



Contents	
Sheet	Description
001	Title Page
002	Build Sheet
003	Rod Plan
004	Counterweight Arrangement
005	Hook Blocks
006	Reeving Plan – L Head
007	Reeving Plan – Winch 5
008	Erection & Takedown Chart
009	Load Charts

PROJECT:
LR 11000 SW1 30m + 24m

LOCATION: -----

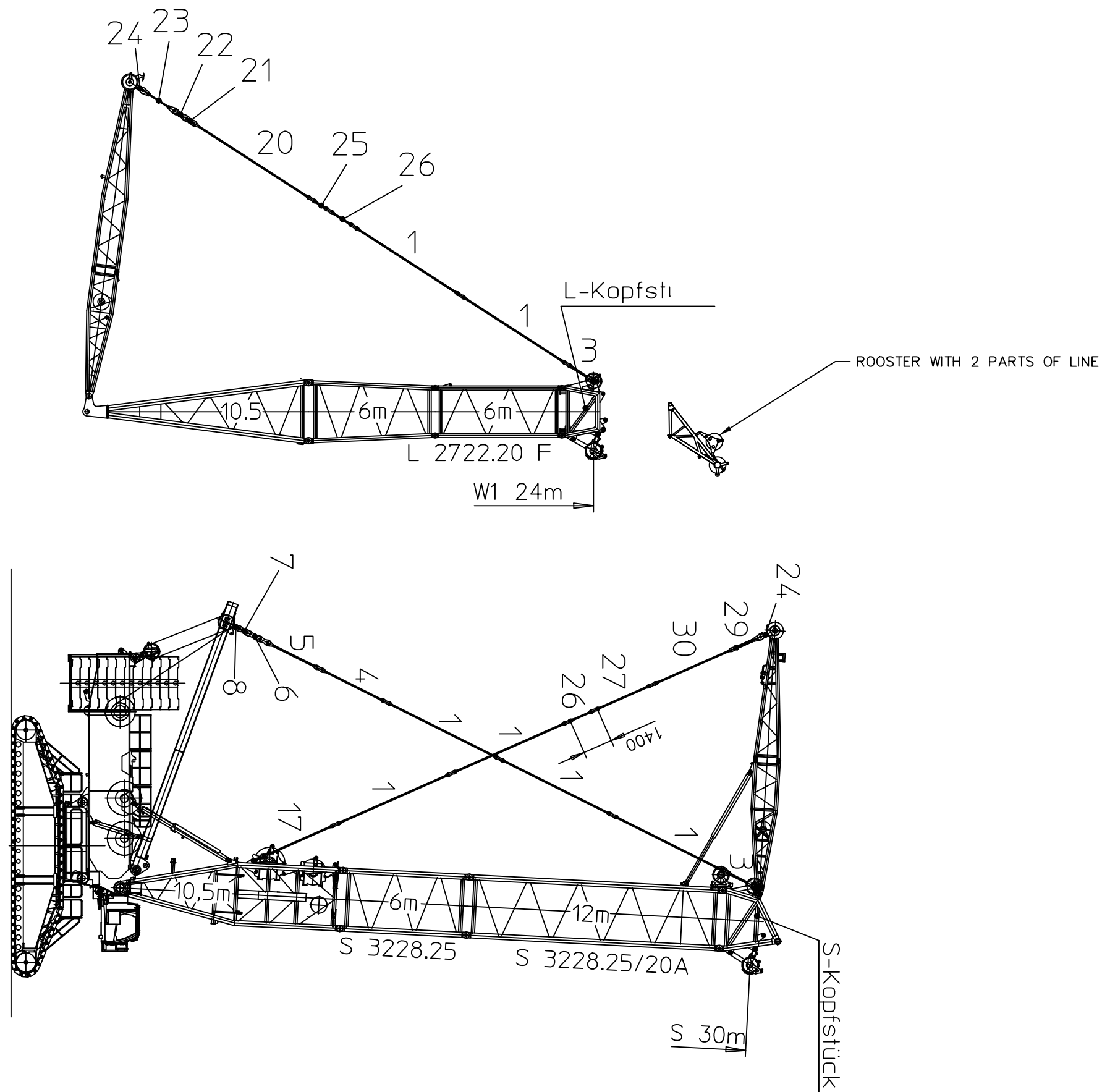
BUCKNER CONTACT: Dallas Snow, P.E.
DallasS@BucknerHeavylift.com

LIFT PLAN BY: Dallas Snow, P.E.
DallasS@BucknerHeavylift.com

DRAWING NOTES:
Title Page

FILE: C:\Users\DallasSnow\OneDrive – Buckner HeavyLift
Cranes\Documents\Documents –
Engineering\Drawings\BHL\Buckner\Build Sheets\LR
11000\LR 11000 – SW1 30m + 24m.dwg
CREATED: 04.24.2025 @ 11:01:13 AM
EDITING TIME: 12h8m FILE SIZE: 3394.28Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 04.24.2025 @ 11:01:13 AM
PLOTTED: 04.24.2025 @ 11:01:17 AM

Revisions		
All Sheets Same Revision Level		
Rev.	Date	Description
000	04.24.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----



PROJECT:
LR 11000 SW1 30m + 24m

LOCATION: -----

BUCKNER CONTACT: Dallas Snow, P.E.
DallasSnow@BucknerHeavyLift.com

LIFT PLAN BY: Dallas Snow, P.E.
DallasSnow@BucknerHeavyLift.com

DRAWING NOTES:
Build Sheet

FILE: C:\Users\DallasSnow\OneDrive - Buckner HeavyLift
Cranes\Documents -
Engineering\Drawings\BHL\Buckner\Build Sheets\LR
11000\LR 11000 - SW1 30m + 24m.dwg
CREATED: 04.24.2025 @ 11:01:13 AM
EDITING TIME: 12h8m FILE SIZE: 3394.28Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 04.24.2025 @ 11:01:13 AM
PLOTTED: 04.24.2025 @ 11:01:18 AM

Revisions		
All Sheets Same Revision Level		
Rev.	Date	Description
000	04.24.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 002 OF 009



Pos. Item	Description		Page
1 967746908	ROD CPL.	6M	
2 967743808	ROD CPL.	12 M	
3 967913408	ROD CPL.	1.35 M	
4 967981008	PULL ROD	3.525M	
5 967846208	PULL ROD	3.3M	
6 917368808	MEASURING PLATE	3000 KN	109
7 967846608	PULL TAB WITH SIGN	0.4M	
8 967845508	DRAW SHACKLE	0.7M	
9 967897608	PULL ROD	3.5M	
17 968490108	ROD CPL.	4.4M	
18 968190108	PULL ROD	2.5M	
19 968190208	PULL ROD	6.005M	
24 968469908	BRACKET CPL.		
25 968489708	ROD CPL.	1M	
26 968489908	ROD CPL.	1.4M	
27 968190008	PULL ROD	3M	
29 968471208	ROCKER		
30 968468008	ROD	3.95 M	
1000 98008634	RODS/ PULL RODS LR 11000	F. SW1	

22.5.2019	098202 (LR 11000)	968997308
LIEBHERR	RODS/ PULL RODS LR 11000 F. SW1	Page: 52

Pos. Item	Description		Page
1 967746908	ROD CPL.	6M	
2 967743808	ROD CPL.	12 M	
3 967913408	ROD CPL.	1.35 M	
9 967897608	PULL ROD	3.5M	
10 967898308	PULL ROD	8.5 M	
20 968502708	ROD CPL.	6.8M	
21 968574008	PULL TAB WITH SIGN	0.4M	
22 917368908	MEASURING PLATE	2500 KN	110
23 968482708	ROCKER		
24 968469908	BRACKET CPL.		
25 968489708	ROD CPL.	1M	
26 968489908	ROD CPL.	1.4M	
27 968190008	PULL ROD	3M	
1000 98007232	RODS/ PULL RODS LR 11000	F. W1	

22.5.2019	098202 (LR 11000)	968787208
LIEBHERR	RODS/ PULL RODS LR 11000 F. W1	Page: 44

PROJECT:
LR 11000 SW1 30m + 24m

LOCATION:	----
BUCKNER CONTACT:	Dallas Snow, P.E. DallasSnow@BucknerHeavylift.com
LIFT PLAN BY:	Dallas Snow, P.E. DallasSnow@BucknerHeavylift.com

DRAWING NOTES:
Rod Plan

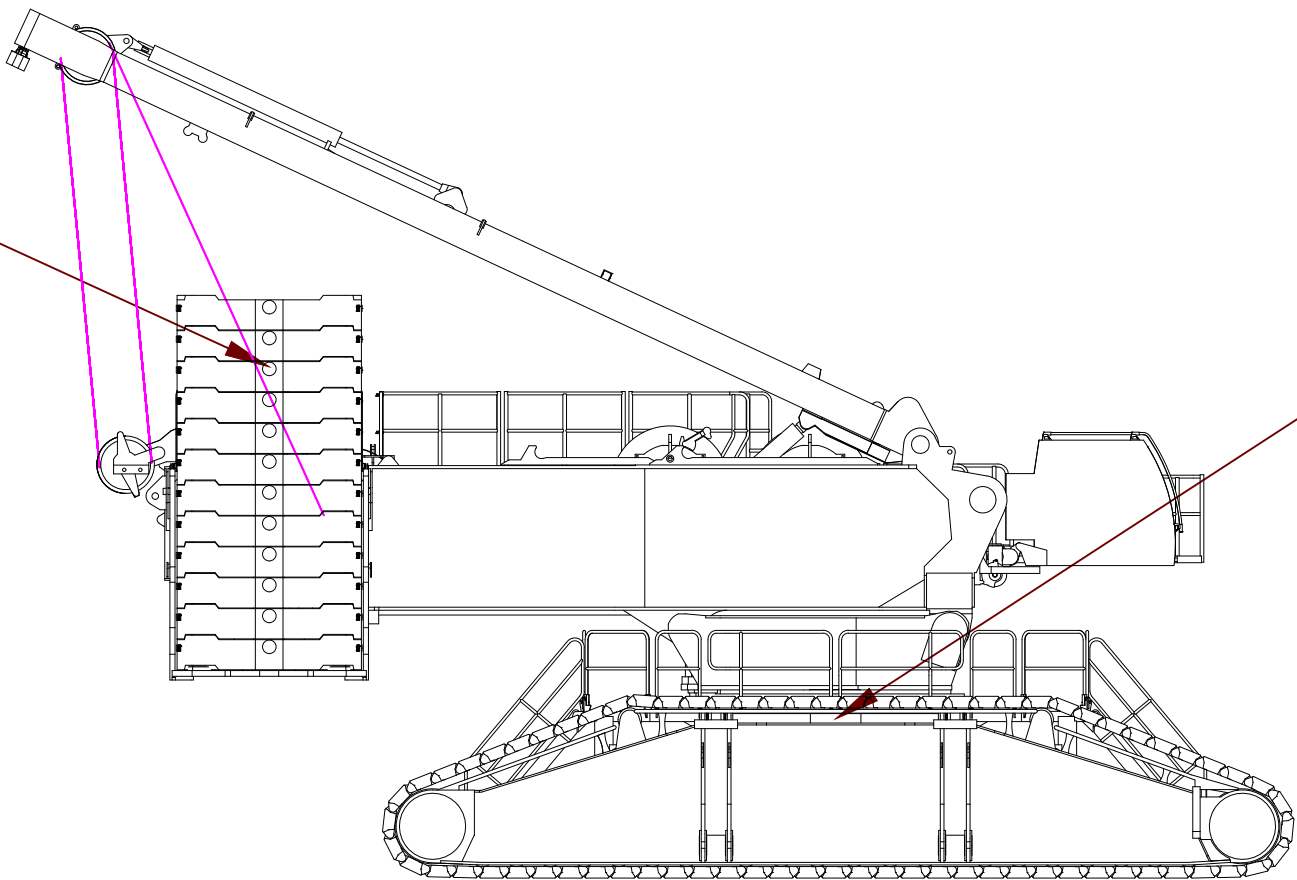
FILE:	C:\Users\DallasSnow\OneDrive – Buckner HeavyLift Cranes\Documents – Engineering\Drawings\BHL\Buckner\Build Sheets\LR 11000 LR 11000 – SW1 30m + 24m (04.24.2025) dwg
CREATED:	04.24.2025 @ 11:01:13 AM
EDITING TIME:	12h8m
FILE SIZE:	3394.28Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
SAVED:	04.24.2025 @ 11:01:13 AM
PLOTTED:	04.24.2025 @ 11:01:18 AM

Revisions		
All Sheets Same Revision Level		
Rev.	Date	Description
000	04.24.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 003 OF 009



Superstructure
190 tonnes
18 slabs
10 ton each



Carbody
90 tonnes
8 slabs
10 ton each

PROJECT:
LR 11000 SW1 30m + 24m
LOCATION: -----
BUCKNER CONTACT: Dallas Snow, P.E.
DallasS@BucknerHeavyLift.com
LIFT PLAN BY: Dallas Snow, P.E.
DallasS@BucknerHeavyLift.com
DRAWING NOTES:
Counterweight Arrangement

FILE: C:\Users\DallasSnow\OneDrive - Buckner HeavyLift
Cranes\Documents -
Engineering\Drawings\BHL\Buckner\Build Sheets\LR
11000\LR 11000 - SW1 30m + 24m.dwg
CREATED: 04.24.2025 @ 11:01:13 AM
EDITING TIME: 12h8m FILE SIZE: 3394.28Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 04.24.2025 @ 11:01:13 AM
PLOTTED: 04.24.2025 @ 11:01:18 AM

Revisions		
All Sheets Same Revision Level		
Rev.	Date	Description
000	04.24.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 004 OF 009



1 Crane operation with 1 hoist rope F = 230 kN and d = 1 1/4” (32 mm) (EST1)

1.1 Auxiliary weights



WARNING
Incorrect assembly and disassembly of the auxiliary weights!
Death, severe bodily injuries, property damage.
► Assemble / disassemble the auxiliary weights according to the operating instructions, see the Crane operating instructions, chapter 5.19.

The net weight of a hook block can be increased using auxiliary weights. The net weight of the auxiliary weights is specified to the side on the respective auxiliary weight.

The following auxiliary weights are possible:

Auxiliary weights		
Net weight	1.0 t	2205 lb

Possible auxiliary weights

1.2 Load hook 25 E (SWL 25 t (55130 lb))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
23.2 t	51200 lb	0	1	1.5 t	3310 lb

Load hook 25 E

1.3 Hook block 80 DM (SWL 80 t (176400 lb))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
68.9 t	152000 lb	1	3	2.5 t	5510 lb

Hook block 80 DM

Hook block with installed auxiliary weights		Net weight	
2 auxiliary weights	4.5 t ¹⁾	9920 lb ¹⁾	

Auxiliary weights

1) Maximum permissible net weight of the hook block.

1.4 Hook block 160 DM (SWL 160 t (352800 lb))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
157.7 t	347600 lb	3	7	2.5 t	5510 lb

Hook block 160 DM

Hook block with installed auxiliary weights	Net weight	
2 auxiliary weights	4.5 t	9920 lb
4 auxiliary weights	6.5 t	14330 lb
6 auxiliary weights	8.5 t ¹⁾	18740 lb ¹⁾

Auxiliary weights

1) Maximum permissible net weight of the hook block.

1.5 Hook block 250 DM (SWL 250 t (551250 lb))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
242.9 t	535600 lb	5	11	3.0 t	6620 lb

Hook block 250 DM

Hook block with installed auxiliary weights		Net weight	
2 auxiliary weights	5.0 t	11030 lb	
4 auxiliary weights	7.0 t	15440 lb	
6 auxiliary weights	9.0 t	19850 lb	
8 auxiliary weights	11.0 t ¹⁾	24260 lb ¹⁾	

Auxiliary weights

1) Maximum permissible net weight of the hook block.

1.6 Double hook block 320 / 160 DM (SWL 160 t (352800 lb))

Load		Rope pulleys	Maximum reeving	Net weight without auxiliary weight	
157.7 t	347600 lb	3	7	3.4 t	7500 lb

Double hook block 320 / 160 DM

Hook block with installed auxiliary weights		Net weight	
2 auxiliary weights	5.4 t	11910 lb	
4 auxiliary weights	7.4 t	16320 lb	
6 auxiliary weights	9.4 t	20730 lb	
8 auxiliary weights	11.4 t ¹⁾	25140 lb ¹⁾	

Auxiliary weights

1) Maximum permissible net weight of the hook block.

1.7 Double hook block 650 / 325 DMZ (SWL 325 t (716630 lb))

There are two versions of this double hook block. Both versions differ in shape and net weight.

PROJECT:
LR 11000 SW1 30m + 24m

LOCATION:	----
BUCKNER CONTACT:	Dallas Snow, P.E. DallasS@BucknerHeavylift.com
LIFT PLAN BY:	Dallas Snow, P.E. DallasS@BucknerHeavylift.com

DRAWING NOTES:
Hook Blocks

FILE:	C:\Users\DallasSnow\OneDrive – Buckner HeavyLift Cranes\Documents – Engineering\Drawings\BHL\Buckner\Build Sheets\LR 11000\LR 11000 – SW1 30m + 24m\04.24.2025\07161592.dwg
CREATED:	04.24.2025 @ 11:01:13 AM
EDITING TIME:	12h8m FILE SIZE: 3394.28Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
SAVED:	04.24.2025 @ 11:01:13 AM
PLOTTED:	04.24.2025 @ 11:01:19 AM

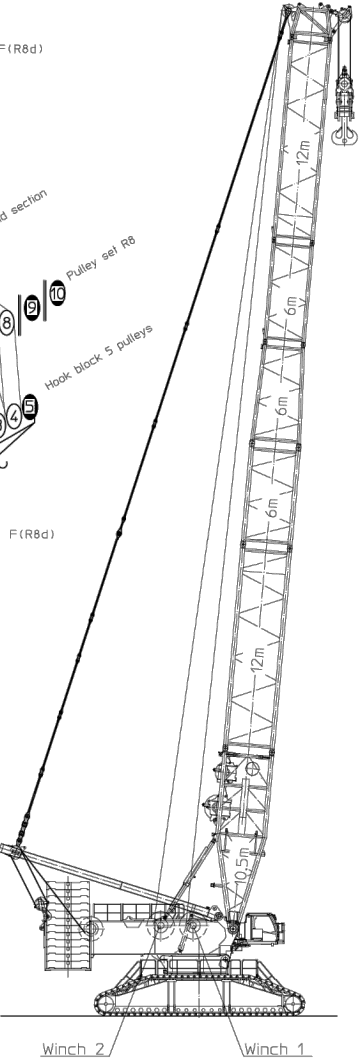
Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	04.24.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 005 OF 009





 = Free pulley

1-way to 21f	11-way to 232f
2-way to 42f	12-way to 253f
3-way to 63f	13-way to 274f
4-way to 84f	14-way to 295f
5-way to 105f	15-way to 316f
6-way to 126f	16-way to 337f
7-way to 147f	17-way to 358f
8-way to 168f	18-way to 379f
9-way to 189f	19-way to 400f
10-way to 211f	

Page 01 from 10

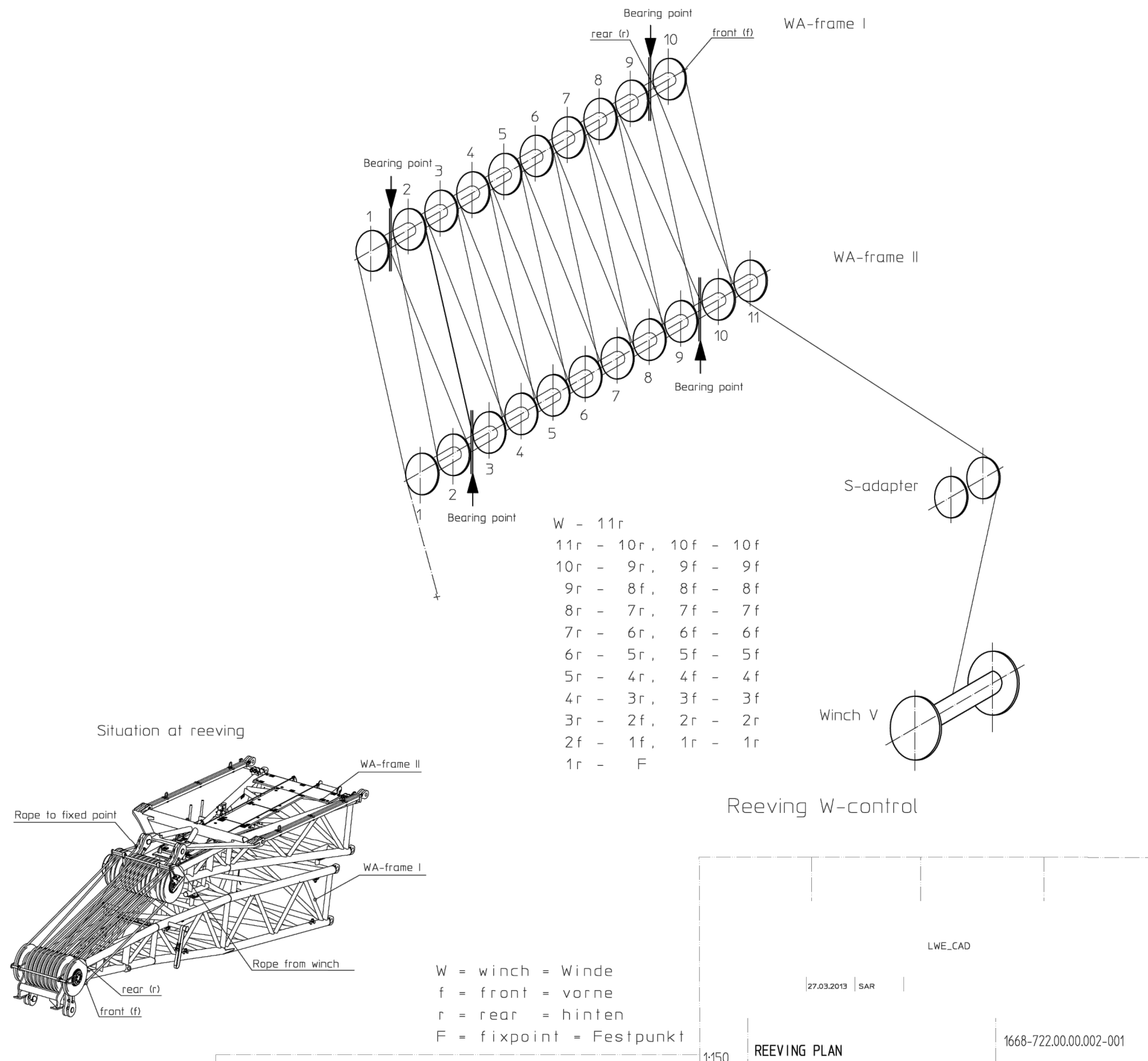
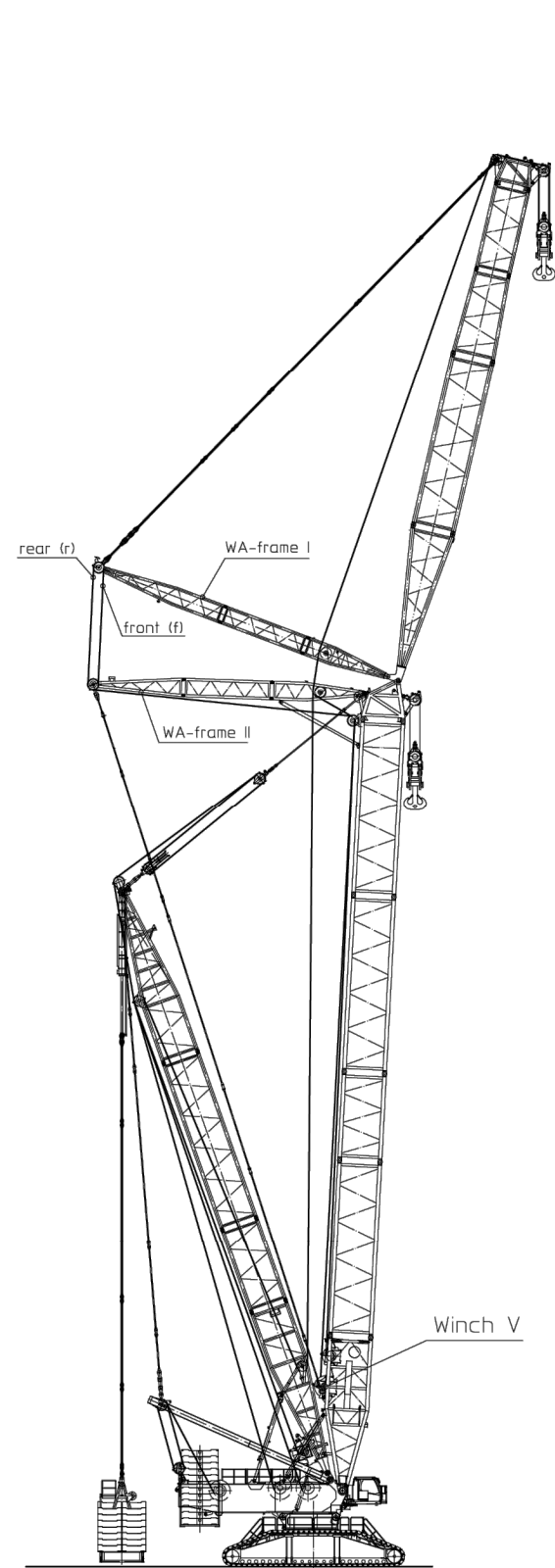
PROJECT:	
LR 11000 SW1 30m + 24m	
LOCATION:	----
BUCKNER CONTACT:	Dallas Snow, P.E. DallasS@BucknerHeavyLift.com
LIFT PLAN BY:	Dallas Snow, P.E. DallasS@BucknerHeavyLift.com

FILE:	C:\Users\DallasSnow\OneDrive - Buckner HeavyLift Cranes\Documents - Engineering\Drawings\BHL\Buckner Build Sheets\LR CREATED: 11:00 AM LR 11000 - SWI 3004.24.2025 (6/16/18) 21.dwg		
EDITING TIME:	12h8m	FILE SIZE:	3394.28Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)		
SAVED:	04.24.2025	@ 11:01:13 AM	
PLOTTED:	04.24.2025	© 11:01:19 AM	

All Sheets Same Revision Level

Rev.	Date	Description
000	04.24.2025	Preliminary Planning & Initial Layout
001	-----	-----
002	-----	-----
003	-----	-----
004	-----	-----
005	-----	-----
006	-----	-----
007	-----	-----
008	-----	-----
009	-----	-----
010	-----	-----

BUCKNER



PROJECT:
LR 11000 SW1 30m + 24m

LOCATION: -----
BUCKNER CONTACT: Dallas Snow, P.E.
DallasS@BucknerHeavyLift.com
LIFT PLAN BY: Dallas Snow, P.E.
DallasS@BucknerHeavyLift.com

DRAWING NOTES:
Reeving Plan - Winch 5

FILE: C:\Users\DallasSnow\OneDrive - Buckner HeavyLift
Cranes\Documents -
Engineering\Drawings\BHL\Buckner\Build Sheets\LR
11000\LR 11000 - SW1 30m + 24m\07101618.dwg
CREATED: 04.24.2025 @ 11:01:13 AM
EDITING TIME: 12h8m FILE SIZE: 3394.28Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 04.24.2025 @ 11:01:13 AM
PLOTTED: 04.24.2025 @ 11:01:20 AM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	04.24.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 007 OF 009

BUCKNER
HEAVYLIFT CRANES

SW1-operation, without auxiliary support

aat_235_007_00002_00_000

S-boom: S-end section without pulley set
W-boom: L-end section with pulley set R 12

Page: 2 of 7

System: S 3228.40/25/20/16
L 2722.20/16

On crawlers 9.6m x 9.2m x 1.5m
Wind: maximum 9 m/s

SW1 without auxiliary support				Permissible weight [t] of hook block on W-boom			
				for turntable ballast [t] / central ballast [t]			
				250/ 90	230/ 90	210/ 90	190/ 90
S [m]	30	W [m]	18	•	•	•	•
			24	•	•	•	•
			30	•	•	•	•
			36	•	•	•	•
			42	•	•	•	•
			48	•	•	•	•
			54	•	•	•	39
			60	•	39	35	31
			66	34	30	27	24
			72	27	24	21	17
			78	20	17	14	11
			84	14	12	9.6	6.9

- Hook block weight up to 40t permissible
- Erection not permissible

LWE/23550-16-02/en

SW1-operation, with auxiliary support

aat_235_007_00001_00_000

S-boom: S-end section without pulley set
W-boom: L-end section with pulley set R 12

Page: 2 of 7

System: S 3228.40/25/20/16
L 2722.20/16

With auxiliary support to the side
Wind: maximum 9 m/s

SW1 with auxiliary support (to the side)				Permissible weight [t] of hook block on W-boom			
				for turntable ballast [t] / central ballast [t]			
				250/ 90	230/ 90	210/ 90	190/ 90
S [m]	30	W [m]	18	•	•	•	•
			24	•	•	•	•
			30	•	•	•	•
			36	•	•	•	•
			42	•	•	•	•
			48	•	•	•	•
			54	•	•	•	•
			60	•	•	•	•
			66	36	36	36	36
			72	31	31	31	31
			78	25	25	25	25
			84	20	20	20	20

- Hook block weight up to 40t permissible
- Erection not permissible

LWE/23550-16-02/en

PROJECT:
LR 11000 SW1 30m + 24m

LOCATION:	----
BUCKNER CONTACT:	Dallas Snow, P.E. DallasS@BucknerHeavyLift.com
LIFT PLAN BY:	Dallas Snow, P.E. DallasS@BucknerHeavyLift.com

DRAWING NOTES:
Erection & Takedown Chart

FILE:	C:\Users\DallasSnow\OneDrive – Buckner HeavyLift Cranes\Documents – Engineering\Drawings\BHL\Buckner\Build Sheets\LR 11000\LR 11000 – SW1 30m + 24m.dwg
CREATED:	04.24.2025 @ 11:01:13 AM
EDITING TIME:	12h8m
FILE SIZE:	3394.28Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
SAVED:	04.24.2025 @ 11:01:13 AM
PLOTTED:	04.24.2025 @ 11:01:21 AM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	04.24.2025	Preliminary Planning & Initial Layout
001	----	----
002	----	----
003	----	----
004	----	----
005	----	----
006	----	----
007	----	----
008	----	----
009	----	----
010	----	----

SHEET: 008 OF 009

BUCKNER
HEAVYLIFT CRANES

LR 11000 -- 098200

T235.007.01022

EN 13000



 631, 610

[illegible]

T_235_007_01022_00_000

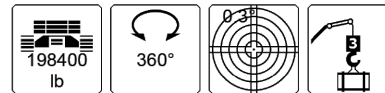
71 / 595

3 (4)

LR 11000 -- 098200

T235.007.01022

EN 13000



 631, 610

[illegible]

T_235_007_01022_00_000

72 / 595

4 (4)

PROJECT:	LR 11000 SW1 30m + 24m
----------	------------------------

LOCATION: _____

BUCKNER CONTACT: Dallas Snow, P.E.
DallasS@BucknerHeavyLift.com

LIFT PLAN BY: Dallas Snow, P.E.
DallasSOBucknerHeavyLift.com

DRAWING NOTES:

Load Charts

FILE: C:\Users\DallasSnow\OneDrive - Buckner HeavyLift
Cranes\Documents -
Engineering\Drawings\BHL\Buckner\Build Sheets\LR

CREATED: 11000 \ LR 11000 - SW1 30m 04.24.2025 (97' 16.1892") d.mg

EDITING TIME:	12h8m	FILE SIZE:	3394.28Kb
---------------	-------	------------	-----------

PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
-------------	-------------------------------

SAVED: 04.24.2025 @ 11:01:13 AM

PLOTTED: 04.24.2025 @ 11:01:22 AM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	04.24.2025	Preliminary Planning & Initial Layout
001	-----	-----
002	-----	-----
003	-----	-----
004	-----	-----
005	-----	-----
006	-----	-----
007	-----	-----
008	-----	-----
009	-----	-----
010	-----	-----

SHEET: 009 OF 009

BUCKNER
HEAVYLIFT CRANES