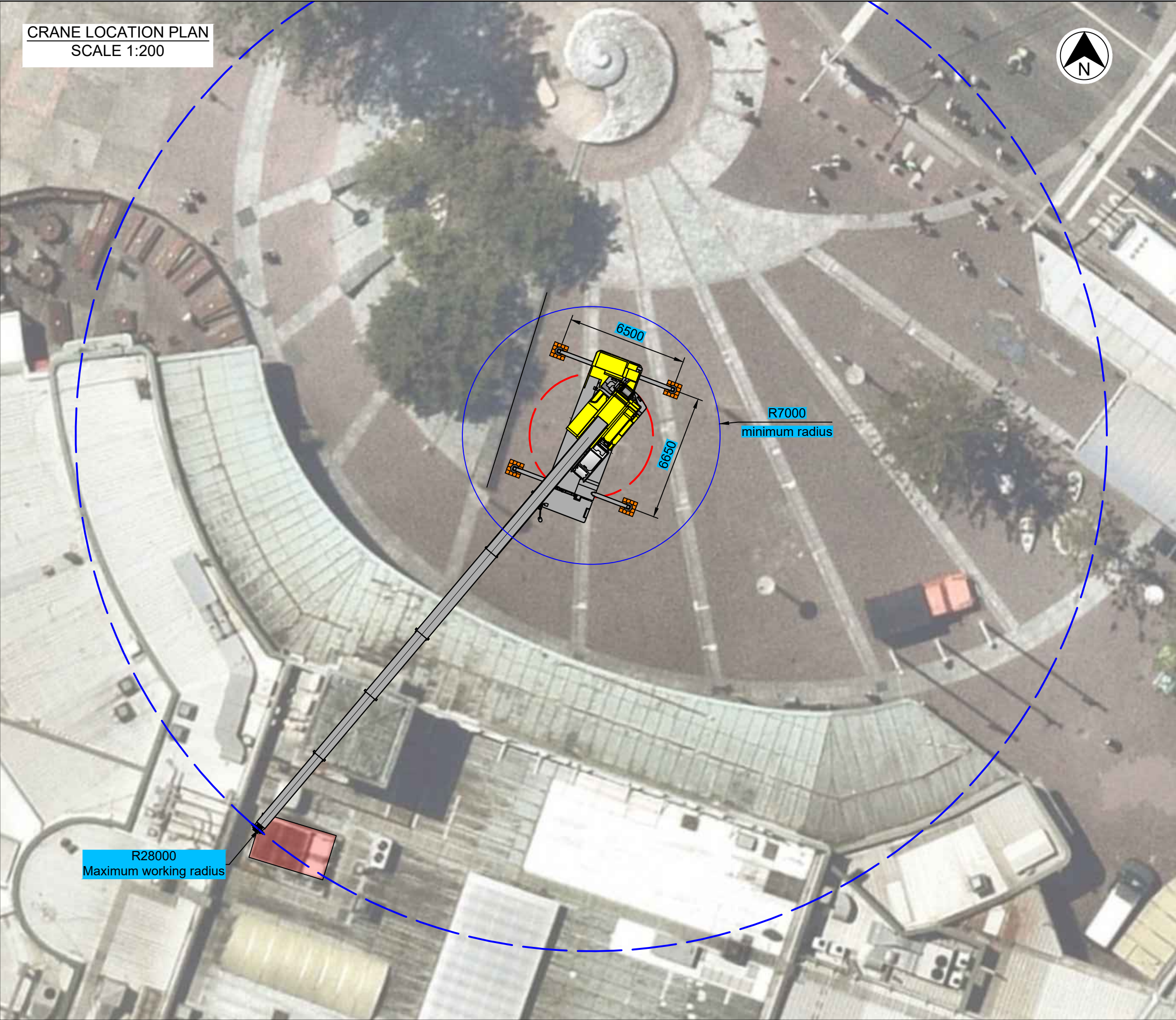




CRANE LOCATION PLAN
SCALE 1:200

CLIENT	SAWYER CRANES			
PROJECT	-			
LOCATION	6-7 EAST ESPLANADE MANLY			
DRAWING TITLE	CRANE LOCATION PLAN			
LIFTED PIECE DESCRIPTION	1.7t MECHANICAL UNITS			
DRAWING NUMBER	ELS-25-014 -01	REV.	A	
CHECKED BY				
SCALE	1:200 @ A3			
DATE	17.06.2025			
LIFT ANALYSIS				
CRANE				
Make / Model / Serial No.:	DEMAG / AC55 CITY			
Type (Slew, Artic, Crawler):	SLEW CRANE			
Boom Length (m) & Sequence:	34.6m (0+100+100+100+100+100+)			
Attachments (Guy, Fly & etc.):	n/a			
Counterweight (t):	8.8			
Outrigger/Track/Artic. Config.:	6.65m (L) x 6.5m (W)			
HOOKS				
Hook Capacity (t):	5			
Parts of Line:	1			
Line Pull (t)	4.6			
Combined Hook & Line Pull (t):	4.6			
Hook Description:	BABY HOOK			
% of Hook Utilization:	41.96			
LOAD				
Mass of Piece to be Lifted (t):	1.7			
Mass of Main Hook (t):	0.13			
Mass of Aux. Hook (t):	n/a			
Hoist Rope (Main & Aux.) (t):	n/a			
Rigging / Extras (t):	0.1			
Fly / Rooster (t):	n/a			
Net Load (t):	1.93			
Load Factor:	-			
Gross Load (t):	1.93			
Crane Capacity (t):	2.6			
Chart Radius (m):	28			
% of Crane SWL:	74.23			
Max. / Min. Radius (m):	28.0 / 7.0			
SITE CONDITIONS				
Max. Outrigger/Track Load (t):	40.0			
Pad Weight (t):	0.3			
Pad/Track/Timber Area (m²)	0.80	x	0.80	= 0.64
Applied Pressure (kPA):	617.7			
Allowable Pressure (kPA):	TBC by Client			
Max. Wind Speed (m/s):	9.8			

CRANE ELEVATION
SCALE 1:125

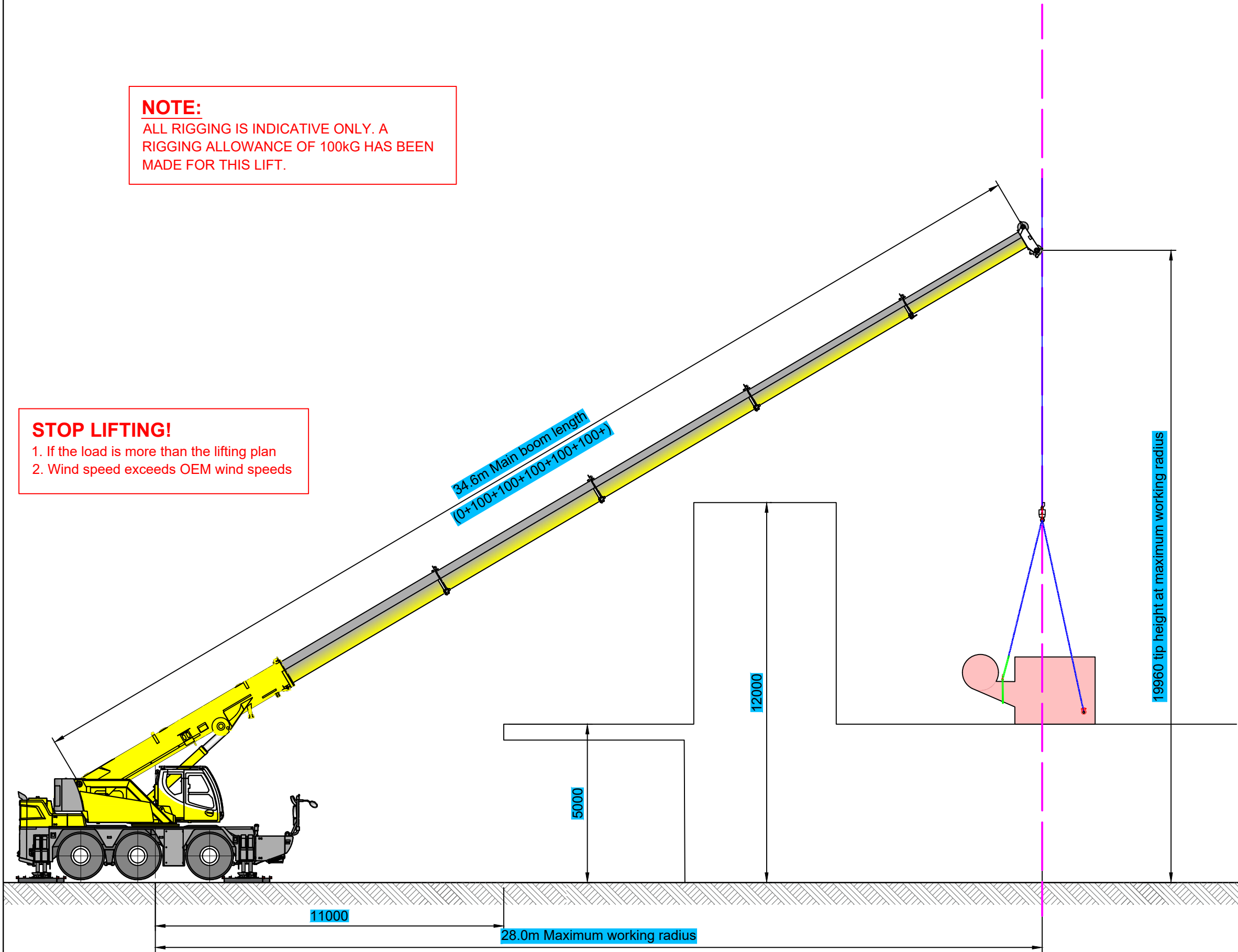
RIGGING DETAIL						
NO.	TYPE	LENGTH (m)	Qty.	W.L.L.	Wt./each (kg)	Total Weight(kg)
1	8mm 2-LEG G80 CHAIN SET	6	2	3.5000	18	36.0
2	ROUND SLING	4	2	2	3	6.0
3	BOW SHACKLES		4	8.5	2.5	10.0
TOTAL RIGGING WEIGHT (KG)						52.0

NOTE:

ALL RIGGING IS INDICATIVE ONLY. A RIGGING ALLOWANCE OF 100KG HAS BEEN MADE FOR THIS LIFT.

STOP LIFTING!

1. If the load is more than the lifting plan
2. Wind speed exceeds OEM wind speeds



CLIENT	SAWYER CRANES		
PROJECT	-		
LOCATION	6-7 EAST ESPLANADE MANLY		
DRAWING TITLE	CRANE ELEVATION PLAN		
LIFTED PIECE DESCRIPTION	1.7t MECHANICAL UNITS		
DRAWING NUMBER	ELS-25-014 -02	REV.	A
CHECKED BY			
SCALE	1:125 @ A3		
DATE	17.06.2025		

LIFT ANALYSIS

CRANE				
Make / Model / Serial No.:	DEMAG / AC55 CITY			
Type (Slew, Artic, Crawler):	SLEW CRANE			
Boom Length (m) & Sequence:	34.6m (0+100+100+100+100+100+)			
Attachments (Guy, Fly & etc.):	n/a			
Counterweight (t):	8.8			
Outrigger/Track/Artic. Config.:	6.65m (L) x 6.5m (W)			
HOOKS				
Hook Capacity (t):	5			
Parts of Line:	1			
Line Pull (t)	4.6			
Combined Hook & Line Pull (t):	4.6			
Hook Description:	BABY HOOK			
% of Hook Utilization:	41.96			
LOAD				
Mass of Piece to be Lifted (t):	1.7			
Mass of Main Hook (t):	0.13			
Mass of Aux. Hook (t):	n/a			
Hoist Rope (Main & Aux.) (t):	n/a			
Rigging / Extras (t):	0.1			
Fly / Rooster (t):	n/a			
Net Load (t):	1.93			
Load Factor:	-			
Gross Load (t):	1.93			
Crane Capacity (t):	2.6			
Chart Radius (m):	28			
% of Crane SWL:	74.23			
Max. / Min. Radius (m):	28.0 / 7.0			
SITE CONDITIONS				
Max. Outrigger/Track Load (t):	40.0			
Pad Weight (t):	0.3			
Pad/Track/Timber Area (m²)	0.80	x	0.80	= 0.64
Applied Pressure (kPA):	617.7			
Allowable Pressure (kPA):	TBC by Client			
Max. Wind Speed (m/s):	9.8			

AC55CITY

Capacities on **Main Boom**

HA

Capacity (t) = Load + Hook Block

Slew Range
Outrigger Length
Outrigger Width
Counterweight
0-360 °
6,65 m
6,5 m
8,8 t
Main Boom Length (m)
Radius (m)

31,5	34,6	33,9	33,9	36,9	36,2	40
------	-------------	------	------	------	------	----

6	14,6						
7	13,6	11,2	14,9	13,8			
8	12,6	10,4	13,8	12,8	10,6	12,7	
9	11,7	9,7	12,9	12	9,9	11,9	10,6
10	10,7	9,1	12,1	11,2	9,2	11,2	10,1
11	10,1	8,4	11,3	10,4	8,7	10,5	9,5
12	9,5	7,9	10,6	9,8	8,1	9,9	9
13	8,9	7,4	9,3	9,3	7,6	9,4	8,6
14	8,3	7	8,2	8,6	7,3	8,4	8,1
15	7,8	6,6	7,3	7,6	6,9	7,5	7,5
16	7,1	6,2	6,5	6,9	6,5	6,7	6,7
17	6,4	5,8	5,8	6,2	6,1	6	6,1
18	5,8	5,5	5,3	5,6	5,7	5,5	5,5
19	5,3	5,3	4,8	5,1	5,2	5	5
20	4,9	4,9	4,3	4,7	4,7	4,5	4,5
22	4,1	4,2	3,5	3,9	4	3,7	3,7
24	3,5	3,5	2,9	3,3	3,3	3,1	3,1
26	3	3	2,4	2,7	2,8	2,6	2,6
28	2,6	2,6	1,9	2,3	2,4	2,1	2,1
30		2,2	1,6	2	2	1,8	1,8
32					1,7	1,5	1,4
34							1,2
36							,9
Horizontal Capacity (t)	2,5	2	1,5	1,8	1,4	1,3	,9
Unpinned Capacity (t)	14,6	11,2	14,9	13,8	10,6	12,7	10,6
Single hook block	4	3	4	4	3	3	3
LK-Code	73	74	75	76	77	78	79
Tele 1 (%)	0	0	90	45	45	90	100
Tele 2 (%)	90	100	90	90	100	90	100
Tele 3 (%)	90	100	90	90	100	90	100
Tele 4 (%)	90	100	90	90	100	90	100
Tele 5 (%)	90	100	90	90	100	90	100
Tele 6 (%)	90	100	45	90	100	90	100

HOOK BLOCKS - WITH CRANE

Description	Auxiliary hook	Manufacturer's Identification	OK
		55178840	
Branded WLL (kg)	OK	Safety Latches	OK
5000kg		Sheaves and Bearings	N/A
		NA	
Swivel	OK	Hook Shank Retainer	OK
Branded WLL (t)		Branded with Tare Weight (kg)	OK
5t		130kg	

HOOK BLOCKS - WITH CRANE No. 2

Description	3 Sheave Hook Block	Manufacturer's Identification	OK
		15049	
Branded WLL (kg)	OK	Safety Latches	OK
30000kg		Sheaves and Bearings	OK
		3	
Swivel	OK	Hook Shank Retainer	OK
Branded with Tare Weight (kg)	OK		
350kg			

Revolving Frame and Cabin

Frame	OK	Heater	OK
Counterweight Attachment - Security	OK	Air Conditioner	OK
Counterweight Hazard Striping	OK	Gauges	OK
Boom Mounting Lugs	OK	Anti-Two block Alarms	OK
Boom Mounting Pins	OK	Horn	OK
Lift Cylinder Lugs	OK	Tested & Functional	
Lift Cylinder Pins	OK	Access Steps	N/A
Cab Glass and Mirrors	OK	Doors and Locks	OK
Sheet Metal / Guards	OK	Crane Level Indicator	OK
Seat Assembly	OK	Outrigger Controls	OK
Throttle	OK	Cab Mounts	OK
Dead Man Controls	OK	Front Wiper	OK
Tested & Functional		Roof Wiper	REMEDIED
Free Fall Lockout	N/A	Windscreen Wiper / Washer	OK
Decals / Signs - In English	REMEDIED	Switches and Relays	OK
Load Charts in English as per AS1418	OK	Upper Steering	OK
Control Levers - Clearly Marked	OK	Upper Braking	OK
Control Cables / Pilot Hoses	N/A		



ALL TERRAIN CRANE LOAD INDICATOR CERTIFICATION

Certificate Number: NSW202541 CraneSafe Assessment Number: ATC A 202541-16



CraneSafe®

Div of The Crane Industry Council of Australia
ABN 73 002 565 773

PO Box 136
MOUNT WAVERLEY VIC 3149
Phone: +61 (03) 9501 0078
Email: assessments@cranesafe.com.au

Inspection Date: 10/06/2025

Renewal Date: 10/06/2026

Issued Date: 11/06/2025

COMPANY

Kayer Services Pty Ltd

ABN 43 131 191 560

38 Tomah Crescent THE PONDS NSW 2769

REPRESENTATIVE

Mark Sawyer Phone: 0400 301 233

Email: mahdisawyer@gmail.com

ASSESSED BY

Michael Refalo

Reg No: NSW1155

Phone: 0416 227 678

Email: mr.craneworks@outlook.com

COMPANY

Mr Craneworks Pty Ltd

PO Box 413 CRANE BROOK

NSW 2749

Tadano Demag AC55CITY

LOWER HOURS

0

UPPER HOURS

21549

SERIAL NUMBER

15049

PLANT NUMBER

NA

YEAR OF MANUFACTURE

2005

RATED CAPACITY INDICATOR (RCI)

Load Chart Reference Number DEMAG AC55CITY LK CODE 79

PRINTED CHART - NO LOAD

	Printed Chart	Rated Capacity Indicator
Boom Angle, deg	54.00	54.50
Boom Length, m	40.00	39.80
Radius, m	20.00	20.00
Load, kg	3,000.00	3,000.00

RATED CAPACITY LIMITER (RCL)

Load Chart Reference Number DEMAG AC55CITY LK CODE 79

RATED LOAD - BOOM FULLY EXTENDED

	Rated Capacity Indicator	Measured
Radius, m	24.70	24.70
Load, kg	1,700.00	1,415.00

RATED LOAD IN STABILITY

	Rated Capacity Indicator	Measured
Radius, m	24.70	24.70
Load, kg	1,700.00	1,415.00

LINE PULL TEST

	Rated Capacity Indicator	Measured
Load, kg	4,600.00	4,495.00

WINCH BRAKE TEST

	Rated Capacity Indicator	Measured
Load, kg	4,600.00	4,495.00

At the time of test, the load indicator was reading in accordance with the requirements of AS1418.1 & AS1418.5 and the load charts supplied with the crane


Michael Refalo