

BUCKNER

HEAVYLIFT CRANES

Build Sheet Package - CR8801

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001	Title Page
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008	LICCON Configuration

Note: Crane technician MUST verify all information contained in this document matches what is provided by the manufacturer for the specific crane being utilized.

PROJECT:
Intel Eagle - LR 1800 Build

LOCATION: Chandler, AZ

BUCKNER CONTACT: Sean Maclam
SeanM@BucknerHeavylift.com

LIFT PLAN BY: Sean Maclam
SeanM@BucknerHeavylift.com

DRAWING NOTES:
Title Page

Liebherr LR 1800-1.0

Operating Mode HSDWBV

Main Boom Length 84m (276'-0")

Luffing Jib Length 84m (276'-0")

Superstructure CTWT 210t (463,000lbs)

Carbody CTWT 70t (154,300lbs)



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Pos. Item	Description		Page
1 96020714	PULL ROD	6M AS-1	
2 96019851	PULL ROD	12M AS-2	
3 96023996	DRAW SHACKLE	1M	
4 918642708	MEASURING PLATE	MESSSTELLE 1	119
5 919115008	MEASURING PLATE	MESSSTELLE 1	
6 96023995	PULL ROD	2.3M AD- 6	
9 96021718	PULL ROD	5M AS-9	
10 96022238	PULL ROD	4M AS-10	
11 96021796	PULL ROD	3M AS-11	
12 96025233	PULL ROD	3.7M AS-12	
13 919050508	MEASURING PLATE	MESSSTELLE 3	88
14 918648908	MEASURING PLATE	MESSSTELLE 3	
15 96019558	PULL ROD	4.2M AB-15	
16 96018599	PULL ROD	12.0 M AB-16	
17 96018741	PULL ROD	6.0 M AB-17	
18 96019569	PULL ROD	3.45 M AB-18	
19 96043740	ROD CPL.	2.6M AB-19	
21 96031803	BRACKET CPL.	0.75M AS-21	
24 96029596	PULL ROD	3.25M AS-24	
25 96023082	PULL ROD	4.6 M AS-25	
26 96028641	PULL ROD	4M AS-26	
28 96031325	PULL ROD	1M AS-28	
29 96031538	PULL ROD	2M AS-29	
33 97102889	FIBRE TENSIONING ROPE	41X3.70M	
34 97102890	FIBRE TENSIONING ROPE	41X4.70M	
35 97102891	FIBRE TENSIONING ROPE	41X5.70M	
37 96021721	CONNECTING LINK	AS-37	
45 96019559	DRAWBAR PRE-ASS	8.4M AD-45	
46 96018598	PULL ROD	12.0 M AD-46	
47 96018740	PULL ROD	6.0 M AD-47	
48 96019587	CROSS SHACKLE CPL.	0.7M AB-48	
49 96035095	PULL ROD	1.2M AB-49	
61 96031886	ROTATING SHAFT	1.5M AS-61	
62 96031898	DRAWBAR PRE-ASS	5.7M AS-62	
63 96021772	PULL ROD	9M AS-63	
64 96021706	CONNECTING LUG BOTTOM	AS-64	
65 96021724	CONNECTING LUG TOP	AS-65	
1000 98042418	RODS/ PULL RODS LR 1800-1.0	HSDWB/BW/BV	

31.3.2020	LIEBHERR LR 1800-1.0 (048400) RODS/ PULL RODS LR 1800-1.0 HSDWB/BW/BV	96037228 Page: 37
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Pos. Item	Description		Page
1 96020714	PULL ROD	6M AS-1	
2 96019851	PULL ROD	12M AS-2	
11 96021796	PULL ROD	3M AS-11	
12 96025233	PULL ROD	3.7M AS-12	
21 96031803	BRACKET CPL.	0.75M AS-21	
22 96027198	ROTATING SHAFT	1.75M AS-22	
23 96028667	BRACKET CPL.	0.35M AS-23	
27 96031731	PULL ROD	4.59M AS-27	
28 96031325	PULL ROD	1M AS-28	
29 96031538	PULL ROD	2M AS-29	
30 97114147	FIBRE TENSIONING ROPE	28X1.32M	
31 97102778	FIBRE TENSIONING ROPE	41X1.70M	
32 97102888	FIBRE TENSIONING ROPE	41X2.70M	
35 97102891	FIBRE TENSIONING ROPE	41X5.70M	
36 96024374	CONNECTING LUG BOTTOM	AS-36	
37 96021721	CONNECTING LINK	AS-37	
38 96024354	CROSS STRAP MIDDLE	AS-38	
39 96024351	CROSS STRAP TOP	AS-39	
40 96024345	GUY SHACKLE	AS-40	
66 919050608	MEASURING PLATE	MESSSTELLE 2	92
67 918653608	MEASURING PLATE	MESSSTELLE 2	
1000 98042901	RODS/ PULL RODS LR 1800-1.0	W	

31.3.2020	LIEBHERR LR 1800-1.0 (048400) RODS/ PULL RODS LR 1800-1.0 W	96038031 Page: 41
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PROJECT:
Intel Eagle – LR 1800 Build

LOCATION: Chandler, AZ
BUCKNER CONTACT: Sean Maclam
LIFT PLAN BY: Sean Maclam

SEAN@BUCKNERHEAVYLIFT.COM
SEAN@BUCKNERHEAVYLIFT.COM

DRAWING NOTES:
Rod Plan

Liebherr LR 1800-1.0

Operating Mode HSDWBV
Main Boom Length 84m (276'-0")
Luffing Jib Length 84m (276'-0")
Superstructure CTWT 210t (463,000lbs)
Carbody CTWT 70t (154,300lbs)



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PROJECT:
 Intel Eagle – LR 1800 Build

LOCATION: Chandler, AZ

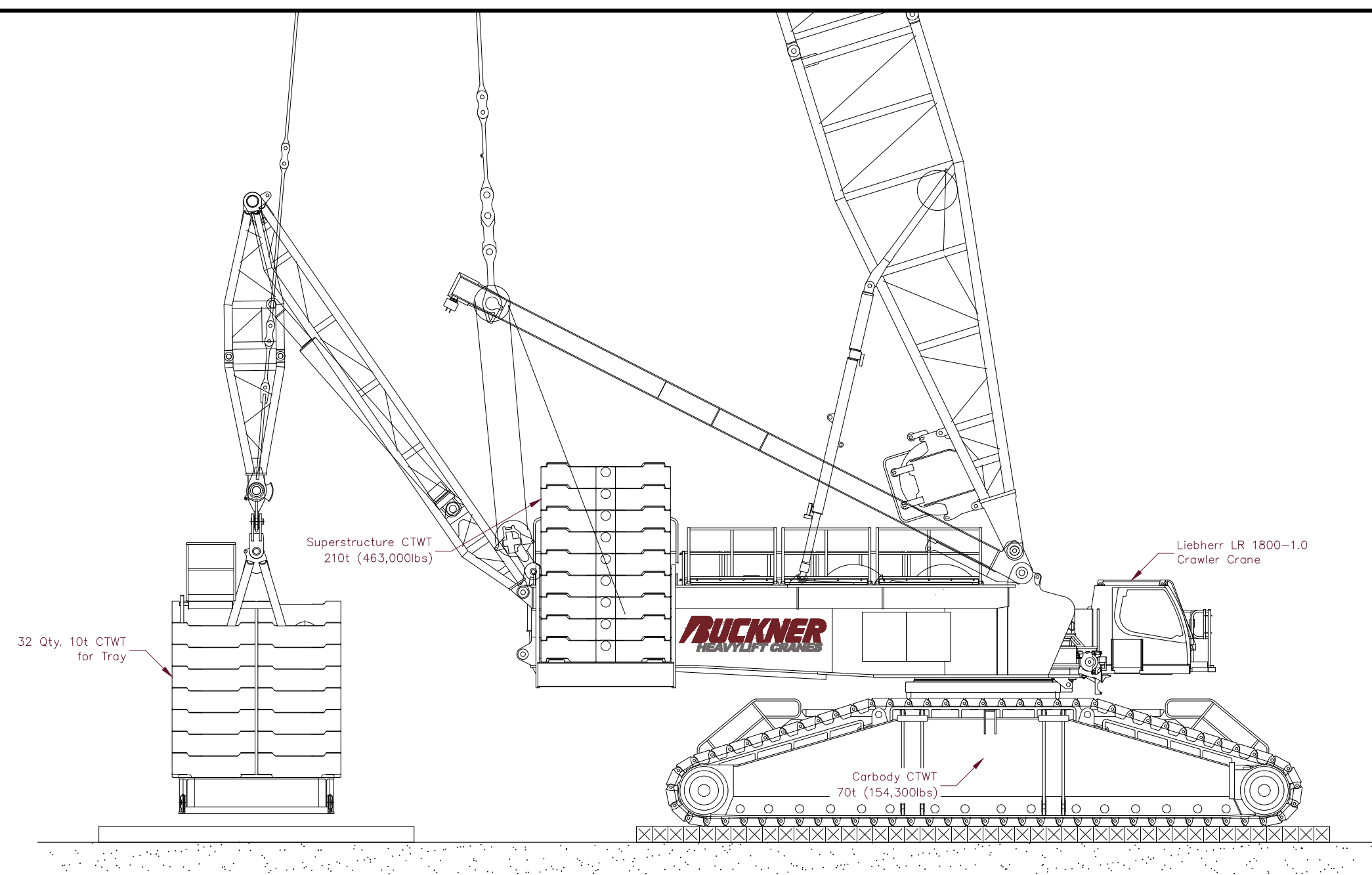
BUCKNER CONTACT: Sean Maclam
 SeanM@BucknerHeavylift.com

LIFT PLAN BY: Sean Maclam
 SeanM@BucknerHeavylift.com

DRAWING NOTES:
 Counterweight Arrangement

Liebherr LR 1800-1.0

Operating Mode	HSDWBV
Main Boom Length	84m (276'-0")
Luffing Jib Length	84m (276'-0")
Superstructure CTWT	210t (463,000lbs)
Carbody CTWT	70t (154,300lbs)



Elevation View



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PROJECT:
Intel Eagle – LR 1800 Build

LOCATION: Chandler, AZ
 BUCKNER CONTACT: Sean Maclam
 LIFT PLAN BY: Sean Maclam
 SeanM@BucknerHeavylift.com

DRAWING NOTES:
Reeving Plan

Main Hook Block (Wi1)	
Hook Block 160 DM	
Parts of Line	6
Reeving Capacity	242,700lbs
Block Capacity	160t (352,800lbs)
Block Weight	14,330lbs

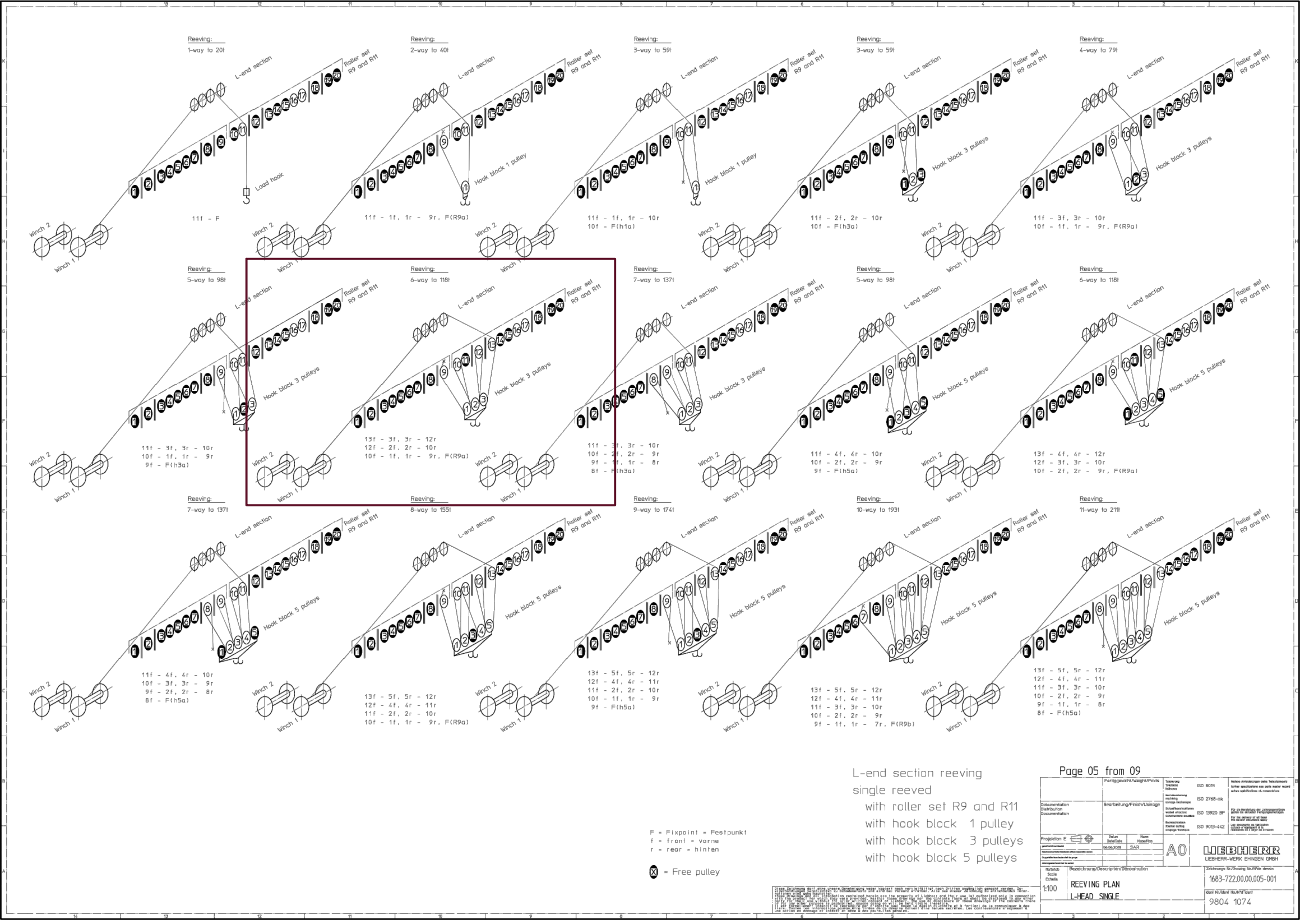
Aux. Hook Ball (Wi6)	
Load Hook 25 E	
Parts of Line	1
Reeving Capacity	25,300lbs
Ball Capacity	25t (55,130lbs)
Ball Weight	3,310lbs

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0213518-02

17.05 Charts for erection and take-down of the boom system

HSDWBV – operation, derrick ballast radius 14m or 16m

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HS-boom: S-end section without roller set
W-boom: L-end section with roller set R9 + R11

Page: 8 of 12

HSDWBV: Turntable / central ballast 210t/70t
On crawlers 9.4m x 9.0m x1.5m

System: H 3330.40/25
S 2724.22
L 2420.14
D 2524.16/20

Wind speed:

maximum 9 m/s: for all boom lengths and wind direction 360°
maximum 13.4 m/s: for all boom lengths below 120m and wind direction 360°. With a total boom length above 120m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°.

Operation with boom nose: During operation with a boom nose, the value in the chart is the sum of the weights of the hook blocks on the jig head and the boom nose as well as the weight of the boom nose.

HSDWBV DR 11m / DBR 14m			Permissible weight [t] of the hook block on the W-boom										
			For derrick ballast [t] For derrick radius (DR) = 11m , derrick ballast radius (DBR) = 14m										
			0	50	100	150	200	250	300	350	400		
HS [m]	84	W [m]	18	-	-	-	-	4.8	13	18	23	25	
			24	-	-	-	-	3.2	12	21	*	*	
			30	-	-	-	-	-	6	13	18	21	
			36	-	-	-	-	-	5.8	16	25	*	
			42	-	-	-	-	-	4.1	10	14	16	
			48	-	-	-	-	-	5.9	16	24	*	
			54	-	-	-	-	-	6.8	12	16	17	
			60	-	-	-	-	-	15	26	*	*	
			66	-	-	-	-	-	23	*	*	*	
			72	-	-	-	-	-	29	29	29	29	
			78	-	-	-	-	-	-	24	24	24	
			84	-	-	-	-	-	-	19	19	19	
			90	-	-	-	-	-	-	15	15	15	
96	-	-	-	-	-	-	11	11	11				
102	-	-	-	-	-	-	-	8.1	7.9				

- Hook block weight up to 30t permissible
- Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

LWE/07250-03-02/en

0213518-02

17.05 Charts for erection and take-down of the boom system

HSDWBV – operation, derrick ballast radius 19m

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HS-boom: S-end section without roller set
W-boom: L-end section with roller set R9 + R11

Page: 8 of 12

HSDWBV: Turntable / central ballast 210t/70t
On crawlers 9.4m x 9.0m x1.5m

System: H 3330.40/25
S 2724.22
L 2420.14
D 2524.16/20

Wind speed:

maximum 9 m/s: for all boom lengths and wind direction 360°
maximum 13.4 m/s: for all boom lengths below 120m and wind direction 360°. With a total boom length above 120m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°.

Operation with boom nose: During operation with a boom nose, the value in the chart is the sum of the weights of the hook blocks on the jig head and the boom nose as well as the weight of the boom nose.

HSDWBV DR 11m / DBR 19m			Permissible weight [t] of the hook block on the W-boom										
			For derrick ballast [t] For derrick radius (DR) = 11m , derrick ballast radius (DBR) = 19m										
			0	50	100	150	200	250	300	350	400		
HS [m]	84	W [m]	18	-	-	-	2.8	13	19	25	25	27	
			24	-	-	-	-	13	24	*	*	29	
			30	-	-	-	-	6.8	14	21	23	23	
			36	-	-	-	-	6.6	19	*	*	*	
			42	-	-	-	-	4.9	11	16	17	20	
			48	-	-	-	-	6.8	19	*	*	*	
			54	-	-	-	-	7.1	14	19	17	17	
			60	-	-	-	-	16	29	*	*	*	
			66	-	-	-	-	24	*	*	*	*	
			72	-	-	-	-	29	29	29	29	29	
			78	-	-	-	-	-	24	24	24	24	
			84	-	-	-	-	-	19	19	19	19	
			90	-	-	-	-	-	15	15	15	15	
96	-	-	-	-	-	11	11	11	11				
102	-	-	-	-	-	8.1	8.1	8.1	8.1				

- Hook block weight up to 30t permissible
- Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

LWE/07250-03-02/en

PROJECT:
Intel Eagle – LR 1800 Build

LOCATION: Chandler, AZ

BUCKNER CONTACT: Sean Maclam

SeanM@BucknerHeavylift.com

LIFT PLAN BY: Sean Maclam

SeanM@BucknerHeavylift.com

DRAWING NOTES:
Erection and Takedown – 1

Liebherr LR 1800–1.0

Operating Mode	HSDWBV
Main Boom Length	84m (276'–0")
Luffing Jib Length	84m (276'–0")
Superstructure CTWT	210t (463,000lbs)
Carbody CTWT	70t (154,300lbs)



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0213518-02

17.05 Charts for erection and take-down of the boom system

HSDWBV –operation, derrick ballast radius 23m aat_272_028_00003_00_000

HS-boom: S-end section without roller set Page: 8 of 12
 W-boom: L-end section with roller set R9 + R11

HSDWBV: Turntable / central ballast 210t/70t System: H 3330.40/25
 On crawlers 9.4m x 9.0m x 1.5m S 2724.22
L 2420.14
D 2524.16/20

Wind speed:
maximum 9 m/s: for all boom lengths and wind direction 360°
maximum 13.4 m/s: for all boom lengths below 120m and wind direction 360°. With a total boom length above 120m (highlighted in gray in the chart), erection / take-down is only permissible with wind from the front or from the rear on the boom. The permissible inflow angle range is ±25°.

Operation with boom nose: During operation with a boom nose, the value in the chart is the sum of the weights of the hook blocks on the jig head and the boom nose as well as the weight of the boom nose.

HSDWBV DR 11m / DBR 23m			Permissible weight [t] of the hook block on the W-boom									
			For derrick ballast [t] For derrick radius (DR) = 11m, derrick ballast radius (DBR) = 23m									
			0	50	100	150	200	250	300	350	400	
HS [m]	84	W [m]	18	-	-	-	9.5	18	25	25	27	27
			24	-	-	-	8	20	•	•	28	27
			30	-	-	-	-	13	20	23	26	26
			36	-	-	-	-	15	29	•	•	•
			42	-	-	-	-	9.9	15	17	20	20
			48	-	-	-	-	15	29	•	•	•
			54	-	-	-	-	11	18	17	17	16
			60	-	-	-	-	25	•	•	•	•
			66	-	-	-	-	•	•	•	•	•
			72	-	-	-	-	29	29	29	29	29
			78	-	-	-	-	24	24	24	24	24
			84	-	-	-	-	19	19	19	19	19
			90	-	-	-	-	15	15	15	15	15
96	-	-	-	-	11	11	11	11	11			
102	-	-	-	-	-	8.1	8.1	8.1	8			

- Hook block weight up to 30t permissible
- Erection not permissible

It may be necessary to use a greater hook block weight than is indicated here. See the load chart manual: Determination of hoist rope reeving and hook block. This heavier hook block must be carried along on the ground during erection / take-down, or the auxiliary weights must be attached after erection and removed before take down.

LWE/12/256-03-02/en

17.05 – 326/509

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LIEBHERR

PROJECT:
 Intel Eagle – LR 1800 Build

LOCATION: Chandler, AZ

BUCKNER CONTACT: Sean Maclam

SeanM@BucknerHeavylift.com

LIFT PLAN BY: Sean Maclam

SeanM@BucknerHeavylift.com

DRAWING NOTES:
 Erection and Takedown – 2

Liebherr LR 1800–1.0

Operating Mode	HSDWBV
Main Boom Length	84m (276'–0")
Luffing Jib Length	84m (276'–0")
Superstructure CTWT	210t (463,000lbs)
Carbody CTWT	70t (154,300lbs)



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LICCON Work Planner

END R2 TL LR 1800-1.0 000000/0000 PDF

T272.028.00172 EN 13000 [ft] [lb]

HSDWBV : HS-276ft D-128ft W-276ftR20 BV

W1 6x 14300lb

154300 lb

881900 lb

463000 lb

29.5ft/s

OK

PROJECT:
Intel Eagle – LR 1800 Build

LOCATION: Chandler, AZ

BUCKNER CONTACT: Sean Maclam
SeanM@BucknerHeavylift.com

LIFT PLAN BY: Sean Maclam
SeanM@BucknerHeavylift.com

DRAWING NOTES:
LICCON Configuration

Liebherr LR 1800–1.0

Operating Mode HSDWBV

Main Boom Length 84m (276'–0")

Luffing Jib Length 84m (276'–0")

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