PETROVIETNAM PVEP-POC	**DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LIMITED (PVEP-POC)**
PROJECT	**DAI HUNG NAM PROJECT, BLOCK 05.1(a) OFFSHORE VIETNAM**
PHASE	**FRONT END ENGINEERING DESIGN (FEED)**

JACKET WEIGHT CONTROL REPORT

Rev.	Date	Description	Approved by RNZ	Approved by PVEP-POC
1	19 Dec 24	Re-Approved for Construction	Shahnaz Norwawi	

Petrofac RNZ PETROVIETNAM PVE

CONTRACTOR: RNZ INTEGRATED (M) SDN BHD

SUBCONTRACTOR: PVENGINEERING CONSULTANCY JSC

Document number:

WHP-DHN-S-R-1013

Number of pages: 27 pages (including this page)

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			RNZ		
1	19 Dec 24	Re-Approved for Construction			
0	05 Dec 24	Approved for Construction			
D0	30 Oct 24	Approved for Design			
C0	16 Aug 24	Issued for Review	Irham	Mohamad Redza	

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REVISION RECORD SHEET

No.	Revision No.	Content of revision	Date of revision
1	C0	Issued for Review	16 Aug 24
2	D0	Approved for Design	30 Oct 24
3	0	Approved for Construction	05 Dec 24
4	1	Re-Approved for Construction	19 Dec 24

JACKET WEIGHT CONTROL REPORT

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1. PROJECT OVERVIEW

1.1 INTRODUCTION

Dai Hung Nam (DHN) area is located in the southern part of Dai Hung oil field of Block 05-1(a), approximately 250 km from the coastline of the South-Eastern Vietnam and is situated in a water depth of 110 m (average). Block 05-1(a) has been operated by PVEP since 2003. The center of DHN is located approximately 3.5 km from the existing WHP-DH02 and 7.5 km from the current location of the FPU.

The location map of Block 05-1(a) is as hereunder in Figure 1.1.1.

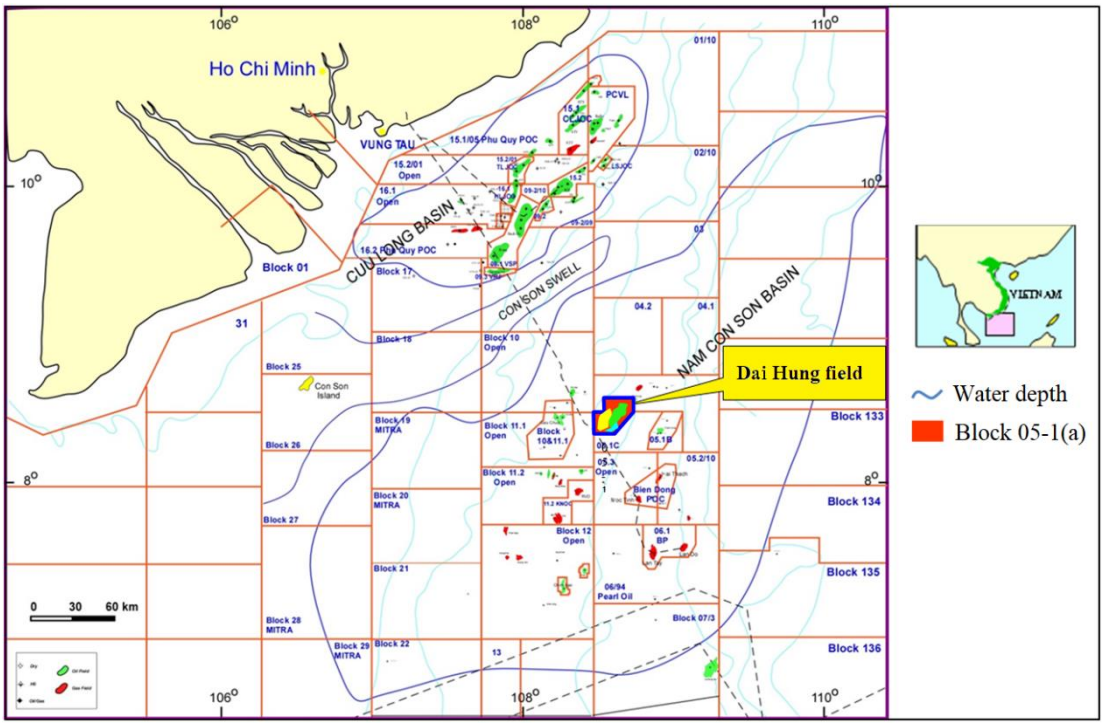

Figure 1.1.1: Block 05-1(a) Location

1.2 BLOCK 05-1(A) EXISTING FACILITIES

The block facilities currently comprise of: Floating Production Unit Dai Hung (FPU), subsea wells, flowlines, mid depth buoy, calm buoy, and a 6" oil export pipeline that routes product liquid from the FPU to the FSO. The Wellhead Platform DH02 (WHP-DH02) is located in southwest direction of FPU at a distance of about 5km, dual 6" subsea export pipeline that transports the liquid from WHP-DH02 to FPU for further processing. Dai Hung gas gathering system with a pipeline length of approximately 20 km to transport gas from WHP-DH02 to BK-TNG of Vietsovpetro Joint Venture (VSP) (Figure 1.2.1); and the wellhead platform DH01 (WHP-DH01) is located in northeast

direction of FPU at a distance of about 2.5 km, 10" subsea export pipeline that transport the liquid from WHP-DH01 to FPU for further processing, 6" fuel gas pipeline to supply fuel gas to FPU, 8" water injection pipeline for supplying water injection from FPU to WHP-DH01 and 12" export gas to BK-TNK.

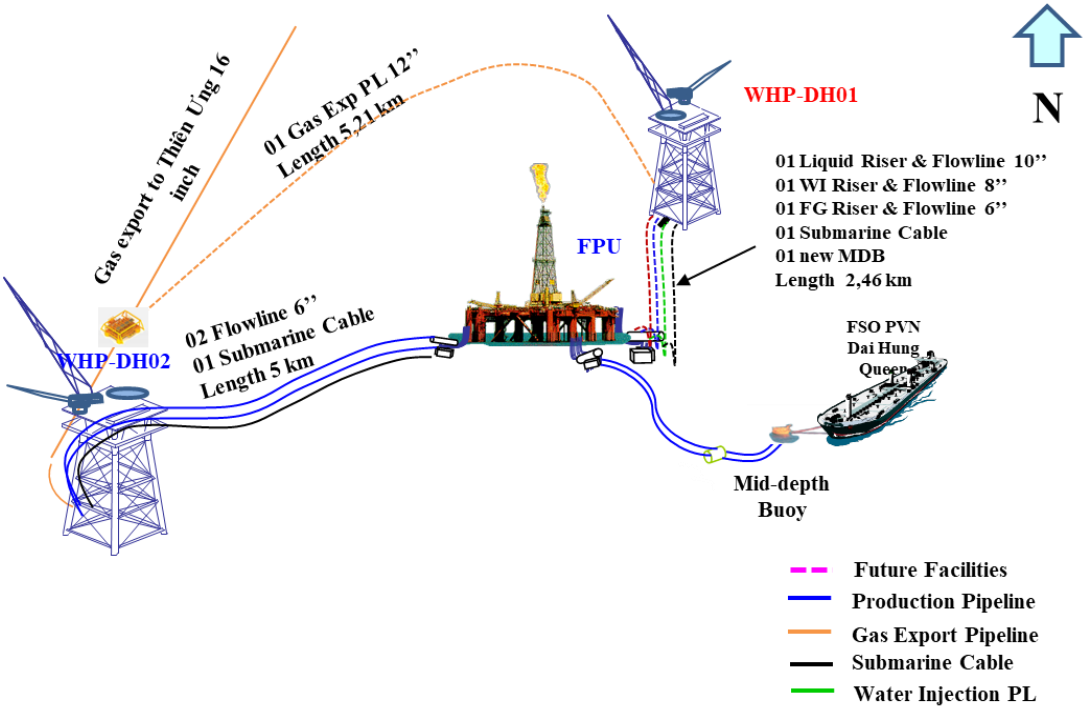

Figure 1.2.1: Existing Dai Hung field facilities in 2024

1.3 DAI HUNG NAM DEVELOPMENT SCHEME

The field facilities in Dai Hung Nam Field Development are as follows:

- New unmanned wellhead platform WHP-DHN located near WHP-DH02. WHP-DHN will be designed with 11 well slots for drilling by jack-up rig. Full wellstream of WHP-DHN will be routed to a Production Separator (on WHP-DHN) then the separated liquid is transported to FPU for further processing, a separated associated gas is exported to BK-TNG.
- Infield Pipelines
  + One liquid rigid pipeline, transporting separated liquid from WHP-DHN to FPU through subsea tie-in point of existing 10" liquid flowline from WHP-DH01 to FPU.
  + One gaslift rigid pipeline, transporting gaslift from WHP-DHN to WHP-DH02.

+ One export gas/source gas, transporting separated associated gas/source gas from WHP-DHN to subsea tie-in point of 16" existing export gas pipeline and via versa.
+ One water injection rigid pipeline, transporting water injection from FPU to WHP-DHN through subsea tie-in point of existing 8" water injection flowline from FPU to WHP-DH01.

- Modification works on WHP-DH02, WHP-DH01 and FPU for connection and processing.

Scheme of Dai Hung Nam Field Development is presented as below.

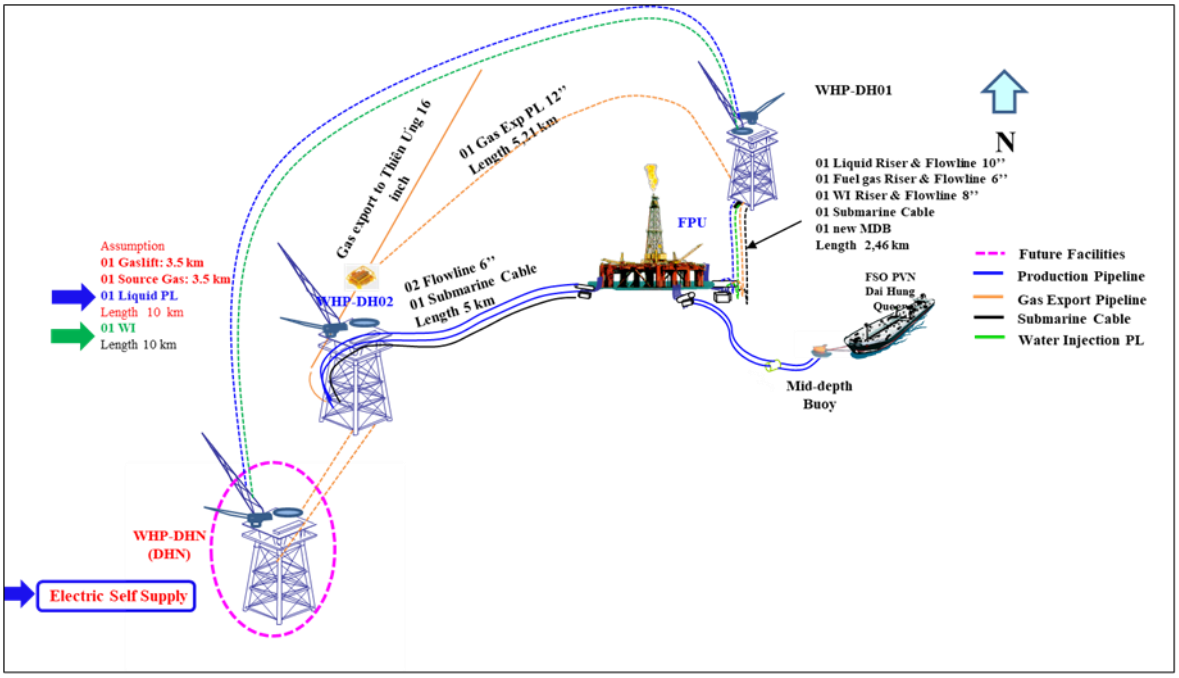

Figure 1.3.1: Dai Hung Nam Field Development Scheme

2. PURPOSE AND SCOPE

The purpose of this report is to:

- Publish the WHP-DHN Jacket weights and center of gravity (COG) at the various phases (Loadout, Transportation, Launch, Dry and Operating, etc.) for jacket structural design during Front End Engineering Design (FEED) stage.
- Monitor the weight at various phase of operation to ensure that it is within the NTE weight adopted for the design of the Jacket, Pile foundation and Docking Pile.
- Monitor the trend of Jacket weights and COGs.

The weights and COGs are presented for the following phases of the jacket life cycle:

- Loadout
- Transportation
- Launch
- Dry
- Operating

3. DEFINITIONS AND ABBREVIATIONS

3.1 DEFINITIONS

PROJECT	Dai Hung Nam Project
CLIENT	Domestic Petroleum Operating Branch – PetroVietnam Exploration Production Corporation Limited (PVEP-POC)
CONTRACTOR	RNZ Integrated (M) SDN BHD
SUBCONTRACTOR	PVEngineering Consultancy JSC

3.2 ABBREVIATIONS

AISC	American Institute of Steel Construction
API	American Petroleum Institute
COG	Centre of Gravity
EL	Elevation
FEED	Front End Engineering Design
MSL	Mean Sea Level
MT	Metric Tonne
NTE	Not to Exceed
SACS	Structural Analysis Computer System
WCR	Weight Control Report
WHP	Wellhead Platform
WP	Working Point

4. UNIT OF MEASUREMENT

The unit of measurement will be in the International System of Unit (SI).

Acceleration	–	Meter per second² (m/sec²)
Density	–	kg/m^3
Force	–	Kilonewton (kN)
Length	–	Meters (m) or Millimeters (mm)
Mass	–	Tonnes (MT) or Kilograms (kg)
Moment	–	kN.m
Stress	–	MPa or N/mm²
Time	–	Seconds (sec)
Velocity	–	Meter per second (m/sec)

5. REFERENCE DOCUMENT, DRAWING, CODES AND STANDARDS

5.1 PROJECT DOCUMENT & DRAWINGS

No.	Document No.	Document Title	Rev.
1	WHP-DHN-S-A-1001	Jacket Design Basis and Brief	1
2	WHP-DHN-S-P-0001	WHP-DHN Weight Control Procedure	0
3	WHP-DHN-S-B-1001	Jacket MTO Report	0
4	WHP-DHN-S-R-1001	Jacket Computer Modelling and Load Formulation Report	1

1

5.2 CODES AND STANDARDS

Unless otherwise indicated, appropriate versions of the codes, standards, specifications, and recommended practices that are used in this document are mentioned below. The aforementioned will serve as the basis for this specification, together with the materials they refer to. The requirements and recommendations shall be applicable in conjunction with the Codes and Standards cited in any relevant Vietnamese National Regulations. Consequently, the provisions of the current documents may be supplemented or amended by these regulations

No.	Document No.	Document Title
5	API RP 2A-WSD, 22nd Edition, November 2014	Recommended Practice for Planning, Designing, and Constructing Fixed Offshore Platforms – Working Stress Design
6	AISC, 9th Edition, 1989	Specification for Structural Steel

6. WEIGHT SUMMARY AND COG

6.1 WEIGHT SUMMARY

The WHP-DHN jacket weight summary are tabulated below:

Table 6-1: WHP DHN Jacket Weight Summary

Condition	Base Weight (MT)	Applied Factor	Factored Weight (MT)
Loadout	5213.12	1.076	5611.73
Transportation	5213.12	1.076	5611.73
Launch	5213.12	1.076	5611.73
Dry	8210.53	1.077	8842.32
Operating	8210.53	1.077	8842.32

Table 6-2: Summary of Loadout Weight Breakdown

Condition	Base Weight (MT)	Applied Factor	Factored Weight (MT)
Primary & Secondary Steel	4019.85	1.073	4314.92
Pre-Installed Items	744.66	1.089	811.23
Installation Aids	448.61	1.082	485.58
Total	5213.12	-	5611.73

Table 6-3: Summary of Transportation Weight Breakdown

Condition	Base Weight (MT)	Applied Factor	Factored Weight (MT)
Primary & Secondary Steel	4019.85	1.073	4314.92
Pre-Installed Items	744.66	1.089	811.23
Installation Aids	448.61	1.082	485.58
Total	5213.12	-	5611.73

Table 6-4: Summary of Launch Weight Breakdown

Condition	Base Weight (MT)	Applied Factor	Factored Weight (MT)
Primary & Secondary Steel	4019.85	1.073	4314.92
Pre-Installed Items	744.66	1.089	811.23
Installation Aids	448.61	1.082	485.58
Total	5213.12	-	5611.73

1

Table 6-5: Summary of Dry Weight Breakdown

Condition	Base Weight (MT)	Applied Factor	Factored Weight (MT)
Primary & Secondary Steel	4019.85	1.073	4314.92
Pre-Installed Items	744.66	1.089	811.23
Post Installed Items	814.51	1.093	890.47
Piles	2536.60	1.073	2721.30
Grout	94.91	1.100	104.40
Total	8210.53	-	8842.32

1

Table 6-6: Summary of Operating Weight Breakdown

Condition	Base Weight (MT)	Applied Factor	Factored Weight (MT)
Primary & Secondary Steel	4019.85	1.073	4314.92
Pre-Installed Items	744.66	1.089	811.23
Post Installed Items	814.51	1.093	890.47
Piles	2536.60	1.073	2721.30
Grout	94.91	1.100	104.40
Total	8210.53	-	8842.32

1

6.2 COG

The center of gravity (COG) of WHP-DHN Jacket is tabulated on the table below:

Table 6-7: Jacket COG Summary

Condition	Base Weight (MT)	Factored Weight (MT)	COG (m)		
			X	Y	Z
Loadout	5213.12	5611.73	0.066	5.438	-62.282
Transportation	5213.12	5611.73	0.066	5.438	-62.282
Launch	5213.12	5611.73	0.066	5.438	-62.282
Dry	8210.53	8842.32	0.025	5.763	-88.520
Operating	8210.53	8842.32	0.025	5.763	-88.520

1

7. REPORTING FORMAT

7.1 TYPES OF WEIGHT

There are only two types of weight: Base Weight and Factored Weight.

- BASE WEIGHT - Theoretical weight which is obtained from calculation using latest available design drawings / sketches, best estimates, and vendor data. The base weight does not include weight contingency.
- NOT TO EXCEED WEIGHT - The Not-to-Exceed weight is a control weight for a module, topside structure, or steel jacket. It is established at the end of the design phase and set during FEED. It is determined by considering factors like the structure's capacity and the capacity of the intended transportation barges and crane vessels. The weights are refined as the project progresses but should remain fixed for the duration and reassessed after the Hook-up/Commissioning phase.
- FACTORED WEIGHT - The factored weight of any individual item is characterized by its Base Weight multiplied with the weight contingency factor.

7.2 WEIGHT BREAKDOWN

The weights are reported and summarized in the following main groups for ease of management and traceability:

- Primary & Secondary Steel: this includes the structural steel members that make up the primary framing of the jacket.
- Pre-Installed Appurtenances: this includes jacket appurtenances, padeyes, anodes, etc. that are permanently mounted on the jacket during installation stage.
- Installation Aids: this includes items present during the installation stage i.e. lifting & rigging gears (i.e. slings, shackles, buoyancy tank, etc.).
- Post-Installed Appurtenances: items that will be installed on the jacket after secured to its final position (i.e. boat landing and conductors).
- Piles: This includes pile above and below mudline.
- Grout: Grout in annulus between pile and pile sleeve
- Docking Piles: This includes pile above and below mudline.

Each load component, when appropriate, must incorporate a list of the values for launch, dry, operational condition, loadout, and transportation.

The following material unit weight is used:

- Steel : 7850 kg/m³
- Timber : 960 kg/m³
- Anode : 499 kg/piece
- Grout : 1900 kg/m³

7.3 JACKET CONDITION

Weight information for all items comprising the jacket shall be recorded consistently with the following definitions:

- Loadout - state that is present when the structure is transported out of the fabrication yard and onto the launch/transportation barge. The weight of the structure plus the weight of all the bulks and equipment that are being loaded out will be considered part of the loadout weight. Apart from post installed items, it needs to incorporate all temporary lifting accessories, such as lifting slings and shackles; tie-down and support beams; buoyancy tanks; and any shipped loose items temporarily placed on the structure during upending.
- Transportation - conditions that are present when the structure is being transported from the yard to the offshore location by means of launch/transportation barge. The loadout weight and the transportation weight remain the same.
- Launch - conditions that develop when the structure is launched offshore.
- Dry - situation when a single weight object, a group of items, or a collection of items differentiates itself solely by its dead weight. In general, this condition does not involve any maintenance, tools, packing, temporary transit materials, spares, operational fluids, or supplies. Nonetheless, it will be considered that the equipment's documented dry weight that comes pre-installed with coolants or lubricants includes those extra weights. The jacket dry weight condition also includes the weight of piles and other steel appurtenances.
- Operating - condition which exists when all equipment and bulks, contain all relevant fluids and supply weights which occur under normal operating conditions.

7.4 COORDINATE SYSTEM

The location of origin:

- X = 0 at centerline between Row 1 and Row 2 at W.P EL (+) 9.5m, and +ve towards Platform East
- Y= 0 at centerline between Row A and Row B at W.P EL (+) 9.5m, and +ve towards Platform North
- Z = 0 at Mean Sea Level, +ve upwards

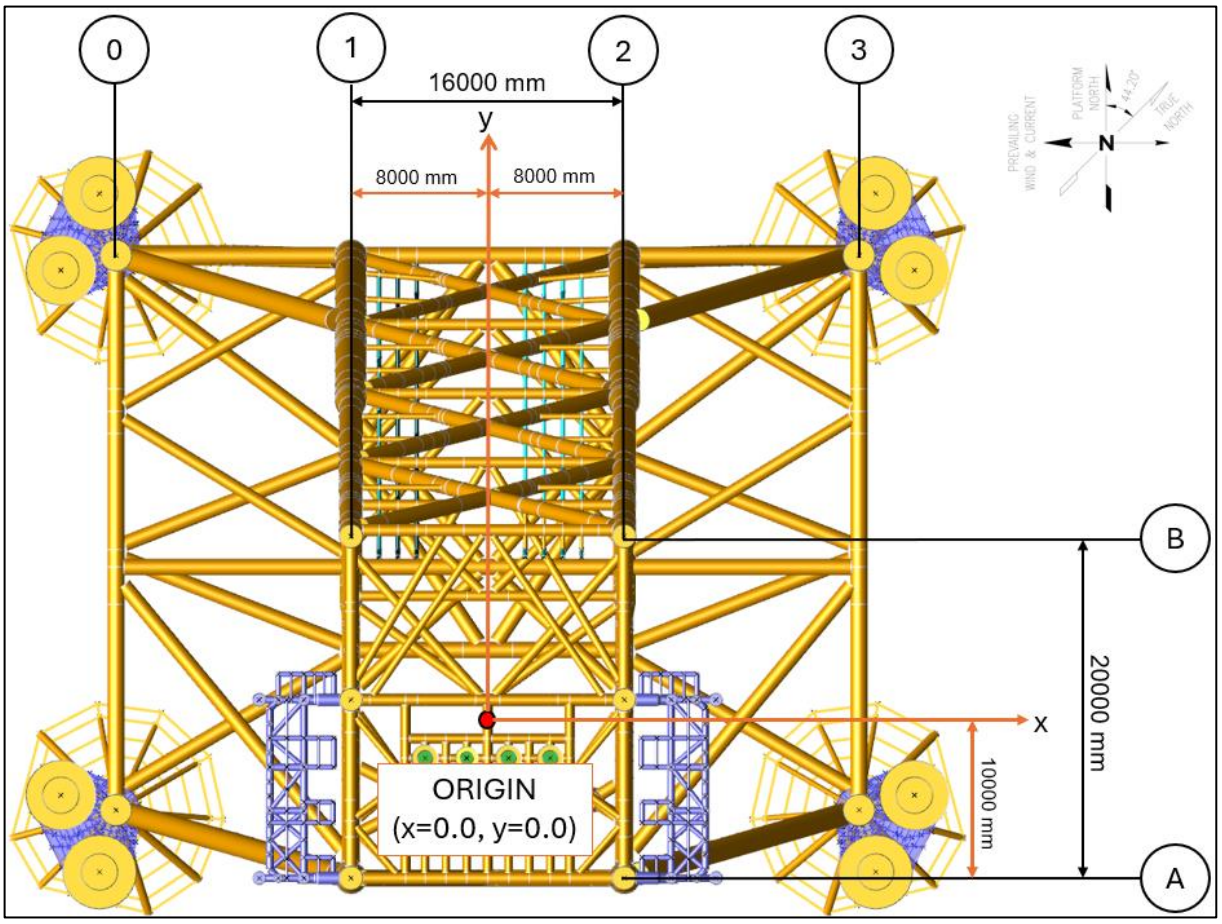

Figure 7-1: WHP-DHN Jacket Location of Origin (Plan View)

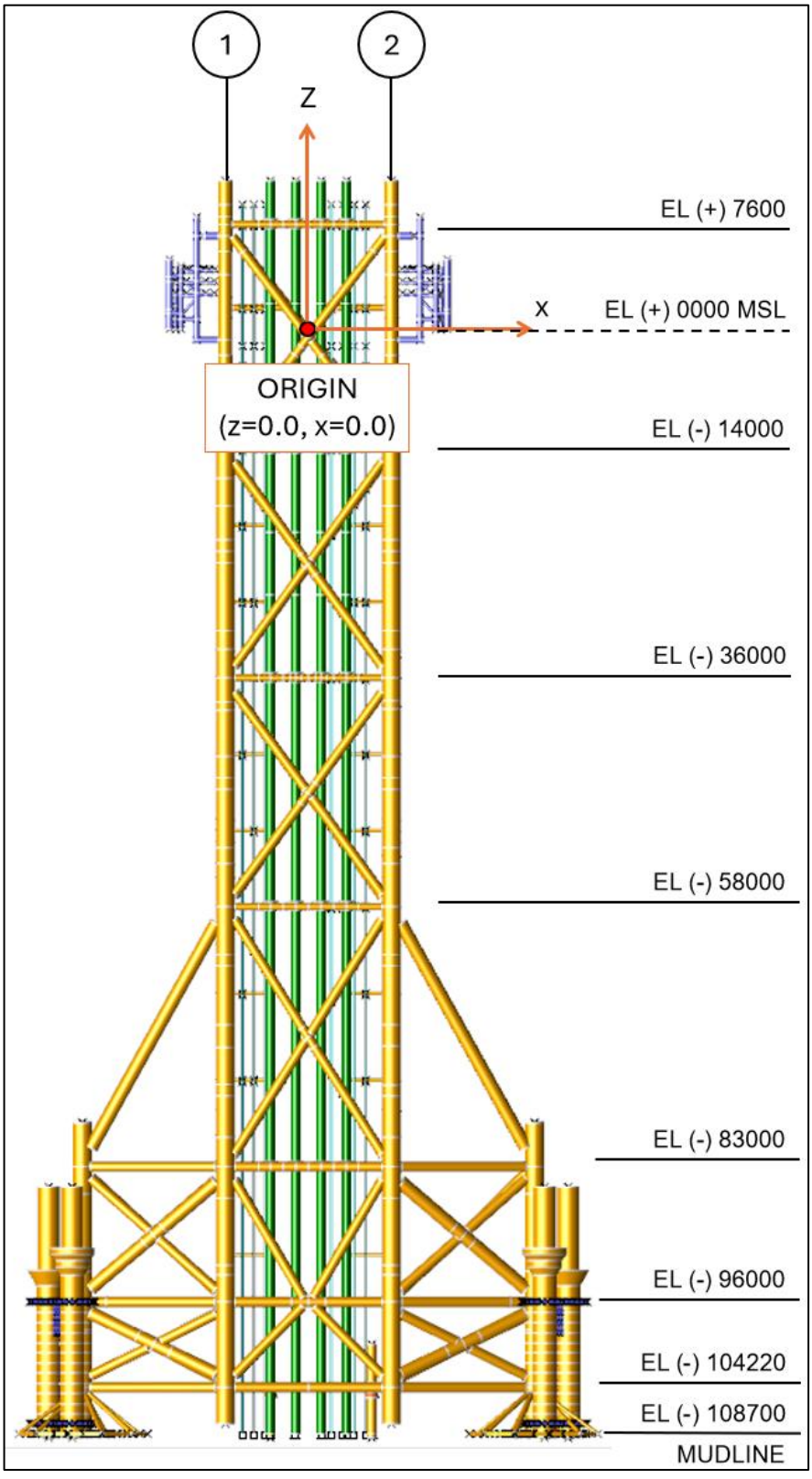

Figure 7-2: WHP-DHN Jacket Location of Origin (Elevation View)

8. WEIGHT CONTINGENCIES / ALLOWANCE

8.1 CONTINGENCY

Contingencies are meant to accommodate adjustments to weight resulting from data uncertainties, whether they stem from a final vendor selection or a lack of design. The contingency decreases as the project moves along and designs and equipment choices are more well-defined. The Weight Report must constantly display the contingency's percentage status and track the number to enable users to assess the level of accuracy and advancement of the data collection process. Applications for weight contingencies must be approved by the weight control engineer. The type of element is indicated by the first number of the Engineering Status Code.

B = Bulks

E = Equipment

S = Structural

The second and the third digits refer to the source and quality.

V = Vendor

C = Contractor

The following table is meant to be used as reference to the contingency application:

Table 8-1: Values of Contingency Accounted

STATUS	DESCRIPTION	CONTINGENCY	ALLOWANCE
EQUIPMENT			
ECE	Contractor Engineering Estimate	20%	NIL
EVE	Pre-tender Vendor Estimate/Catalogue	15%	NIL
EV1	Selected Vendor Supplier Bid Estimate	7%	NIL
EV2	Selected Vendor Calculated Weight	5%	NIL
EV3	Vendor Guaranteed Weight (P.O.)	3%	NIL
EV4	Vendor Weighed Weight	2%	NIL
STRUCTURAL			
SCE	Contractor Engineering Estimate	20%	+4% Mill/Paint/Weld
SC1	Pre-AFD Take-off Estimate	15%	
SC2	AFD Take-off Estimate	10%	
SC3	Pre-AFC Take-off	7.5%	
SC4	Post AFC Take Off	5%	
SC5	Weighed	3%	Includes 1% for weighing +2% installation allowance
BULKS (ELECTRICAL / INSTRUMENT / PIPING / OTHERS)			
BCE	Contractor Preliminary Take-off	20%	+4% Mill/Paint/Weld (Pipe/Fittings only)
BC1	AFD Take-off	10%	
BC2	Pre AFC-Take-off	7%	
BC3	Post AFC Take-off	5%	

8.2 ALLOWANCE

Allowance is the approximation of weight that is present on the structure but is complex to determine by theory. Allowances will be accounted for to the structure and pipe/fittings as shown in table below. Allowance is accounted for as real weight and not a contingency.

Table 8-2: Allowances Approximated on the structure.

MILL ALLOWANCE (2%)	To allow for variation in material self-weights.	TOTAL 4 %
PAINT ALLOWANCE (1%) (excluding Jacket)	To allow for the weight of paint on painted items	
WELD METAL ALLOWANCE (1%)	To allow for the weight of weld material	

9. WEIGHT TREND & VARIATION LOG

9.1 WEIGHT TREND

Weight trend for jacket during loadout, transportation, launch, dry and operating conditions are tabulated in the following tables.

Table 9-1: Loadout & Transportation Weight Trend

Revision	Date	Base Weight (MT)	Applied Factor	Factored Weight (MT)
WCR Rev C0	16 Aug 2024	4790.64	1.152	5519.86
WCR Rev D0	29 Oct 2024	5195.38	1.106	5748.45
WCR Rev 0	04 Dec 2024	5219.49	1.076	5618.56
WCR Rev 1	19 Dec 2024	5213.12	1.076	5611.73

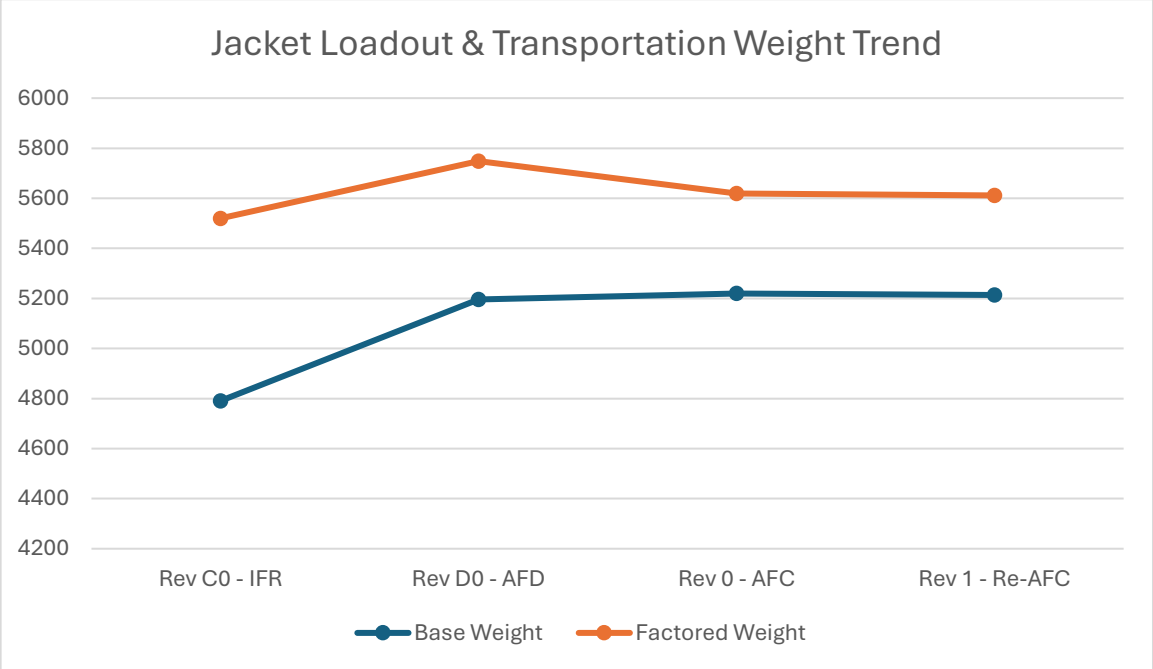

Figure 9-1: Loadout & Transportation Weight Trend

1

Table 9-2: Launch Weight Trend

Revision	Date	Base Weight (MT)	Applied Factor	Factored Weight (MT)
WCR Rev C0	16 Aug 2024	4790.64	1.152	5519.86
WCR Rev D0	29 Oct 2024	5195.38	1.097	5700.80
WCR Rev 0	04 Dec 2024	5219.49	1.076	5618.56
WCR Rev 1	19 Dec 2024	5213.12	1.076	5611.73

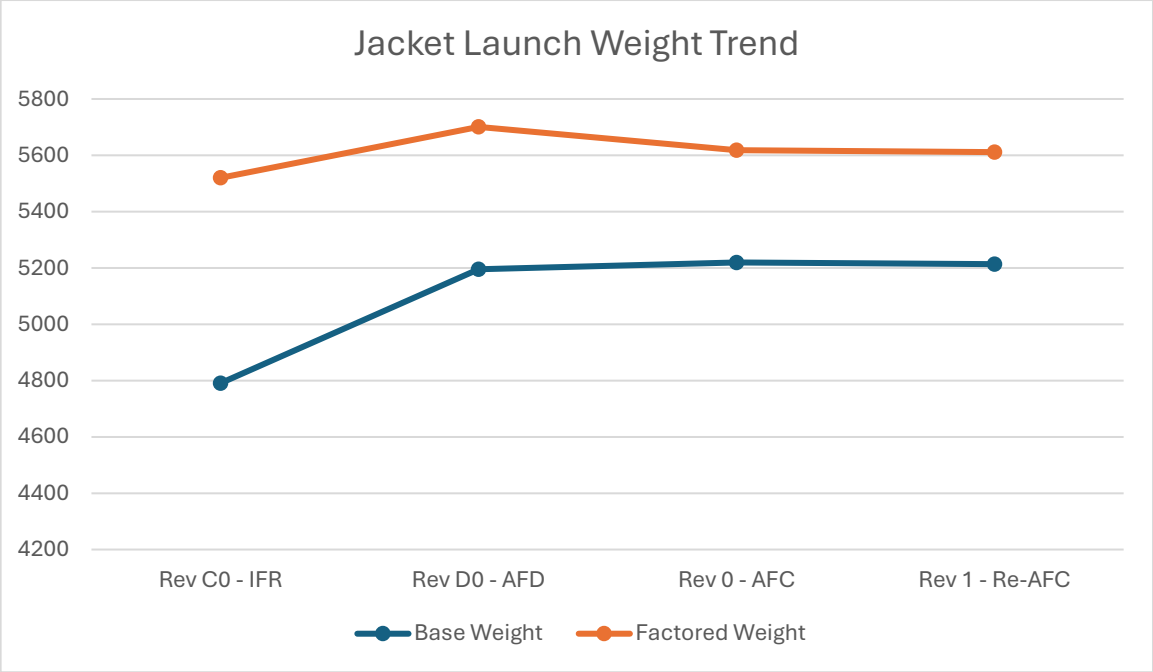

Figure 9-2: Launch Weight Trend

1

Table 9-3: Dry & Operating Weight Trend

Revision	Date	Base Weight (MT)	Applied Factor	Factored Weight (MT)
WCR Rev C0	16 Aug 2024	8293.55	1.154	9571.61
WCR Rev D0	29 Oct 2024	8639.11	1.107	9562.67
WCR Rev 0	04 Dec 2024	8192.34	1.077	8822.85
WCR Rev 1	19 Dec 2024	8210.53	1.077	8842.32

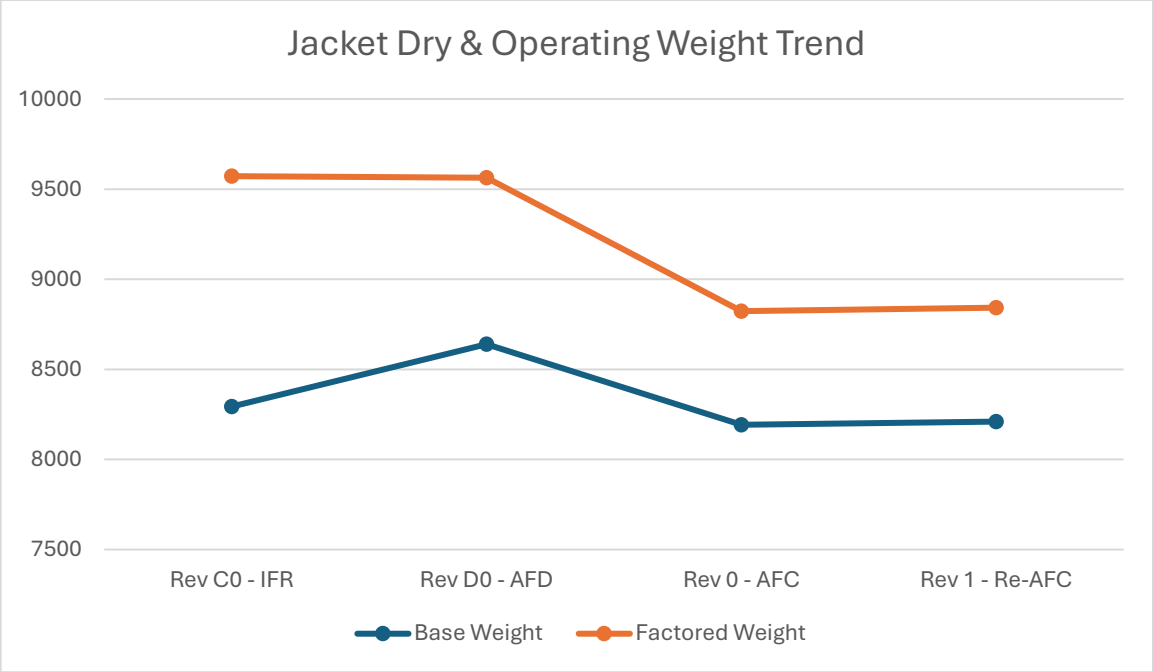

Figure 9-3: Dry & Operating Weight Trend

1

9.2 WEIGHT VARIATION LOG

This section is to brief on items / any changes / update to WHP-DHN platform.

Table 9-4: WCR Rev. 1 Variation Log

No.	Item Description	Weight Variation (MT)	Remarks
Primary and Secondary Steel		**(-) 30.22**	
1.	Primary steel framing weight increase	(+) 1.98	Updated as per latest drawing
2.	Skirt Pile Sleeve weight increase	(+) 6.73	Increased in skirt pile diameter at Row B from 25mm to 30mm
3.	Mudmat framing weight decrease	(-) 38.93	Updated as per latest drawing
Pre-Installed Items		**(-) 0.51**	
1.	Upending Padeyes weight decrease	(-) 0.51	Updated as per latest drawing
Installation Aids		**(+) 24.51**	
1.	Buoyancy tank weight increase	(+) 24.51	Updated as per the latest buoyancy tank drawing i.e. additional compartment plate
Post-Installed Items		**( ) 0.00**	
1.	No changes	-	-
Piles		**(+) 49.84**	
1.	Skirt Pile weight increase	(+) 49.84	Updated as per the latest pile make-up drawing
Grout		**(-) 1.52**	
1.	Grout (skirt pile sleeve) weight decrease	(-) 1.52	Updated as per the latest skirt pile sleeve drawing.

1

10. APPENDICES

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APPENDIX 2 - COG LOCATION (8 PAGES)

APPENDIX 3 - WEIGHT TREND CHART (3 PAGES)

APPENDIX 4 - BOCAD EXTRACTS (55 PAGES)

APPENDIX 1

WEIGHT DETAILS

FEED - DHN - JACKET

Petrofac RNZ | PETROVIETNAM PVEP POC

WEIGHT CONTROL SUMMARY

DATE : 19-Dec-24
PREPARED BY : IIA
CHECKED BY : RAM
REV : 1

ITEM NO.	DESCRIPTION	BASE WEIGHT (MT)					FACTORED WEIGHT (MT)					INSTALLATION BUOYANCY (MT)	CENTRE OF GRAVITY (M)		
		LOADOUT	TRANSPORT	LAUNCH	DRY	OPERATING	LOADOUT	TRANSPORT	LAUNCH	DRY	OPERATING		X	Y	Z
1	Primary and Secondary Steel	4019.85	4019.85	4019.85	4019.85	4019.85	4314.92	4314.92	4314.92	4314.92	4314.92	6170.44	0.021 0.021 0.021 0.021 0.021	6.040 6.040 6.040 6.040 6.040	-66.770 -66.770 -66.770 -66.770 -66.770
2	Pre-Installed Items	744.66	744.66	744.66	744.66	744.66	811.23	811.23	811.23	811.23	811.23	280.01	0.004 0.004 0.004 0.004 0.004	3.494 3.494 3.494 3.494 3.494	-67.908 -67.908 -67.908 -67.908 -67.908
3	Installation Aids	448.61	448.61	448.61	0.00	0.00	485.58	485.58	485.58	0.00	0.00	0.00	0.566 0.566 0.566 0.000 0.000	3.335 3.335 3.335 0.000 0.000	-13.000 -13.000 -13.000 0.000 0.000
4	Post Installed Items	0.00	0.00	0.00	814.51	814.51	0.00	0.00	0.00	890.47	890.47	0.00	0.000 0.000 0.000 0.077 0.077	0.000 0.000 0.000 -5.060 -5.060	0.000 0.000 0.000 -39.680 -39.680
TOTAL	Loadout Transportation Launch Dry Operating	**5213.12**	**5213.12**	**5213.12**	**5579.02**	**5579.02**	**5611.73**	**5611.73**	**5611.73**	**6016.63**	**6016.63**	**6450.45**	**0.066** **0.066** **0.066** **0.027** **0.027**	**5.438** **5.438** **5.438** **4.054** **4.054**	**-62.282** **-62.282** **-62.282** **-62.914** **-62.914**
5	Piles	0.00	0.00	0.00	2536.60	2536.60	0.00	0.00	0.00	2721.30	2721.30	0.00	0.000 0.000 0.000 0.022 0.022	0.000 0.000 0.000 9.450 9.450	0.000 0.000 0.000 -144.634 -144.634
6	Grout	0.00	0.00	0.00	94.91	94.91	0.00	0.00	0.00	104.40	104.40	0.00	0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 8.119 8.119	0.000 0.000 0.000 -101.501 -101.501
TOTAL (with piles and grout)	Loadout Transportation Launch Dry Operating	**5213.12**	**5213.12**	**5213.12**	**8210.53**	**8210.53**	**5611.73**	**5611.73**	**5611.73**	**8842.32**	**8842.32**	**6450.45**	**0.066** **0.066** **0.066** **0.025** **0.025**	**5.438** **5.438** **5.438** **5.763** **5.763**	**-62.282** **-62.282** **-62.282** **-88.520** **-88.520**

FEED - DHN - JACKET

Petrofac RNZ | PETROVIETNAM PVEP POC

WEIGHT CONTROL REPORT
PRIMARY AND SECONDARY STEEL

DATE : 19-Dec-24
PREPARED BY : IIA
CHECKED BY : RAM
REV : 1

ITEM NO.	DESCRIPTION	SOURCE CODE	WEIGHT CONDITION	CONTINGENCY FACTOR (%)	BASE WEIGHT (MT)				FACTORED WEIGHT (MT)				INSTALLATION BUOYANCY (MT)	CENTRE OF GRAVITY (M)		
					LOADOUT	TRANSPORT	DRY	OPERATING	LOADOUT	TRANSPORT	DRY	OPERATING		X	Y	Z
	STRUCTURAL															
1	Elevation Row-1	P1	PP	7.5	734.93	734.93	734.93	734.93	790.05	790.05	790.05	790.05		-8.000	3.811	-49.609
2	Elevation Row-2	P1	PP	7.5	756.85	756.85	756.85	756.85	813.61	813.61	813.61	813.61		7.997	4.004	-48.865
3	Elevation Row-A	P1	PP	7.5	325.82	325.82	325.82	325.82	350.26	350.26	350.26	350.26		0.000	-8.630	-66.419
4	Elevation Row-B	P1	PP	7.5	294.16	294.16	294.16	294.16	316.22	316.22	316.22	316.22		0.018	22.178	-60.614
5	Elevation Row-0	P1	PP	7.5	163.90	163.90	163.90	163.90	176.19	176.19	176.19	176.19		-21.750	10.292	-94.006
6	Elevation Row-3	P1	PP	7.5	164.04	164.04	164.04	164.04	176.35	176.35	176.35	176.35		21.750	10.305	-93.936
7	Framing Plan EL (+) 7.60m	P1	PP	7.5	58.00	58.00	58.00	58.00	62.35	62.35	62.35	62.35		0.052	-1.295	7.646
8	Framing Plan EL (-) 14.00m	P1	PP	7.5	55.40	55.40	55.40	55.40	59.55	59.55	59.55	59.55		0.042	-0.163	-14.000
9	Framing Plan EL (-) 36.00m	P1	PP	7.5	64.63	64.63	64.63	64.63	69.48	69.48	69.48	69.48		0.034	1.599	-36.000
10	Framing Plan EL (-) 58.00m	P1	PP	7.5	94.21	94.21	94.21	94.21	101.28	101.28	101.28	101.28		0.033	3.028	-58.000
11	Framing Plan EL (-) 83.00m	P1	PP	7.5	237.21	237.21	237.21	237.21	255.00	255.00	255.00	255.00		-0.051	6.838	-83.000
12	Framing Plan EL (-) 96.00m	P1	PP	7.5	135.22	135.22	135.22	135.22	145.36	145.36	145.36	145.36		-0.008	9.663	-96.000
13	Framing Plan EL (-) 104.22m	P1	PP	7.5	202.61	202.61	202.61	202.61	217.80	217.80	217.80	217.80		0.018	9.144	-104.220
14	Skirt Pile Sleeve	P1	PP	7.5	337.06	337.06	337.06	337.06	362.34	362.34	362.34	362.34		0.000	8.119	-101.501
15	Mudmat Framing	P1	PP	7.5	128.26	128.26	128.26	128.26	137.88	137.88	137.88	137.88	6170.44	0.000	10.375	-108.145
16	Conductor Guides Sleeve	P1	PP	7.5	36.67	36.67	36.67	36.67	39.42	39.42	39.42	39.42		0.272	-5.248	-37.533
17	Docking Guide	P1	PP	7.5	8.87	8.87	8.87	8.87	9.54	9.54	9.54	9.54		-0.683	-5.248	-104.496
18	6-inch Gaslift Riser	P5	PP	10.0	7.30	7.30	7.30	7.30	8.03	8.03	8.03	8.03		5.500	18.583	-48.327
19	10-inch Gas Riser	P5	PP	10.0	12.31	12.31	12.31	12.31	13.54	13.54	13.54	13.54		4.400	18.591	-48.377
20	8-inch Water Injection Riser	P5	PP	10.0	11.02	11.02	11.02	11.02	12.13	12.13	12.13	12.13		3.300	18.610	-48.485
21	10-inch FWS Riser	P5	PP	10.0	12.31	12.31	12.31	12.31	13.54	13.54	13.54	13.54		2.200	18.591	-48.377
22	10-inch Future Riser 1	P5	PP	10.0	20.87	20.87	20.87	20.87	22.96	22.96	22.96	22.96		-4.150	18.665	-48.815
23	10-inch Future Riser 2	P5	PP	10.0	20.87	20.87	20.87	20.87	22.96	22.96	22.96	22.96		-5.250	18.665	-48.815
24	Future J-Tube	P5	PP	10.0	10.01	10.01	10.01	10.01	11.01	11.01	11.01	11.01		-6.350	18.550	-48.132
25	Boatlanding.Main-Stub Support	P1	PP	7.5	5.12	5.12	5.12	5.12	5.51	5.51	5.51	5.51		-9.888	-5.100	-0.738
26	Boatlanding.Aux-Stub Support	P1	PP	7.5	5.12	5.12	5.12	5.12	5.51	5.51	5.51	5.51		9.888	-5.100	-0.738
27	Mill Allowance (2%)	P1	PP	0	78.06	78.06	78.06	78.06	78.06	78.06	78.06	78.06		0.021	6.040	-66.770
28	Weld Metal Allowance (1%)	P1	PP	0	39.03	39.03	39.03	39.03	39.03	39.03	39.03	39.03		0.021	6.040	-66.770
TOTAL	LOADOUT		AVERAGE FACTOR :	7.34	4019.85				4314.92				6170.44	0.021	6.040	-66.770
	TRANSPORTATION			7.34		4019.85				4314.92				0.021	6.040	-66.770
	DRY			7.34			4019.85				4314.92			0.021	6.040	-66.770
	OPERATING			7.34				4019.85				4314.92		0.021	6.040	-66.770

SOURCE CODE

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WEIGHT CONDITION

PP = Component is permanent in all condition
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TR = Component is temporary and removed offshore
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FEED - DHN - JACKET

Petrofac RNZ

PETROVIETNAM PVEP POC

WEIGHT CONTROL REPORT
PRIMARY AND SECONDARY STEEL

DATE : 19-Dec-24
PREPARED BY : IIA
CHECKED BY : RAM
REV : 1

ITEM NO.	DESCRIPTION	SOURCE CODE	WEIGHT CONDITION	CONTINGENCY FACTOR (%)	BASE WEIGHT (MT)	FACTORED WEIGHT (MT)	INSTALLATION BUOYANCY (MT)	CENTRE OF GRAVITY (M)		
					LAUNCH	LAUNCH		X	Y	Z
	STRUCTURAL									
1	Elevation Row-1	P1	PP	7.5	734.93	790.05		-8.000	3.811	-49.609
2	Elevation Row-2	P1	PP	7.5	756.85	813.61		7.997	4.004	-48.865
3	Elevation Row-A	P1	PP	7.5	325.82	350.26		0.000	-8.630	-66.419
4	Elevation Row-B	P1	PP	7.5	294.16	316.22		0.018	22.178	-60.614
5	Elevation Row-0	P1	PP	7.5	163.90	176.19		-21.750	10.292	-94.006
6	Elevation Row-3	P1	PP	7.5	164.04	176.35		21.750	10.305	-93.936
7	Framing Plan EL (+) 7.60m	P1	PP	7.5	58.00	62.35		0.052	-1.295	7.646
8	Framing Plan EL (-) 14.00m	P1	PP	7.5	55.40	59.55		0.042	-0.163	-14.000
9	Framing Plan EL (-) 36.00m	P1	PP	7.5	64.63	69.48		0.034	1.599	-36.000
10	Framing Plan EL (-) 58.00m	P1	PP	7.5	94.21	101.28		0.033	3.028	-58.000
11	Framing Plan EL (-) 83.00m	P1	PP	7.5	237.21	255.00		-0.051	6.838	-83.000
12	Framing Plan EL (-) 96.00m	P1	PP	7.5	135.22	145.36		-0.008	9.663	-96.000
13	Framing Plan EL (-) 104.22m	P1	PP	7.5	202.61	217.80		0.018	9.144	-104.220
14	Skirt Pile Sleeve	P1	PP	7.5	337.06	362.34		0.000	8.119	-101.501
15	Mudmat Framing	P1	PP	7.5	128.26	137.88	6170.44	0.000	10.375	-108.145
16	Conductor Guides Sleeve	P1	PP	7.5	36.67	39.42		0.272	-5.248	-37.533
17	Docking Guide	P1	PP	7.5	8.87	9.54		-0.683	-5.248	-104.496
18	6-inch Gaslift Riser	P5	PP	10.0	7.30	8.03		5.500	18.583	-48.327
19	10-inch Gas Riser	P5	PP	10.0	12.31	13.54		4.400	18.591	-48.377
20	8-inch Water Injection Riser	P5	PP	10.0	11.02	12.13		3.300	18.610	-48.485
21	10-inch FWS Riser	P5	PP	10.0	12.31	13.54		2.200	18.591	-48.377
22	10-inch Future Riser 1	P5	PP	10.0	20.87	22.96		-4.150	18.665	-48.815
23	10-inch Future Riser 2	P5	PP	10.0	20.87	22.96		-5.250	18.665	-48.815
24	Future J-Tube	P5	PP	10.0	10.01	11.01		-6.350	18.550	-48.132
25	Boatlanding.Main-Stub Support	P1	PP	7.5	5.12	5.51		-9.888	-5.100	-0.738
26	Boatlanding.Aux-Stub Support	P1	PP	7.5	5.12	5.51		9.888	-5.100	-0.738
27	Mill Allowance (2%)	P1	PP	0	78.06	78.06		0.021	6.040	-66.770
28	Weld Metal Allowance (1%)	P1	PP	0	39.03	39.03		0.021	6.040	-66.770
TOTAL		LAUNCH	AVERAGE FACTOR :	7.34	4019.85	4314.92	6170.44	0.021	6.040	-66.770

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FEED - DHN - JACKET

Petrofac RNZ | PETROVIETNAM PVEP POC

WEIGHT CONTROL REPORT
PRE-INSTALLED ITEMS

DATE : 19-Dec-24
PREPARED BY : IIA
CHECKED BY : RAM
REV : 1

ITEM NO.	DESCRIPTION	SOURCE CODE	WEIGHT CONDITION	CONTINGENCY FACTOR (%)	BASE WEIGHT (MT)				FACTORED WEIGHT (MT)				INSTALLATION BUOYANCY (MT)	CENTRE OF GRAVITY (M)		
					LOADOUT	TRANSPORT	DRY	OPERATING	LOADOUT	TRANSPORT	DRY	OPERATING		X	Y	Z
	STRUCTURAL															
1	Launch Cradle Steel & Timber	P1	PP	7.5	200.88	200.88	200.88	200.88	215.94	215.94	215.94	215.94		0.000	-10.686	-59.517
2	Pulling Lugs	P1	PP	7.5	2.10	2.10	2.10	2.10	2.26	2.26	2.26	2.26		0.000	-10.352	-100.970
3	Upending Padeyes	P1	PP	7.5	5.53	5.53	5.53	5.53	5.94	5.94	5.94	5.94		0.007	0.258	8.518
4	Leg Compartment	P1	PP	7.5	22.84	22.84	22.84	22.84	24.55	24.55	24.55	24.55		0.000	7.320	-70.401
5	Internal Ring PL	P1	PP	7.5	43.82	43.82	43.82	43.82	47.10	47.10	47.10	47.10		0.000	12.888	-69.173
6	Seadeck Framing	P1	PP	7.5	7.90	7.90	7.90	7.90	8.49	8.49	8.49	8.49		1.435	2.158	-7.785
7	Seadeck Flooring, Grating & Handrail	P1	PP	7.5	9.57	9.57	9.57	9.57	10.29	10.29	10.29	10.29		0.330	1.037	8.114
8	Anodes	P1	PP	7.5	246.68	246.68	246.68	246.68	265.18	265.18	265.18	265.18		-0.011	7.489	-70.842
9	Diaphragm Skirt Pile Sleeve	P5	PP	7.5	5.04	5.04	5.04	5.04	5.42	5.42	5.42	5.42		0.000	10.200	-94.486
10	Grippers	P5	PP	15	25.98	25.98	25.98	25.98	29.88	29.88	29.88	29.88		0.000	10.200	-93.455
11	Grout Seal & Diaphragm	P5	PP	15	19.34	19.34	19.34	19.34	22.24	22.24	22.24	22.24	280.01	0.000	10.200	-107.710
12	Riser Clamp	P5	PP	15	19.36	19.36	19.36	19.36	22.27	22.27	22.27	22.27		-0.396	15.336	-39.319
13	Flooding & Grouting System With Supports	P5	PP	15	46.88	46.88	46.88	46.88	53.91	53.91	53.91	53.91		-0.008	10.842	-59.344
14	Cap Plate	P1	PP	7.5	1.42	1.42	1.42	1.42	1.52	1.52	1.52	1.52		0.000	0.605	-3.000
15	Leveling Cone	P5	PP	15	53.02	53.02	53.02	53.02	60.97	60.97	60.97	60.97		0.000	10.200	-93.455
16	Ring Plate Collapse	P1	PP	7.5	3.00	3.00	3.00	3.00	3.23	3.23	3.23	3.23		0.006	13.512	-93.319
17	Skirt Pile Ring PL	P1	PP	7.5	5.13	5.13	5.13	5.13	5.52	5.52	5.52	5.52		0.000	10.375	-101.849
18	Shear Keys at Pile Sleeves	P1	PP	7.5	4.48	4.48	4.48	4.48	4.82	4.82	4.82	4.82		0.000	10.375	-101.780
19	Mill Allowance (2%)	P1	PP	0	14.46	14.46	14.46	14.46	14.46	14.46	14.46	14.46		0.004	3.494	-67.908
20	Weld Metal Allowance (1%)	P1	PP	0	7.23	7.23	7.23	7.23	7.23	7.23	7.23	7.23		0.004	3.494	-67.908
TOTAL	LOADOUT	AVERAGE FACTOR :		8.94	744.66				811.23				280.01	0.004	3.494	-67.908
	TRANSPORTATION			8.94		744.66				811.23				0.004	3.494	-67.908
	DRY			8.94			744.66				811.23			0.004	3.494	-67.908
	OPERATING			8.94				744.66				811.23		0.004	3.494	-67.908

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FEED - DHN - JACKET

Petrofac RNZ

PETROVIETNAM PVEP POC

WEIGHT CONTROL REPORT
PRE-INSTALLED ITEMS

DATE : 19-Dec-24
PREPARED BY : IIA
CHECKED BY : RAM
REV : 1

ITEM NO.	DESCRIPTION	SOURCE CODE	WEIGHT CONDITION	CONTINGENCY FACTOR (%)	BASE WEIGHT (MT)	FACTORED WEIGHT (MT)	INSTALLATION BUOYANCY (MT)	CENTRE OF GRAVITY (M)		
					LAUNCH	LAUNCH		X	Y	Z
	STRUCTURAL									
1	Launch Cradle Steel & Timber	P1	PP	7.5	200.88	215.94		0.000	-10.686	-59.517
2	Pulling Lugs	P1	PP	7.5	2.10	2.26		0.000	-10.352	-100.970
3	Upending Padeyes	P1	PP	7.5	5.53	5.94		0.007	0.258	8.518
4	Leg Compartment	P1	PP	7.5	22.84	24.55		0.000	7.320	-70.401
5	Internal Ring PL	P1	PP	7.5	43.82	47.10		0.000	12.888	-69.173
6	Seadeck Framing	P1	PP	7.5	7.90	8.49		1.435	2.158	-7.785
7	Seadeck Flooring, Grating & Handrail	P1	PP	7.5	9.57	10.29		0.330	1.037	8.114
8	Anodes	P1	PP	7.5	246.68	265.18		-0.011	7.489	-70.842
9	Diaphragm Skirt Pile Sleeve	P5	PP	7.5	5.04	5.42		0.000	10.200	-94.486
10	Grippers	P5	PP	15	25.98	29.88		0.000	10.200	-93.455
11	Grout Seal & Diaphragm	P5	PP	15	19.34	22.24	280.01	0.000	10.200	-107.710
12	Riser Clamp	P5	PP	15	19.36	22.27		-0.396	15.336	-39.319
13	Flooding & Grouting System With Supports	P5	PP	15	46.88	53.91		-0.008	10.842	-59.344
14	Cap Plate	P1	PP	7.5	1.42	1.52		0.000	0.605	-3.000
15	Leveling Cone	P5	PP	15	53.02	60.97		0.000	10.200	-93.455
16	Ring Plate Collapse	P1	PP	7.5	3.00	3.23		0.006	13.512	-93.319
17	Skirt Pile Ring PL	P1	PP	7.5	5.13	5.52		0.000	10.375	-101.849
18	Shear Keys at Pile Sleeves	P1	PP	7.5	4.48	4.82		0.000	10.375	-101.780
19	Mill Allowance (2%)	P1	PP	0	14.46	14.46		0.004	3.494	-67.908
20	Weld Metal Allowance (1%)	P1	PP	0	7.23	7.23		0.004	3.494	-67.908
TOTAL		LAUNCH	AVERAGE FACTOR :	8.94	744.66	811.23	280.01	0.004	3.494	-67.908

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FEED - DHN - JACKET

Petrofac RNZ

PETROVIETNAM PVEP POC

WEIGHT CONTROL REPORT
INSTALLATION AIDS

DATE : 19-Dec-24
PREPARED BY : IIA
CHECKED BY : RAM
REV : 1

ITEM NO.	DESCRIPTION	SOURCE CODE	WEIGHT CONDITION	CONTINGENCY FACTOR (%)	BASE WEIGHT (MT)				FACTORED WEIGHT (MT)				INSTALLATION BUOYANCY (MT)	CENTRE OF GRAVITY (M)		
					LOADOUT	TRANSPORT	DRY	OPERATING	LOADOUT	TRANSPORT	DRY	OPERATING		X	Y	Z
	STRUCTURAL															
	UPENDING															
1	Rigging Platform	P5	TR	20	7.52	7.52	0.00	0.00	9.02	9.02	0.00	0.00	-	-2.000	0.174	7.600
2	Upending Sling	P5	TR	20	20.84	20.84	0.00	0.00	25.01	25.01	0.00	0.00	-	0.000	0.174	7.600
3	Upending Shackles	P5	TR	20	5.49	5.49	0.00	0.00	6.59	6.59	0.00	0.00	-	0.000	0.174	7.600
	BUOYANCY TANK															
4	Buoyancy Tank	P1	TR	7.5	402.68	402.68	0.00	0.00	432.88	432.88	0.00	0.00	-	0.661	3.632	-14.933
5	Mill Allowance (2%)	P1	TR	0	8.05	8.05	0.00	0.00	8.05	8.05	0.00	0.00	-	0.566	3.335	-13.000
6	Weld Metal Allowance (1%)	P1	TR	0	4.03	4.03	0.00	0.00	4.03	4.03	0.00	0.00	-	0.566	3.335	-13.000
TOTAL	LOADOUT		AVERAGE FACTOR :	8.24	448.61				485.58				0.00	0.566	3.335	-13.000
	TRANSPORTATION			8.24		448.61				485.58				0.566	3.335	-13.000
	DRY			0.00			0.00				0.00			0.000	0.000	0.000
	OPERATING			0.00				0.00				0.00		0.000	0.000	0.000

SOURCE CODE

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P6 = Estimate
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WEIGHT CONDITION

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TR = Component is temporary and removed offshore
FI = Future Item

FEED - DHN - JACKET

Petrofac RNZ

PETROVIETNAM PVEP POC

WEIGHT CONTROL REPORT
INSTALLATION AIDS

DATE : 19-Dec-24
PREPARED BY : IIA
CHECKED BY : RAM
REV : 1

ITEM NO.	DESCRIPTION	SOURCE CODE	WEIGHT CONDITION	CONTINGENCY FACTOR (%)	BASE WEIGHT (MT)	FACTORED WEIGHT (MT)	INSTALLATION BUOYANCY (MT)	CENTRE OF GRAVITY (M)		
					LAUNCH	LAUNCH		X	Y	Z
	STRUCTURAL									
	UPENDING									
1	Rigging Platform	P5	TR	20	7.52	9.02	-	-2.000	0.174	7.600
2	Upending Sling	P5	TR	20	20.84	25.01	-	0.000	0.174	7.600
3	Upending Shackles	P5	TR	20	5.49	6.59	-	0.000	0.174	7.600
	BUOYANCY TANK									
4	Buoyancy Tank	P1	TR	7.5	402.68	432.88	-	0.661	3.632	-14.933
5	Mill Allowance (2%)	P1	TR	0	8.05	8.05	-	0.566	3.335	-13.000
6	Weld Metal Allowance (1%)	P1	TR	0	4.03	4.03	-	0.566	3.335	-13.000
TOTAL		**LAUNCH**	**AVERAGE FACTOR :**	8.24	448.61	485.58	0.00	0.566	3.335	-13.000

SOURCE CODE

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FEED - DHN - JACKET

Petrofac RNZ | PETROVIETNAM PVEP POC

WEIGHT CONTROL REPORT
POST-INSTALLED ITEMS

DATE : 19-Dec-24
PREPARED BY : IIA
CHECKED BY : RAM
REV : 1

ITEM NO.	DESCRIPTION	SOURCE CODE	WEIGHT CONDITION	CONTINGENCY FACTOR (%)	BASE WEIGHT (MT)				FACTORED WEIGHT (MT)				INSTALLATION BUOYANCY (MT)	CENTRE OF GRAVITY (M)		
					LOADOUT	TRANSPORT	DRY	OPERATING	LOADOUT	TRANSPORT	DRY	OPERATING		X	Y	Z
	STRUCTURAL															
	MAIN															
1	Boatlanding.Main-Bumper	P1	OI	7.5	0.00	0.00	8.00	8.00	0.00	0.00	8.60	8.60		-13.360	-4.611	1.013
2	Boatlanding.Main-Grating	P1	OI	7.5	0.00	0.00	1.65	1.65	0.00	0.00	1.77	1.77		-11.187	-4.000	2.364
3	Boatlanding.Main-Bollard	P1	OI	7.5	0.00	0.00	0.19	0.19	0.00	0.00	0.20	0.20		-12.750	-3.241	2.952
4	Boatlanding.Main-Handrail	P1	OI	7.5	0.00	0.00	0.56	0.56	0.00	0.00	0.61	0.61		-10.283	-3.776	3.122
5	Boatlanding.Main-Padeye	P1	OI	7.5	0.00	0.00	1.07	1.07	0.00	0.00	1.15	1.15		-11.397	-4.611	6.969
6	Boatlanding.Main-Ladder no.1	P1	OI	7.5	0.00	0.00	0.08	0.08	0.00	0.00	0.09	0.09		-11.500	2.424	2.489
7	Boatlanding.Main-Ladder no.2	P1	OI	7.5	0.00	0.00	0.05	0.05	0.00	0.00	0.05	0.05		-11.538	-10.115	1.076
8	Boatlanding.Main-Stairway no.1	P1	OI	7.5	0.00	0.00	2.55	2.55	0.00	0.00	2.74	2.74		-9.567	-2.450	4.897
9	Boatlanding.Main-Stairway no.2	P1	OI	7.5	0.00	0.00	0.49	0.49	0.00	0.00	0.53	0.53		-9.569	-4.520	2.883
10	Boatlanding.Main-Stairway no.3	P1	OI	7.5	0.00	0.00	0.49	0.49	0.00	0.00	0.53	0.53		-9.569	-7.765	1.733
11	Boatlanding.Main-Framing	P1	OI	7.5	0.00	0.00	47.70	47.70	0.00	0.00	51.28	51.28		-11.533	-4.099	0.832
	AUX															
12	Boatlanding Aux-Bumper	P1	OI	7.5	0.00	0.00	8.00	8.00	0.00	0.00	8.60	8.60	-	13.360	-4.611	1.013
13	Boatlanding.Aux-Bollard	P1	OI	7.5	0.00	0.00	0.19	0.19	0.00	0.00	0.20	0.20		12.750	-3.241	0.952
14	Boatlanding Aux-Grating	P1	OI	7.5	0.00	0.00	1.65	1.65	0.00	0.00	1.77	1.77		11.187	-3.999	2.364
15	Boatlanding.Aux-Handrail	P1	OI	7.5	0.00	0.00	0.59	0.59	0.00	0.00	0.63	0.63		10.250	-3.635	3.149
16	Boatlanding.Aux-Padeye	P1	OI	7.5	0.00	0.00	1.07	1.07	0.00	0.00	1.15	1.15		11.397	-4.611	6.969
17	Boatlanding.Aux-Ladder	P1	OI	7.5	0.00	0.00	0.05	0.05	0.00	0.00	0.05	0.05		11.538	-10.115	1.076
18	Boatlanding.Aux-Stairway no.1	P1	OI	7.5	0.00	0.00	2.58	2.58	0.00	0.00	2.77	2.77		11.003	5.203	4.928
19	Boatlanding.Aux-Stairway no.2	P1	OI	7.5	0.00	0.00	0.49	0.49	0.00	0.00	0.53	0.53		9.569	-4.520	2.883
20	Boatlanding.Aux-Stairway no.3	P1	OI	7.5	0.00	0.00	0.49	0.49	0.00	0.00	0.53	0.53		9.569	-7.765	1.733
21	Boatlanding.Aux-Framing	P1	OI	7.5	0.00	0.00	46.73	46.73	0.00	0.00	50.23	50.23		11.546	-4.122	0.918
22	Conductor	P5	OI	10	0.00	0.00	666.13	666.13	0.00	0.00	732.74	732.74		0.105	-5.422	-48.450
23	Mill Allowance (2%)	P5	OI	0	0.00	0.00	15.82	15.82	0.00	0.00	15.82	15.82		0.000	0.000	0.000
24	Weld Metal Allowance (1%)	P5	OI	0	0.00	0.00	7.91	7.91	0.00	0.00	7.91	7.91		0.000	0.000	0.000
TOTAL	LOADOUT	AVERAGE FACTOR :		0.00	0.00				0.00				0.00	0.000	0.000	0.000
	TRANSPORTATION			0.00		0.00				0.00				0.000	0.000	0.000
	DRY			9.33			814.51				890.47			0.077	-5.060	-39.680
	OPERATING			9.33				814.51				890.47		0.077	-5.060	-39.680

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FEED - DHN - JACKET

Petrofac RNZ

PETROVIETNAM PVEP POC

WEIGHT CONTROL REPORT
POST-INSTALLED ITEMS

DATE : 19-Dec-24
PREPARED BY : IIA
CHECKED BY : RAM
REV : 1

ITEM NO.	DESCRIPTION	SOURCE CODE	WEIGHT CONDITION	CONTINGENCY FACTOR (%)	BASE WEIGHT (MT)	FACTORED WEIGHT (MT)	INSTALLATION BUOYANCY (MT)	CENTRE OF GRAVITY (M)		
					LAUNCH	LAUNCH		X	Y	Z
	STRUCTURAL									
	MAIN									
1	Boatlanding.Main-Bumper	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
2	Boatlanding.Main-Grating	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
3	Boatlanding.Main-Bollard	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
4	Boatlanding.Main-Handrail	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
5	Boatlanding.Main-Padeye	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
6	Boatlanding.Main-Ladder no.1	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
7	Boatlanding.Main-Ladder no.2	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
8	Boatlanding.Main-Stairway no.1	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
9	Boatlanding.Main-Stairway no.2	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
10	Boatlanding.Main-Stairway no.3	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
11	Boatlanding.Main-Framing	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
	AUX						-			
12	Boatlanding Aux-Bumper	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
13	Boatlanding Aux-Grating	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
14	Boatlanding.Aux-Bollard	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
15	Boatlanding.Aux-Handrail	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
16	Boatlanding.Aux-Padeye	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
17	Boatlanding.Aux-Ladder	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
18	Boatlanding.Aux-Stairway no.1	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
19	Boatlanding.Aux-Stairway no.2	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
20	Boatlanding.Aux-Stairway no.3	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
21	Boatlanding.Aux-Framing	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
22	Conductor	P5	OI	10	0.00	0.00		0.000	0.000	0.000
23	Mill Allowance (2%)	P5	OI	0	0.00	0.00		0.000	0.000	0.000
24	Weld Metal Allowance (1%)	P5	OI	0	0.00	0.00		0.000	0.000	0.000
TOTAL		LAUNCH	AVERAGE FACTOR :	0.00	0.00	0.00	0.00	0.000	0.000	0.000

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FEED - DHN - JACKET

Petrofac RNZ | PETROVIETNAM PVEP POC

WEIGHT CONTROL REPORT
PILES

DATE : 19-Dec-24
PREPARED BY : IIA
CHECKED BY : RAM
REV : 1

ITEM NO.	DESCRIPTION	SOURCE CODE	WEIGHT CONDITION	CONTINGENCY FACTOR (%)	BASE WEIGHT (MT)				FACTORED WEIGHT (MT)				INSTALLATION BUOYANCY (MT)	CENTRE OF GRAVITY (M)		
					LOADOUT	TRANSPORT	DRY	OPERATING	LOADOUT	TRANSPORT	DRY	OPERATING		X	Y	Z
	STRUCTURAL															
1	Skirt Pile	P1	OI	7.5	0.00	0.00	2422.63	2422.63	0.00	0.00	2604.32	2604.32	-	0.000	9.694	-145.123
2	Docking Pile	P1	OI	7.5	0.00	0.00	40.09	40.09	0.00	0.00	43.10	43.10		1.360	-5.248	-115.071
3	Mill Allowance (2%)	P1	OI	0	0.00	0.00	49.25	49.25	0.00	0.00	49.25	49.25		0.022	9.450	-144.634
4	Weld Metal Allowance (1%)	P1	OI	0	0.00	0.00	24.63	24.63	0.00	0.00	24.63	24.63		0.022	9.450	-144.634
TOTAL	LOADOUT	AVERAGE FACTOR :		0.00	0.00				0.00				0.00	0.000	0.000	0.000
	TRANSPORTATION			0.00		0.00				0.00				0.000	0.000	0.000
	DRY			7.28			2536.60				2721.30			0.022	9.450	-144.634
	OPERATING			7.28				2536.60				2721.30		0.022	9.450	-144.634

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FEED - DHN - JACKET

Petrofac RNZ

PETROVIETNAM PVEP POC

WEIGHT CONTROL REPORT
PILES

DATE : 19-Dec-24
PREPARED BY : IIA
CHECKED BY : RAM
REV : 1

ITEM NO.	DESCRIPTION	SOURCE CODE	WEIGHT CONDITION	CONTINGENCY FACTOR (%)	BASE WEIGHT (MT)	FACTORED WEIGHT (MT)	INSTALLATION BUOYANCY (MT)	CENTRE OF GRAVITY (M)		
					LAUNCH	LAUNCH		X	Y	Z
	STRUCTURAL									
1	Skirt Pile	P1	OI	7.5	0.00	0.00		0.000	0.000	0.000
2	Docking Pile	P1	OI	7.5	0.00	0.00	-	0.000	0.000	0.000
3	Mill Allowance (2%)	P1	OI	0	0.00	0.00		0.000	0.000	0.000
4	Weld Metal Allowance (1%)	P1	OI	0	0.00	0.00		0.000	0.000	0.000
TOTAL		LAUNCH		AVERAGE FACTOR :	0.00	0.00	0.00	0.000	0.000	0.000

SOURCE CODE

P1 = From BOCAD
P2 = From MTO Take-off
P3 = From PDMS
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FEED - DHN - JACKET

Petrofac RNZ

PETROVIETNAM PVEP POC

WEIGHT CONTROL REPORT
GROUT

DATE : 19-Dec-24
PREPARED BY : IIA
CHECKED BY : RAM
REV : 1

ITEM NO.	DESCRIPTION	SOURCE CODE	WEIGHT CONDITION	CONTINGENCY FACTOR (%)	BASE WEIGHT (MT)				FACTORED WEIGHT (MT)				INSTALLATION BUOYANCY (MT)	CENTRE OF GRAVITY (M)		
					LOADOUT	TRANSPORT	DRY	OPERATING	LOADOUT	TRANSPORT	DRY	OPERATING		X	Y	Z
	STRUCTURAL															
1	Grout (@ Skirt Pile Sleeve)	P2	OI	10	0.00	0.00	94.91	94.91	0.00	0.00	104.40	104.40	-	0.000	8.119	-101.501
TOTAL	LOADOUT	AVERAGE FACTOR :		0.00	0.00				0.00				0.00	0.000	0.000	0.000
	TRANSPORTATION			0.00		0.00				0.00				0.000	0.000	0.000
	DRY			10.00			94.91				104.40			0.000	8.119	-101.501
	OPERATING			10.00				94.91				104.40		0.000	8.119	-101.501

SOURCE CODE

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FEED - DHN - JACKET

Petrofac RNZ

PETROVIETNAM PVEP POC

WEIGHT CONTROL REPORT
GROUT

DATE : 19-Dec-24
PREPARED BY : IIA
CHECKED BY : RAM
REV : 1

ITEM NO.	DESCRIPTION	SOURCE CODE	WEIGHT CONDITION	CONTINGENCY FACTOR (%)	BASE WEIGHT (MT)	FACTORED WEIGHT (MT)	INSTALLATION BUOYANCY (MT)	CENTRE OF GRAVITY (M)		
					GROUTING	GROUTING		X	Y	Z
	STRUCTURAL									
1	Grout (@ Skirt Pile Sleeve)	P2	OI	10	0.00	0.00	-	0.000	0.000	0.000
TOTAL		GROUTING		AVERAGE FACTOR :	0.00	0.00	0.00	0.000	0.000	0.000

SOURCE CODE

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APPENDIX 2

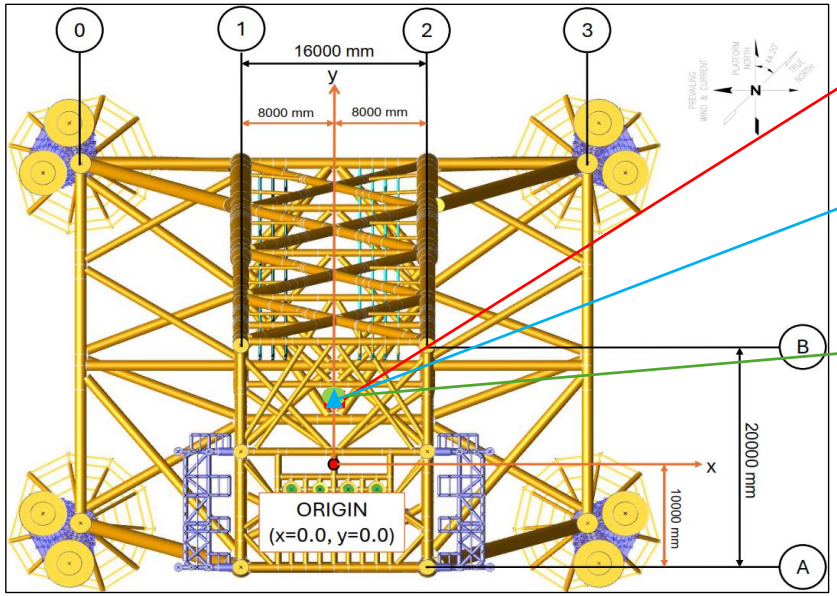
COG LOCATION

FEED - DHN - JACKET		
Petrofac RNZ	CENTRE OF GRAVITY	PETROVIETNAM PVEP POC

Project	: Dai Hung Nam Field Development Project	Date :	19-Dec-24
Client	: Domestic Petroleum Operating Branch – PetroVietnam Exploration Production Corporation Limited (PVEP-POC)	By :	IIA
Doc. Title	: Jacket Weight Control Report	Checked :	RAM
		Revision :	1

WHP-DHN JACKET COG (FOR ALL CONDITION)

REVISION	CENTRE OF GRAVITY			BASE WEIGHT (MT)	FACTORED WEIGHT (MT)
	x (m)	y (m)	z (m)		
Loadout & Transportation	0.066	5.438	-62.282	5213.12	5611.73
Launch	0.066	5.438	-62.282	5213.12	5611.73
Dry & Operating	0.025	5.763	-88.520	8210.53	8842.32



Loadout & Transportation
COG Rev. 1
(x = 0.066, y = 5.438)

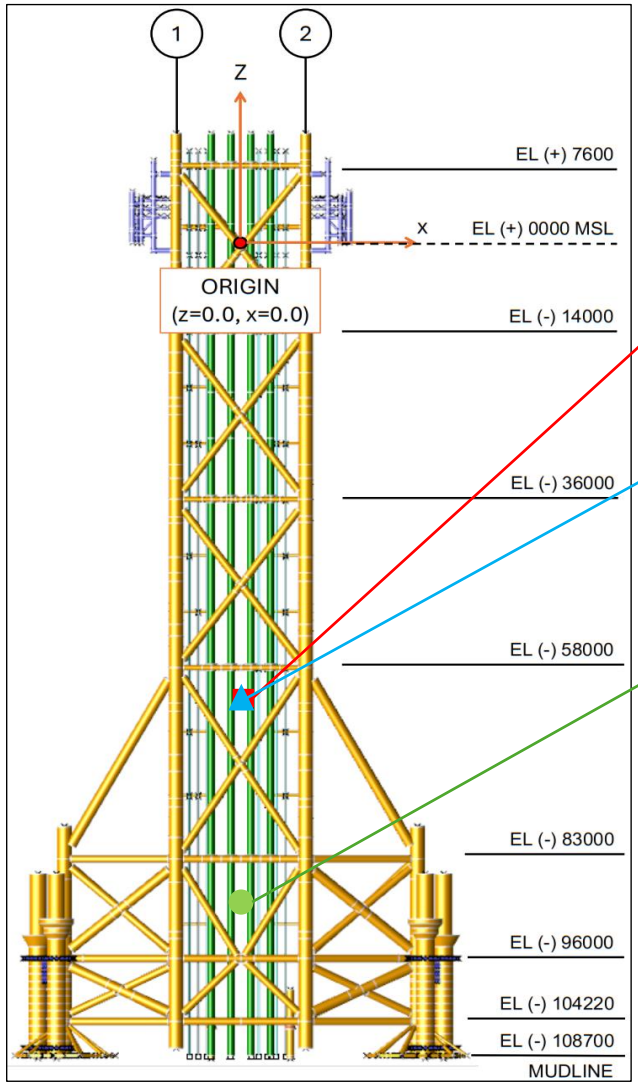
Launch
COG Rev. 1
(x = 0.066, y = 5.438)

Dry & Operating
COG Rev. 1
(x = 0.025, y = 5.763)

COG Location:

- Loadout & Transportation Weight COG Location
- Launch Weight COG Location
- Dry & Operating Weight COG Location

WHP-DHN JACKET COG (FOR ALL CONDITION)



Loadout & Transportation
COG Rev. 1
(x = 0.066, z = -62.282)

Launch
COG Rev. 1
(x = 0.066, z = -62.282)

Dry & Operating
COG Rev. 1
(x = 0.025, z = -88.520)

COG Location:

- Loadout & Transportation Weight COG Location
- Launch Weight COG Location
- Dry & Operating Weight COG Location

FEED - DHN - JACKET

Petrofac RNZ

CENTRE OF GRAVITY

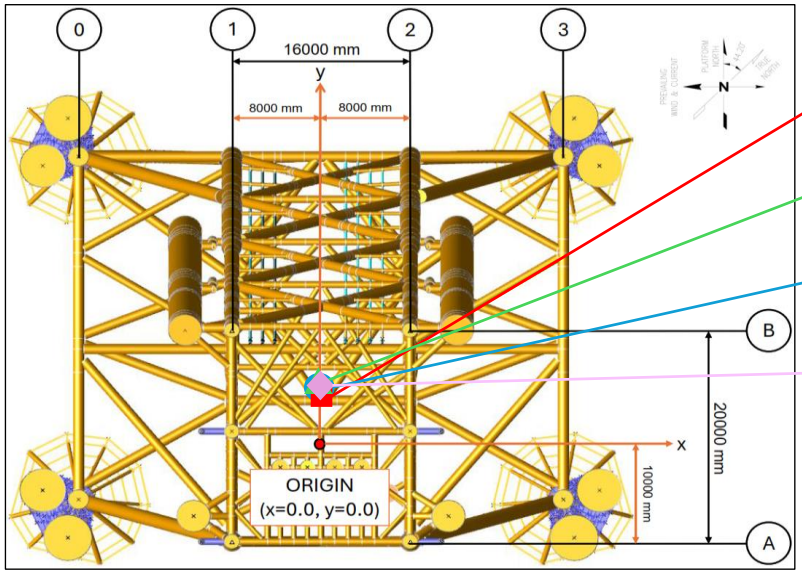
PETROVIETNAM PVEP POC

Project	: Dai Hung Nam Field Development Project	Date :	19-Dec-24
Client	: Domestic Petroleum Operating Branch – PetroVietnam Exploration Production Corporation Limited (PVEP-POC)	By :	IIA
Doc. Title	: Jacket Weight Control Report	Checked :	RAM
		Revision :	1

WHP-DHN JACKET COG

Loadout & Transportation: Plan View

REVISION	CENTRE OF GRAVITY			BASE WEIGHT (MT)	FACTORED WEIGHT (MT)
	x (m)	y (m)	z (m)		
Rev. C0 - IFR	0.103	4.876	-64.249	4790.64	5519.86
Rev. D0 - AFD	0.006	5.584	-62.573	5195.38	5748.45
Rev. 0 - AFC	0.018	5.418	-62.787	5219.49	5618.56
Rev. 1 - Re-AFC	0.066	5.438	-62.282	5213.12	5611.73



Loadout & Transportation COG Rev. C0 (x = 0.103, y = 4.876)

Loadout & Transportation COG Rev. D0 (x = 0.006, y = 5.584)

Loadout & Transportation COG Rev. 0 (x = 0.018, y = 5.418)

Loadout & Transportation COG Rev. 1 (x = 0.066, y = 5.438)

COG Location:

- Loadout & Transportation Weight COG Location Rev C0
- Loadout & Transportation Weight COG Location Rev D0
- Loadout & Transportation Weight COG Location Rev 0
- Loadout & Transportation Weight COG Location Rev 1

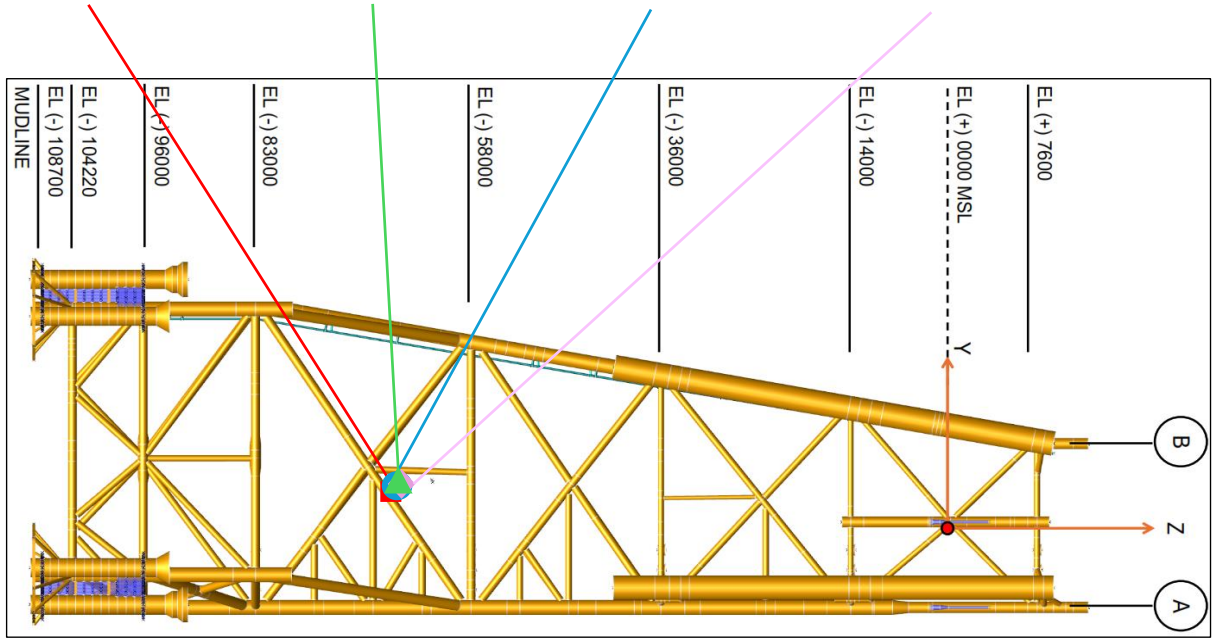
WHP-DHN JACKET COG
Loadout & Transportation: Elevation View

Loadout & Transportation
COG Rev. C0
(y = 4.876, z = -64.249)

Loadout & Transportation
COG Rev. D0
(y = 5.584, z = -62.573)

Loadout & Transportation
COG Rev. 0
(y = 5.418, z = -62.787)

Loadout & Transportation
COG Rev. 1
(y = 5.438, z = -62.282)



COG Location:

- Loadout & Transportation Weight COG Location Rev C0
- Loadout & Transportation Weight COG Location Rev D0
- Loadout & Transportation Weight COG Location Rev 0
- Loadout & Transportation Weight COG Location Rev 1

FEED - DHN - JACKET

Petrofac RNZ

CENTRE OF GRAVITY

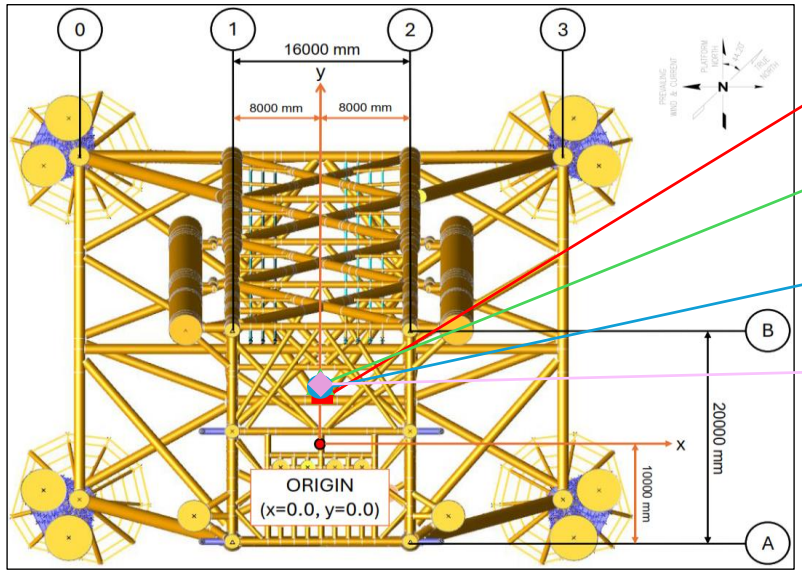
PETROVIETNAM PVEP POC

Project	: Dai Hung Nam Field Development Project	Date :	19-Dec-24
Client	: Domestic Petroleum Operating Branch – PetroVietnam Exploration Production Corporation Limited (PVEP-POC)	By :	IIA
Doc. Title	: Jacket Weight Control Report	Checked :	RAM
		Revision :	1

WHP-DHN JACKET COG

Launch: Plan View

REVISION	CENTRE OF GRAVITY			BASE WEIGHT (MT)	FACTORED WEIGHT (MT)
	x (m)	y (m)	z (m)		
Rev. C0 - IFR	0.103	4.876	-64.249	4790.64	5519.86
Rev. D0 - AFD	0.005	5.585	-62.648	5195.38	5700.80
Rev. 0 - AFC	0.018	5.418	-62.787	5219.49	5618.56
Rev. 1 - Re-AFC	0.066	5.438	-62.282	5213.12	5611.73



Launch
COG Rev. C0
(x = 0.103, y = 4.876)

Launch
COG Rev. D0
(x = 0.005, y = 5.585)

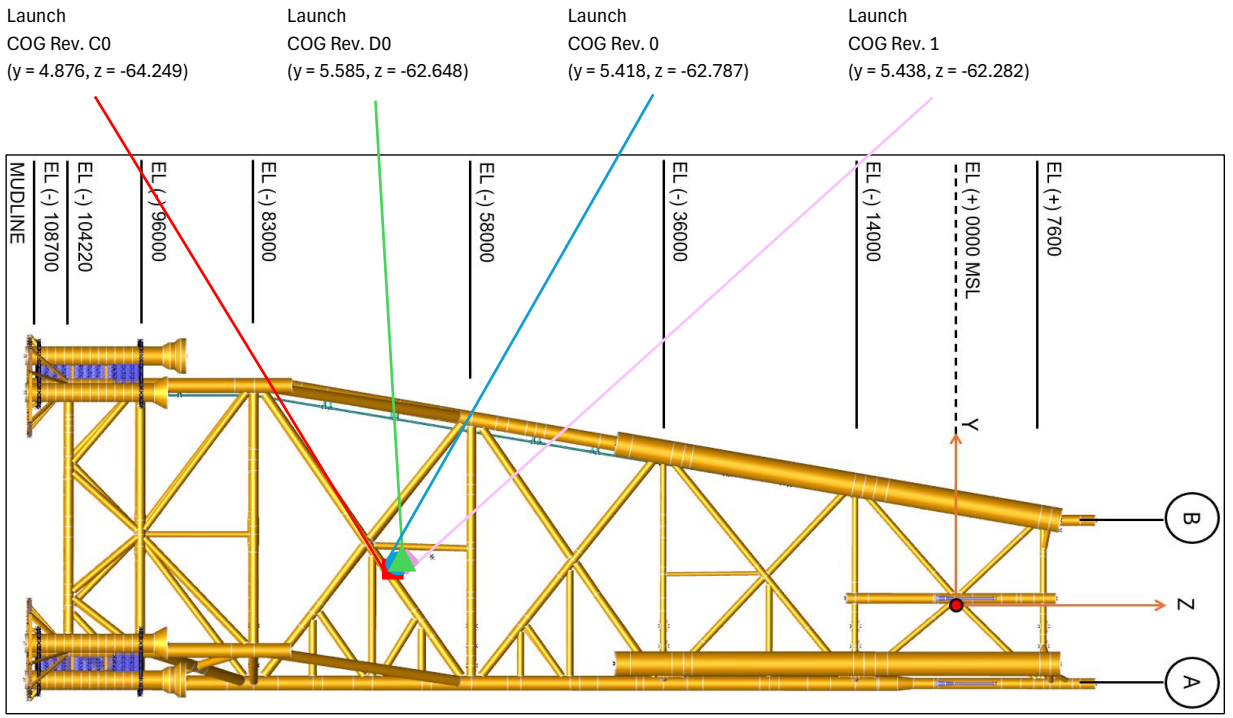
Launch
COG Rev. 0
(x = 0.018, y = 5.418)

Launch
COG Rev. 1
(x = 0.066, y = 5.438)

COG Location:

- Launch Weight COG Location Rev C0
- Launch Weight COG Location Rev D0
- Launch Weight COG Location Rev 0
- Launch Weight COG Location Rev 1

WHP-DHN JACKET COG
Launch: Elevation View



COG Location:

- Launch Weight COG Location Rev C0
- Launch Weight COG Location Rev D0
- Launch Weight COG Location Rev 0
- Launch Weight COG Location Rev 1

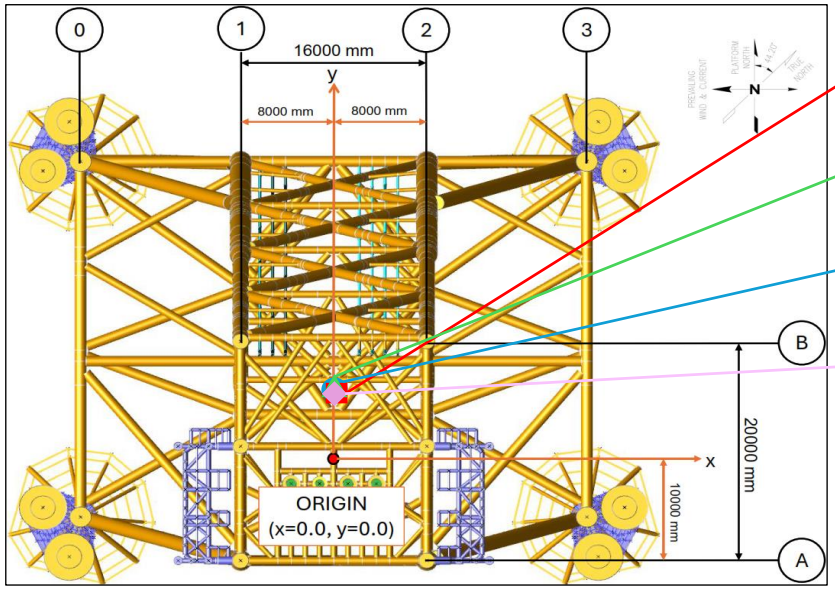
FEED - DHN - JACKET		
Petrofac RNZ	CENTRE OF GRAVITY	PETROVIETNAM PVEP POC

Project	: Dai Hung Nam Field Development Project	Date :	19-Dec-24
Client	: Domestic Petroleum Operating Branch – PetroVietnam Exploration Production Corporation Limited (PVEP-POC)	By :	IIA
Doc. Title	: Jacket Weight Control Report	Checked :	RAM
		Revision :	1

WHP-DHN JACKET COG

Dry & Operating: Plan View

REVISION	CENTRE OF GRAVITY			BASE WEIGHT (MT)	FACTORED WEIGHT (MT)
	x (m)	y (m)	z (m)		
Rev. C0 - IFR	0.084	5.630	-91.712	8293.55	9571.61
Rev. D0 - AFD	0.021	6.210	-91.823	8639.11	9562.67
Rev. 0 - AFC	0.027	5.620	-88.597	8192.34	8822.85
Rev. 1 - Re-AFC	0.025	5.763	-88.520	8210.53	8842.32



Dry & Operating
COG Rev. C0
(x = 0.084, y = 5.630)

Dry & Operating
COG Rev. D0
(x = 0.021, y = 6.210)

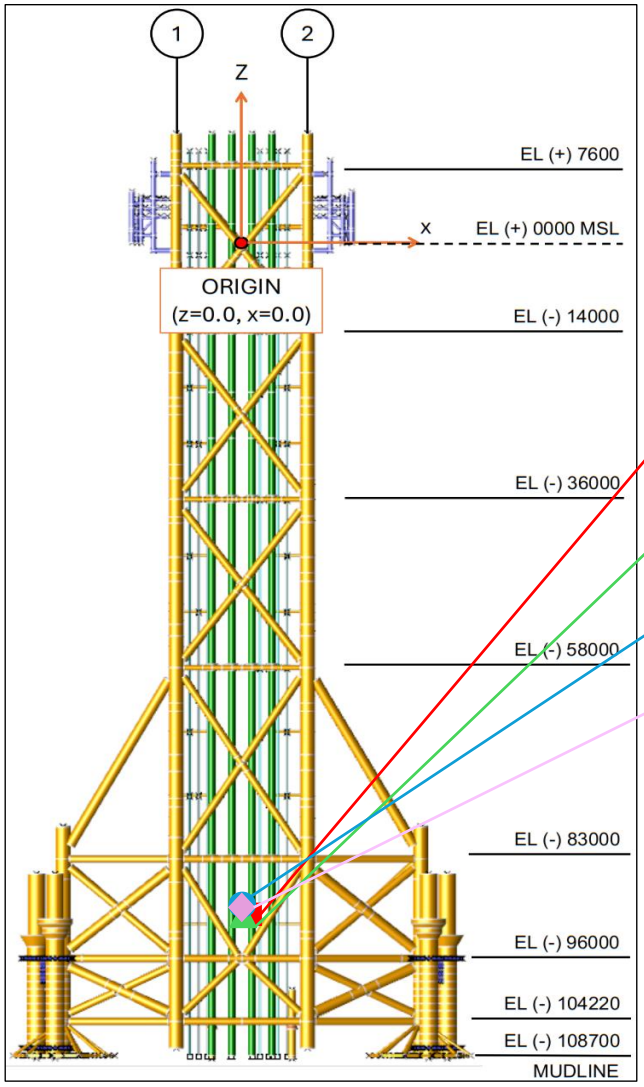
Dry & Operating
COG Rev. 0
(x = 0.021, y = 6.210)

Dry & Operating
COG Rev. 1
(x = 0.025, y = 5.763)

COG Location:

- Dry & Operating Weight COG Location Rev C0
- Dry & Operating Weight COG Location Rev D0
- Dry & Operating Weight COG Location Rev 0
- Dry & Operating Weight COG Location Rev 1

WHP-DHN JACKET COG
Dry & Operating: Elevation View



Dry & Operating
COG Rev. C0
(x = 0.084, z = -91.712)

Dry & Operating
COG Rev. D0
(x = 0.021, z = -91.823)

Dry & Operating
COG Rev. 0
(x = 0.027, z = -88.597)

Dry & Operating
COG Rev. 1
(x = 0.025, z = -88.520)

COG Location:

- Dry & Operating Weight COG Location Rev C0
- Dry & Operating Weight COG Location Rev D0
- Dry & Operating Weight COG Location Rev 0
- Dry & Operating Weight COG Location Rev 1

APPENDIX 3

WEIGHT TREND CHART

FEED - DHN - JACKET

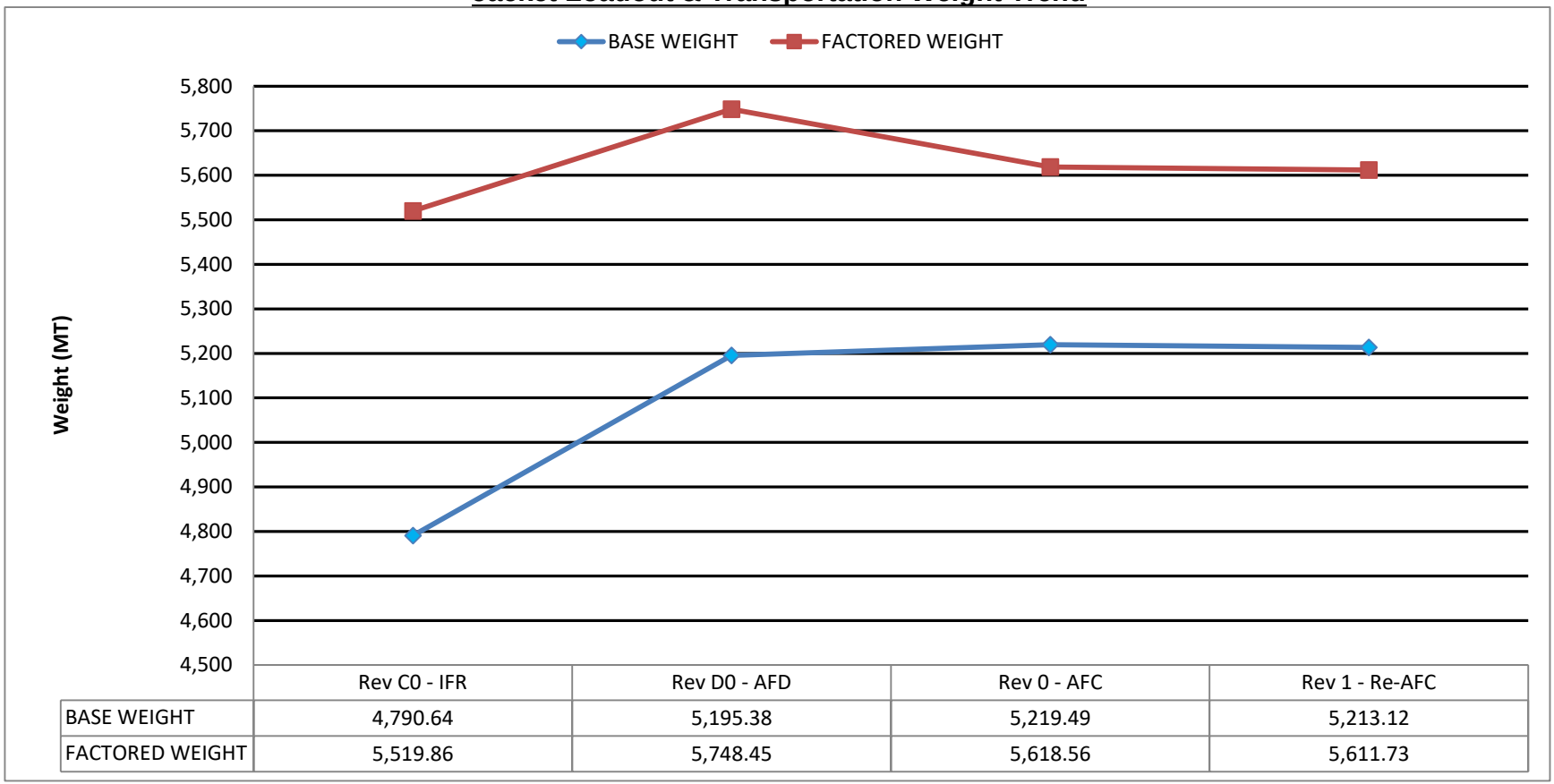
Petrofac RNZ

JACKET WEIGHT TREND

PETROVIETNAM PVEP POC

Project	:	Dai Hung Nam Field Development Project	DATE : 19-Dec-24
Client	:	Domestic Petroleum Operating Branch – PetroVietnam Exploration Production Corporation Limited (PVEP-POC)	BY : IIA
Doc. Title	:	Jacket Weight Control Report	CHECKED : RAM
			REVISION : 1

Jacket Loadout & Transportation Weight Trend



	Rev C0 - IFR	Rev D0 - AFD	Rev 0 - AFC	Rev 1 - Re-AFC
BASE WEIGHT	4,790.64	5,195.38	5,219.49	5,213.12
FACTORED WEIGHT	5,519.86	5,748.45	5,618.56	5,611.73

FEED - DHN - JACKET

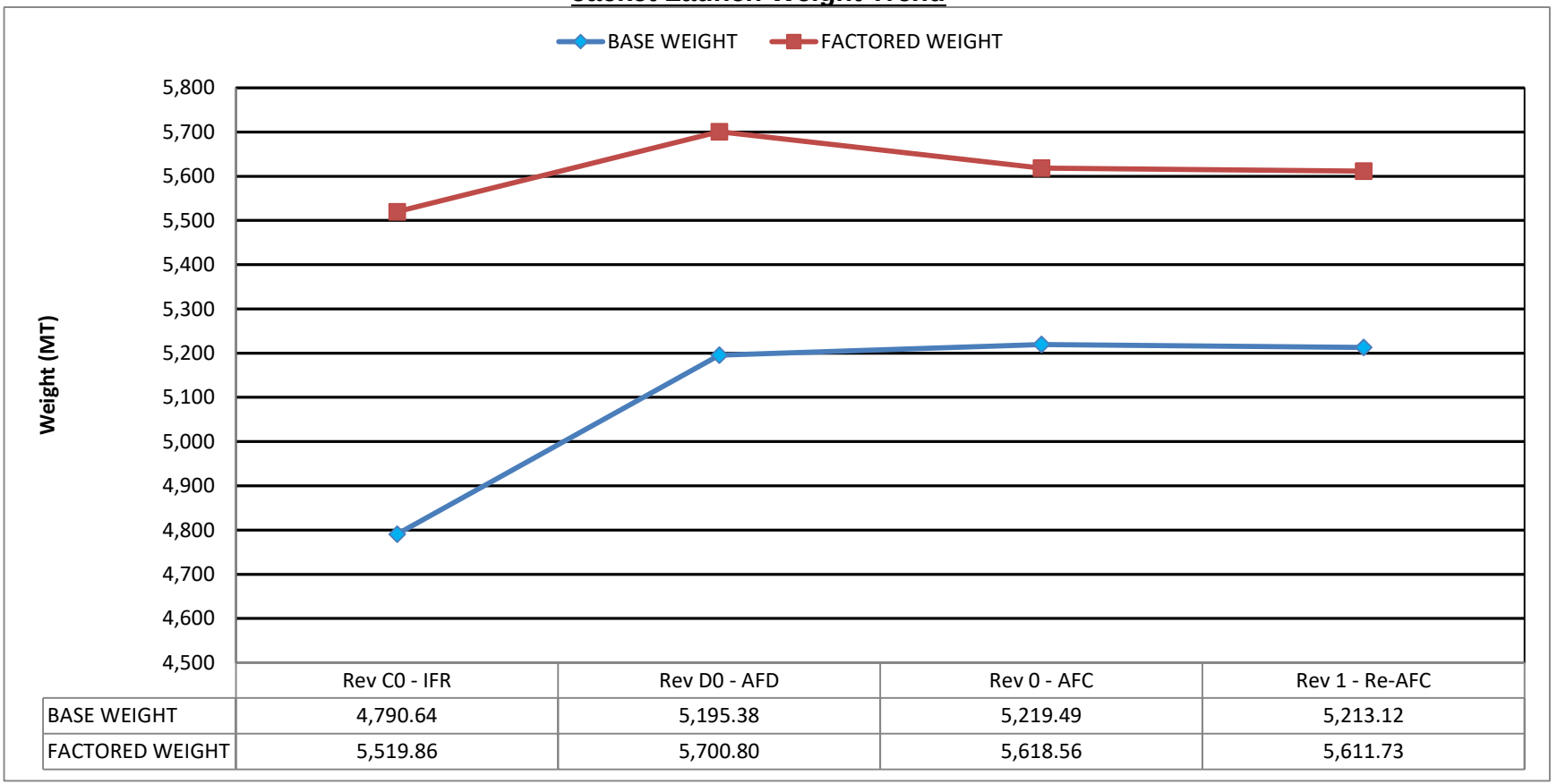
Petrofac RNZ

JACKET WEIGHT TREND

PETROVIETNAM PVEP POC

Project	:	Dai Hung Nam Field Development Project	DATE : 19-Dec-24
Client	:	Domestic Petroleum Operating Branch – PetroVietnam Exploration Production Corporation Limited (PVEP-POC)	BY : IIA
Doc. Title	:	Jacket Weight Control Report	CHECKED : RAM
			REVISION : 1

Jacket Launch Weight Trend



	Rev C0 - IFR	Rev D0 - AFD	Rev 0 - AFC	Rev 1 - Re-AFC
BASE WEIGHT	4,790.64	5,195.38	5,219.49	5,213.12
FACTORED WEIGHT	5,519.86	5,700.80	5,618.56	5,611.73

FEED - DHN - JACKET

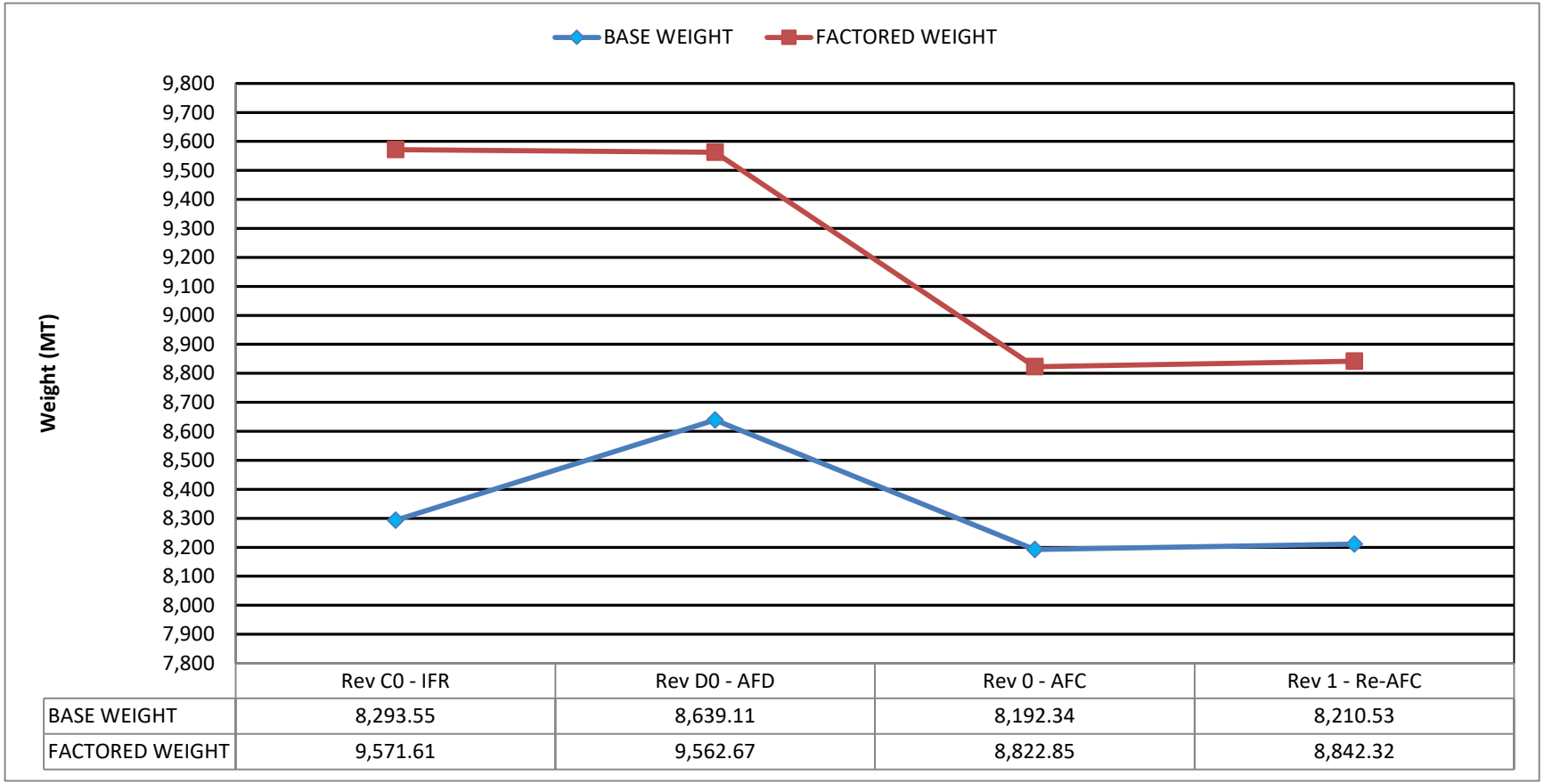
Petrofac RNZ

JACKET WEIGHT TREND

PETROVIETNAM PVEP POC

Project	:	Dai Hung Nam Field Development Project	DATE	: 19-Dec-24
Client	:	Domestic Petroleum Operating Branch – PetroVietnam Exploration Production Corporation Limited (PVEP-POC)	BY	: IIA
Doc. Title	:	Jacket Weight Control Report	CHECKED	: RAM
			REVISION	: 1

Jacket Dry & Operating Weight Trend



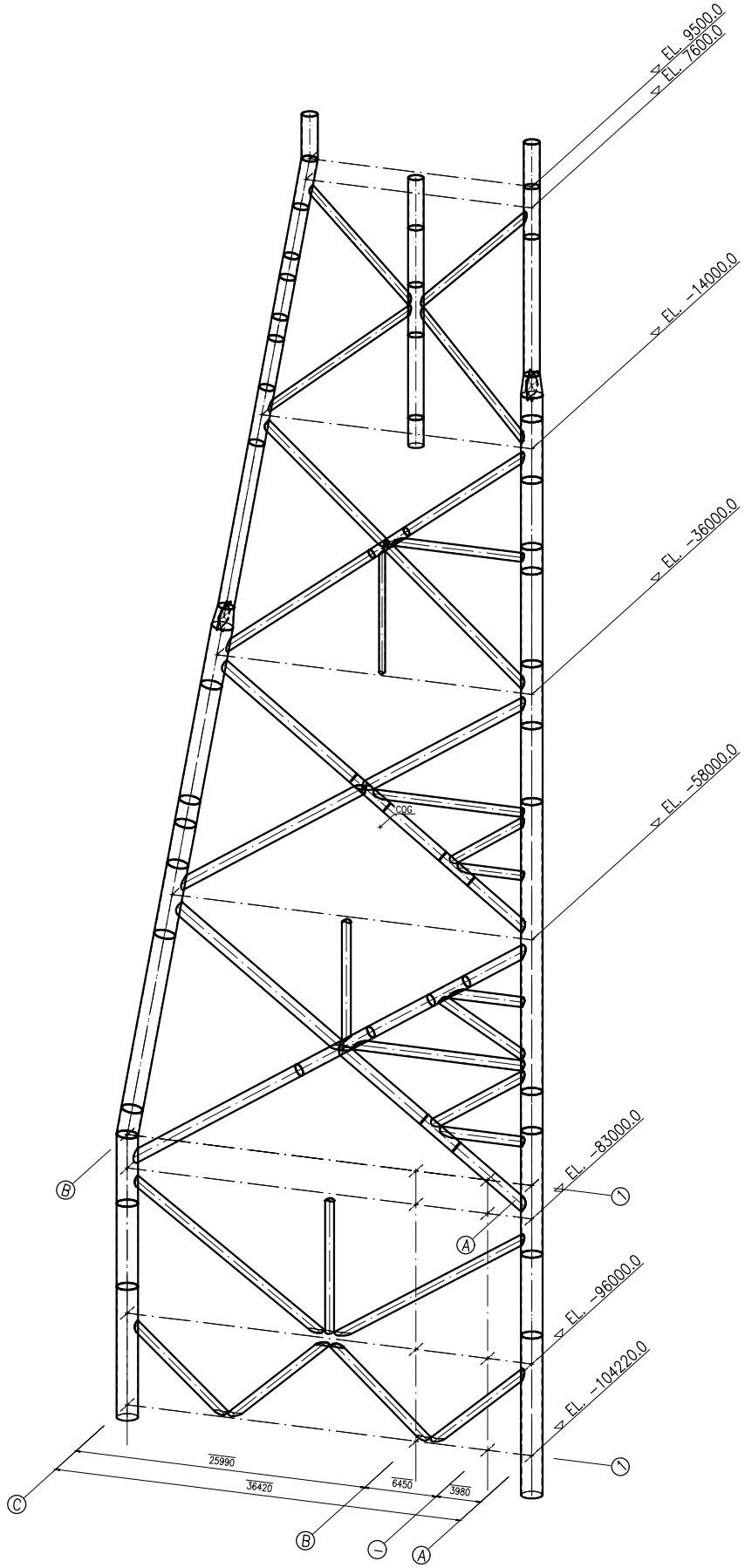
	Rev C0 - IFR	Rev D0 - AFD	Rev 0 - AFC	Rev 1 - Re-AFC
BASE WEIGHT	8,293.55	8,639.11	8,192.34	8,210.53
FACTORED WEIGHT	9,571.61	9,562.67	8,822.85	8,842.32

APPENDIX 4

BOCAD EXTRACTS

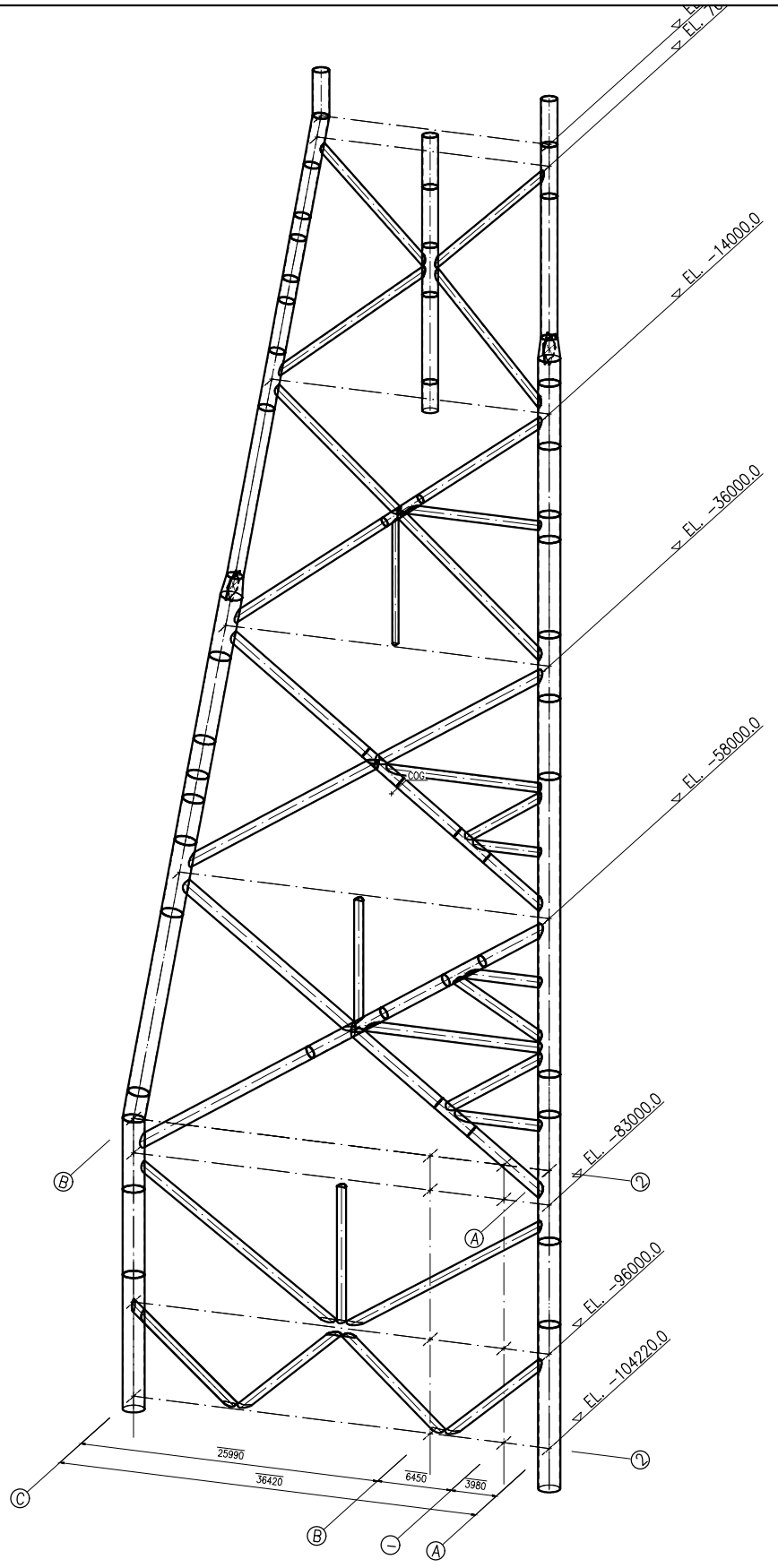
JACKET WEIGHT CONTROL REPORT

PRIMARY & SECONDARY STEEL



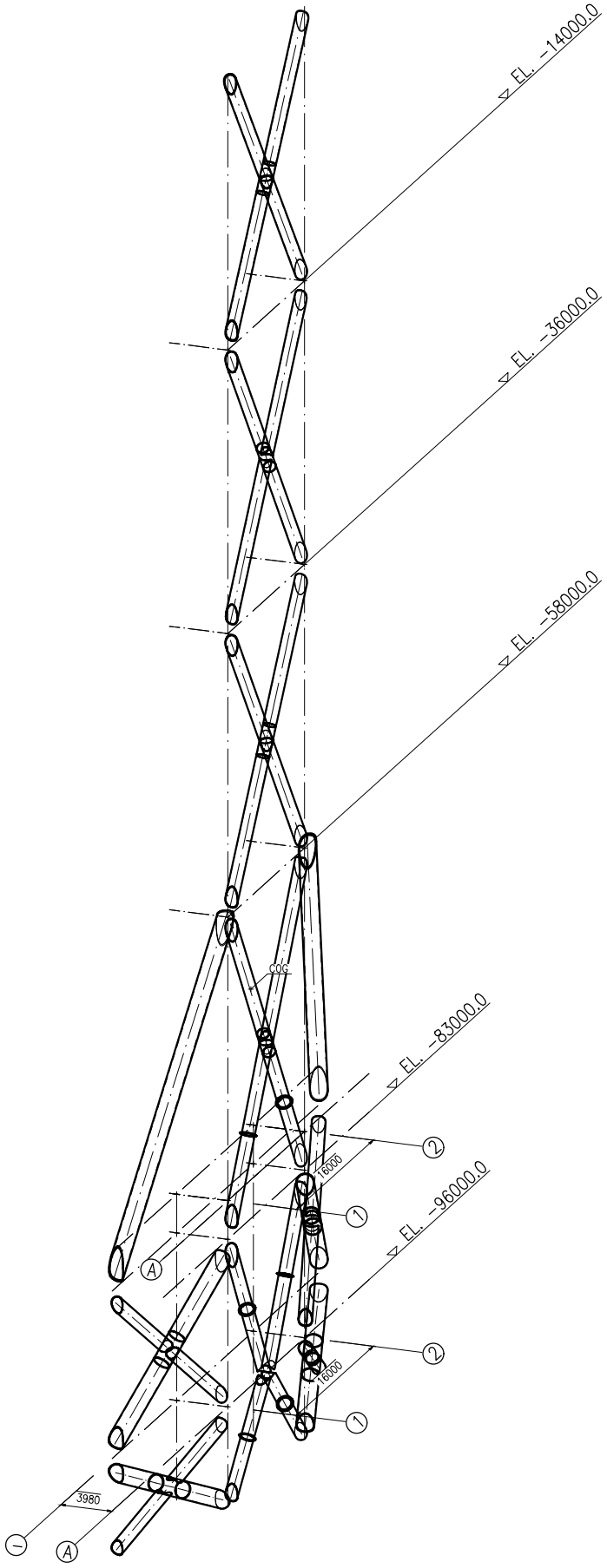
TRUSS ROW 1

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -16000
Y: -6335.3
Z: -49608.73
==========
WEIGHT: 7209.67 KN/734930.87 Kg



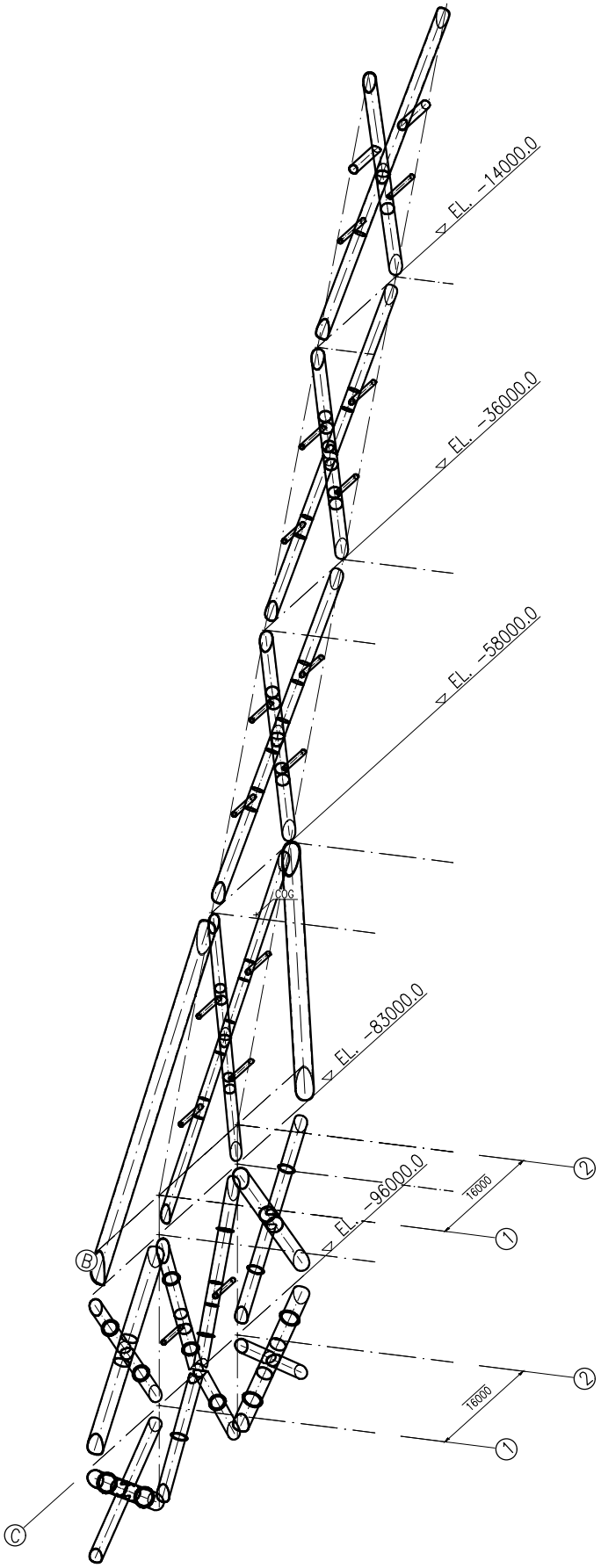
TRUSS ROW 2

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -0.03
Y: -6170.81
Z: -48864.98
==========
WEIGHT: 7424.65 KN/756845.25 Kg



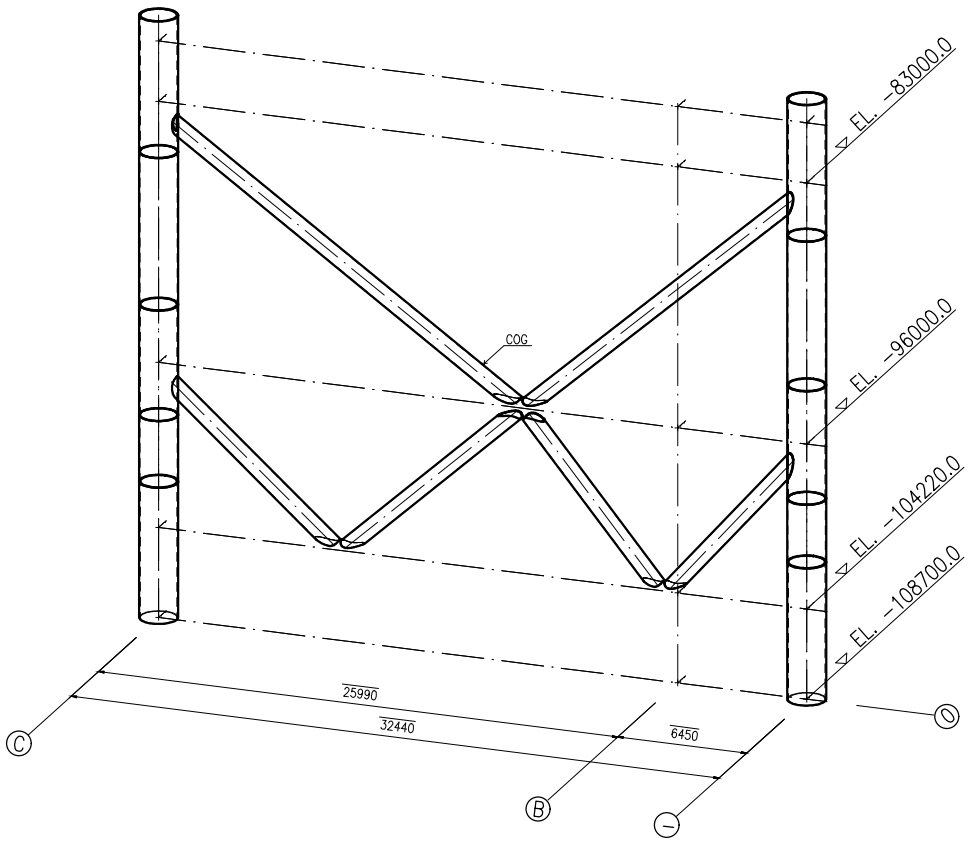
TRUSS ROW A

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -7999.68
Y: -18805.71
Z: -66418.56
==========
WEIGHT: 3196.28 KN/325818.9 Kg
==========



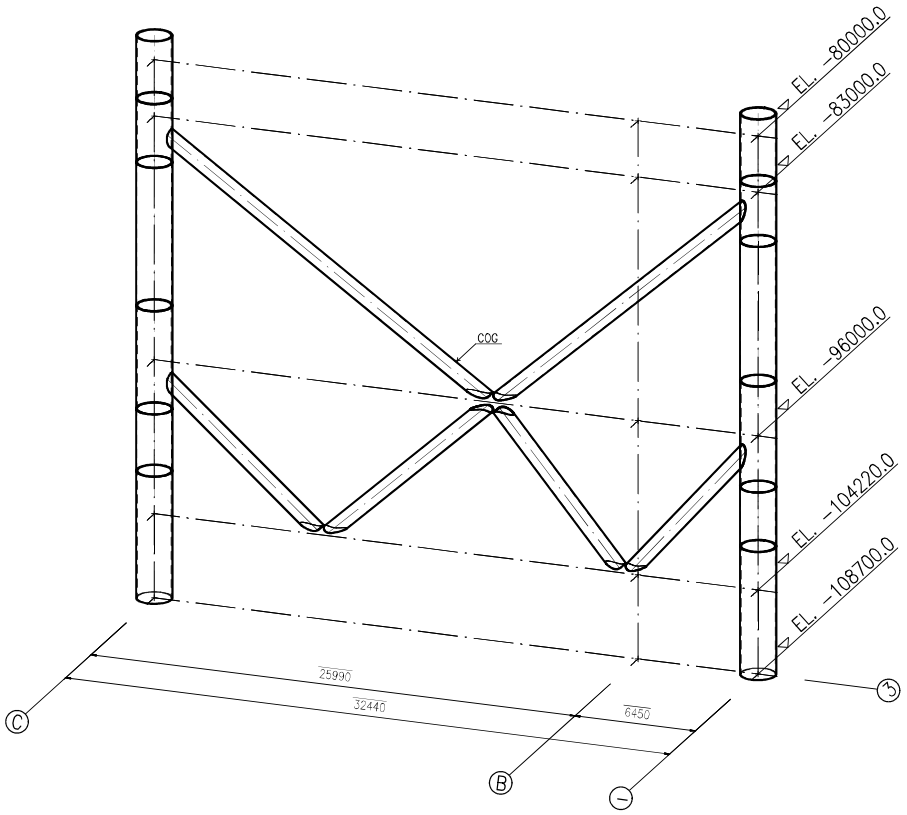
TRUSS ROW B

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -7982.4
Y: 12003.7
Z: -60814.42
==========
WEIGHT: 2885.68 KN/294157.06 Kg



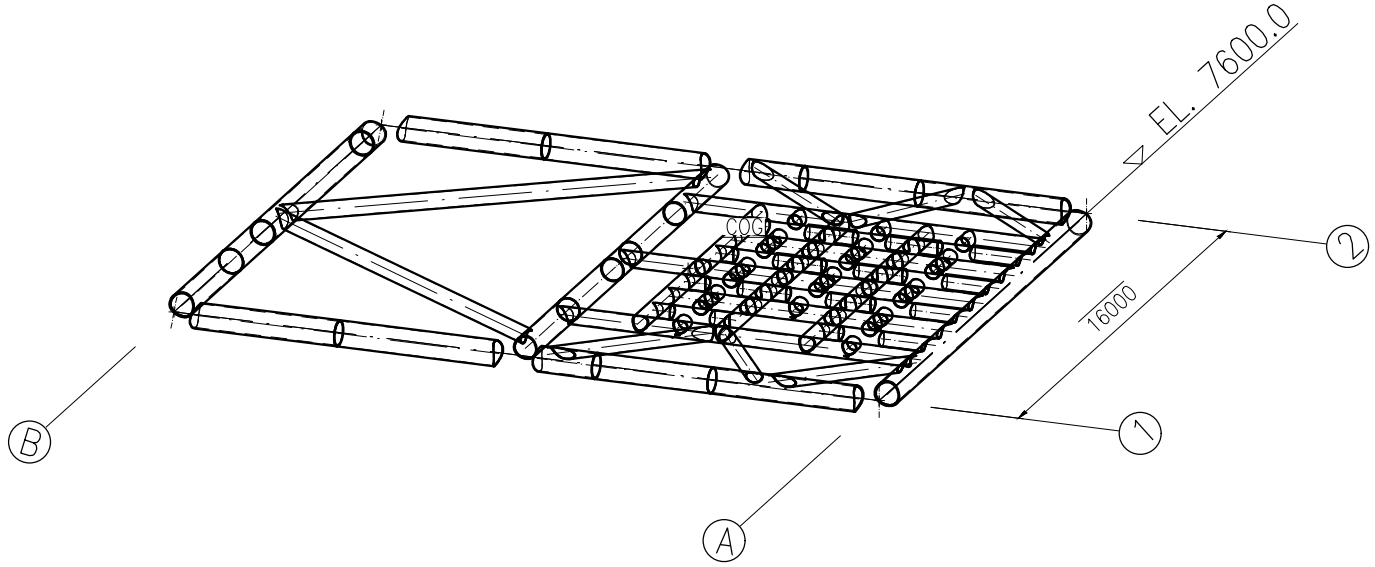
TRUSS ROW 0

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -29750
Y: 117.67
Z: -94005.86
==========
WEIGHT: 1607.87 KN/163901.14 Kg



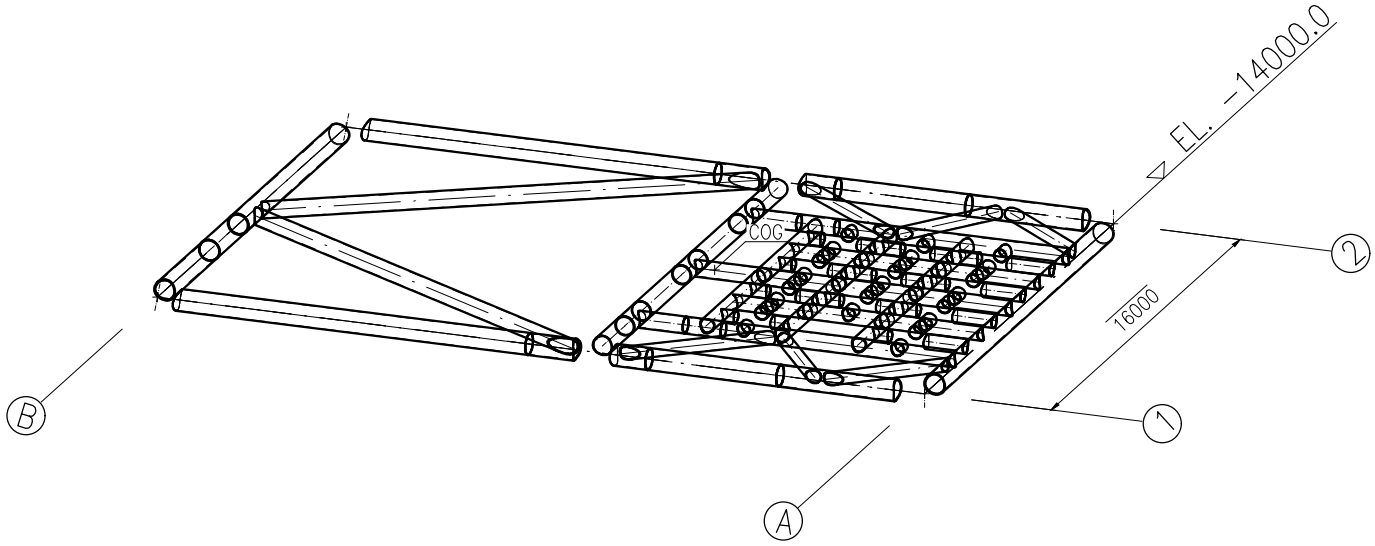
TRUSS ROW 3

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: 13750
Y: 130.78
Z: -93996.69
==========
WEIGHT: 1609.26 KN/164043.12 Kg



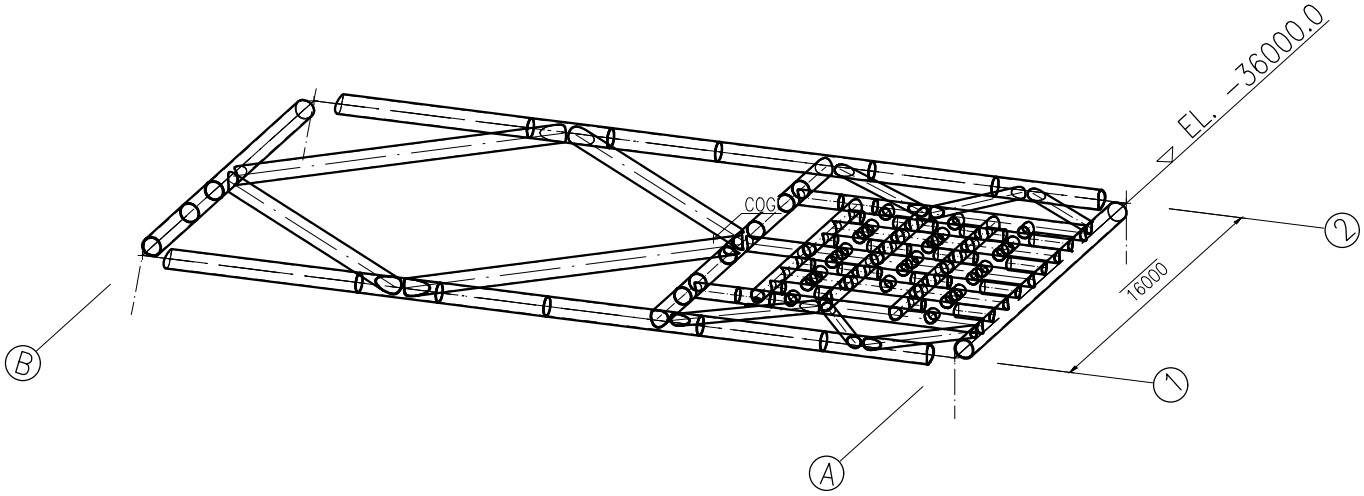
Framing Plan El. (+)7600

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -7948.35
Y: -11469.8
Z: 7631.42
==========
WEIGHT: 568.94 KN/57995.97 Kg



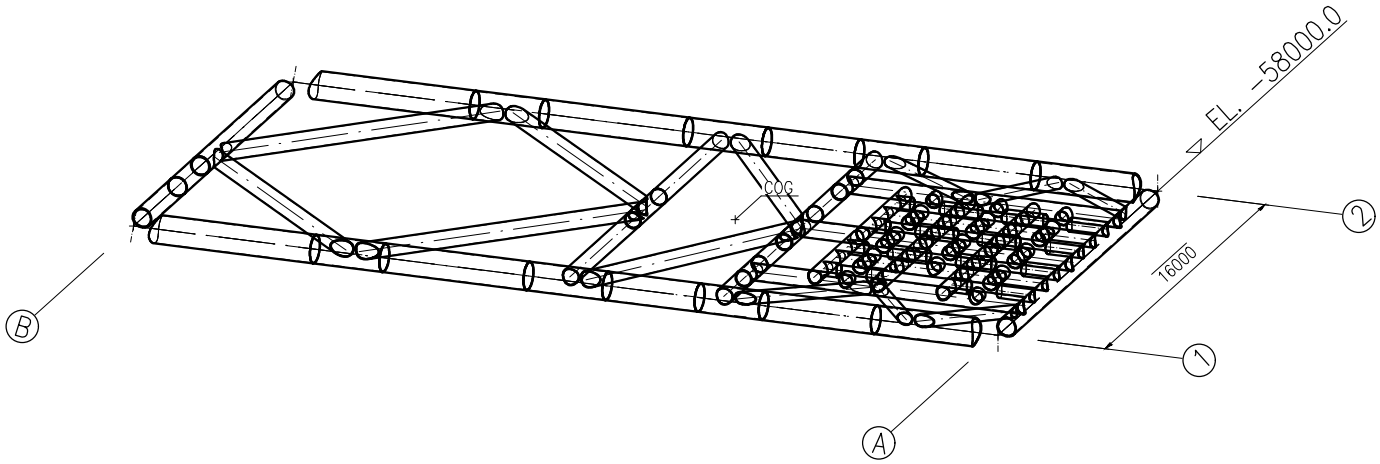
Framing Plan El. (-)14000

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -7957.75
Y: -10337.58
Z: -14000.04
==========
WEIGHT: 543.45 KN/55397.98 Kg



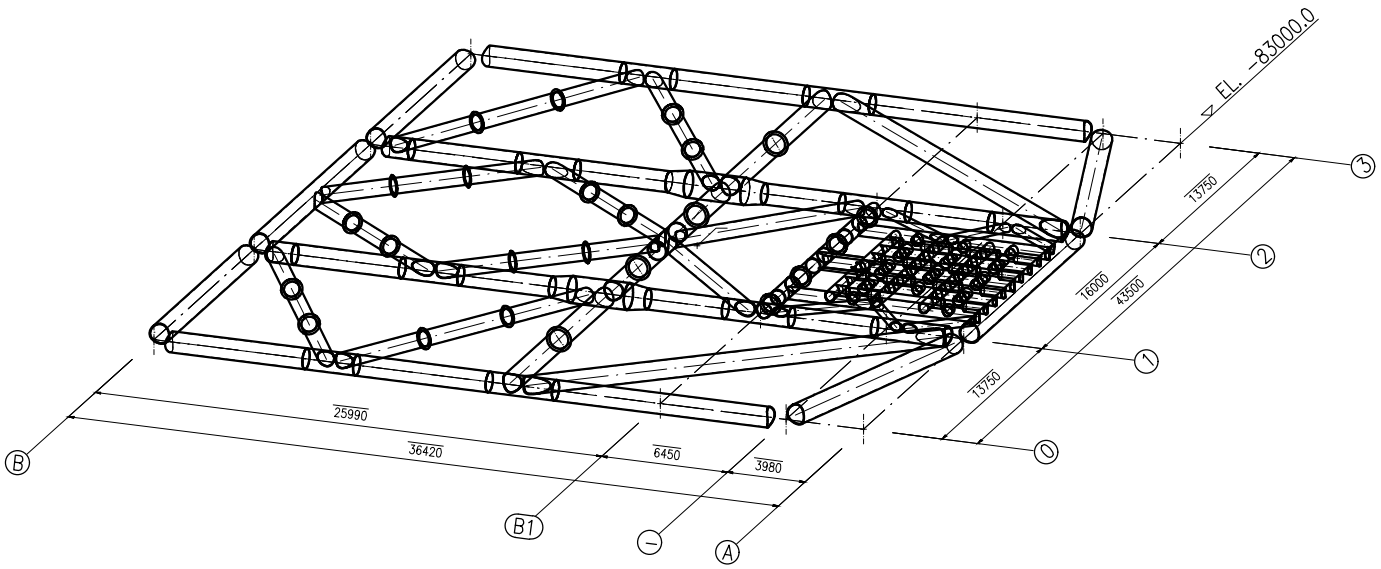
Framing Plan El. (-)36000

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -7965.62
Y: -8575.11
Z: -36000.28
==========
WEIGHT: 634.07 KN/64634.68 Kg



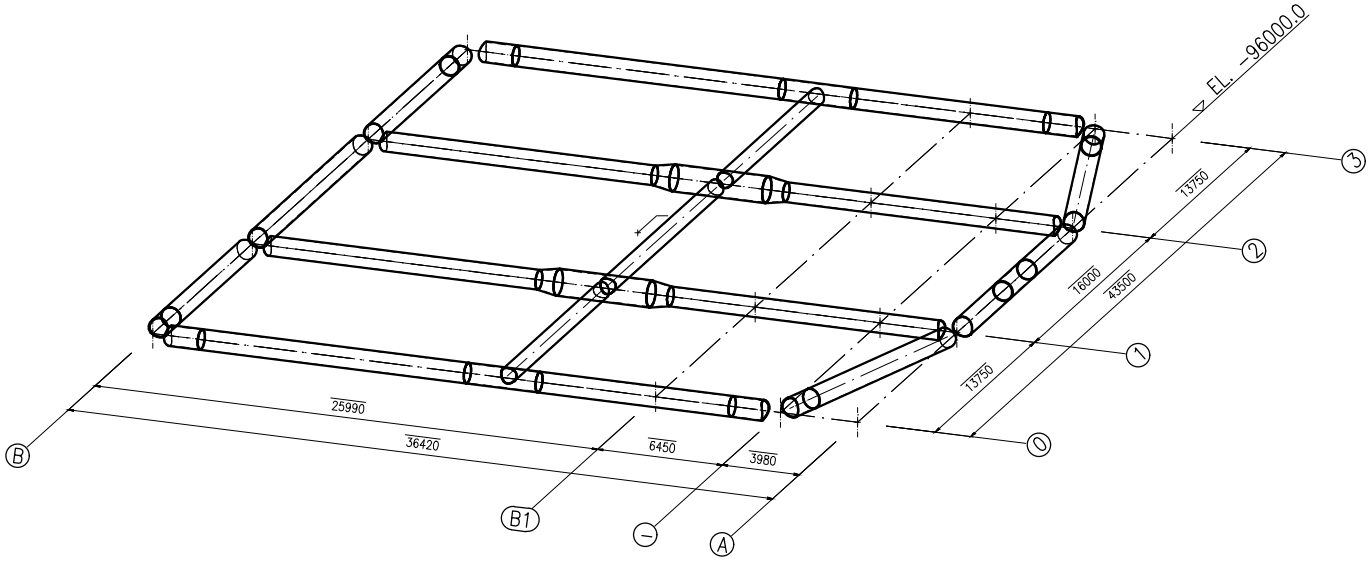
Framing Plan El. (-)58000

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -7967.65
Y: -7146.53
Z: -58000.23
==========
WEIGHT: 924.19 KN/94209.4 Kg



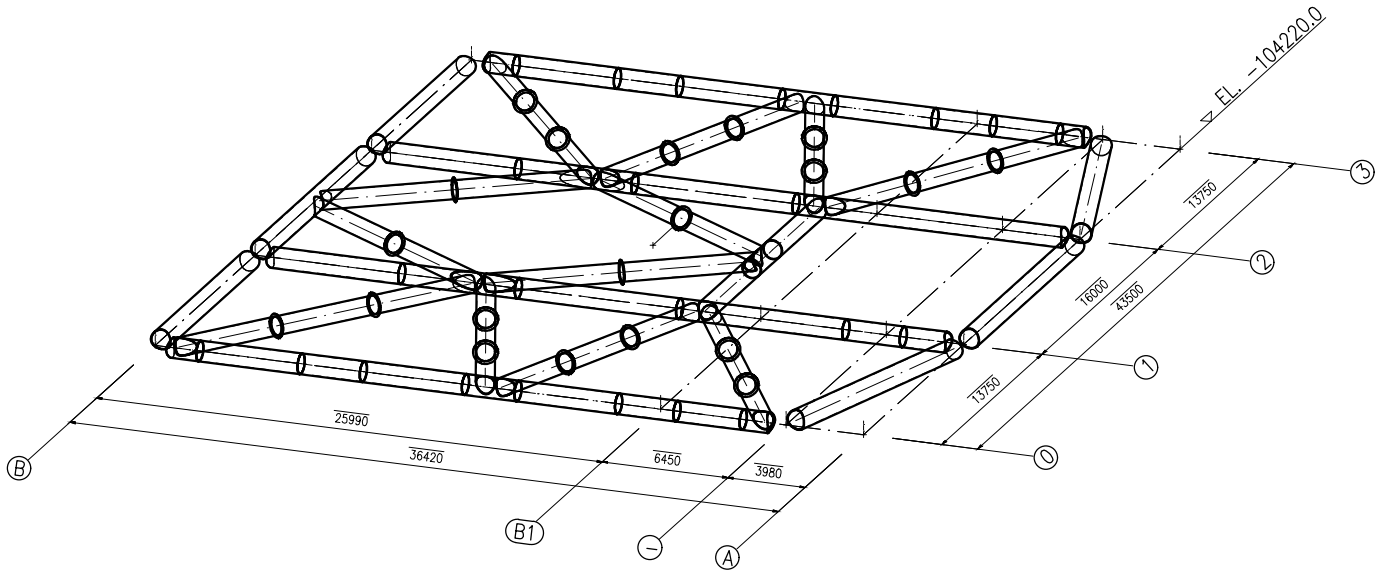
Framing Plan El. (-)83000

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -8051.32
Y: -3336.98
Z: -83000
==========
WEIGHT: 2327.054 KN/237212.5 Kg



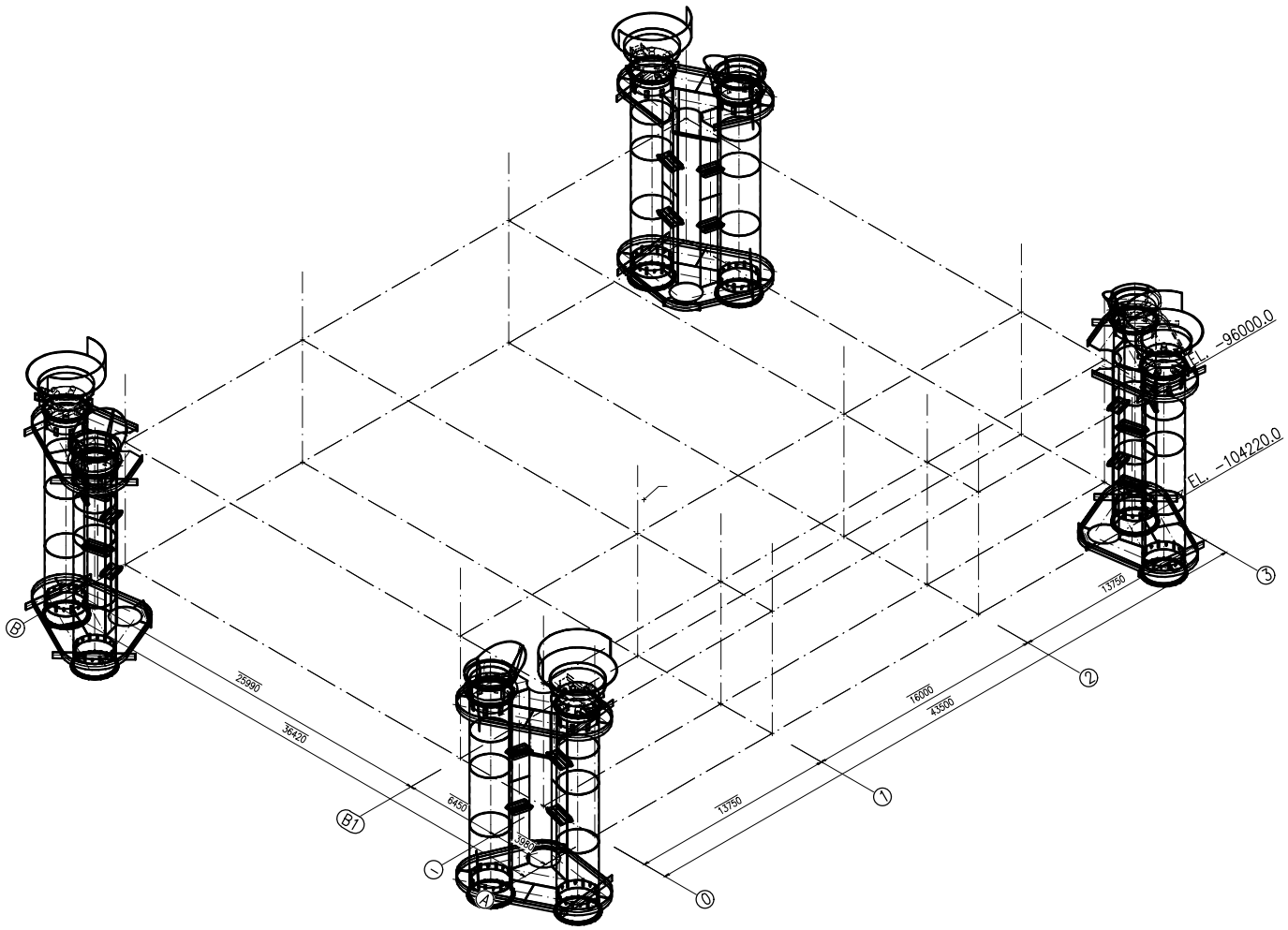
Framing Plan El. (-)96000

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -8007.8
Y: -511.12
Z: -96000
==========
WEIGHT: 1326.508 KN/135219.9 Kg



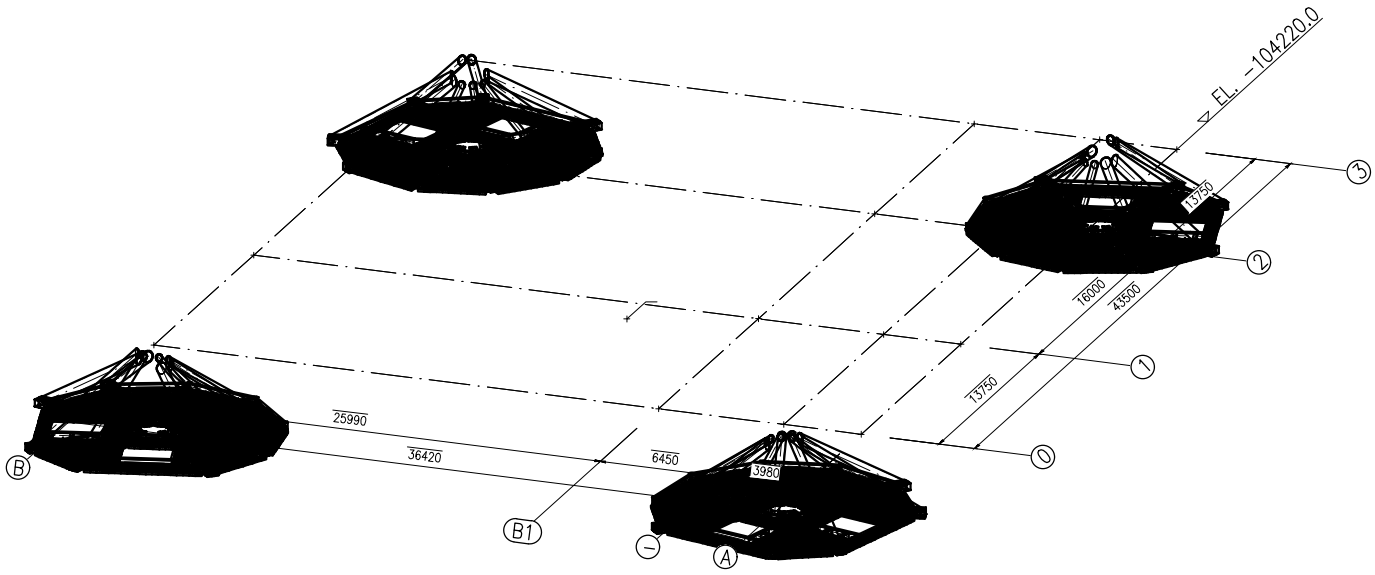
Framing Plan El. (-)104220

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -7982.37
Y: -1030.74
Z:-104220.00
==========
WEIGHT: 1987.582 KN/202607.7 Kg



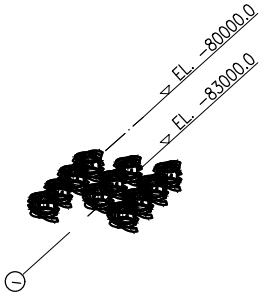
Skirt Pile Sleeve

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -8000
Y: -2055.53
Z: -101501.06
==========
WEIGHT: 3306.52 KN/337056.43 Kg



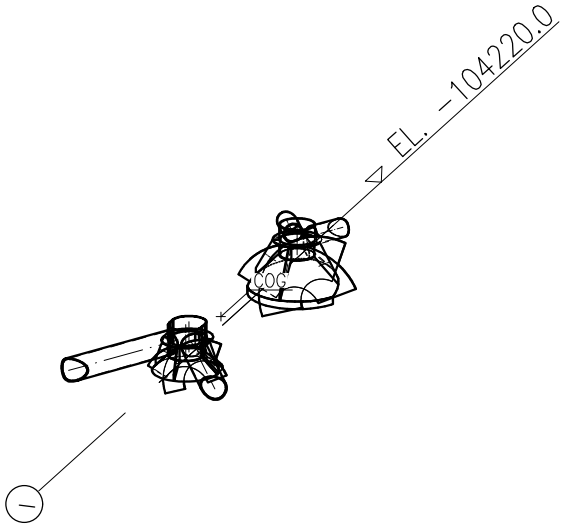
Framing Mudmat

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -7999.99
Y: 200.00
Z: -108145.00
==========
WEIGHT: 1258.197 KN/128256.6 Kg



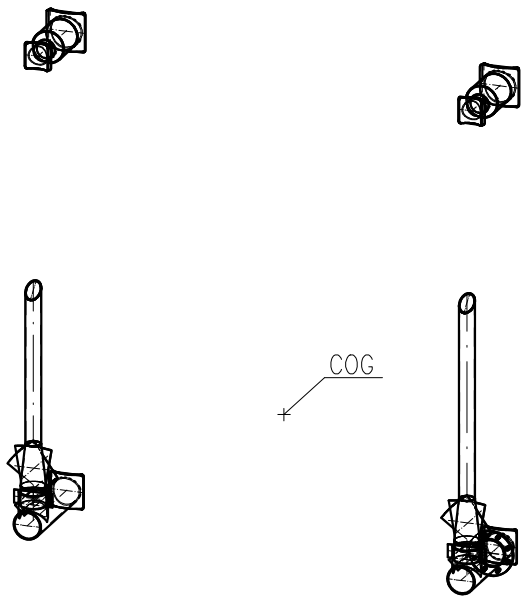
CONDUCTOR GUIDE SLEEVE

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -7727.52
Y: -15422.19
Z: -37533.38
==========
WEIGHT: 359.77 KN/36674.11 Kg



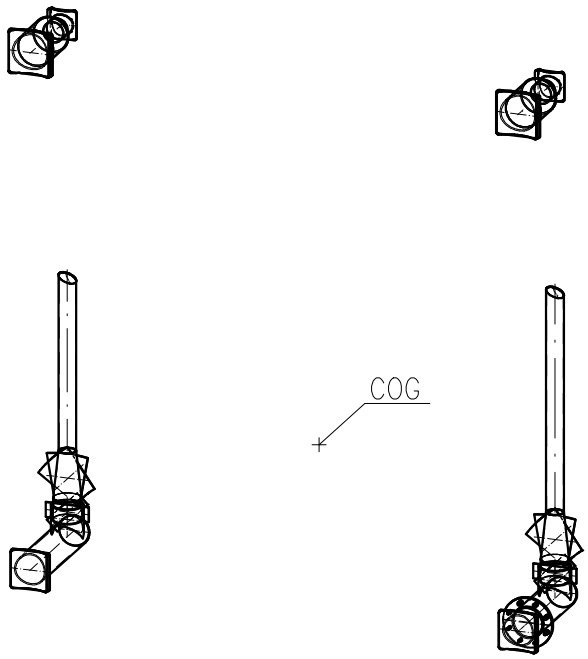
Docking Guide

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -8683.29
Y: -15422.37
Z: -104496.46
==========
WEIGHT: 87.04 KN/8872.48 Kg



Boatlanding Main – Stub Support

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -17888.05
Y: -15274.73
Z: -737.79
==========
WEIGHT: 50.24 KN/5120.94 Kg

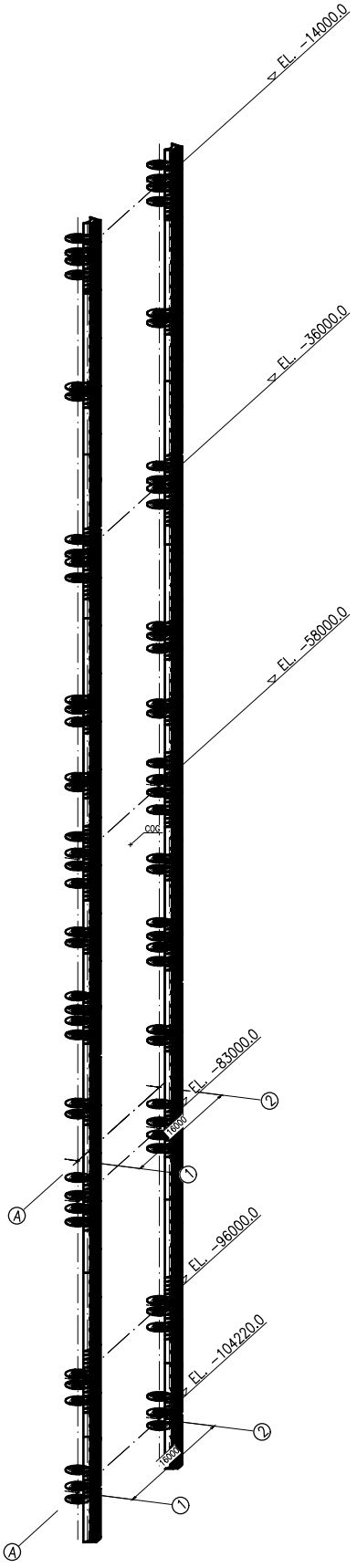


Boatlanding Auxiliary – Stub Support

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: 1888.05
Y: -15274.74
Z: -737.79
==========
WEIGHT: 50.24 KN/5120.94 Kg

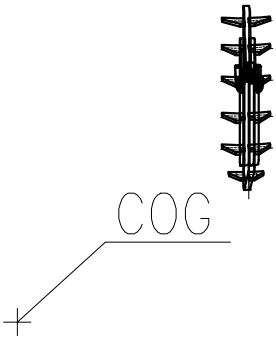
JACKET WEIGHT CONTROL REPORT

PRE-INSTALLED ITEMS



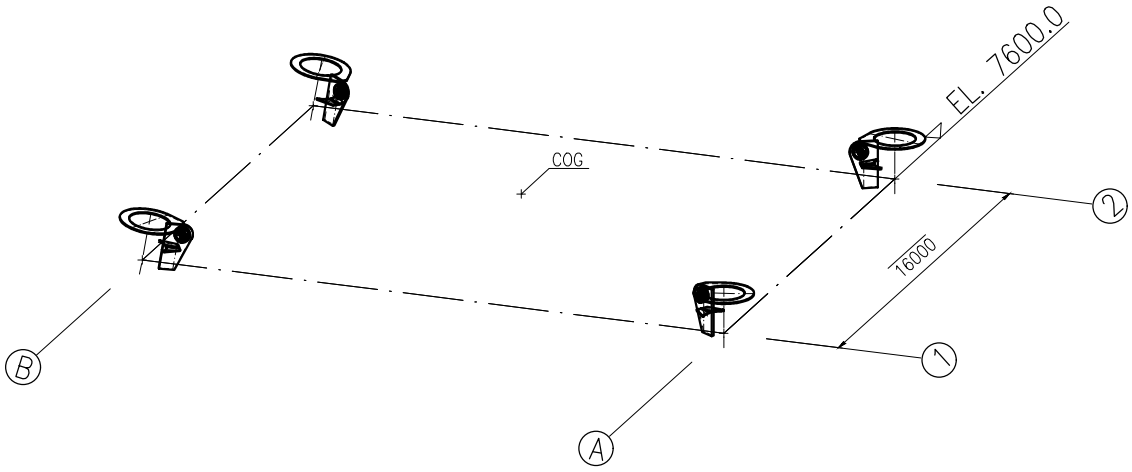
Launch Cradle

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -8000
Y: -20860.38
Z: -59517.01
==========
WEIGHT: 1970.6 KN/200876.79 Kg



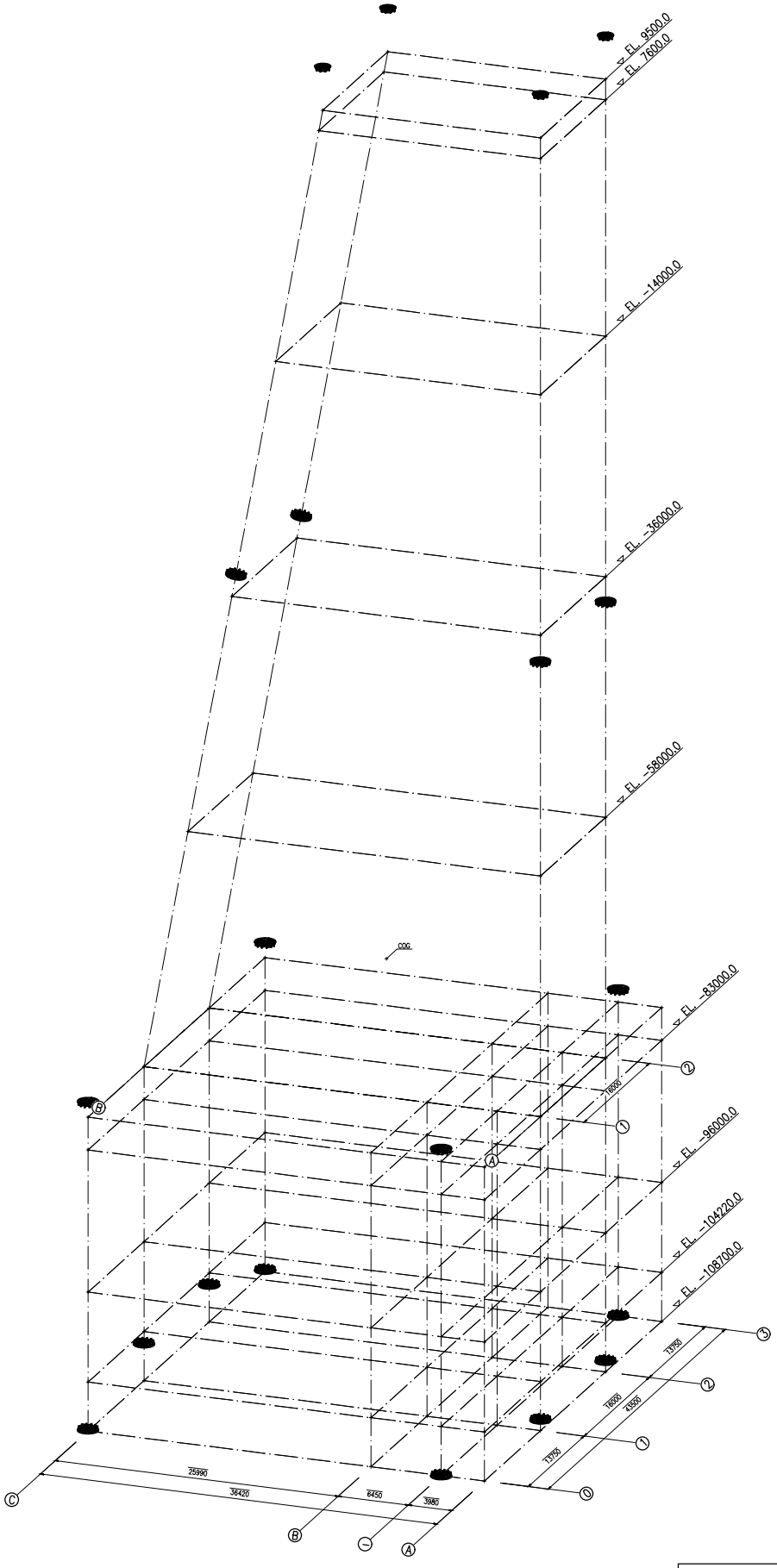
Pulling Lug

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -8000
Y: -20526.14
Z: -100969.91
==========
WEIGHT: 20.63 KN/2102.92 Kg



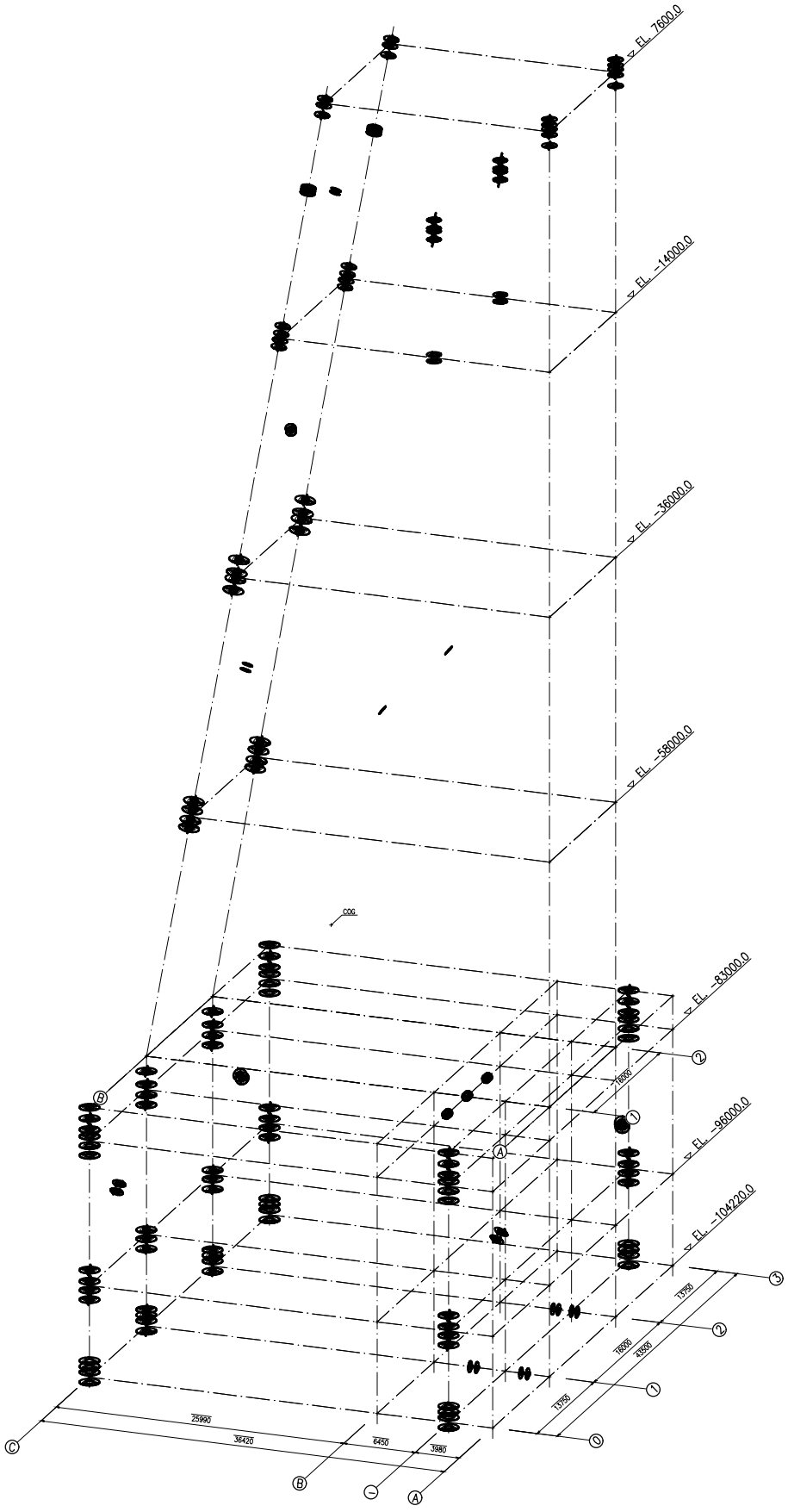
Upending Padeye

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -7993.14
Y: -9916.52
Z: 8518.16
==========
WEIGHT: 54.21 KN/5526.24 Kg



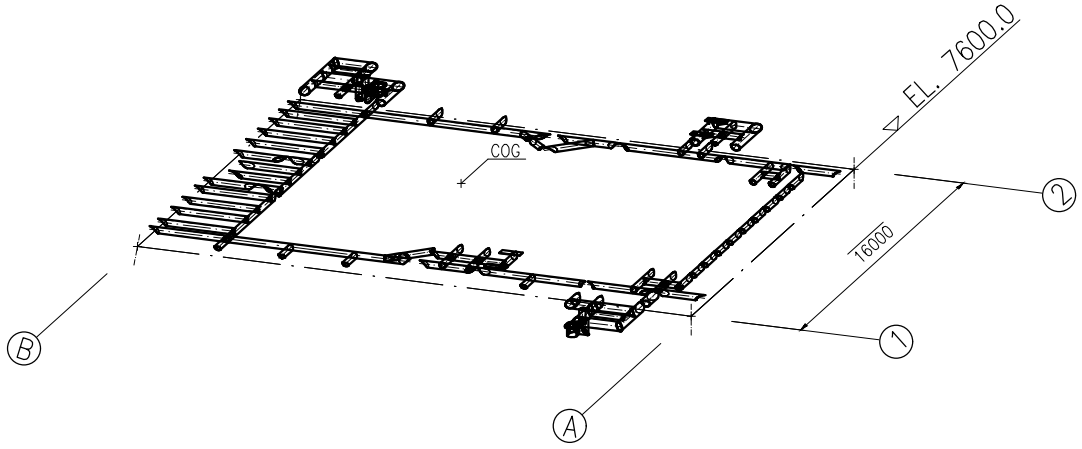
Watertight Diaphragm

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -8000
Y: -2854.09
Z: -70401.19
==========
WEIGHT: 224.08 KN/22841.53 Kg



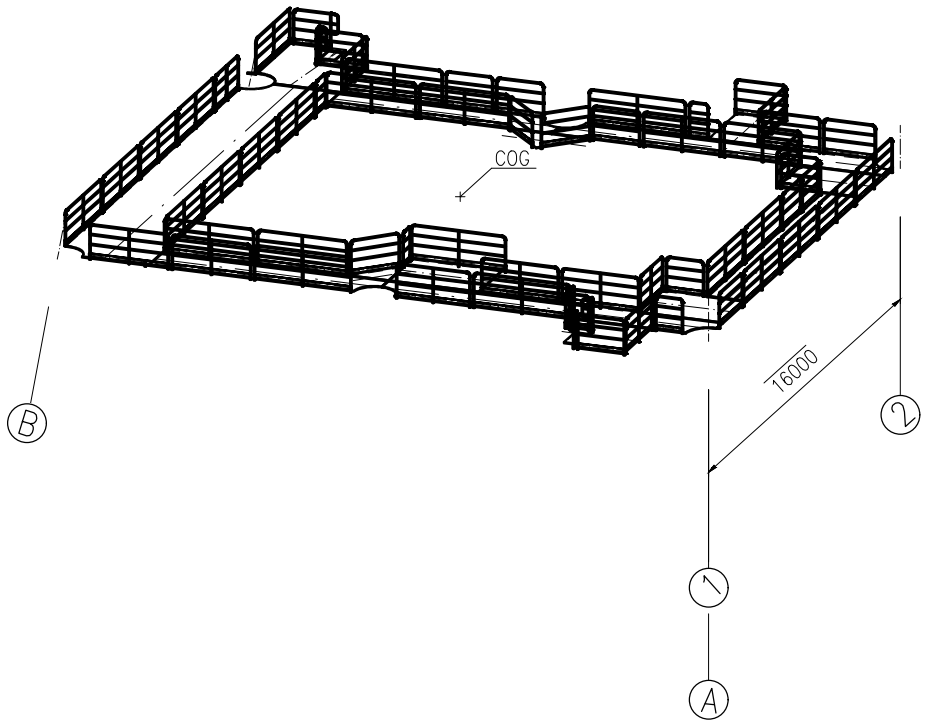
Internal Ring Plate

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -8000
Y: 2713.17
Z: -69173.14
==========
WEIGHT: 429.84 KN/43816.71 Kg



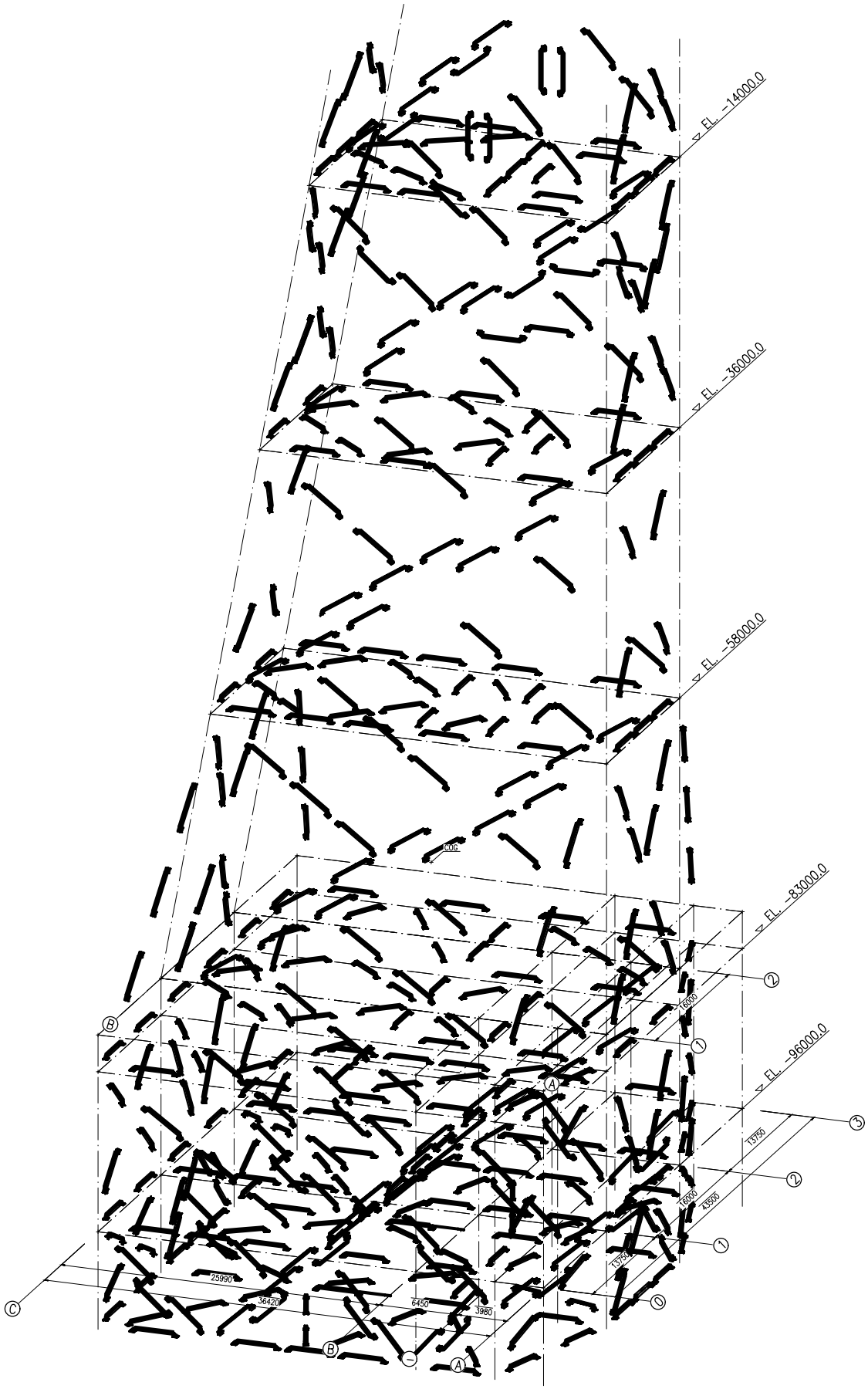
Seadeck Framing Plan

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -6564.98
Y: -8016.4
Z: 7784.52
==========
WEIGHT: 77.49 KN/7899.28 Kg



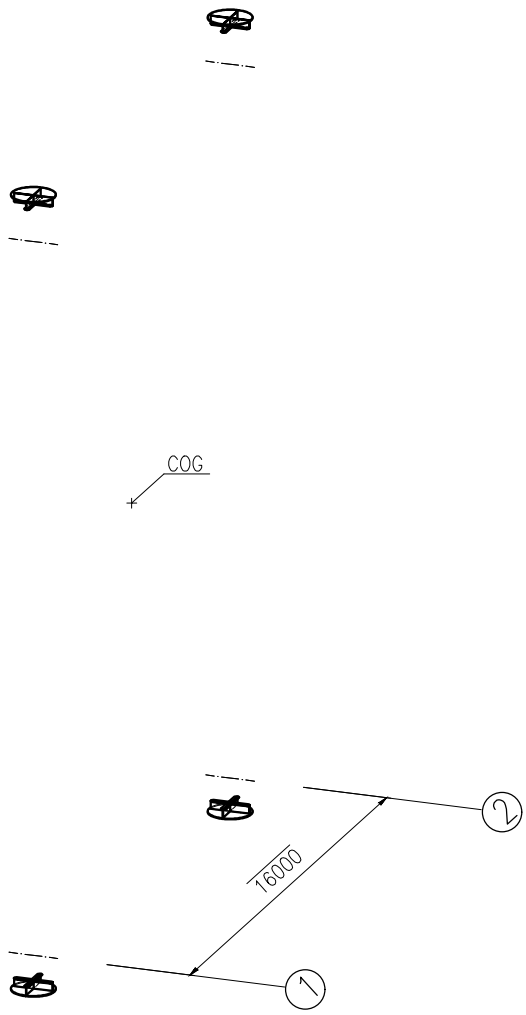
Seadeck Flooring & Grating

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -7669.83
Y: -9137.24
Z: 8113.58
==========
WEIGHT: 93.91 KN/9572.54 Kg



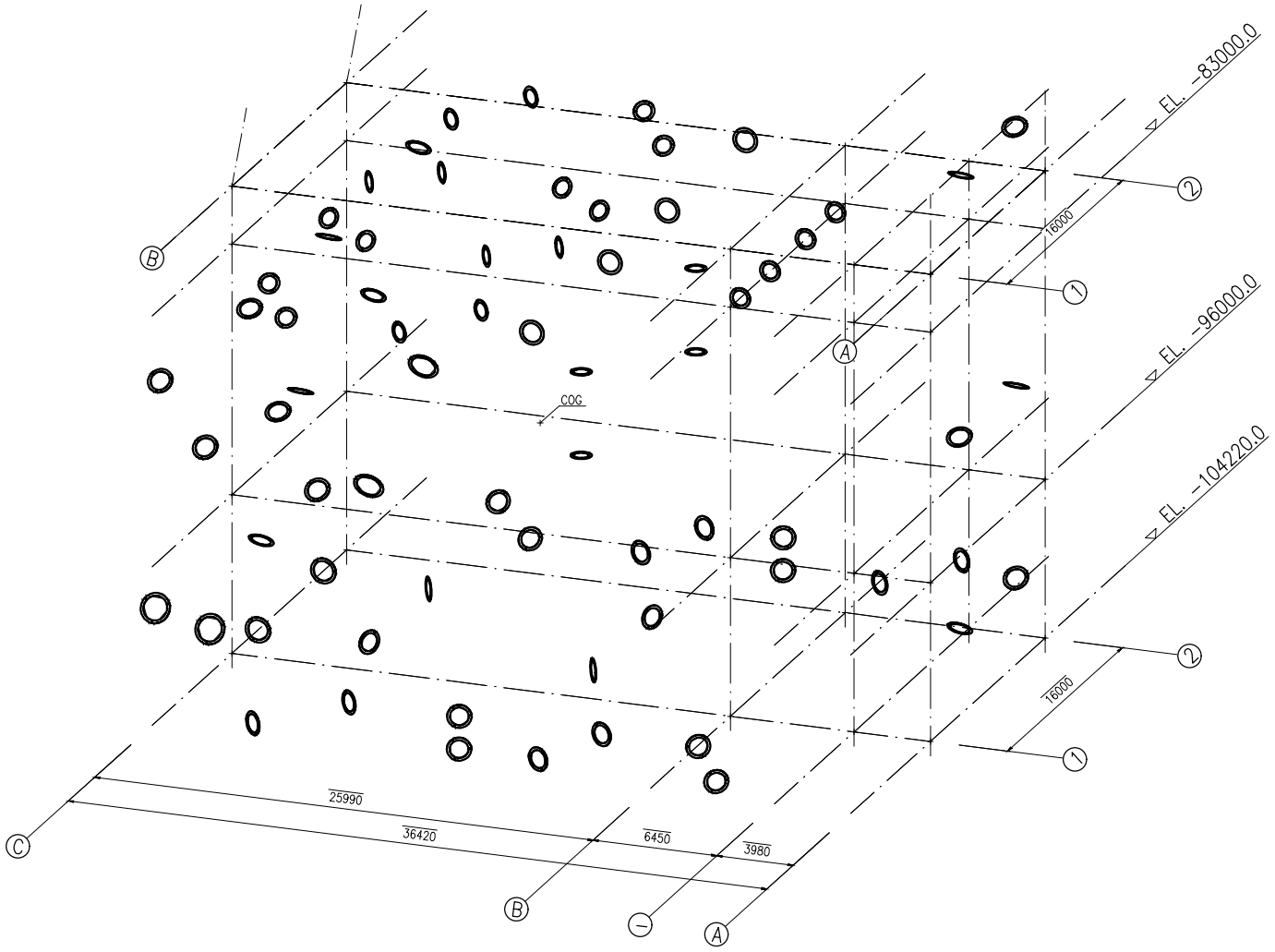
Cathodic Protection

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -8010.73
Y: -2685.79
Z: -70842.04
==========
WEIGHT: 2419.92 KN/246678.93 Kg



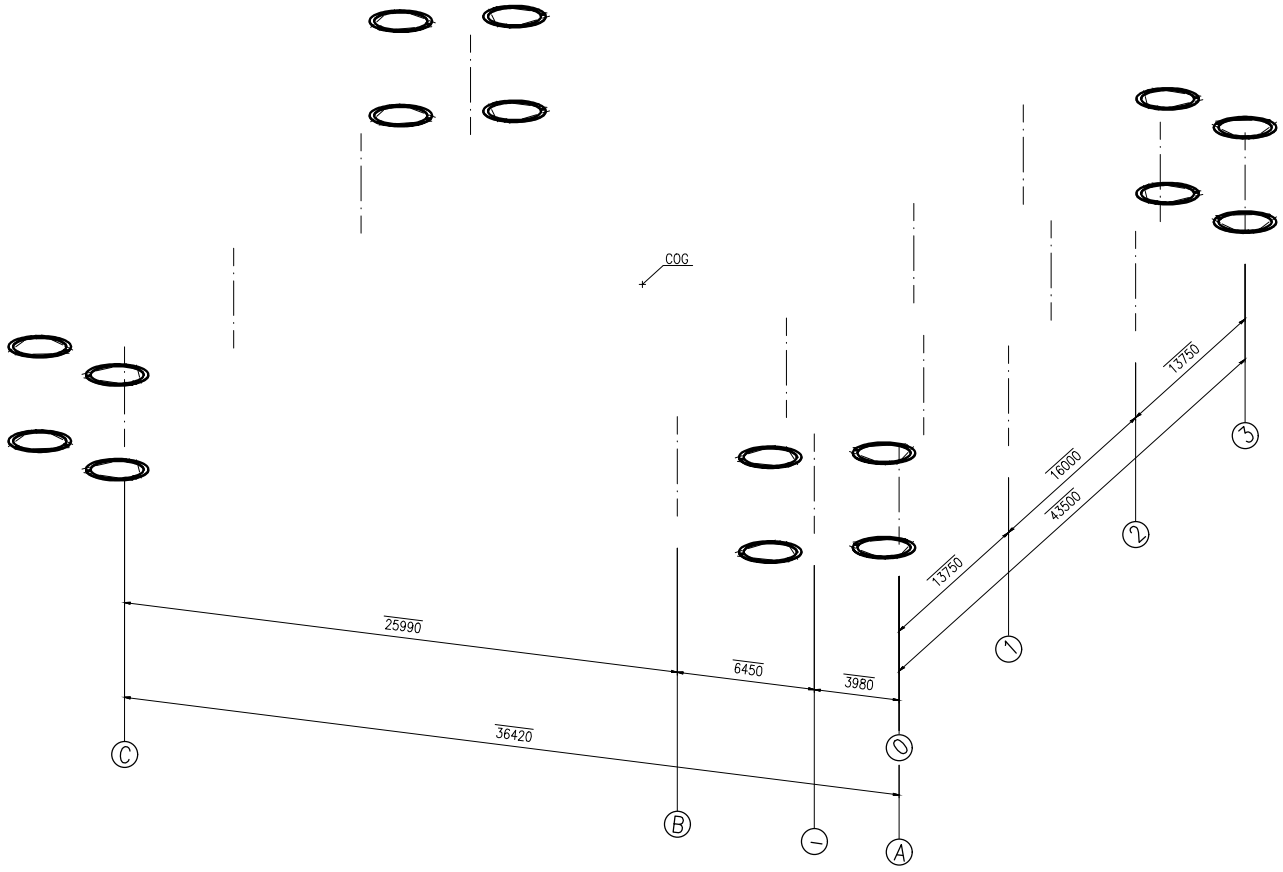
Cap Plate

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -8000
Y: -9570
Z: -3000
==========
WEIGHT: 13.9 KN/1417.12 Kg



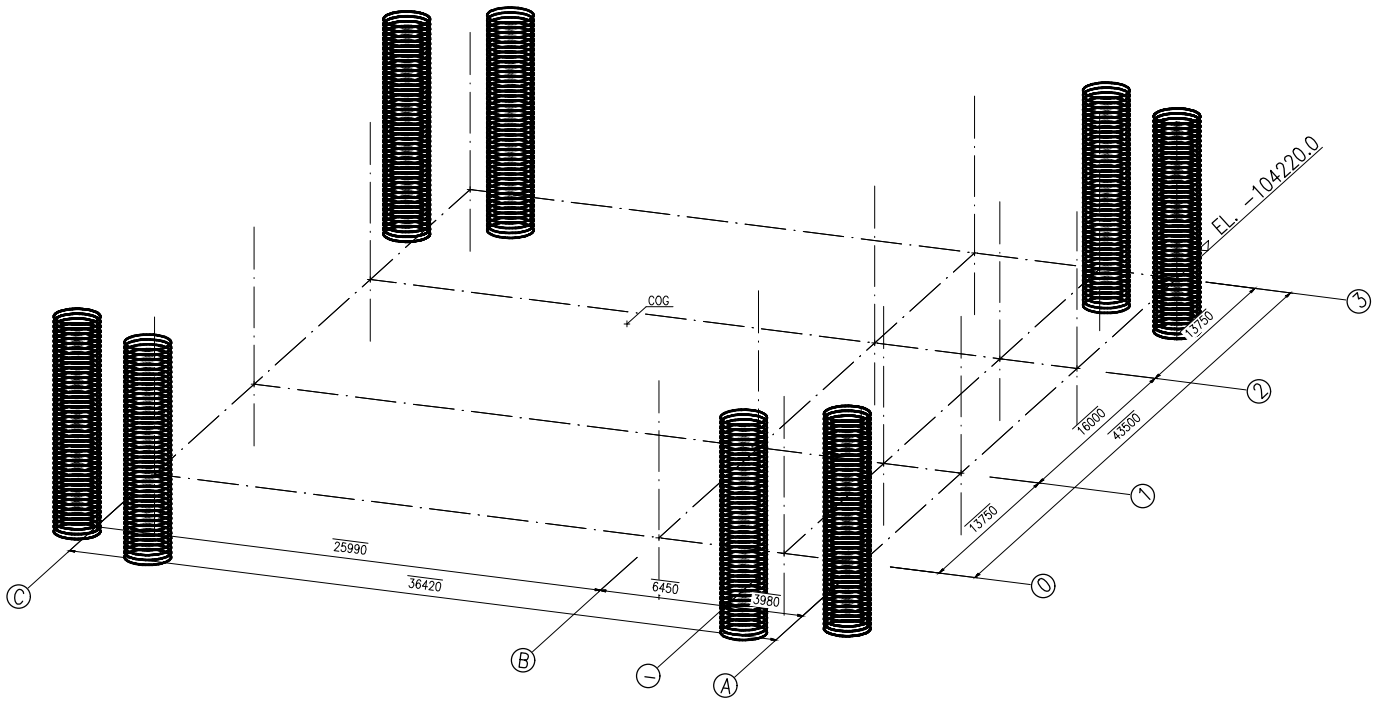
Ring Plate Collapse

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -7993.95
Y: 3337.63
Z: -93319.27
==========
WEIGHT: 29.47 KN/3004.37 Kg



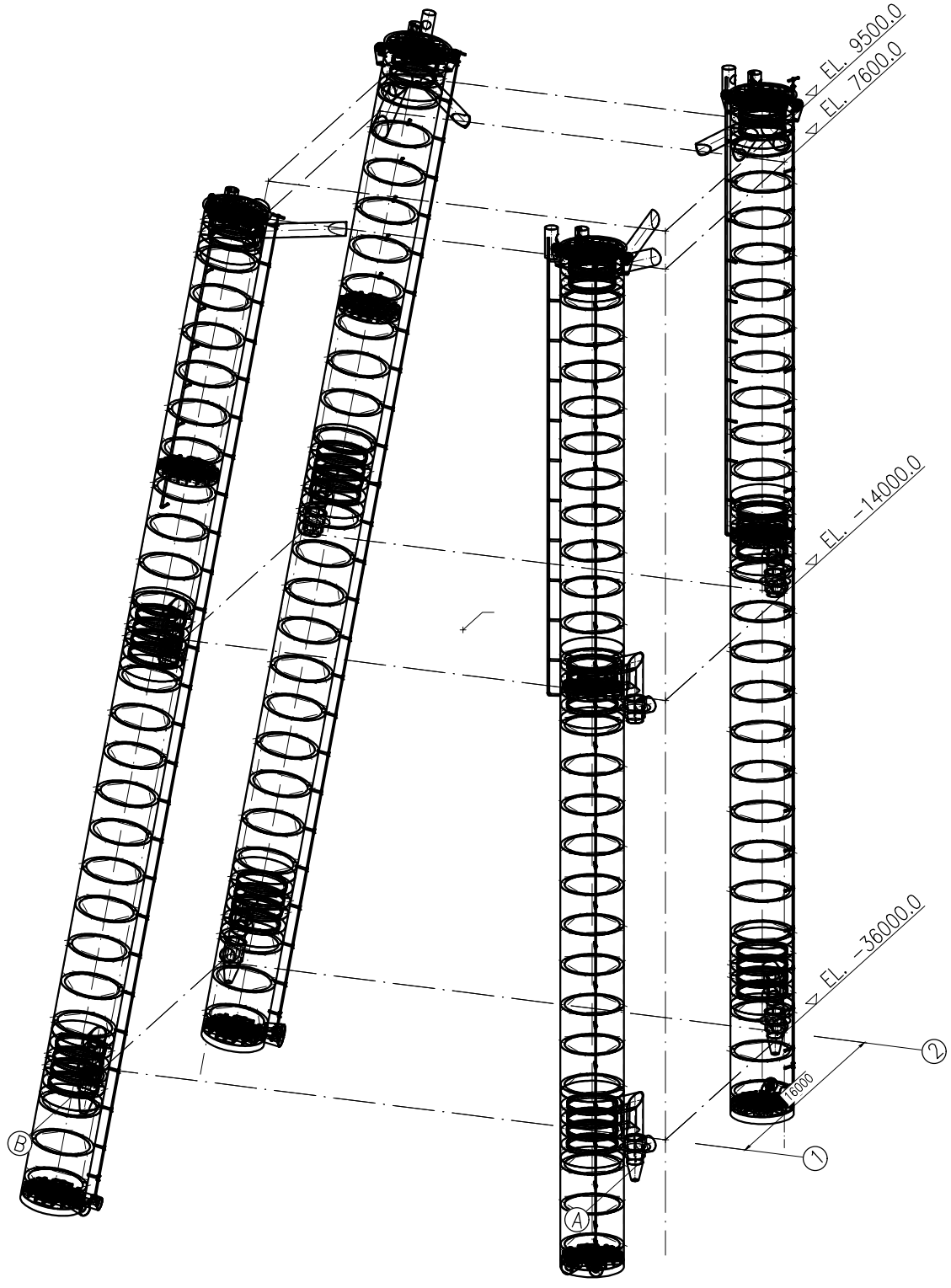
Skirt Pile Sleeve – Ring Plate

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -8000
Y: 200
Z: -101848.63
==========
WEIGHT: 50.37 KN/5134.51 Kg



Skirt Pile Sleeve – Shear key

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -8000
Y: 200
Z: -101780.03
==========
WEIGHT: 43.96 KN/4480.95 Kg

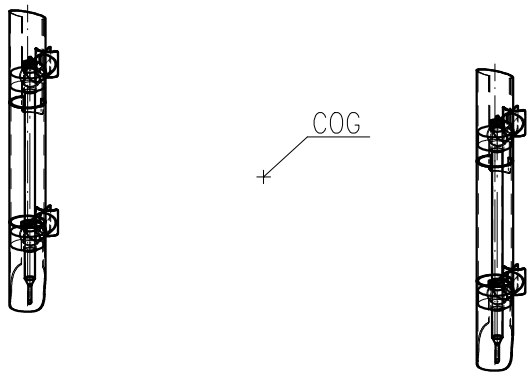


Buoyancy Tank

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->
Edges have no common surface
Global coordinates: [mm]
X: -7339.5
Y: -6542.88
Z: -14932.54
==========
WEIGHT: 3950.3 KN/402680.9 Kg

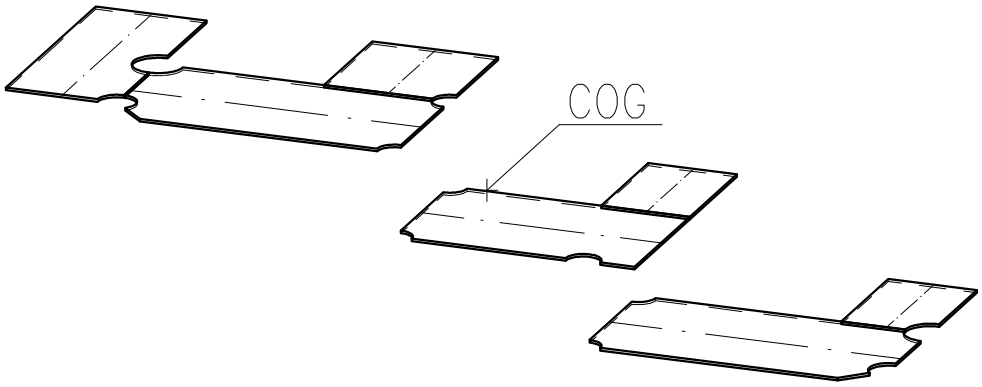
JACKET WEIGHT CONTROL REPORT

POST INSTALLED ITEMS



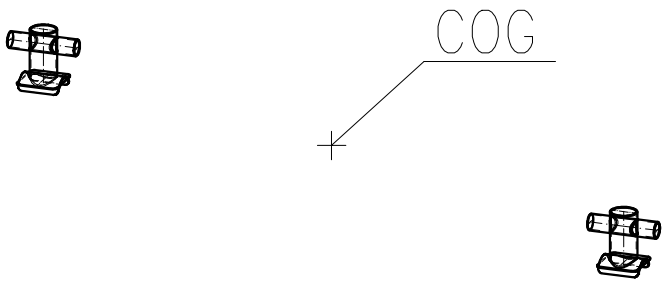
Boatlanding Main – Bumper

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -21360.49
Y: -14785
Z: 1012.9
==========
WEIGHT: 78.49 KN/8000.52 Kg
==========



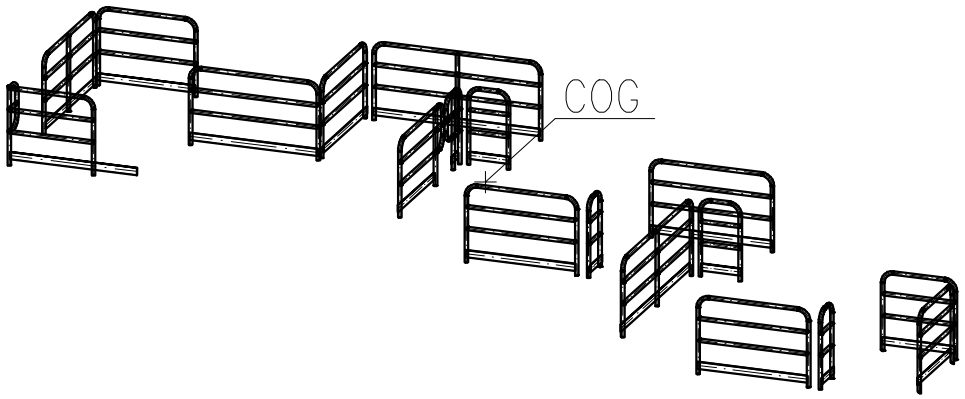
Boatlanding Main – Grating

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -19187.34
Y: -14174.34
Z: 2364.1
==========
WEIGHT: 16.19 KN/1650.5 Kg



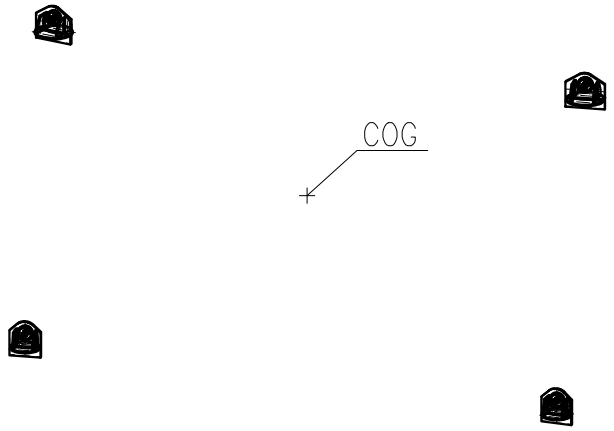
Boatlanding Main – Bollard

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -20750
Y: -13415.84
Z: 2951.83
==========
WEIGHT: 1.82 KN/185.48 Kg



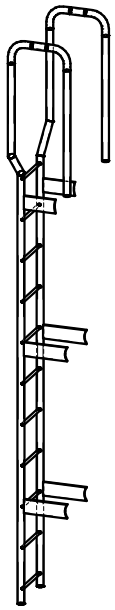
Boatlanding Main – Handrail

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -18282.69
Y: -13950.45
Z: 3122.15
==========
WEIGHT: 5.54 KN/564.23 Kg
==========



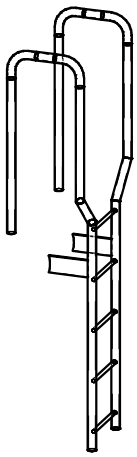
Boatlanding Main – Padeye

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -19396.84
Y: -14785
Z: 6968.58
==========
WEIGHT: 10.46 KN/1065.99 Kg



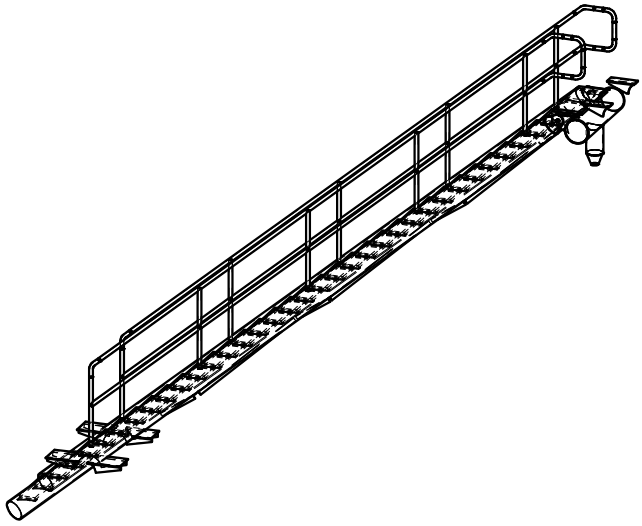
Boatlanding Main – Ladder No.1

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -19500
Y: -7750.92
Z: 2489.04
==========
WEIGHT: 0.81 KN/82.85 Kg



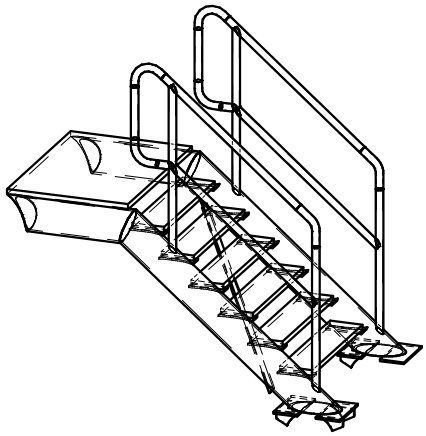
Boatlanding Main – Ladder No.2

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -19538.1
Y: -20289.27
Z: 1075.66
==========
WEIGHT: 0.48 KN/48.92 Kg



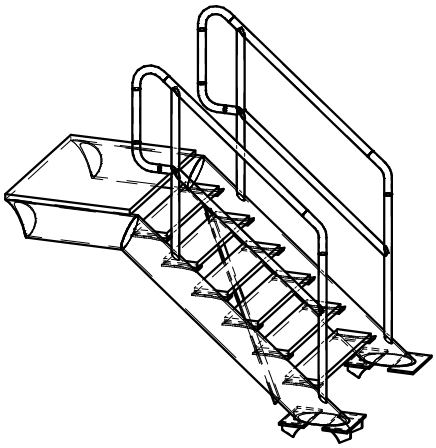
Boatlanding Main - Stairway No.1

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -17567.12
Y: -12624.53
Z: 4897.45
==========
WEIGHT: 24.99 KN/2547.13 Kg



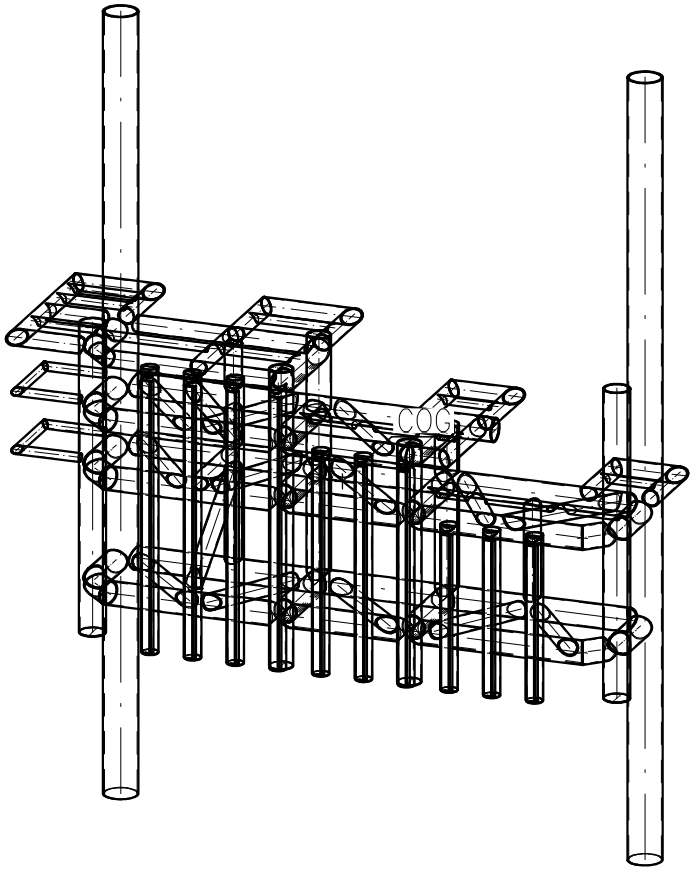
Boatlanding Main – Stairway No.2

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -17568.53
Y: -14694.92
Z: 2882.54
==========
WEIGHT: 4.82 KN/491.02 Kg



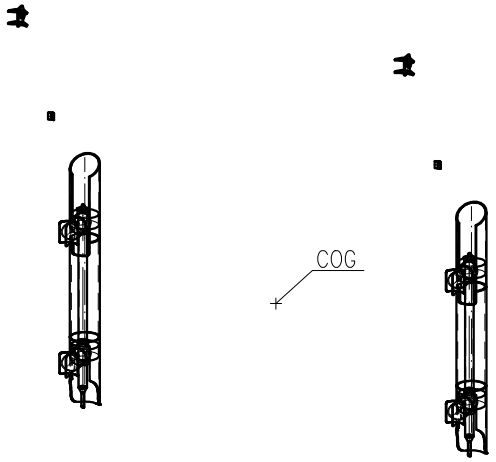
Boatlanding Main – Stairway No.3

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -17568.53
Y: -17939.92
Z: 1732.54
==========
WEIGHT: 4.82 KN/491.02 Kg



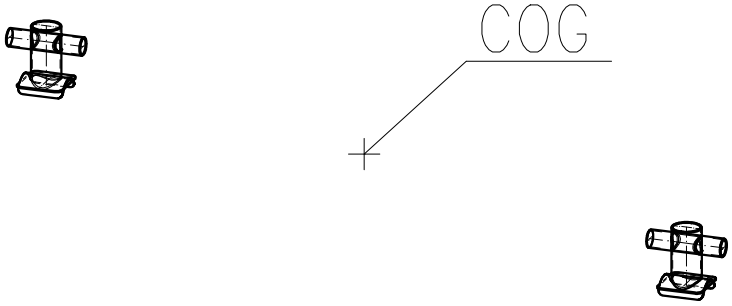
Boatlanding Main – Framing

NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -19533.4
Y: -14273.3
Z: 831.99
==========
WEIGHT: 467.96 KN/47702.03 Kg



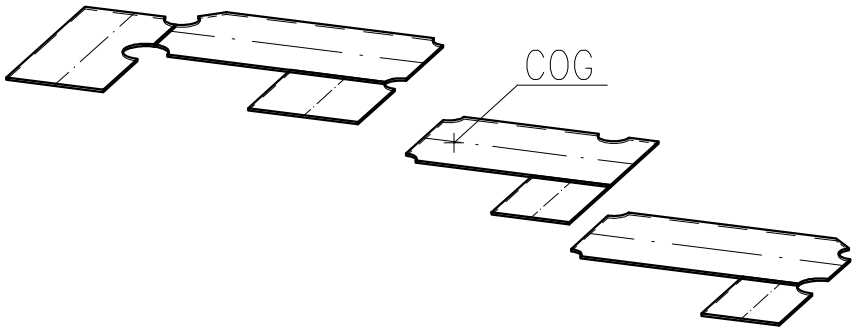
Boatlanding Auxiliary – Bumper

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: 5360.49
Y: -14785
Z: 1012.9
==========
WEIGHT: 78.49 KN/8000.52 Kg



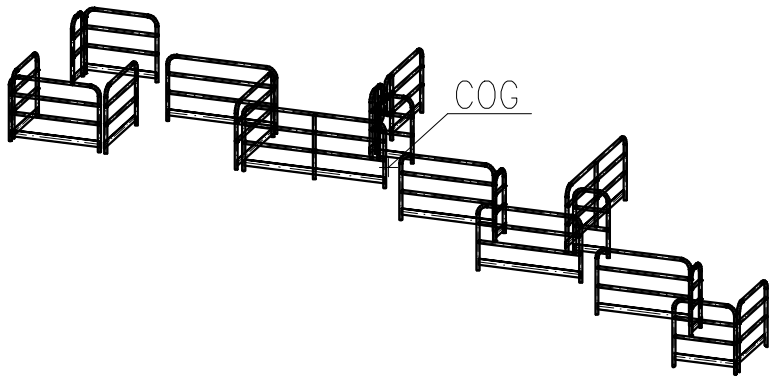
Boatlanding Auxiliary – Bollard

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: 4750
Y: -13415.85
Z: 951.83
==========
WEIGHT: 1.82 KN/185.48 Kg



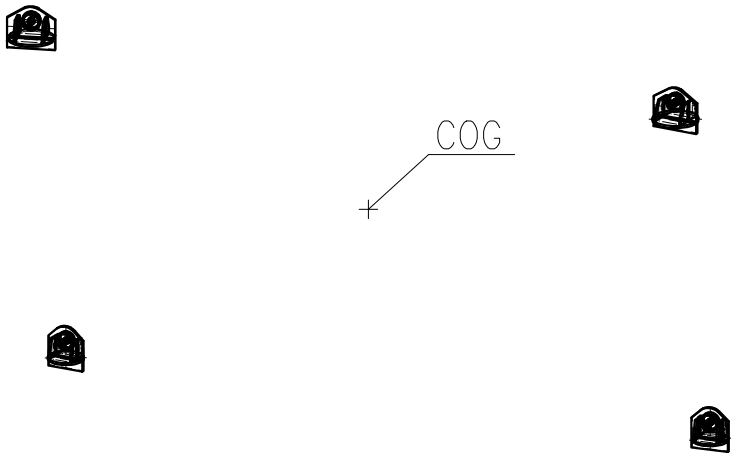
Boatlanding Auxiliary – Grating

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: 3187.27
Y: -14173.51
Z: 2364.23
==========
WEIGHT: 16.19 KN/1650.73 Kg



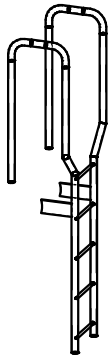
Boatlanding Auxiliary – handrail

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: 2250.19
Y: -13809.26
Z: 3148.99
==========
WEIGHT: 5.75 KN/586.16 Kg



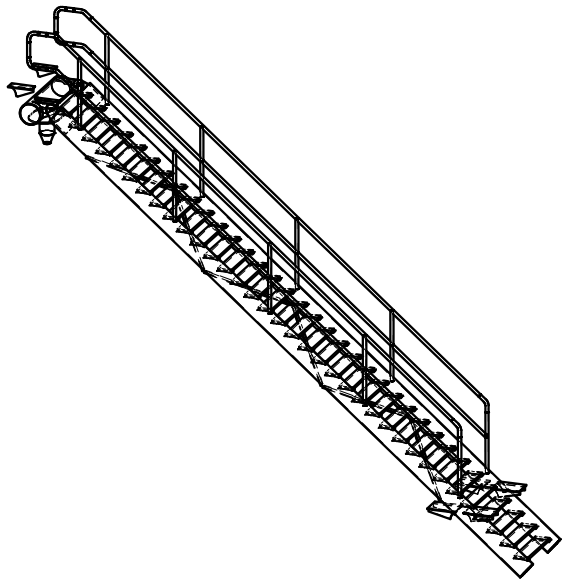
Boatlanding Auxiliary – Padeye

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: 3396.84
Y: -14785
Z: 6968.58
==========
WEIGHT: 10.46 KN/1065.99 Kg



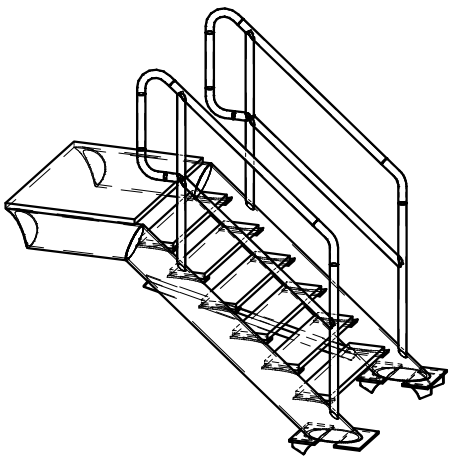
Boatlanding Auxiliary – Ladder

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: 3538.1
Y: -20289.26
Z: 1075.66
==========
WEIGHT: 0.48 KN/48.92 Kg



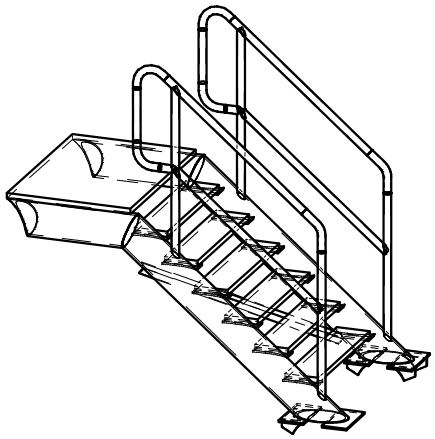
Boatlanding Auxiliary - Stairway No.1

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: 3003.29
Y: -4971.3
Z: 4927.61
==========
WEIGHT: 25.32 KN/2581.31 Kg



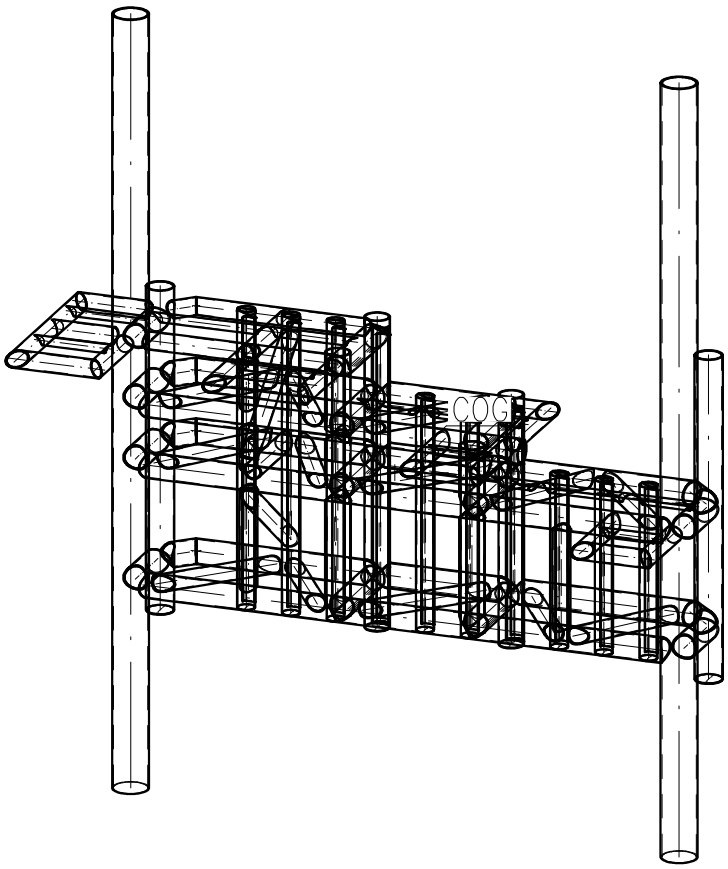
Boatlanding Auxiliary – Stairway No.2

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: 1568.53
Y: -14694.91
Z: 2882.54
==========
WEIGHT: 4.82 KN/491.02 Kg



Boatlanding Auxiliary – Stairway No. 3

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: 1568.53
Y: -17939.91
Z: 1732.54
==========
WEIGHT: 4.82 KN/491.02 Kg

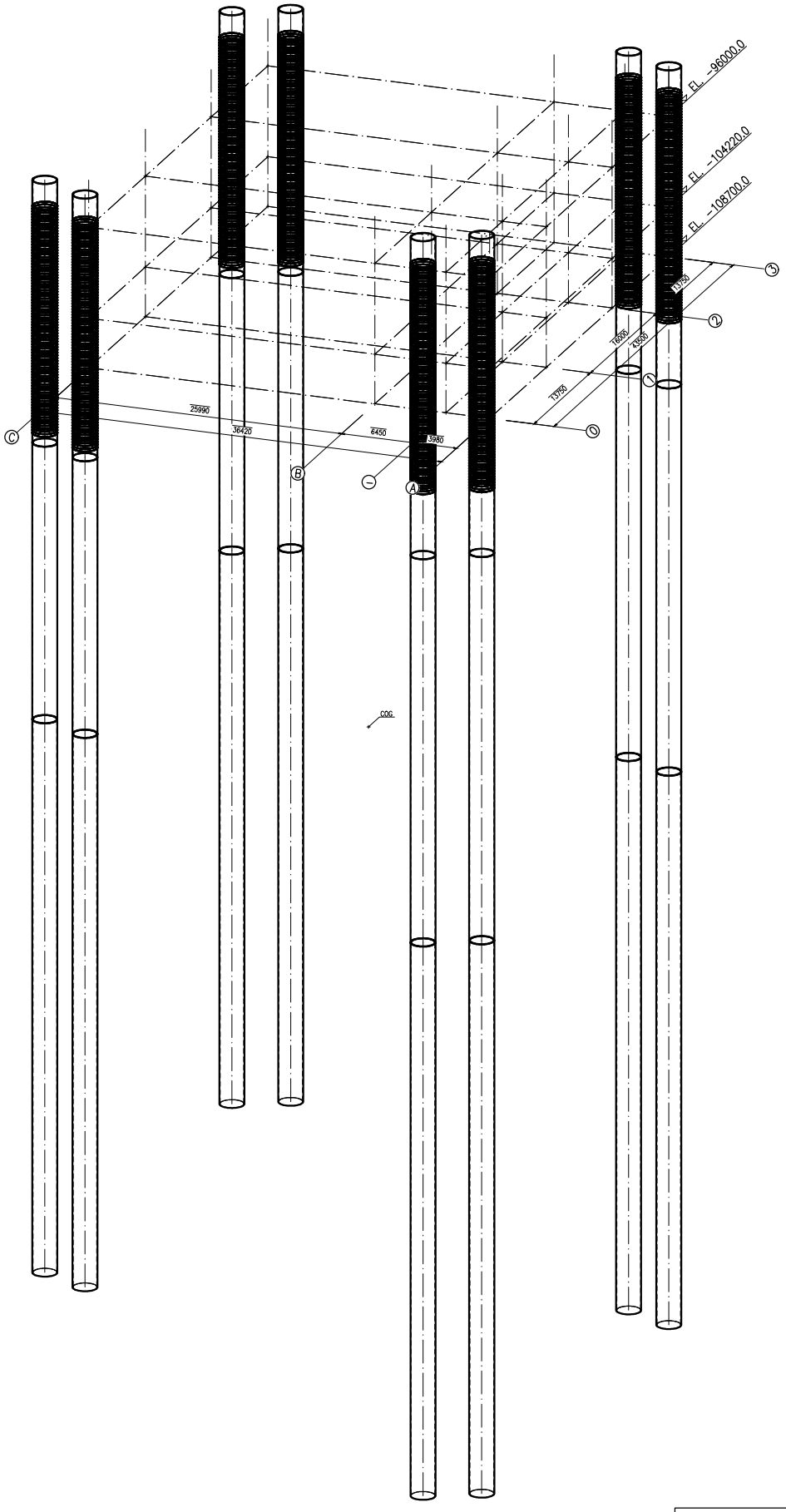


Boatlanding Auxiliary – Framing

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: 3545.58
Y: -14296.89
Z: 918.37
==========
WEIGHT: 458.39 KN/46727.29 Kg

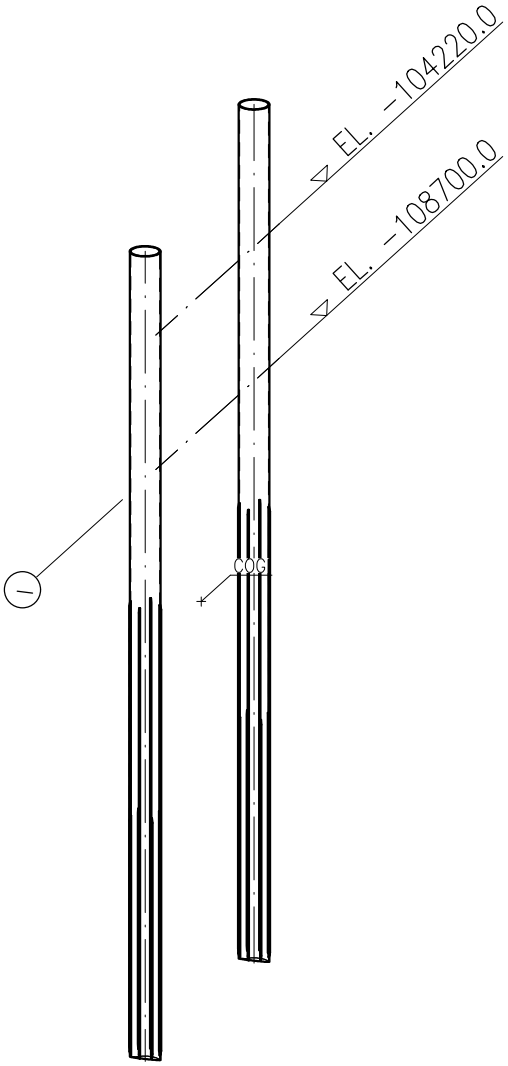
JACKET WEIGHT CONTROL REPORT

PILES



Pile Make-Up

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -8000
Y: -480.89
Z: -145122.92
==========
WEIGHT: 23765.97 KN/2422627 Kg



Docking Pile

*** Info ***
NAME OF THE CENTRE OF GRAVITY-->COG
Edges have no common surface
Global coordinates: [mm]
X: -6639.57
Y: -15422.37
Z: -115071.38
==========
WEIGHT: 393.29 KN/40090.51 Kg