



# JOINT PROJECTS TEAM

## **STRUCTURE A & E DEVELOPMENT PROJECT NC41 BLOCK LIBYAN OFFSHORE**

Invitation for Pre-Qualification

## JACKUP RIG SERVICE FOR “A” STRUCTURE



**SUMMARY**

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## 1. **SCOPE OF DOCUMENT**

Pre-Qualification tender is open for local and international vendors specializing in Drilling Jack-Up rig Service and being strongly supported by professional crew are invited to register their interest to submit their document by providing the requested information as per following paragraphs.

This document defines only:

- Information for the Planned Activity
- Main Technical Requirements of the requested Drilling Units
- Minimum Requirements of the Drilling Rig Crew.

## 2. **INFORMATION OF THE ACTIVITY**

Mellitah Oil & Gas plans to drill 8 (eight) offshore development wells (subsea wet & dry tree wells) in structure A - block NC41,

“A” Structure is about 75 km from the Libyan coast. The target depth of the deepest well is expected to be around 5300 m MD (approx. 2800 m. TVD), in a water depth of 95 m (to be confirmed). It has been considered to pre-drill the wells, then re-entry the same to be tied-back and completed with a work-over light rig working from the platform itself.

Mellitah Oil & Gas intends to pre-qualify drilling contractors which can provide offshore **Jack-Up Rig service**.

The spud time of the first well is foreseen on Q4 2023.

Company Operation Bases will be located in Malta and/or Tripoli Province.

The qualified drilling contractor, shall be capable to prove continuous service provision for at least one (1) year.

## 3. **MAIN TECHNICAL REQUIREMENTS**

### 3.1 REFERENCES

#### **National Laws, Rule, Regulation & Standard**

All the laws, rules and regulations in force in the area of operation and related to drilling activity shall be applied.

All the international rules and regulations concerning requirements for drilling personnel, drilling rig and relevant equipment, as hoisting equipment, pressure vessels, electric equipment in general and electrical equipment installed in areas classified “hazardous” in particular shall be applied.

### 3.2 RIG

#### 3.2.1 JACK-UP DRILLING UNIT

The requested **Jack Up Drilling Unit** shall have the capability to operate in a **water depth of 95m** and be fitted with a Pollution Prevention system with adequate treatment facilities compliant to requirements coming from Environmental Impact Assessment process to reach the target concerning water quality related to local legislation, International Conventions for offshore discharge.

Geological and Geophysical studies, including soil surveys, are not available at the date of issue of this document; its results will be ready and therefore issued before rig contract award.

The drilling Unit shall have the Class Certificates minimum compliant with the IMO MODU CODE 1989 issued and valid periodical surveys.

The Derrick Skidding System has to be capable to cover Pre-Drilling Template footprint (refer to *ANNEX – Structure A Pre-drilling Template Preliminary Design*) and be equipped with Drilling Conductor Tensioning System (able to hang Conductor Pipes and Casings while drilling).



The rig shall be provided of:

- Minimum of three mud pumps, with min rated input power of 1600HP, designed and manufactured as per API 7K.
- Rotary table max opening has to be 49½”.
- 10,000 psi Surface BOP Stack (preferable 18¾” nominal size) in compliance with the API Specification 16A, and API standard 53 manufactured as per API 16-A and shall be provided with:
  - *at least three (3) ram type preventer (one blind/shear ram and two pipe rams)*
  - *one 5,000 psi annular type preventer.*

The accommodation module should have at least 40 beds for Company’s people and third party Company’s service people and shall comply with IMO MODU Code requirements.

### **3.3 PERSONNEL**

Personnel of Drilling Contractor involved in the operation shall be fully trained and skilled to carry out work in a safe and proper manner and hold the necessary authorizations to operate in the requested Country, in accordance with local laws and regulations.

All training courses (BOSIET, H2S, Fire Fighting, First Aid, and IWCF) shall be performed by a specialized training center (OPITO, EPT, etc.).



**4. MAIN RIG FEATURES**

Drilling Contractor is kindly requested to fill in and return the below table assuming info and requirements defined in the above chapters.

**4.1 GENERAL INFO**

Vendor name	
Vendor previous experience in Country of operation	
Vendor previous experience in the area of operation	
Proposed Unit previous experience in the area of operation	

**4.2 RIG DATA**

Unit Name	
Unit type	
Unit design	
Year of unit construction	
Upgrading info	
Rig class certification (IMO MODU 1989)	
Environmental protection rig feature	
Actual Unit Location	
Actual Unit Status (drilling, Idle.)	
Availability for this project (specify period)	

**4.3 OPERATING PARAMETERS**

Outfitted max water depth capability	m	
Available Leg Length below the Hull	m	
Variable deck load, drilling and transit mode	t	
Crane types and min load	t	

**4.4 DRILLING SYSTEMS**

Op. mode (e.g: single, activity, off-line capability, dual activity)	:	
Max static hook load that rig can handle in csg running mode	t.	
Max static hook load that rig can handle in drilling mode	t	

**4.5 MUD SYSTEM**

<b>H.P. Mud Pumps</b>	
Total installed	no.
Make-type	:
Max rated input power	:
Fluid end working pressure	psi

<b>Mud System</b>	
Total mud storage	mc

<b>Solid Control System</b>	
Description of waste cutting and fluids treatment equipment	

**4.6 CEMENTING UNIT**

Make-type	
Max rated input power	
Working pressure	psi



**4.8 JACKING AND SKIDDING SYSTEM**

Make and Type	:	(cantilever load beam chart is required)
Maximum cantilever longitudinal skidding capability:	m	-----
Maximum derrick transversal skidding capability:	m	-----

**4.9 WELL CONTROL EQUIPMENT**

<b>Main BOP Stack</b>		
Stack configuration	:	(sketch to be provided)
Built as per API specification	:	-----
Compliant to API STD 53	yes/ no	-----
<b>Bag Preventer</b>		
Make and type	:	-----
Size and working Pressure	in-psi	-----
<b>Ram Preventer</b>		
Quantity	no.	-----
Make and type	:	-----
Size and working Pressure	in-psi	-----
Is one equipped with blind-shear rams?		-----

**4.10 TUBULARS**

Main data of the Drill pipes (available)	:	-----
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**4.11 HELICOPTER DECK**

Helideck	:	-----
Compliant with CAP 437	yes/ no	-----
Refueling system	yes/ no	-----

**4.12 ACCOMODATION MODULE**

<b>LIVING QUARTERS</b>		
Compliant to rules /standard	:	-----
Total persons Capacity	No.	-----
Beds Reserved to Company	No.	-----

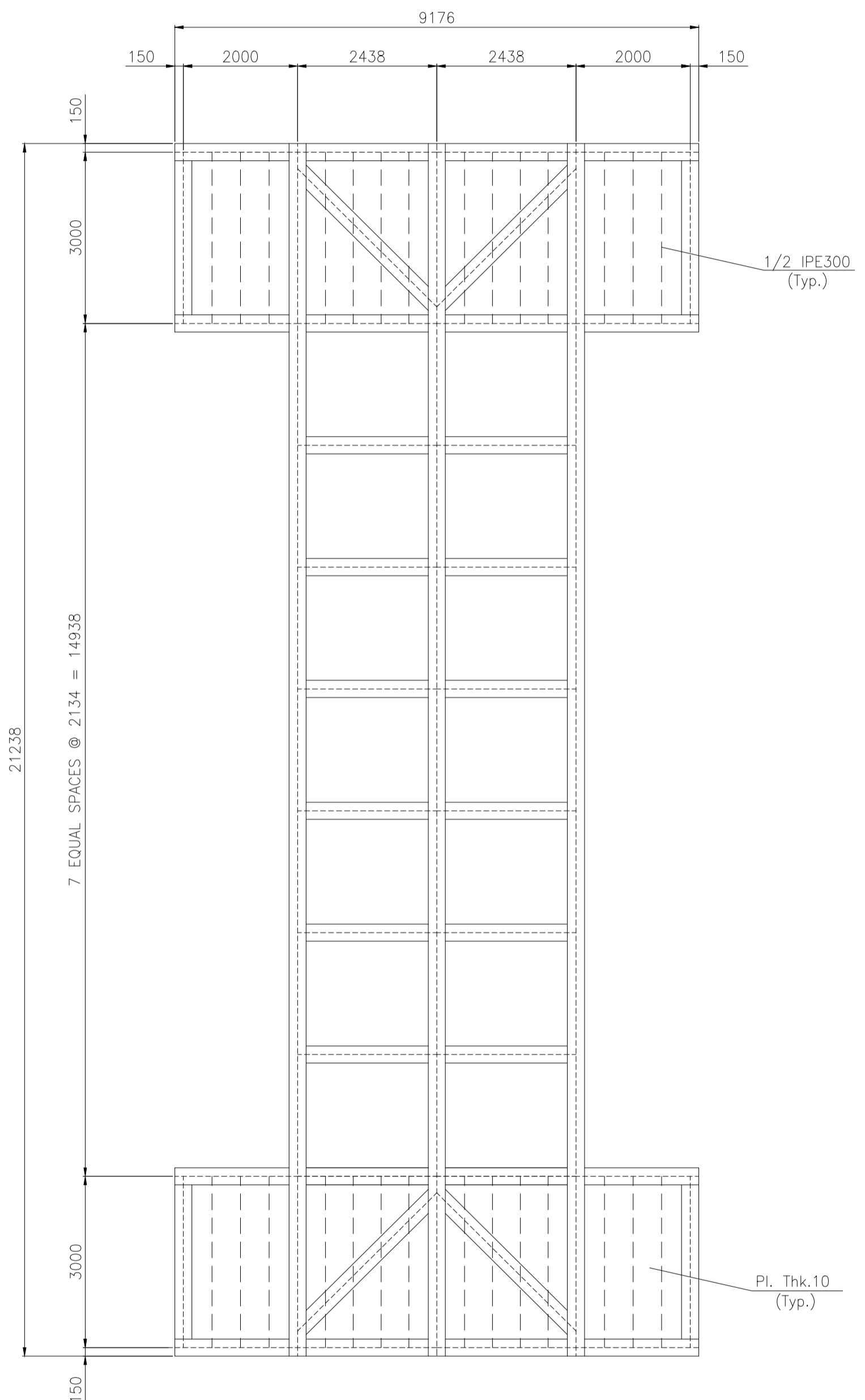
**4.13 H2S SERVICE**

Description of Main Safety Equipment	:	-----
Safety Breathing Equipment (CASCADE System)	yes/no	-----

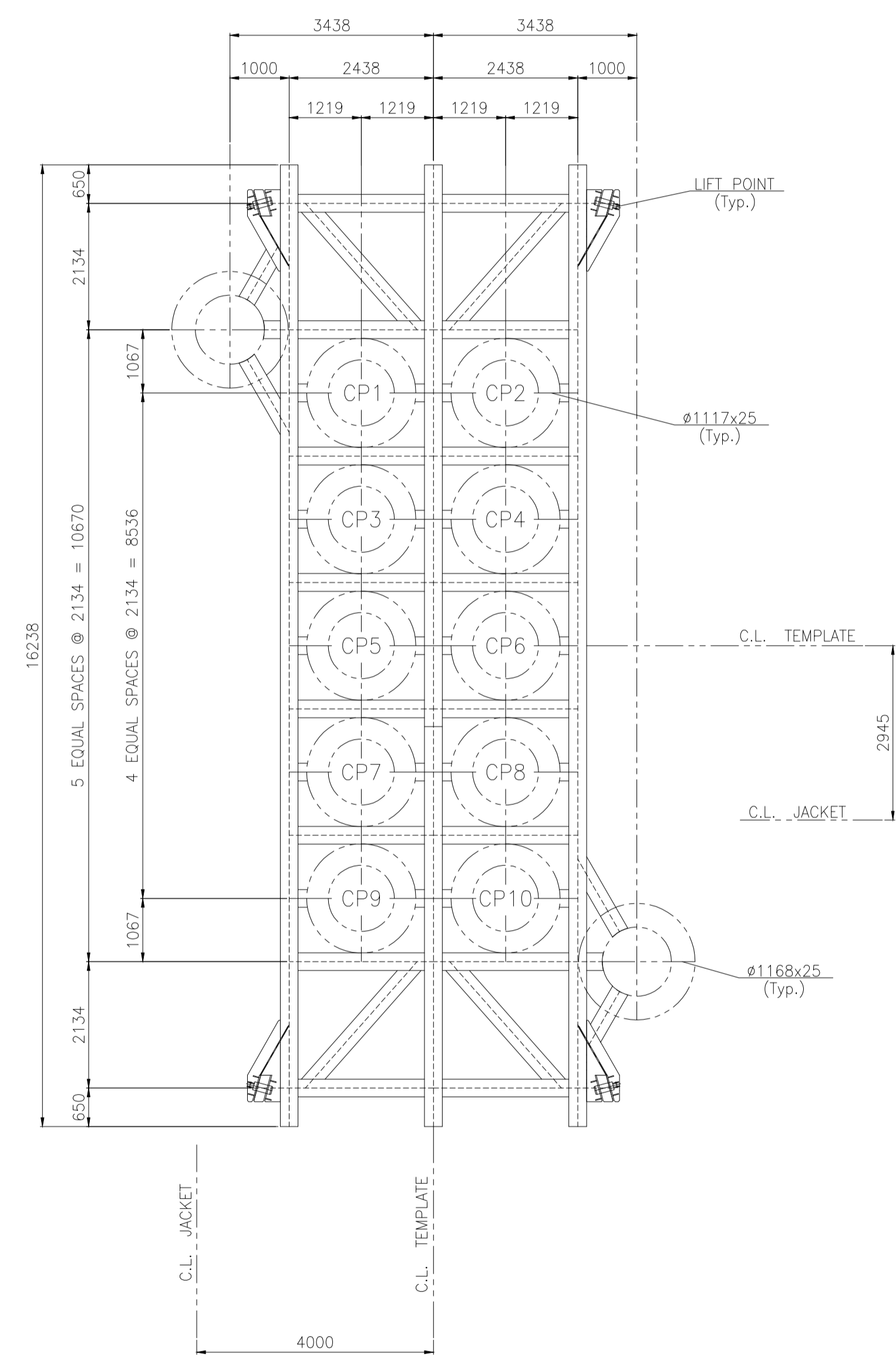


**ANNEX – STRUCTURE A PRE-DRILLING TEMPLATE PRELIMINARY DESIGN**

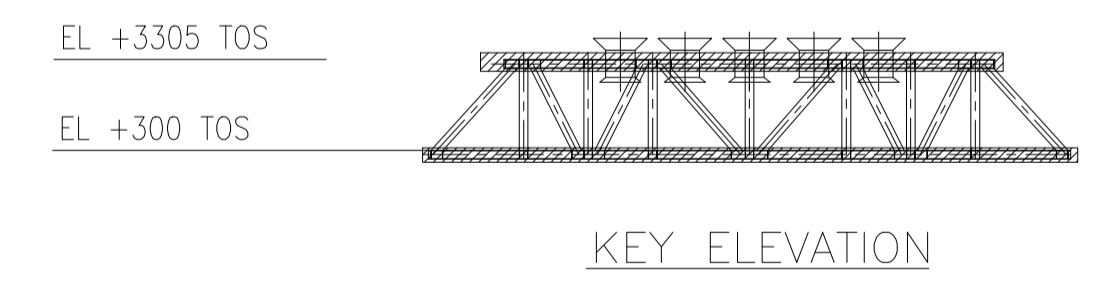
NUMBERS	TITLE
EN-100-D-S-1059-04-P2	WHPA ELEVATIONS





FRAMING PLAN AT EL. +300 T.O.S.  
(ALL BEAMS TO BE HEA300)

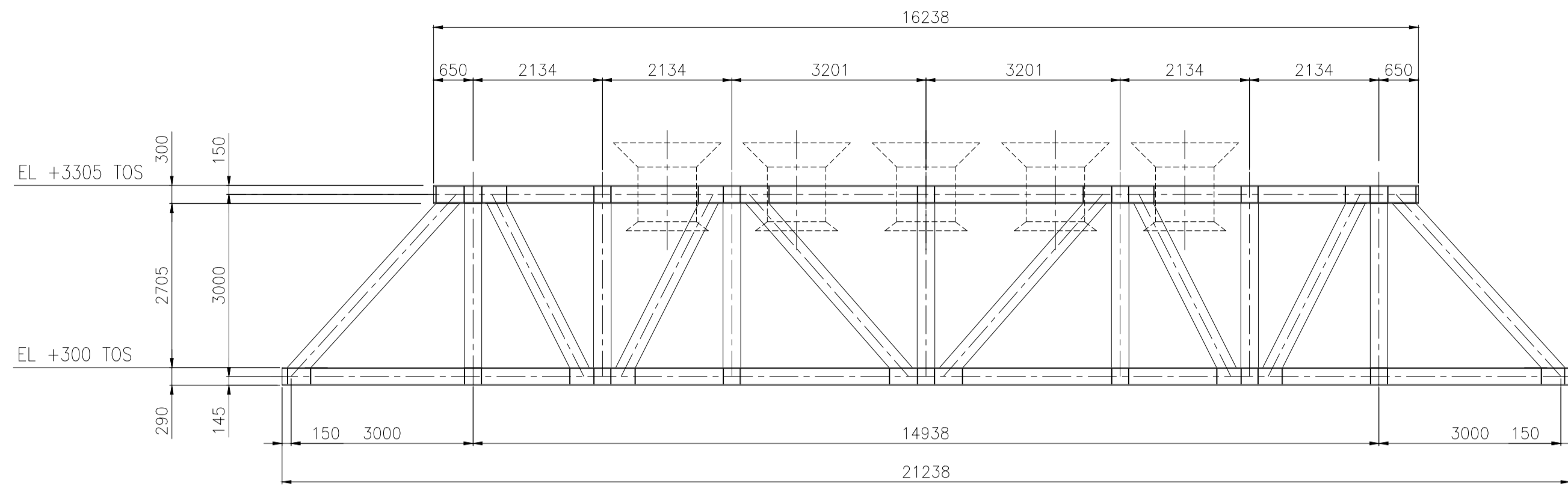


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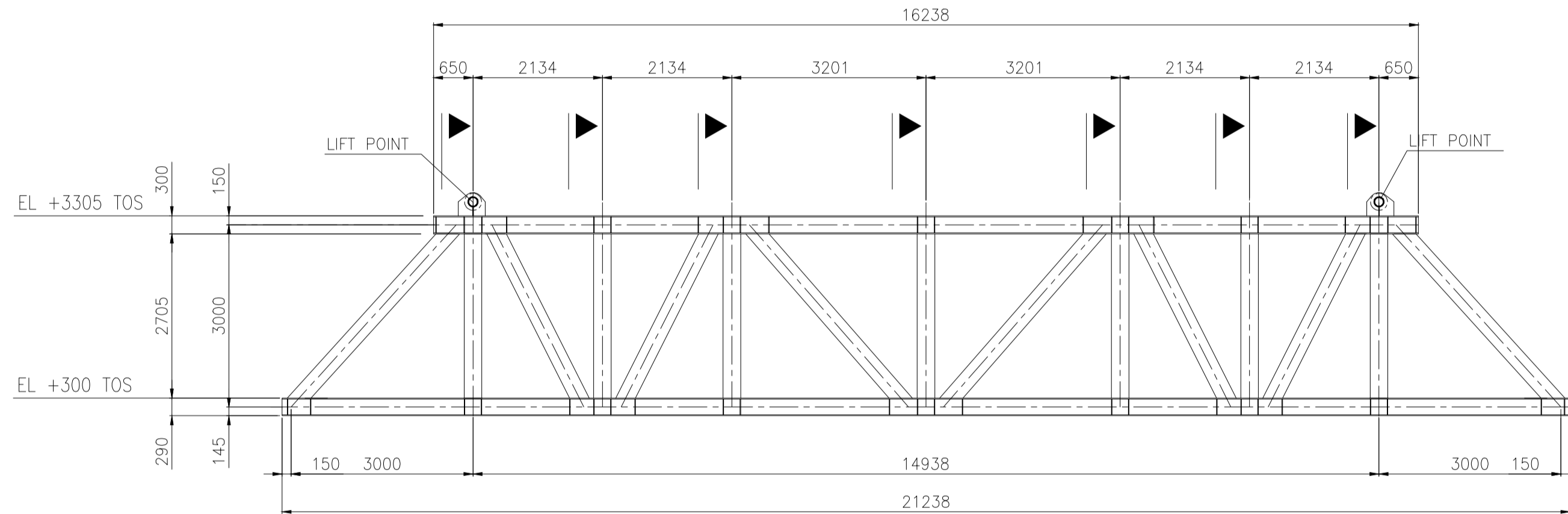


01	EV-FS	09/11/2018	ISSUE FOR FEED TENDER	Enr Project TEAM	Enr A. Mikgnri	Enr/NA M. Sakh	MOG
00	EV-FS	13/04/2018	ISSUE FOR COMMENTS	Enr Project TEAM	Enr A. Mikgnri	Enr/NA M. Sakh	MOG
Revision Number	Validity Status	Date	Description	PREPARED	VERIFIED	APPROVED	COMPANY APPROVED
Customer Logo and Business Name				Project Name		Company Document ID	
				 STRUCTURES A & E, MELLITAH COMPLEX EXPANSION AND CO2 MANAGEMENT INTEGRATED DEVELOPMENT PROJECT		EN-100-D-S-1059-03-P2	
Facility and Sub Facility Name						Scale	Sheet of Sheets
STRUCTURES A & E, MELLITAH COMPLEX EXPANSION AND CO2 MANAGEMENT						1 / 75	3 / 4
Document Title						Supersedes N°	
PPE & WHPA PRE DRILLING TEMPLATE MAIN STRUCTURE WHPA PLANS						-	
						Plant Area	Plant Unit
						NA	NA
File No.						EN-100-D-S-1059-03-P2	

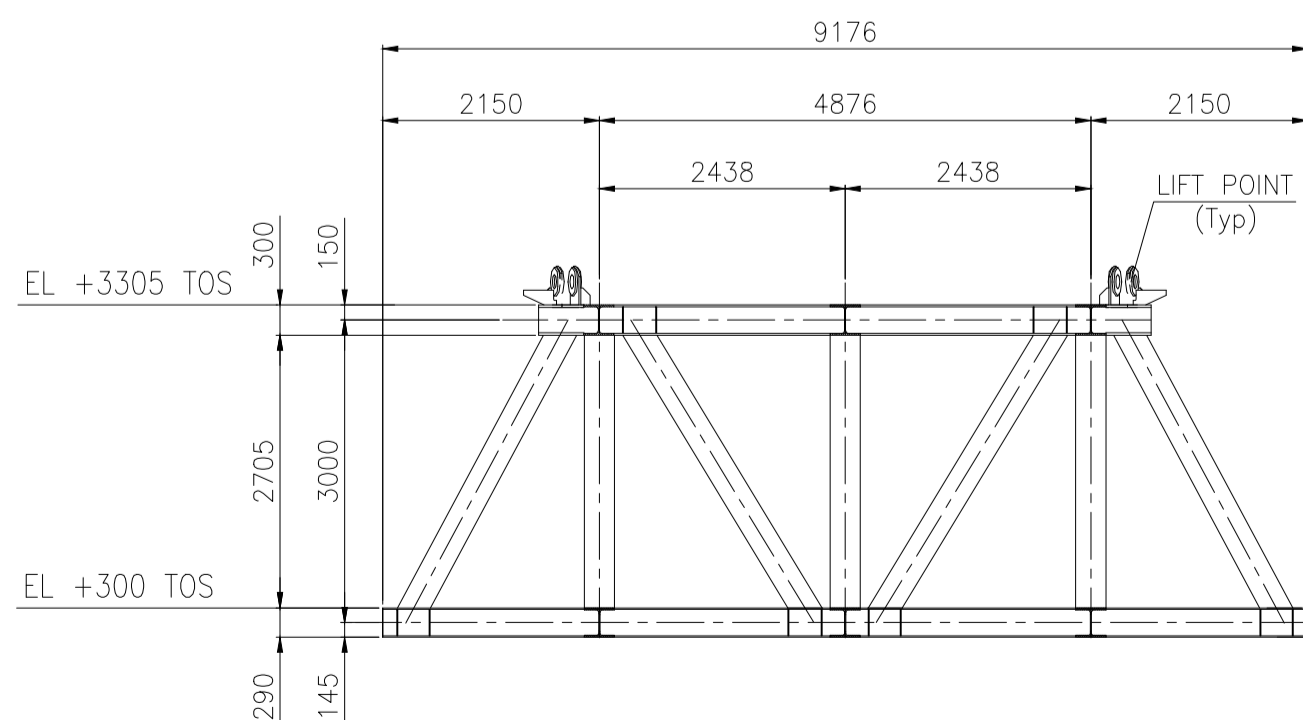




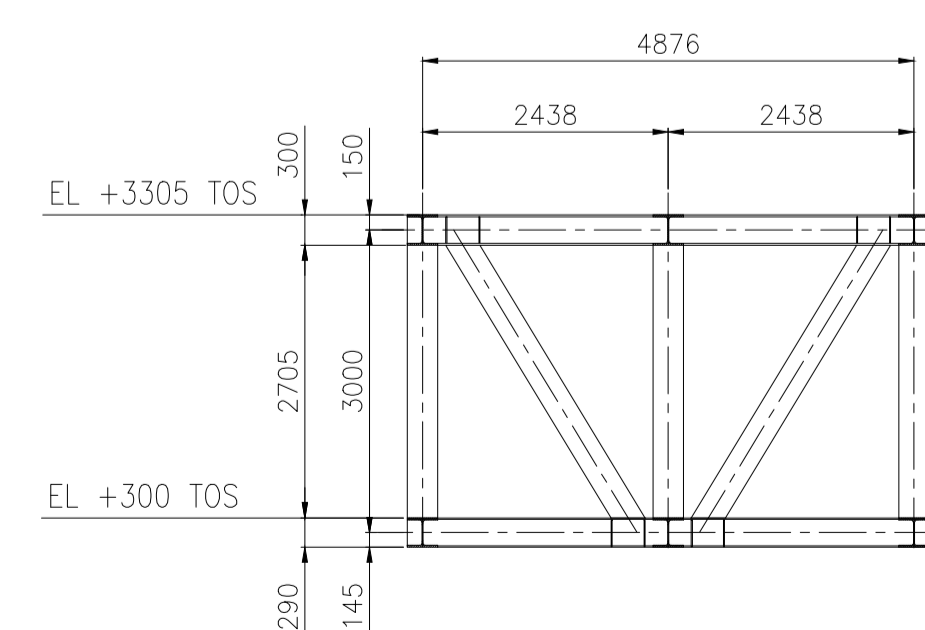
**CENTRAL TRUSS**  
(ALL BRACES AND COLUMNS TO BE HEA300)



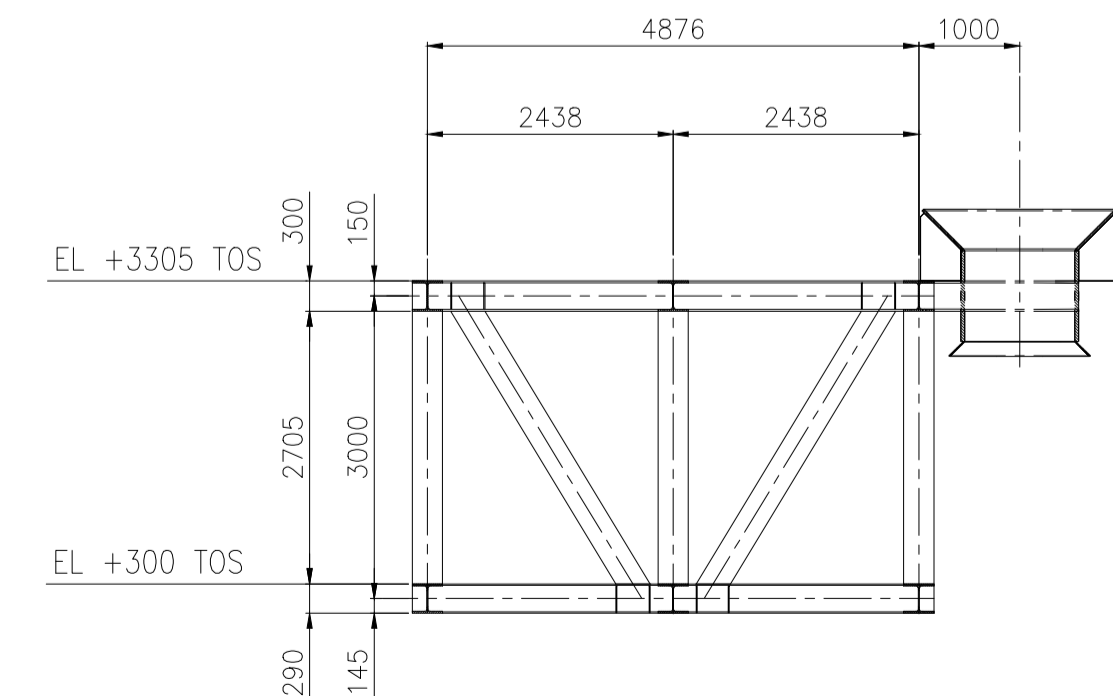
**EXTERNAL TRUSS (2 REQ.)**  
(ALL BRACES AND COLUMNS TO BE HEA300)



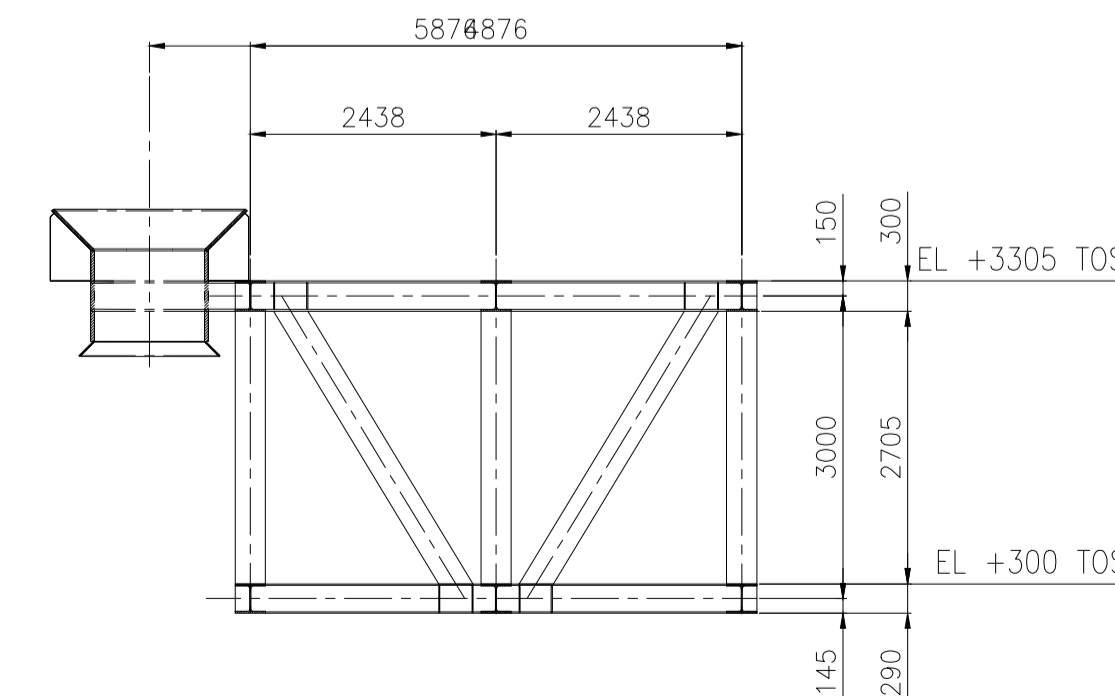
**SECTION A-A**  
(ALL BRACES TO BE HEA300)



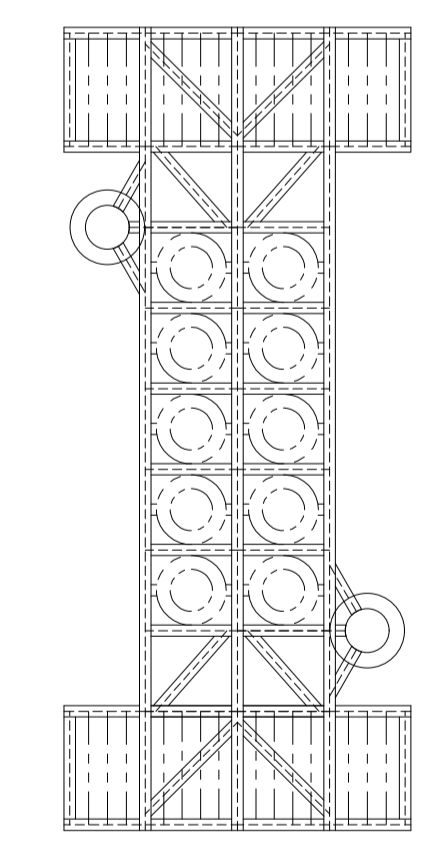
**SECTION B-B**  
(ALL BRACES TO BE HEA300)



**SECTION C-C**  
(ALL BRACES TO BE HEA300)





**SECTION D-D**  
(ALL BRACES TO BE HEA300)



**KEY PLAN**

REFERENCE DOCUMENTS	
NUMBERS	TITLE
EN-100-D-S-1059-03-P2	WHPA PLANS

01	EV-FS	09/11/2018	ISSUE FOR FEED TENDER	Enr Project TEAM	Enr A. Mikgnri	Enr/NA M. Saibh	MOG
00	EV-FS	13/04/2018	ISSUE FOR COMMENTS	Enr Project TEAM	Enr A. Mikgnri	Enr/NA M. Saibh	MOG
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Document Title				Supersedes N°		Superseded by N°	
PPE & WHPA PRE DRILLING TEMPLATE MAIN STRUCTURE WHPA ELEVATIONS				Plant Area N.A.		Plant Unit N.A.	
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