVE BUTTERFLY 200NB PUMP ISOLATION	2		901-0163M10	-
7	VALVE BUTTERFLY 200NB TANK ISOLATION BOTTOM	1		901-0163M10	-
8	VALVE BUTTERFLY 200NB TANK ISOLATION TOP	2		901-0163M10	-
9	CONTROL CUBICLE 1600Hx820Wx400D	1			-
10	VALVE GATE 25NB BRASS D/F TABLE "D" WITH IND - OLTC CONSERVATOR DRAIN	1		901-1103M10	-
11	VALVE GATE 25NB BRASS D/F TABLE "D" WITH IND - OLTC DRAIN	1		901-1103M10	-
12	VALVE GATE 25NB BRASS D/F TABLE "D" WITH IND - HEADER BLEED ISOLATION	1		901-1103M10	-
13	VALVE GATE 25NB BRASS D/F TABLE "D" WITH IND - OLTC SUPPLY ISOLATION	1		901-1103M10	-
14	VALVE GATE 50NB BRASS D/F TABLE "D" WITH IND - MAIN CONSERVATOR DRAIN	1		901-1106M10	-
15	VALVE GATE 50NB BRASS D/F TABLE "D" WITH IND - MAIN CONSERVATOR VACUUM	1		901-1106M10	-
16	VALVE GATE 50NB BRASS D/F TABLE "D" WITH IND - BOTTOM HEADER DRAIN	1		901-1106M10	-
17	VALVE GATE 50NB BRASS D/F TABLE "D" WITH IND - TOP HEADER DRAIN	1		901-1106M10	-
18	VALVE GATE 50NB BRASS D/F TABLE "D" WITH IND - TANK DRAIN	1		901-1106M10	-
19	VALVE GATE 80NB BRASS D/F TABLE "D" WITH IND - BUCHHOLZ RELAY ISOLATION	2		901-1108M10	-
20	VALVE GATE 80NB BRASS D/F TABLE "D" WITH IND - FILL/FILTER	1		901-1108M10	-
21	SURGE RELAY - OLTC	1	ABB	851-1809P01	879013
22	OLTC VUCGRN 650/700/111	1	ABB	851-1809P01	879013
23	LV CABLE SUPPORT	3		787040	-
24	LASHING LUG	2		2138-501P501	837010
25	JACKING PAD	4		2138-668P504	837010
26	LUG EARTH	4		501-0163P10	837011
27	PERSONAL FALL ARREST DEVICE & SUPPORT PLATE - UNI-ANCHOR	2		665-0913M0	837011
28	AIR VENT DIN42558 SIZE 12	6		902-0064M10	837011
29	PUMP 200NB TEIKOKU QK55-200b 5.5kW	2	TEIKOKU	681-0026P10	837011
30	LABEL CORE EARTH	2		591-5120E10	879011
31	LABEL FRAME EARTH	2		591-5120E11	879011
32	PAD ANTIVIBRATION (BLACK)	22	GOODYEAR	668-0070M10	879012
33	HV SURGE ARRESTER PEKXIM Q198 YV245E	3	ABB	007-1912P01	879013
34	LV SURGE ARRESTER POLIM-S28N	3	ABB	007-1523M10	879013
35	BUSHING ZHIDA 40.5kV-4000A	3	ZHIDA	040-1152P05	879013
36	HVN BUSHING G08 380/1250 LF 123 102-L	1	ABB	040-1221P20	879013
37	HV BUSHING G0M 1050/1600	3	ABB	040-1976M10	879013
38	BOX CT SECONDARY ETI SM2-S 12 TERMINALS	1	ETI	045-0099M12	879013
39	BOX CT SECONDARY ETI SM2-L 20 TERMINALS	3	ETI	045-0100M20	879013
40	CORE/FRAME EARTH TERMINAL BOX	1	CEDASPE	045-0601P10	879013
41	BREATHER WTC4 VALVED FILTER WTC4_VF	1	WTC	050-0500E45	879013
42	BREATHER WTC6 IN-LINE WTC6_I	2	WTC	050-0500E61	879013
43	BREATHER WTC6 VALVED FILTER WTC6_VF	1	WTC	050-0500E65	879013
44	CABLE EARTH SCREEN BUSBAR	1		061-2138P85	879013
45	CLAMP SPLIT AIR SIDE NoS 2650A	4		105-0104P62	879013
46	RADIATOR 32/3200	14	TIANTONG	122-2107040	879013
47	DEVICE GROUND LEVEL TEST ETI BA-GA "B"	1	ETI	167-0002E11	879013
48	Ziehl-Abegg FAN 1000 DIA, 400 RPM, 7 BLADE, 5.7 m3/s (DELTA) IP54	5	Ziehl-Abegg	240-0051P10	879013
49	OIL LEVEL INDICATOR TRANSFORMER	1	ABB-COMEM	280-0062P10	879013
50	OIL LEVEL INDICATOR OLTC	1	ABB-COMEM	280-0085P10	879013
51	INSULATOR 3.3kV	3		380-0022M10	879013
52	POST INSULATOR SPI 36kV EMC SPI 380 12 12	6	EMC	380-0030M10	879013
53	OIL FLOW INDICATOR-MESSKO R ho L	1		381-0066P10	879013
54	POCKET THERMOMETER	8		670-0170M10	879013
55	GAS RLY ETI G080 GAS INJ 120 CM/SEC 2 CONT 04-101C	1	ETI	732-0283M10	879013
56	INDICATOR WTI 4SW 9M CAP - POT. HV	1	AKM	842-0110P10	879013
57	INDICATOR WTI 4SW 9M CAP - POT. LV	1	AKM	842-0110P10	879013
58	INDICATOR OTI 4SW 9M CAP - POT.	1	AKM	842-0110P10	879013
59	VALVE BUTTERFLY 80NB DIN	28	VIAT	901-0177M10	879013
60	VENT PRESSURE RELIEF MESSKO 10psi; 0.69bar	2	MESSKO	902-0071P40	879013
61	THERMOMETER Pt 100 RTD ASSY - OIL TEMP.	1		842-0117P10	879013
62	THERMOMETER Pt 100 RTD ASSY - AMBIENT TEMP.	1		842-0118P10	879013
63	AMBIENT AIR SENSOR ASSY - Pt100 RTD	1		842-0119M10	-
64	VALVE GATE 25NB BRASS D/F TABLE "D" WITH IND - BOTTOM OIL PIPE DRAIN	1		901-1103M10	-



HANDHOLE DESIGNATIONS  
H1 HV BUSHING CONNECTIONS  
H2 HV BUSHING DRAW ROD CONNECTION  
H3 LV BUSHING CONNECTIONS AND CT  
H4 HVN BUSHING INSPECTION  
H5 CORE/FRAME EARTH CONNECTIONS  
H6 ACCESS OLTC/TANK

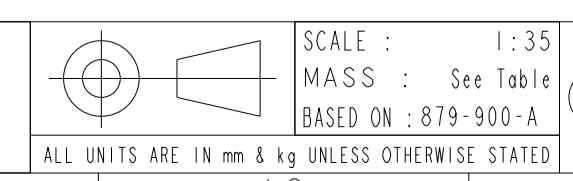


NOTES:  
1. ALL STRUCTURAL CONNECTIONS AS4100 4.6/S UNLESS SHOWN OTHERWISE.  
2. SEE DRAWING 888-2138E-A FOR TRANSPORT INFORMATION.  
3. SOME COMPONENTS HIDDEN IN SOME VIEWS FOR CLARITY.  
4. FINAL CABLE DIMENSIONS IN LONGITUDINAL DIRECTION WILL DEPEND ON CABLE LUG SELECTED.  
5. MAX DIMENSION OF UNINSULATED LUG TO MAINTAIN PHASE-PHASE AND PHASE-EARTH CLEARANCES WITH LV BUSHING PHASE CENTRES AS INDICATED.  
6. HANDHOLES ON LID HAVE WOOD PACKING.

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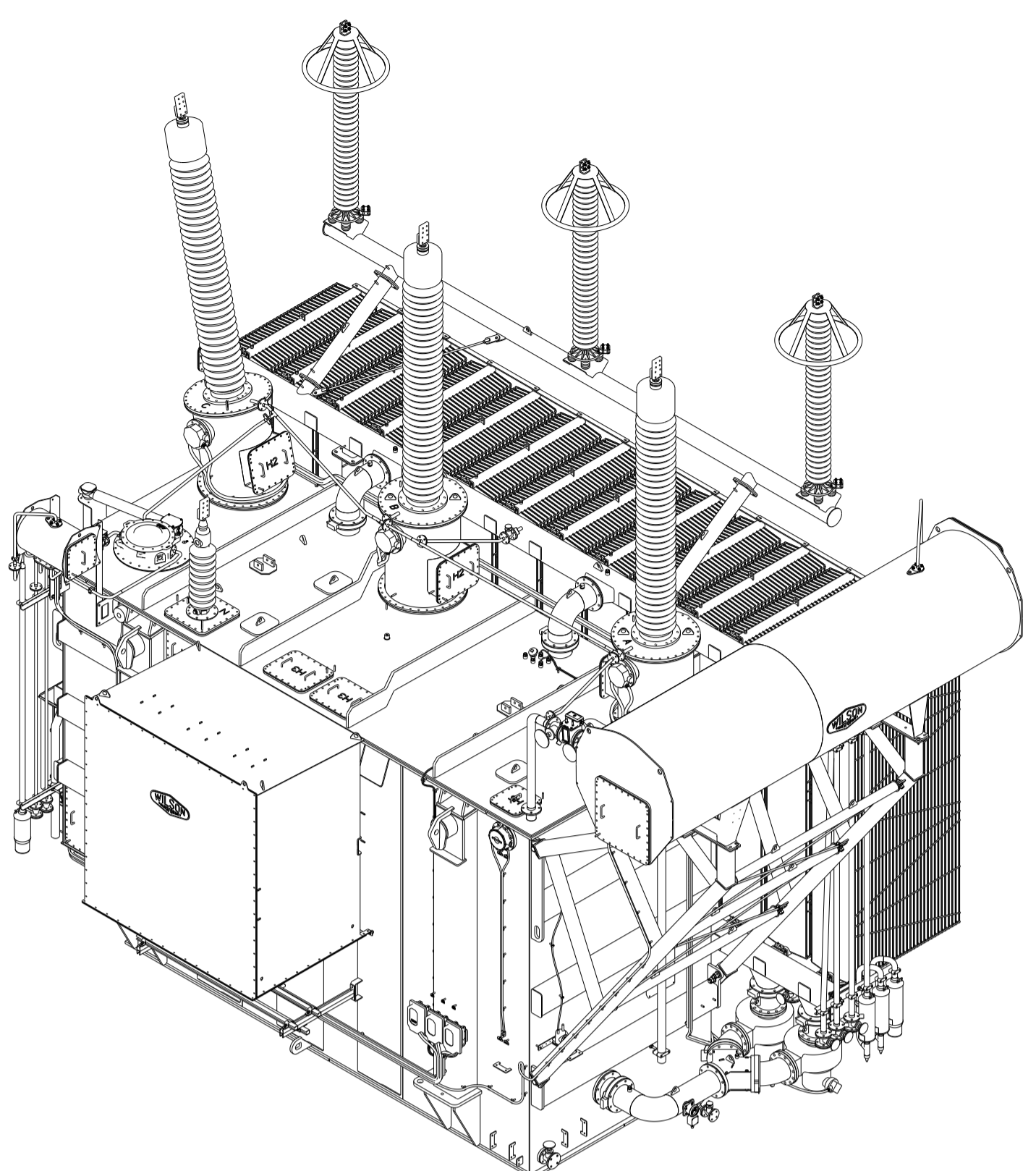
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A	UPDATED FAN DESCRIPTION	NL	SP	04-03-22	
O	Original Issue	NL	SP	31-01-22	
REV	DESCRIPTION	RE	DRWN	CHKD	DATE

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PROJECT: 85/170 MVA 220/33 kV ONAN/ODAF TRANSFORMER  
SITE:

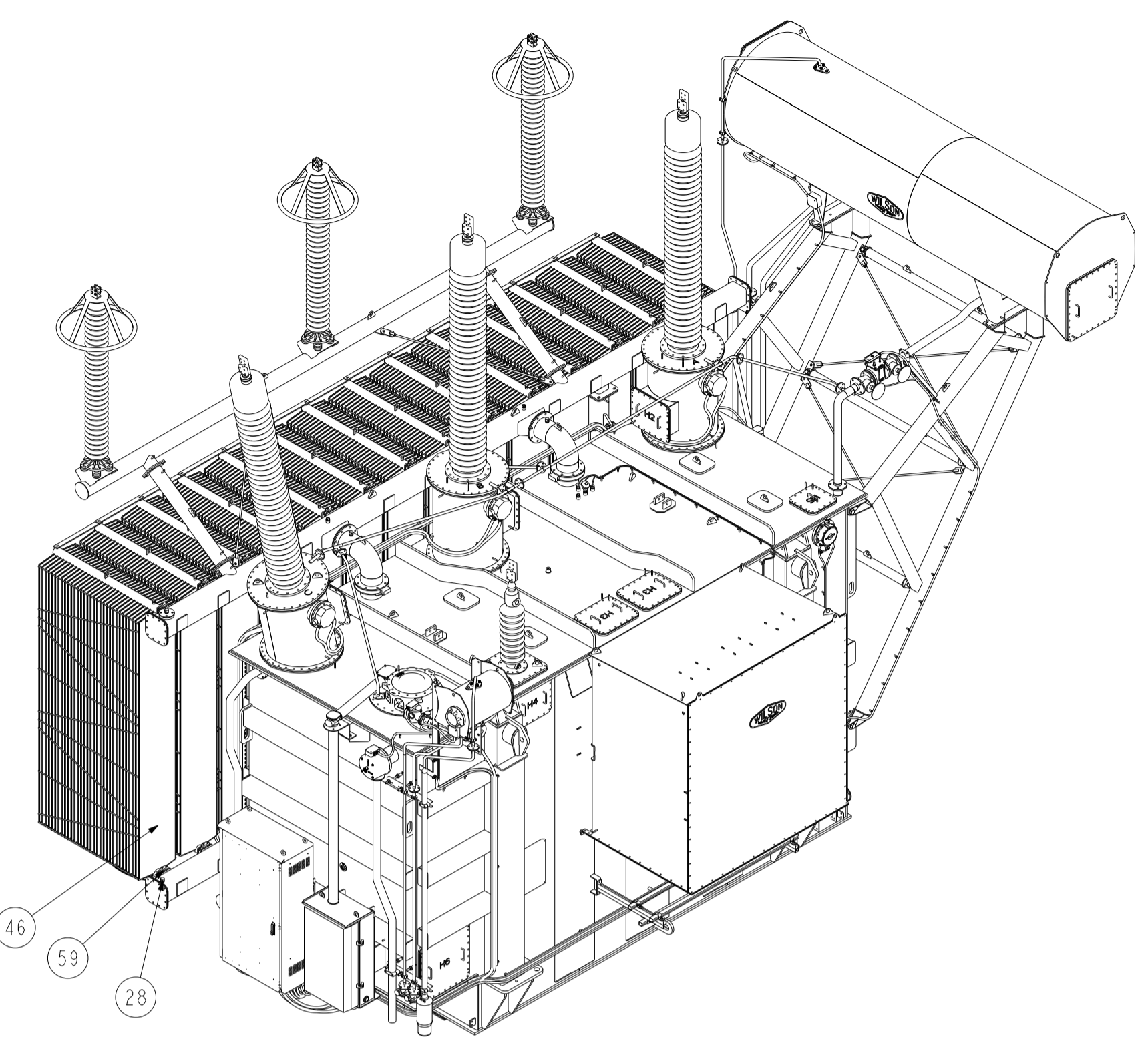


WILSON TRANSFORMER  
TITLE: GENERAL ARRANGEMENT  
85/170 MVA 220/33 kV ONAN/ODAF TRANSFORMER  
DRAWING NO.: 879-2138C-A  
REV.: B  
Page 1 of 2

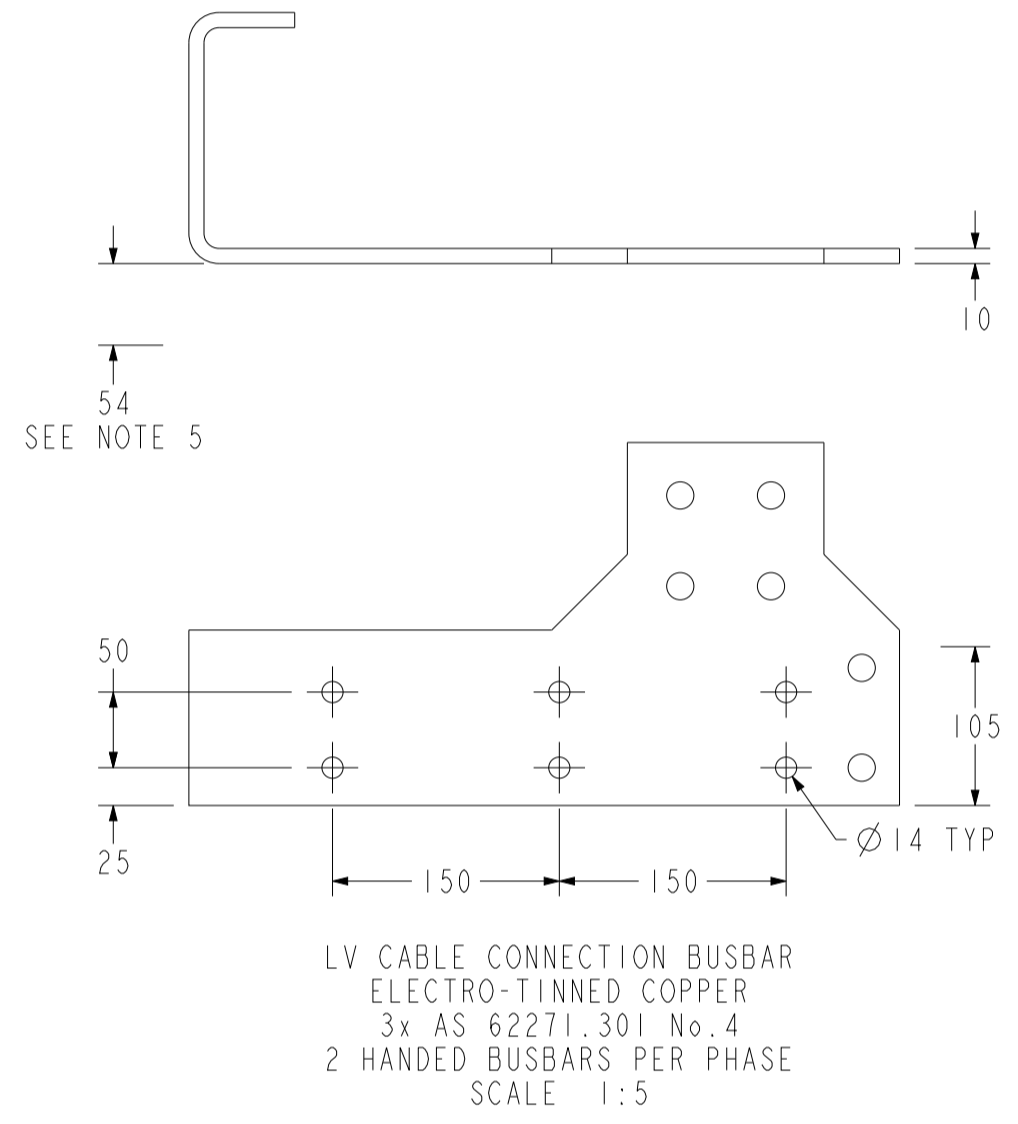
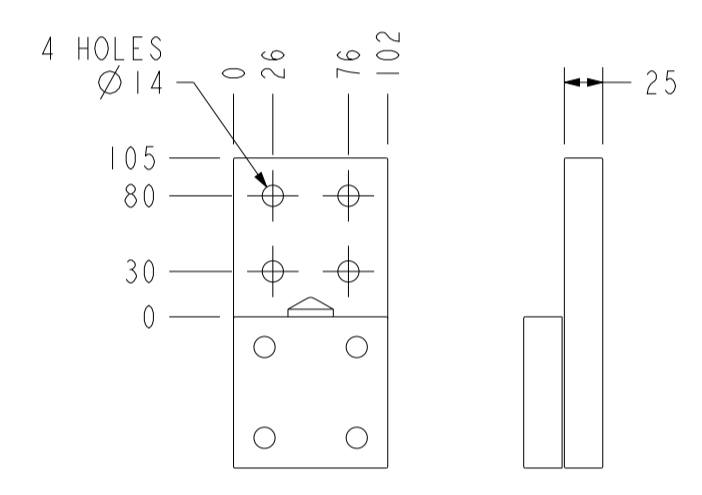
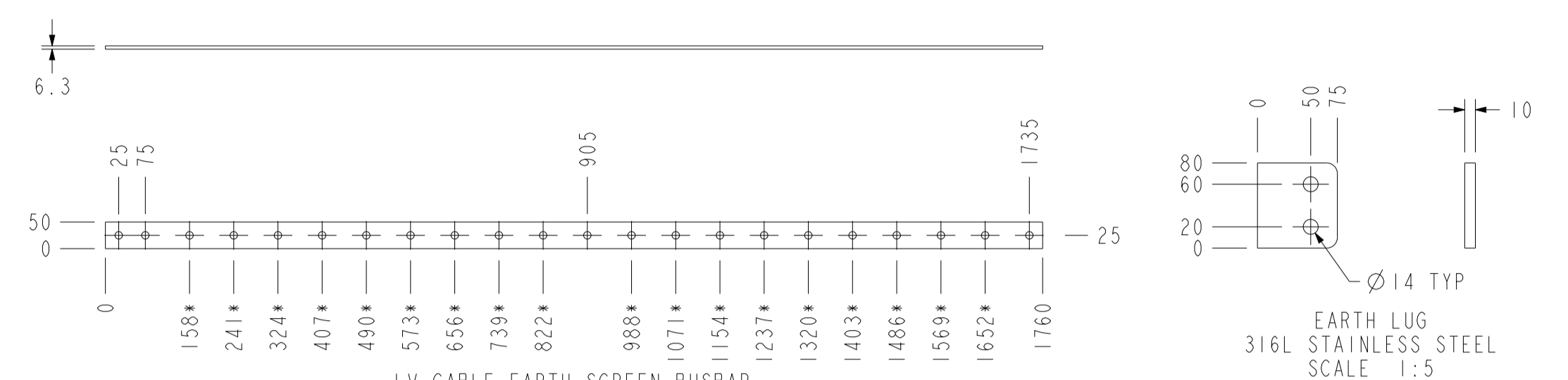
- NOTES:
1. ALL STRUCTURAL CONNECTIONS AS4100 4.6/S UNLESS SHOWN OTHERWISE.
  2. SEE DRAWING 888-2138C-A FOR TRANSPORT INFORMATION.
  3. SOME COMPONENTS HIDDEN IN SOME VIEWS FOR CLARITY.
  4. FINAL CABLE DIMENSIONS IN LONGITUDINAL DIRECTION WILL DEPEND ON CABLE LUG SELECTED.
  5. MAX DIMENSION OF UNINSULATED LUG TO MAINTAIN PHASE-PHASE AND PHASE-EARTH CLEARANCES WITH LV BUSHING PHASE CENTRES AS INDICATED.
  6. HANDHOLES ON LID HAVE WOOD PACKING.



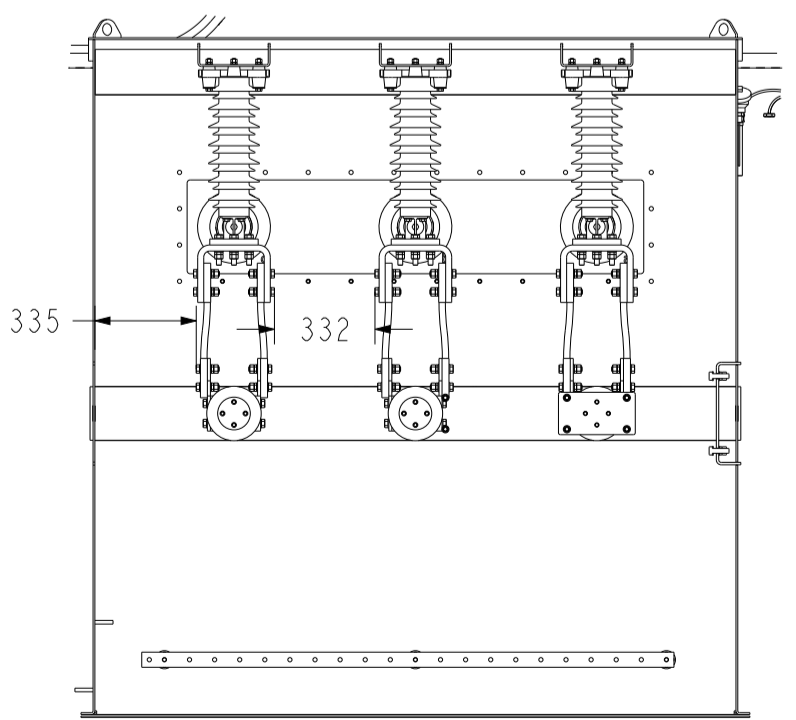
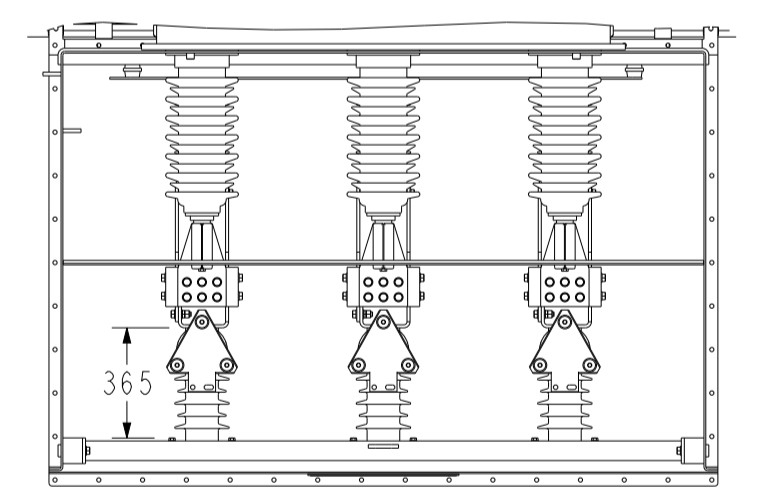
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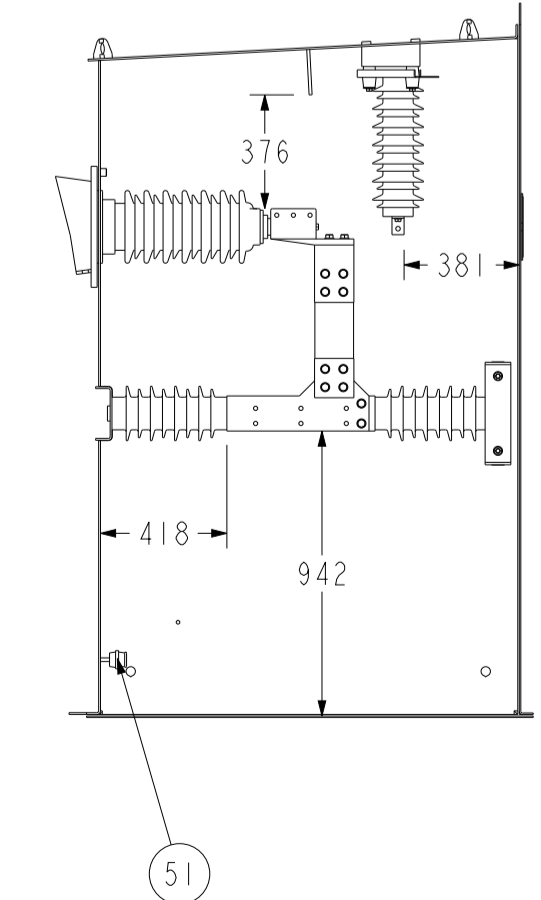
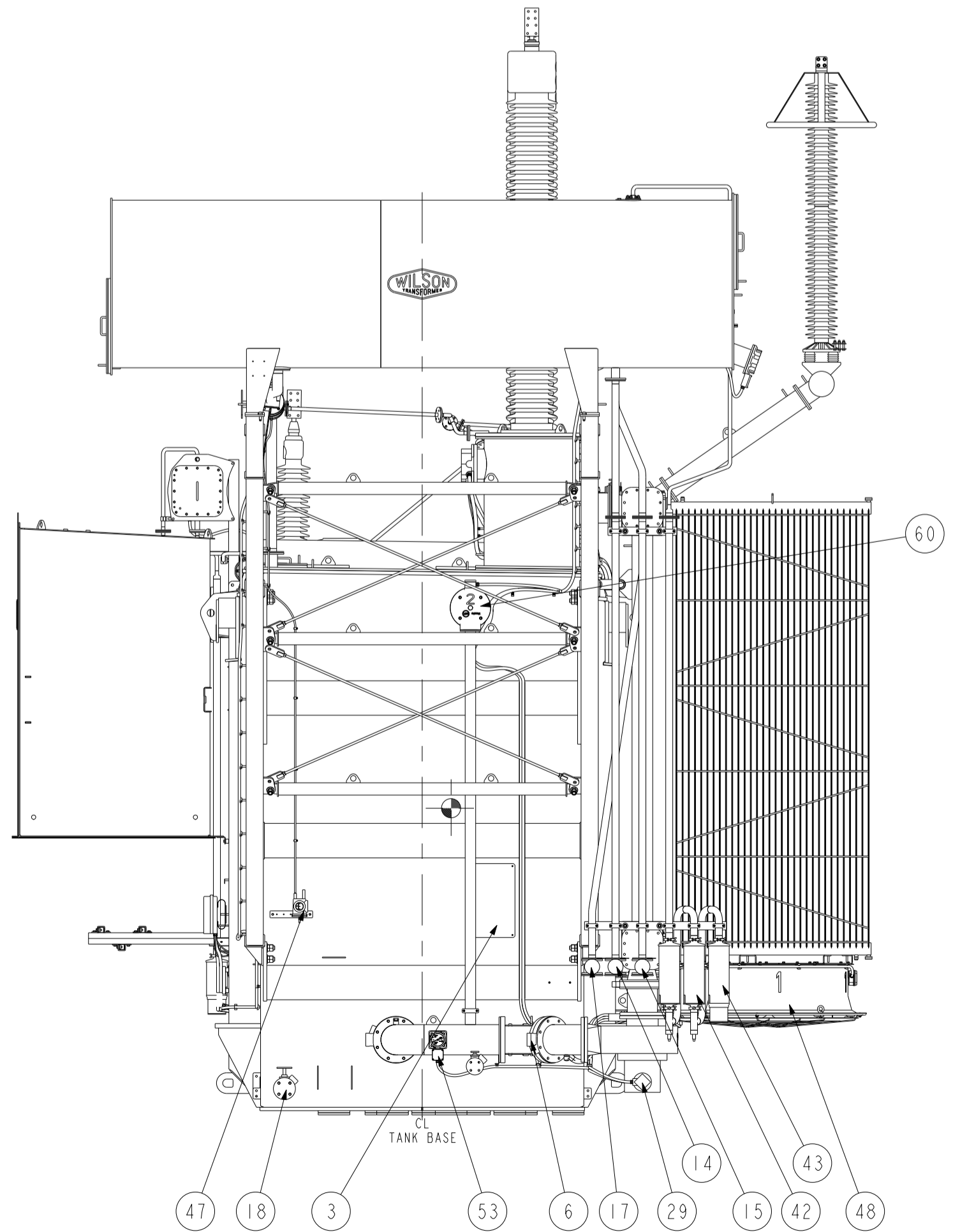
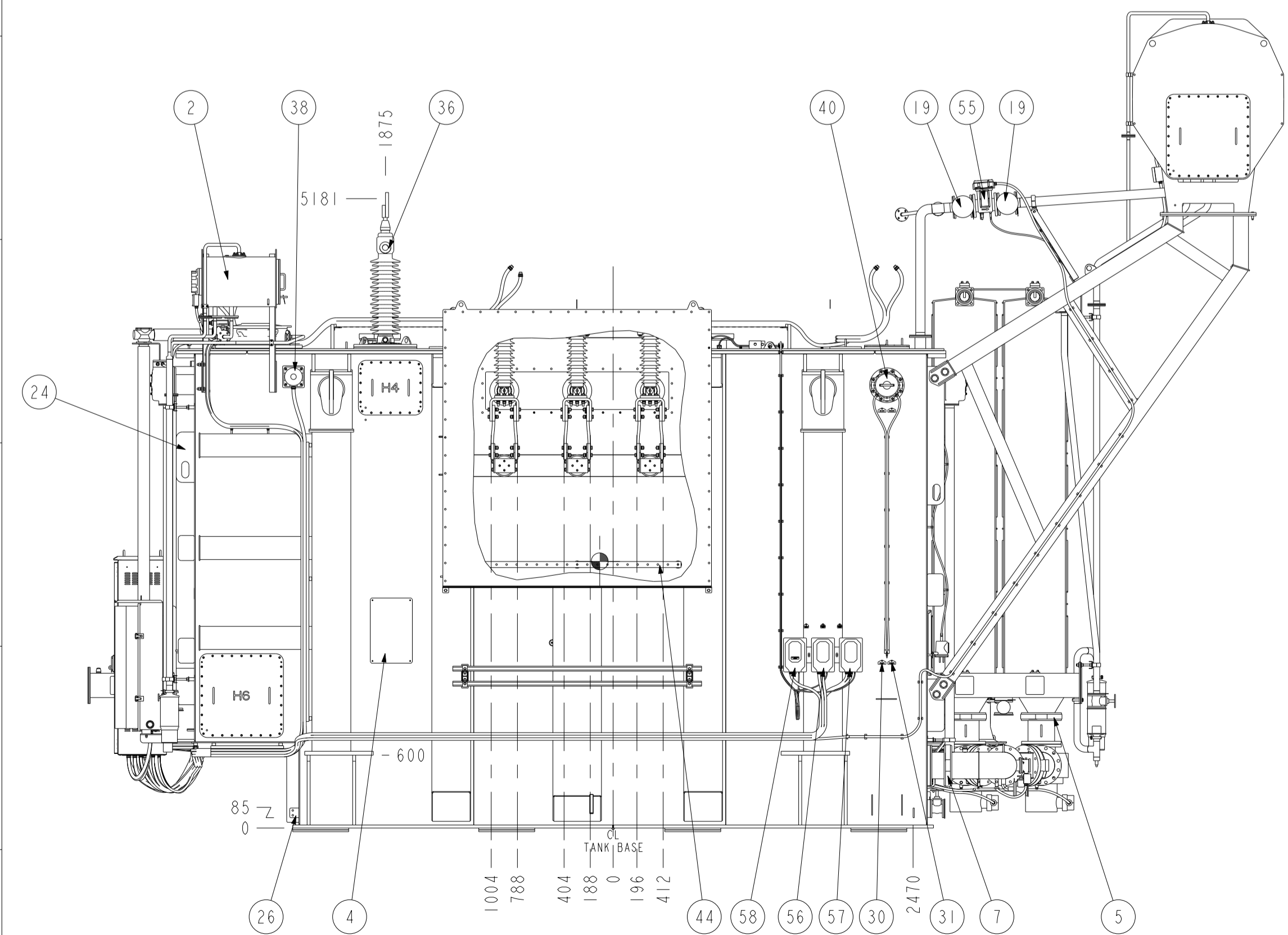
SCALE 1:50



- HANDHOLE DESIGNATIONS
- H1 HV BUSHING CONNECTIONS
  - H2 HV BUSHING DRAW ROD CONNECTION
  - H3 LV BUSHING CONNECTIONS AND CT
  - H4 HVN BUSHING INSPECTION
  - H5 CORE/FRAME EARTH CONNECTIONS
  - H6 ACCESS OLTC/TANK



LV CABLE BOX CLEARANCES  
SCALE 1:25



REV	DESCRIPTION	NL	RE	DRWN	CHKD	DATE
B	ADDED TOP OIL, AMBIENT RTD & BOTTOM OIL PIPE DRAIN VALVE	RS	NL			10-06-22
A	UPDATED FAN DESCRIPTION	NL	SP			04-03-22
O	Original Issue	NL	SP			31-01-22

CUSTOMER: FLUENCE ENERGY  
PROJECT: SITE

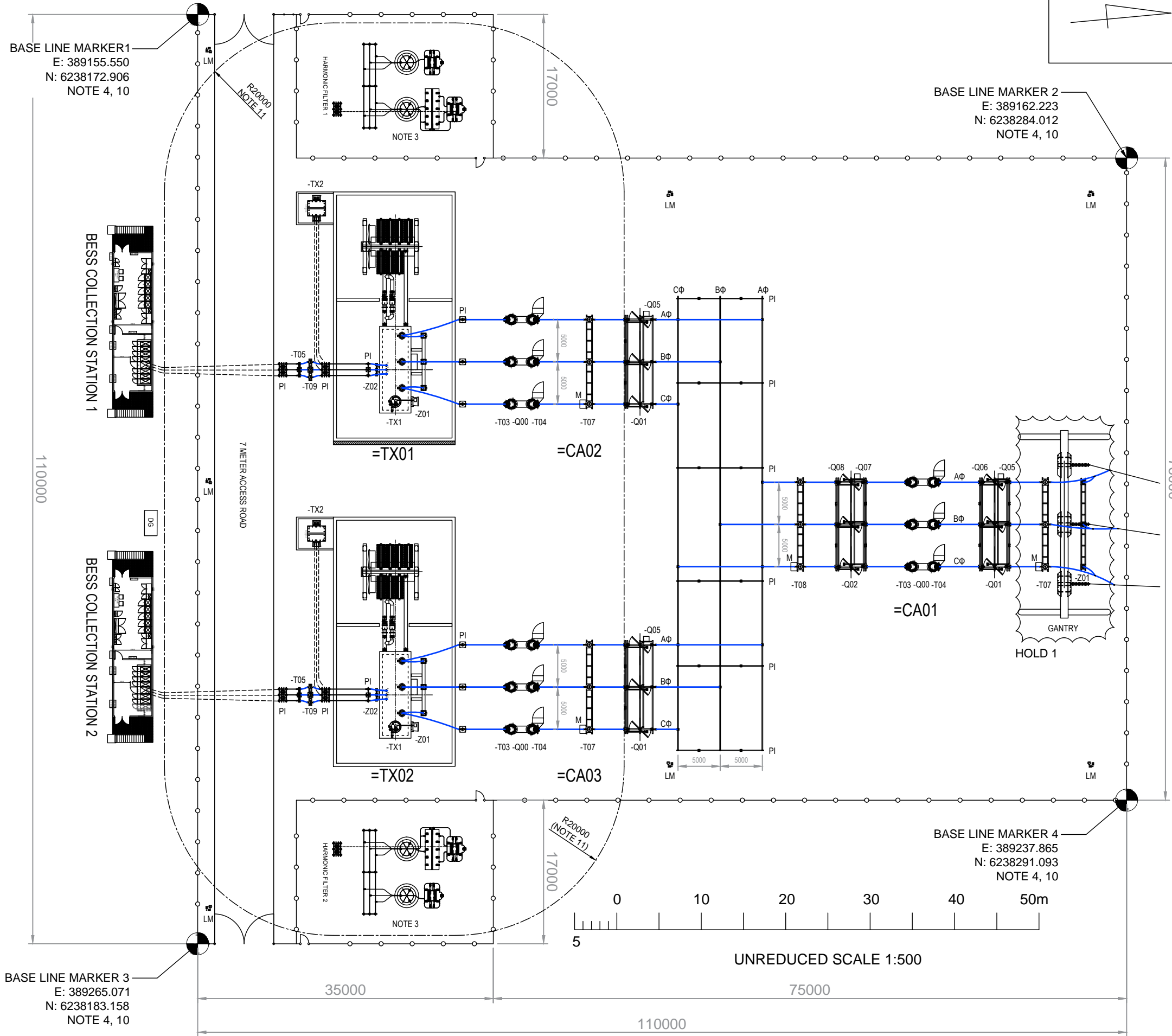
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MASS: See Table  
BASED ON: 879-900-A



TITLE: GENERAL ARRANGEMENT  
85/170 MVA 220/33 kV ONAN/ODAF TRANSFORMER

DRAWING NO.: 879-2138C-A  
REV.: B  
Page 2 of 2

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330kV MAJOR EQUIPMENT SCHEDULE	
330kV SS BAYS (=CA01, =CA02 & =CA03)	
-Q00	330kV CIRCUIT BREAKER
-Q01 & -Q02	330kV DISCONNECTORS
-Q05 TO -Q08	330kV EARTH SWITCHES
-T03 & -T04	330kV CURRENT TRANSFORMERS
-T07 & -T08	330kV CAPACITIVE VOLTAGE TRANSFORMERS
-Z01	330kV SURGE ARRESTER
TRANSFORMER BAYS (=TX01 & =TX02)	
-TX1	330/33kV POWER TRANSFORMERS
-TX2	33/0.415kV EARTHING/AUXILIARY TRANSFORMERS
-CT1 TO -CT4	TRANSFORMER BUSHING CTS
-T05	33kV CURRENT TRANSFORMERS
-T09	33kV VOLTAGE TRANSFORMERS
-Z01	330kV SURGE ARRESTER
-Z02	33kV SURGE ARRESTER

- LEGEND:**
- SECURITY FENCE
  - 33 kV CABLES
  - FIRE EXPOSURE ZONE
  - STRUNG BUS
  - LIGHTING MOUNTED TO LIGHTNING MAST
  - BASE LINE MARKER
  - LIGHTING/LIGHTNING MAST
  - POST INSULATOR
  - MARSHALLING BOX

- NOTES:**
1. THIS DRAWING IS TO BE PRINTED IN COLOUR.
  2. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS (mm).
  3. HARMONIC FILTER EQUIPMENT TO BE SUPPLIED AND INSTALLED BY THE SUBSTATION CONTRACTOR.
  4. UTM COORDINATES ARE BASED ON GDA-2020 ZONE 54 AND IS SHOWN IN METERS (m).
  5. 330kV LANDING POLE LOCATIONS ARE NOT SHOWN IN THIS DRAWING. REFER TO SITE PLAN DRG RLD-DE-3100.
  6. LIGHTNING MAST LOCATIONS AND HEIGHTS ARE INDICATIVE ONLY AND WILL BE FINALISED ONCE THE LIGHTNING STUDY HAS COMMENCED AS PART OF THE DETAILED DESIGN.
  7. EQUIPMENT VENDOR DETAILS TO BE FINALISED AS PART OF DETAILED DESIGN.
  8. SWITCHYARD LIGHTING IS INDICATIVE ONLY AND SUBJECT TO LIGHTING STUDY AS PART OF DETAILED DESIGN.
  9. THE HARMONIC FILTER(S) COMPOUND DIMENSIONS IS INDICATIVE ONLY AND SUBJECT TO SIZING AND SPECIFICATION OF THE HARMONIC FILTER.
  10. SUBSTATION LOCATION IS INDICATIVE ONLY AND WILL BE FINALISED DURING DETAILED DESIGN.
  11. FIRE EXPOSURE ZONE RADIUS IS INDICATIVE ONLY AND WILL BE FINALISED ONCE TRANSFORMER SELECTION IS COMPLETED.

- HOLDS:**
1. GANTRY LOCATION TO BE CONFIRMED.

**PRELIMINARY**

**DO NOT SCALE FROM DRAWING**  
**DRAWINGS TO BE PRINTED IN COLOUR**  
 PLEASE NOTE

REV No	REVISION DESCRIPTION	DRAWN BY	APPR'D BY	CHECKED BY	DATE
A	PRELIMINARY	RR	MM	NH	18.12.25



CLIENT: OX2	
DRAWN BY: R. REYES	DATE: 18.12.2025
DESIGNED BY: R. REYES	DATE: 18.12.2025
DRG. CHECKED BY: M. MOSTAFAVEYPOUR	DATE: 18.12.2025
DES. CHECKED BY: M. MOSTAFAVEYPOUR	DATE: 18.12.2025
CAD FILE No:	APPROVED: N. HALL
	DATE: 18.12.2025

PROJECT: RIVERLAND SOLAR FARM & BESS PROJECT		TITLE: 330 kV DCA SUBSTATION GENERAL ARRANGEMENT		SHEET SIZE: A3	
PROJECT ID	CREATING ORGANISATION	DRAWING No.	REVISION		
	OX2	RLD-DE-3101	A		

N

Road

NOTES:

- ✓ 1. THIS DRAWING IS TO BE PRINTED IN COLOUR.
- ✓ 2. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS (mm).
- ✓ 3. UTM COORDINATES ARE BASED ON GDA-2020 ZONE 54 AND IS SHOWN IN METERS (m).
- ✓ 4. 330kV LANDING POLE LOCATIONS ARE NOT SHOWN IN THIS DRAWING. REFER TO SITE PLAN DRG RLD-DE-3100.
- ✓ 5. EQUIPMENT VENDOR DETAILS TO BE FINALISED AS PART OF DETAILED DESIGN.
- ✓ 6. SWITCHING STATION LOCATION IS INDICATIVE ONLY AND WILL BE FINALISED DURING DETAILED DESIGN.
- ✓ 7. ALL GANTRY LOCATIONS ARE INDICATIVE ONLY AND WILL BE FINALISED DURING DETAILED DESIGN.

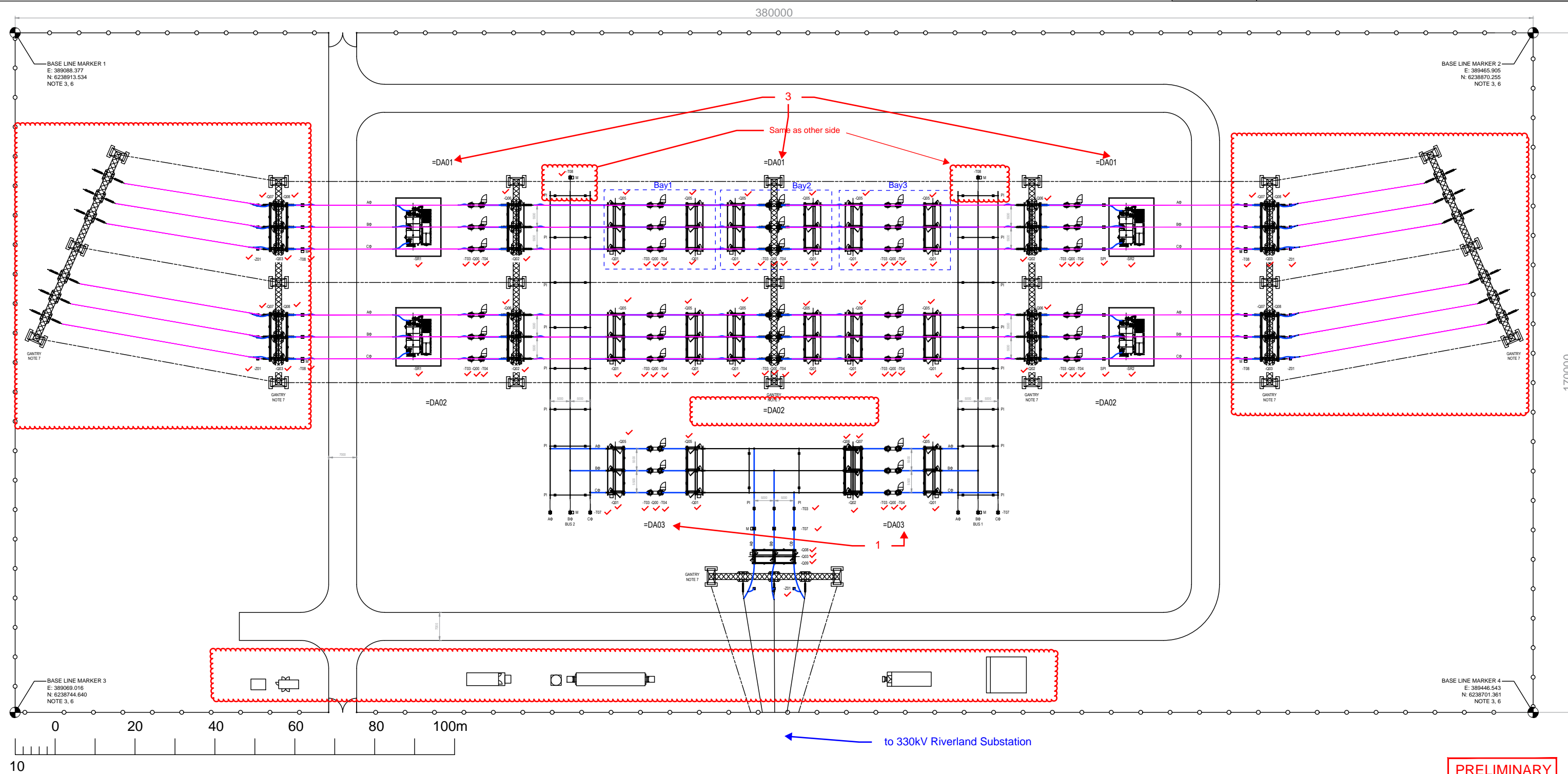
For the substation

LEGEND:

- ✓ ○—○ SECURITY FENCE
- ✓ - - - - - OVERHEAD EARTH WIRES
- ✓ ——— OVERHEAD LINES
- ✓ ——— STRUNG BUS
- ✓ ● BASE LINE MARKER
- ✓ PI POST INSULATOR
- ✓ SPI SHUNT POST INSULATOR
- ✓ M MARSHALLING BOX

330kV MAJOR EQUIPMENT SCHEDULE

330kV SWS BAYS (=DA01, =DA02 & =DA03)	
✓ -Q00	330kV CIRCUIT BREAKER ✓
✓ -Q01 TO -Q03	330kV DISCONNECTORS ✓
✓ -Q05 TO -Q09	330kV EARTH SWITCHES
✓ -T03 & -T04	330kV CURRENT TRANSFORMERS ✓
✓ -T07	330kV POWER VOLTAGE TRANSFORMERS ✓
✓ -T08	330kV CAPACITIVE VOLTAGE TRANSFORMERS ✓
✓ -Z01	330kV SURGE ARRESTER ✓
✓ -SR1 & -SR2	330kV SHUNT REACTORS ✓



PRELIMINARY

DO NOT SCALE FROM DRAWING  
DRAWINGS TO BE PRINTED IN COLOUR  
PLEASE NOTE

REV No	REVISION DESCRIPTION	DRAWN BY	APPR'D BY	CHECKED BY	DATE
A	PRELIMINARY	RR	MM	NH	07.01.26



CLIENT: OX2		PROJECT: RIVERLAND SOLAR FARM & BESS PROJECT	
DRAWN BY: R. REYES	DATE: 07.01.2026	DESIGNED BY: R. REYES	DATE: 07.01.2026
DRG. CHECKED BY: M. MOSTAFAVEYPOUR	DATE: 07.01.2026	DES. CHECKED BY: M. MOSTAFAVEYPOUR	DATE: 07.01.2026
CAD FILE No:	APPROVED: N. HALL	DATE: 07.01.2026	

TITLE: 330 kV IUSA SWITCHING STATION GENERAL ARRANGEMENT		SHEET SIZE: A3	
PROJECT ID	CREATING ORGANISATION: OX2	DRAWING No. RLD-DE-3101	REVISION: A