PROJECT : **PROVISION OF DESIGN, BUILD AND LEASE (DBL) OF LIQUEFIED NATURAL GAS (LNG) DRIVEN INDUSTRIAL GAS PRODUCTION FACILITY FOR REGAS TERMINAL (PENGERANG) SDN BHD (CAMELLIA)**

CLIENT : **AIR PRODUCTS MALAYSIA SDN BHD**

DOCUMENT TITLE : **LIFTING PLAN FOR PIPE**

A	25/02/2026	ISSUED FOR REVIEW	**Abdul Salam**	**Wu Guoqing**		
Rev	Date	Description	**Prepared By**	**Approved By**	**Reviewed By**	**Approved By**
			Lifting Supervizor	Construction Manager	Safety and Health Officer	Construction Manager
			SUASA CHEM & XINBANG		**AIR PRODUCTS**	

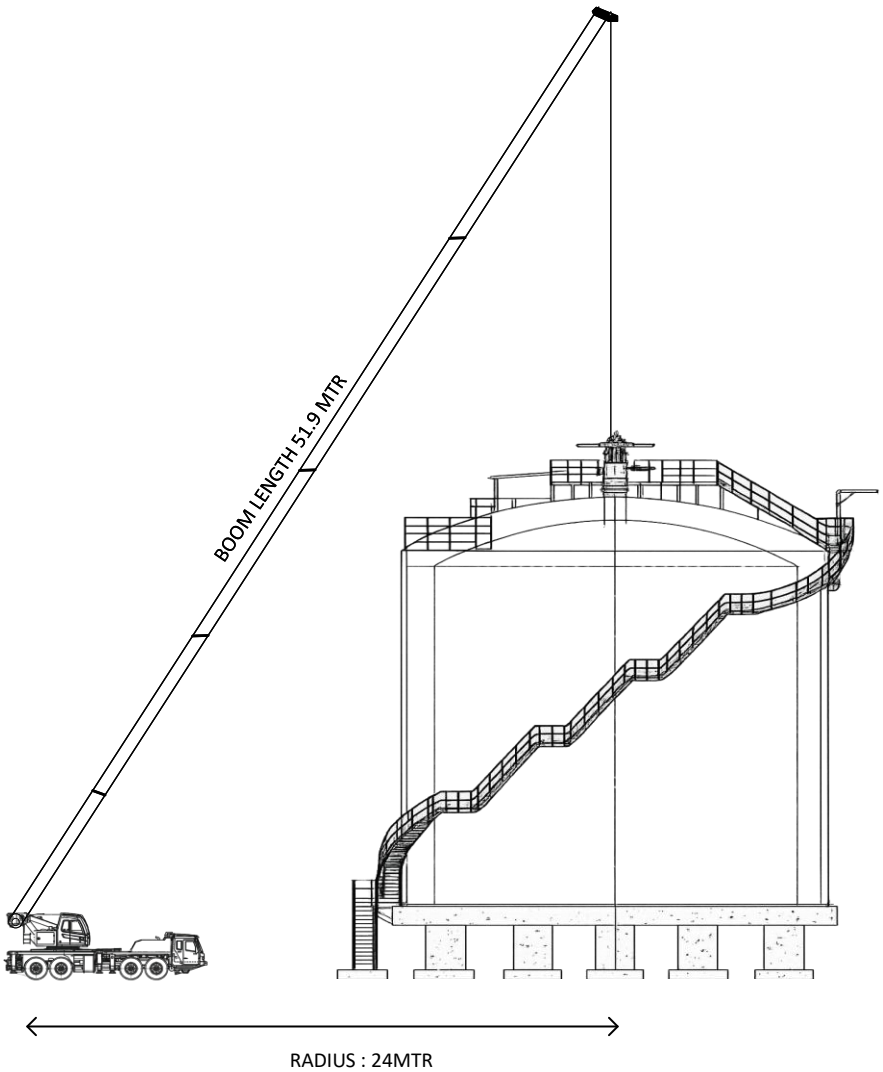
DOCUMENT ISSUE RECORD

Issue	Description	Issue Date
0	ISSUED FOR APPROVAL	26/02/2026

TITLE : SIDE VIEW

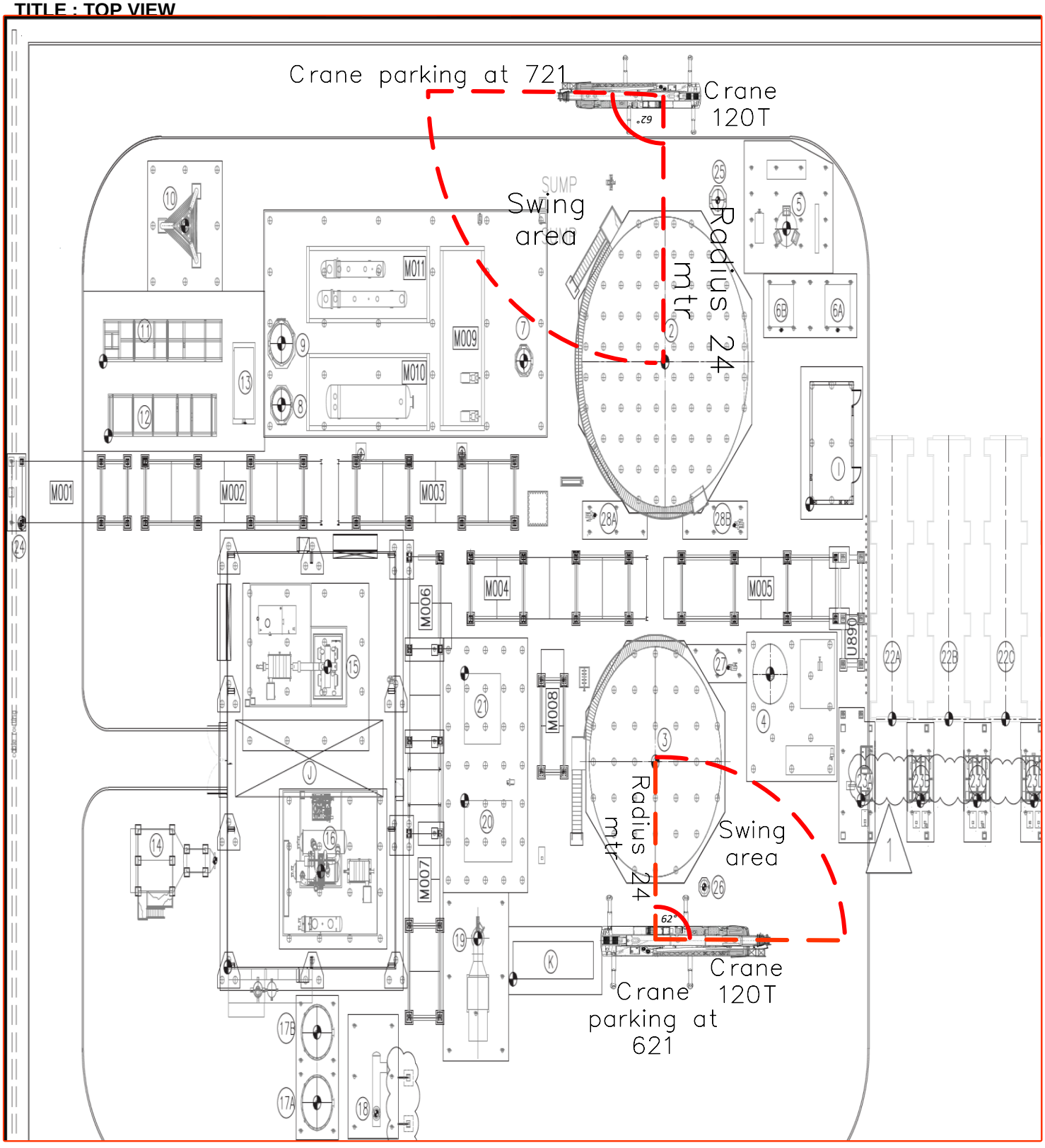
RIGGING TOOLS		
EQUIPMENT	**SWL / SIZE / LENGTH**	**QTY**
WEBBING SLING	3TON X 6MTR	4NOS
SHACKLE	3.75TON	2NOS
SPREADER BAR	NA	NA
CHAIN BLOCK	NA	NA
CHAIN SLING	NA	NA
PLATE CLAMP	NA	NA
TAGLINE	6MTR	2PCS

CRANE DATA		
TYPE OF CRANE	TRUCK CRANE	
BRAND NAME	SANY	
MODEL	STC1200T6	
COUNTER WEIGHT	NA	
LOCATION OF LIFTING	T721/T621	
BOOM LENGHT	51.9	MTR
BOOM HEIGHT	46	MTR
LIFTING HEIGHT	23	MTR
WORKING RADIUS	24	MTR
BOOM ANGLE	62°	DEGREE
CRANE JIB LENGTH	NA	NA
CRANE JIB ANGLE	NA	NA
BLOCK WEIGHT	630	KG
RIGGING WEIGHT	10	KG
LOAD WEIGHT TO BE LIFTED	800	KG
TOTAL LIFTING WEIGHT	1440KG	
CHART CAPACITY AT RADIUS	2700 KG	
SAFETY FACTOR	1.87	
PERCENT OF CHART CAPACITY	53.3%	
NUMBER OF PART LINE	6	
RATED CAPACITY PER PART LINE	8340 KG	
ACTUAL LOAD PER PART LINE	1390 KG	

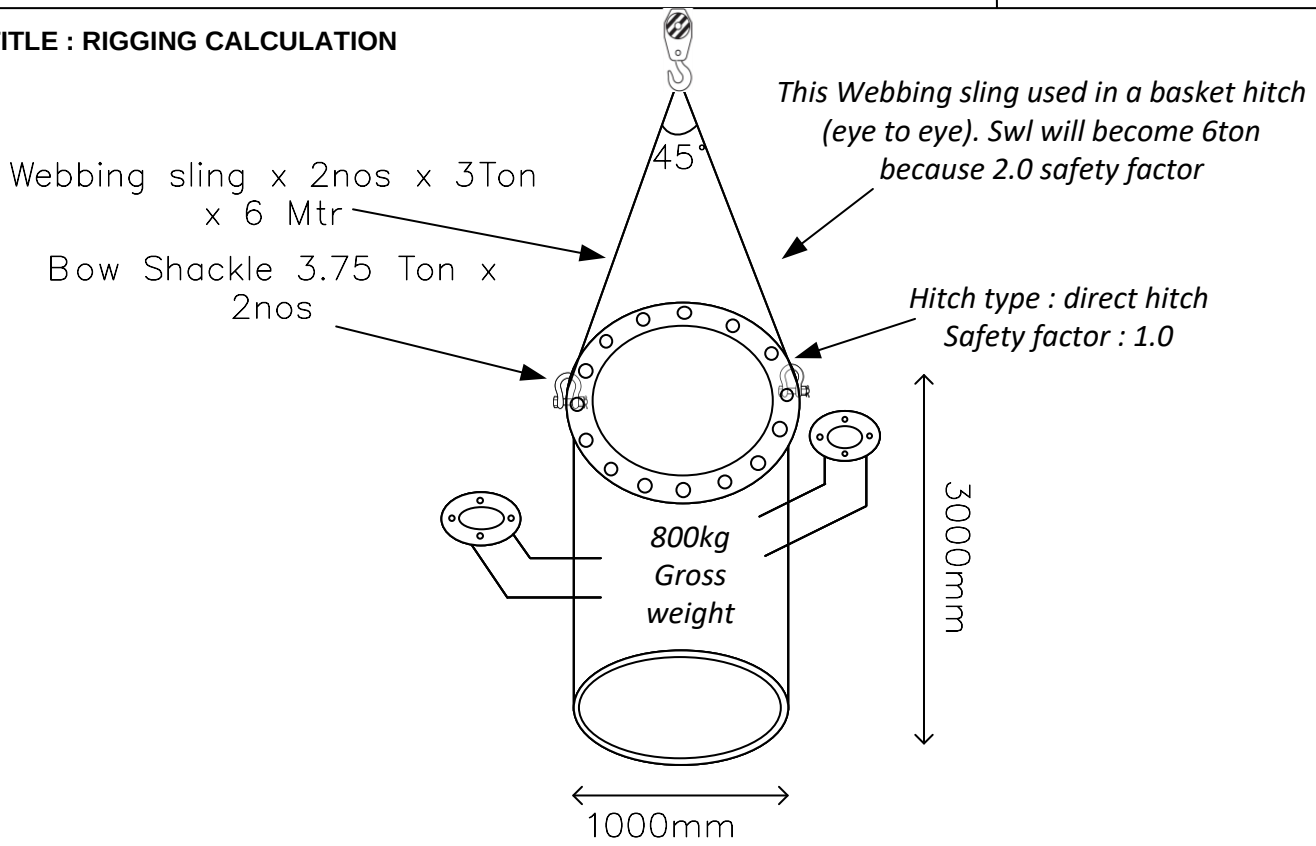


DETAILS	PREPARED BY	REVIEWED BY :	APPROVED BY :
NAME :	ABDUL SALAM ZULMAJDI		
DATE :	26/02/2026		
SIGN :			

TITLE : TOP VIEW



TITLE : RIGGING CALCULATION



SLING DATA CONFIGURATION

HITCH TYPE	DIRECT HITCH
HITCH FACTOR	1.0
VERTICAL ANGLE	45°
VERTICAL ANGLE FACTOR	1.85
SLING TYPE	WEBBING
SLING LENGTH	6MTR
SLING WIDTH / DIAMETER	75MM
SLING WLL/SWL	6000KG

Vertical angle	Safety factor formula
30°	1.93
60°	1.73
90°	1.41
120°	1.00
45°	1.85

SLING TENSION CALCULATION

LOAD WEIGHT		HITCH FACTOR		ANGLE FACTOR		SLING TENSION
800KG	÷	1.0	÷	1.85	=	432kG

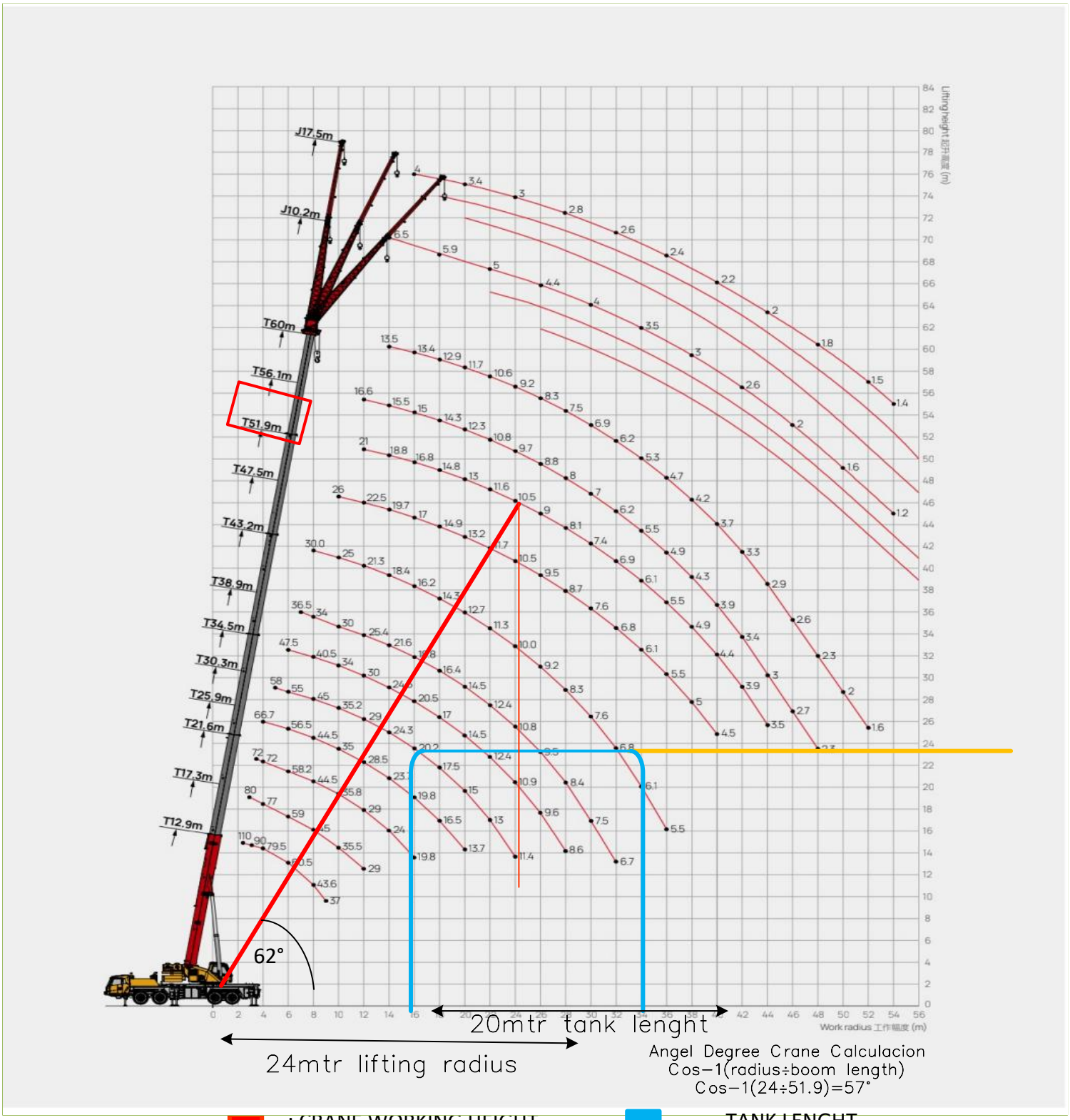
SAFETY FACTOR SLING

SWL/WLL SLING		SLING TENSION		SAFETY FACTOR SLING
6000KG	÷	432KG	=	13.8

PERCENTAGE OF USE SLING / UTILIZATION RATE

SLING TENSION		SWL/WLL SLING		100%		SLING PERCENTAGE
432KG	÷	6000KG	×	100	=	7.2%

TITLE : LIFTING HEIGHT



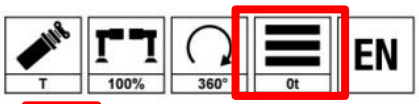
TITLE : LOAD CHART

SPECIFICATION

Load Chart-Telescopic Boom

性能表 - 主臂

Unit: t



m	12.9	17.3	21.6	25.9	30.3	34.6	38.9	43.2	47.6	51.9	56.1	60.0	m
2.5	120*												2.5
3.0	90.0	80.0											3.0
3.5	85.0	80.0	72.0										3.5
4.0	74.0	74.5	71.0	66.7									4.0
4.5	65.5	66.5	66.2	65.0									4.5
5.0	58.5	59.5	60.0	59.1	58.0								5.0
5.5	52.5	53.5	54.2	53.3	53.8								5.5
6.0	48.0	49.0	49.2	48.3	49.0	47.5							6.0
6.5	43.8	44.8	45.2	44.0	46.0	45.5							6.5
7.0	40.2	41.2	41.6	39.5	40.5	38.4	35.5						7.0
7.5	35.1	35.6	35.3	35.6	34.5	32.4	32.6						7.5
8.0	30.0	30.8	31.2	30.8	30.0	28.2	28.2	27.0					8.0
9.0	22.8	24.3	24.9	23.9	23.2	22.0	22.3	21.5					9.0
10.0		19.5	20.1	19.4	18.8	18.0	18.0	17.8	17.7				10.0
12.0		13.3	14.0	13.8	13.1	12.5	12.7	12.6	12.5	12.0	12.0		12.0
14.0			10.3	10.2	9.7	9.2	9.5	9.5	9.3	9.1	8.8	8.8	14.0
16.0			7.8	7.8	7.4	7.1	7.3	7.3	7.2	7.0	6.7	6.7	16.0
18.0				6.1	5.7	5.6	5.8	5.8	5.7	5.4	5.2	5.2	18.0
20.0				4.7	4.5	4.5	4.7	4.7	4.5	4.3	4.0	4.1	20.0
22.0					3.5	3.6	3.8	3.8	3.6	3.4	3.1	3.1	22.0
24.0					2.6	2.9	3.1	3.1	2.9	2.7	2.4	2.4	24.0
26.0						2.3	2.5	2.5	2.3	2.1	1.7	1.7	26.0
28.0						1.8	2.0	2.0	1.8	1.5			28.0
30.0							1.5	1.5					30.0
32.0													32.0
34.0													34.0
36.0													36.0
38.0													38.0
40.0													40.0
42.0													42.0
44.0													44.0
46.0													46.0
48.0													48.0
50.0													50.0
52.0													52.0
54.0													54.0
56.0													56.0
n	14	10	9	8	7	6	5	4	4	3	3	3	n

* with additional device 需額外裝置