

BUCKNER

HEAVYLIFT CRANES

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PROJECT:
LR11000 SL3F 114m+12m

LOCATION: -----

BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerCompanies.com

LIFT PLAN BY: Dan Ives, PE
Dani@BucknerCompanies.com

DRAWING NOTES:
Title Page

FILE: C:\Users\Dan Ives\OneDrive - Buckner Heavylift
Cranes\Engineering\Drawings\BHL\Buckner\Build
Sheets\LR 11000\LR 11000 - SL3F 114m + 12m

CREATED: (374' + 39') - 08.29.2024 5:12:25 PM

EDITING TIME: 2h47m FILE SIZE: 4215.78Kb

PAPER SIZE: ANSI B (17.00 x 11.00 Inches)

SAVED: 08.29.2024 @ 12:15:19 PM

PLOTTED: 08.29.2024 @ 12:15:22 PM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	08.29.2024	Preliminary Planning & Initial Layout
001	----	----
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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	19
7 967846608	PULL TAB WITH SIGN	0.4M	
8 967845508	DRAW SHACKLE	0.7M	
9 967897608	PULL ROD	3.5M	
10 967898308	PULL ROD	8.5 M	
18 968190108	PULL ROD	2.5M	
19 968190208	PULL ROD	6.005M	
31 968691108	BRACKET COMPL.		
32 968691308	ROCKER WELDED		
33 968691508	ROCKER WELDED		
34 968691608	PULL ROD	4.05 M	
35 968446808	PULL ROD	5.6 M	
36 968460108	PULL ROD	4.05M	
37 968643708	BRACKET COMPL.	1.25 M	
38 968459808	PULL ROD	5.25 M	
39 968642008	PULL ROD	5.75M	
41 968768408	BRACKET COMPL.		
44 968768308	CROSS CONNECTING LINK WELDED		
45 97047031	CHAIN	1507	
47 968766608	CROSS SHACKLE CPL.		
48 968766808	BRACKET COMPL.		
49 97047327	ADDITIONAL GUY ROPE	40MM 2.24M	
1000 98008717	RODS/ PULL RODS LR 11000	F. SL3F	

Pos. Item	Description		Page
58 968724508	BRACKET COMPL.		
59 968828308	CONNECTING LINK PRE-ASS.		
60 917574408	MEASURING PLATE	800 KN	25
61 97067610	FIBRE TENSIONING ROPE	48X10.75M	
62 97067609	FIBRE TENSIONING ROPE	48X5.25M	
63 968828908	PULL ROD	2.65 M	
64 968829408	PULL ROD	0.8 M	
65 97067602	FIBRE TENSIONING ROPE	48X12.45M	
66 968691208	BRACKET COMPL.		
75 96001458	BRACKET COMPL.		
1000 98009396	RODS/ PULL RODS LR 11000	F. F	

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DRAWING NOTES:
Rod Plan

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CREATED: (374' + 39') - 08.29.2024 5:12:25 PM
EDITING TIME: 2h47m FILE SIZE: 4215.78Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 08.29.2024 @ 12:15:19 PM
PLOTTED: 08.29.2024 @ 12:15:23 PM

Revisions

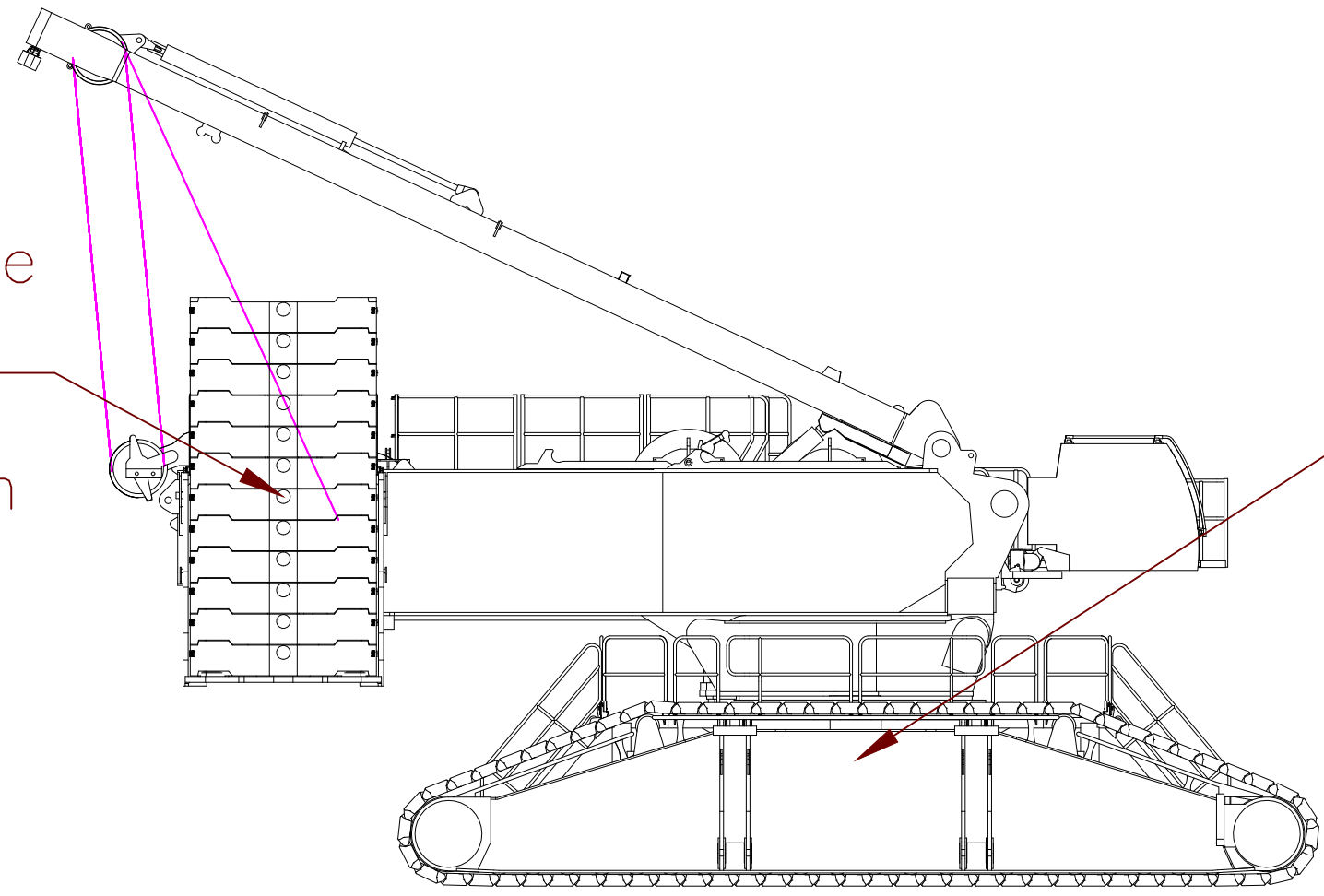
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SHEET: 003 OF 009



Superstructure
 250 tonnes
 24 rocks
 10 tons each



Carbody
 50 tonnes
 4 rocks
 10 tons each

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 LOCATION: -----
 BUCKNER CONTACT: Dan Ives, PE
 Dani@BucknerCompanies.com
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DRAWING NOTES:
 Counterweight Arrangement

FILE: C:\Users\Dan Ives\OneDrive - Buckner Heavylift
 Cranes\Engineering\Drawings\BHL\Buckner\Build
 Sheets\LR 11000\LR 11000 - SL3F 114m + 12m
 (374' + 39') - 08.29.2024 50t12:12505.dwg
 CREATED: 08.29.2024 @ 12:12:50 PM
 EDITING TIME: 2h47m FILE SIZE: 4215.78Kb
 PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
 SAVED: 08.29.2024 @ 12:15:19 PM
 PLOTTED: 08.29.2024 @ 12:15:24 PM

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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

LWE/423601-18-02/en

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.

LWE/423601-18-02/en

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 LIFT PLAN BY: Dan Ives, PE
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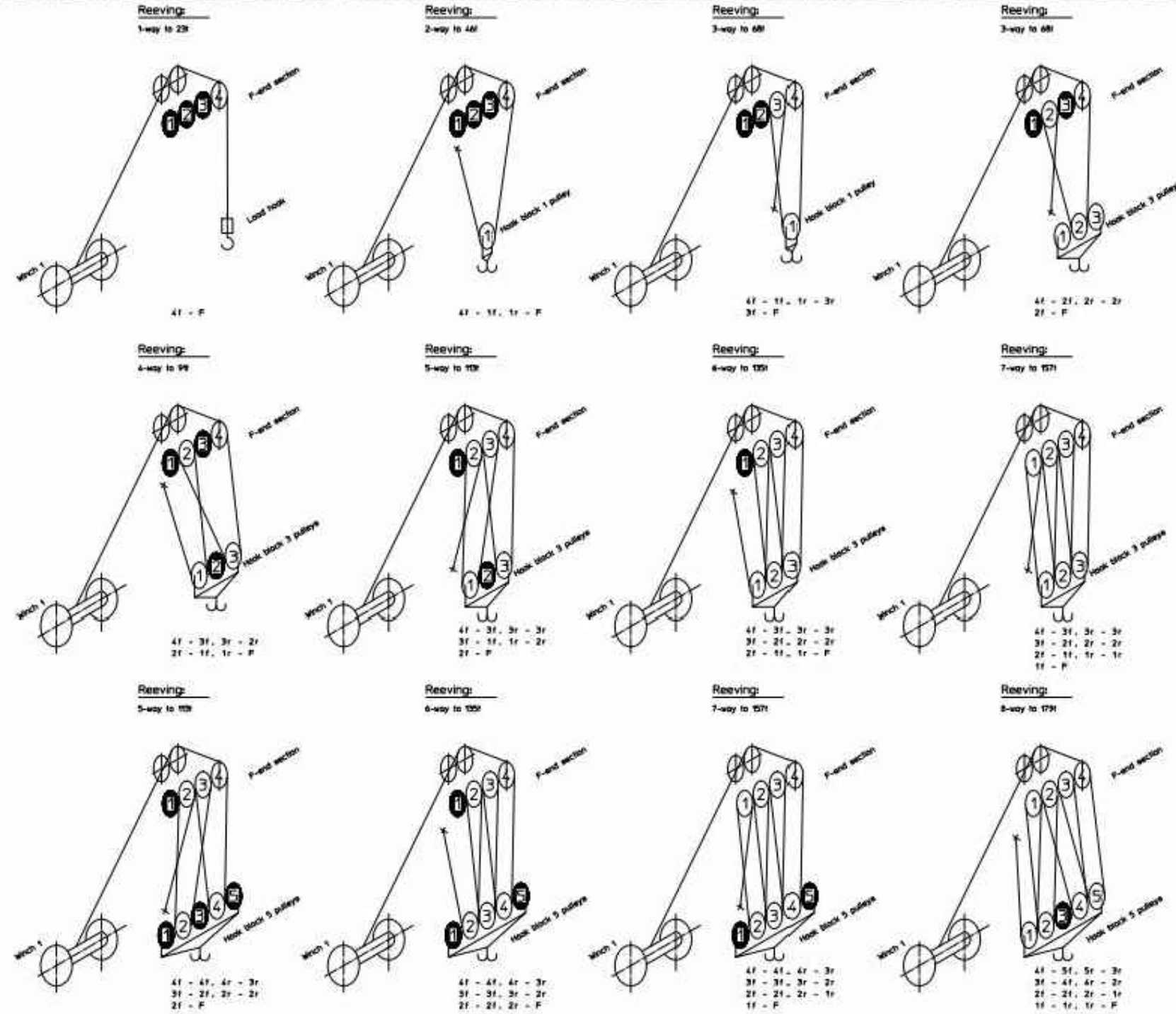
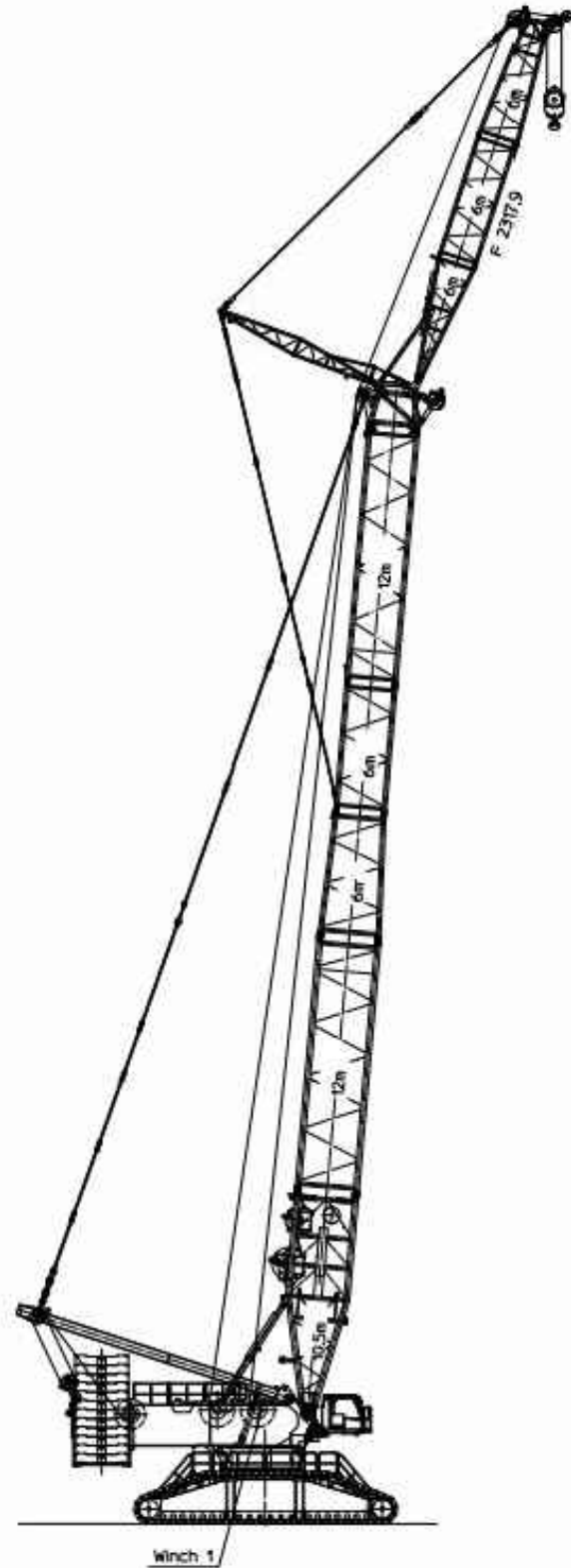
DRAWING NOTES:
 Hook Blocks

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 Cranes\Engineering\Drawings\BHL\Buckner\Build
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 (374' + 39') - 08.29.2024 50t12.12505.dwg
 CREATED: 08.29.2024 12:12:50 PM
 EDITING TIME: 2h47m | FILE SIZE: 4215.78Kb
 PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
 SAVED: 08.29.2024 @ 12:15:19 PM
 PLOTTED: 08.29.2024 @ 12:15:24 PM

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F = Flapoint = Festpunkt
f = front = vorne
r = rear = hinten

For the US, restricted load capacities apply for the following reeving.

- | | |
|--------------|---------------|
| 1-way to 21t | 5-way to 105t |
| 2-way to 42t | 6-way to 126t |
| 3-way to 63t | 7-way to 147t |
| 4-way to 84t | 8-way to 168t |

Reeving F-end section with load hook
Hook block 1 pulley
Hook block 3 pulleys
Hook block 5 pulleys

Project No.	1100	Revision	006
Project Name	LR 11000 SL3F 114m+12m	Scale	1:1
Client	Buckner Heavylift	Drawn by	Dani Ives
Checked by		Checked by	
Approved by		Approved by	
Date	08.29.2024	Time	12:15:19 PM
REEVING PLAN		F-END SECTION	
A0		BUCKNER HEAVYLIFT CRANES	
168-722.00.001-002		9801 0043	

PROJECT:
LR11000 SL3F 114m+12m

LOCATION: -----
BUCKNER CONTACT: Dan Ives, PE
Dani@BucknerCompanies.com
LIFT PLAN BY: Dan Ives, PE
Dani@BucknerCompanies.com

DRAWING NOTES:
Reeving Plan

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EDITING TIME: 2h47m FILE SIZE: 4215.78Kb
PAPER SIZE: ANSI B (17.00 x 11.00 Inches)
SAVED: 08.29.2024 @ 12:15:19 PM
PLOTTED: 08.29.2024 @ 12:15:25 PM

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**SL3F operation, with auxiliary support
F-connector head**

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Page: 1 of 5

On crawlers 9.6m x 9.2m x 1.5m
Wind: maximum 12.8m/s
Ground slope: maximum 0.3°

System: S 3228.40/25/20/16
L 2722.20/16
F 2317.8.8

Operation with boom nose: Operation with boom nose is possible from a "permissible weight of hook block on main boom" of 3.5t. In that case, the value in the chart is the sum of the weights of the hook blocks on the main boom and the boom nose as well as the weight of the boom nose (1t) (incl. hoist rope).

SL3 with F12 with auxiliary support (to the side)		Permissible weight [t] of the hook block on the F-boom													
		for turntable / central ballast [t]													
		250	250	230	210	190	250	230	210	190	170	150	170	150	130
		/	/	/	/	/	/	/	/	/	/	/	/	/	/
		130	90	90	90	90	50	50	50	50	50	10	10	10	10
Main boom length [m]	SL3-102	9.9	9.7	8.3	5.6	2.8	8.2	5.4	2.6	-	-	-	-	-	-
	SL3-108	6.3	6	4.9	2.2*	-	4.7	2.0*	-	-	-	-	-	-	-
	SL3-114	3.7	3.3	2.2*	-	-	2.0*	-	-	-	-	-	-	-	-
	SL3-120	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Hook block weight to maximum 20t permissible
- Erection not permissible
- * For the maximum load capacity and / or for spooling out the hoist rope a higher hook block weight is required. For that reason, the 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/23550-10-02/en

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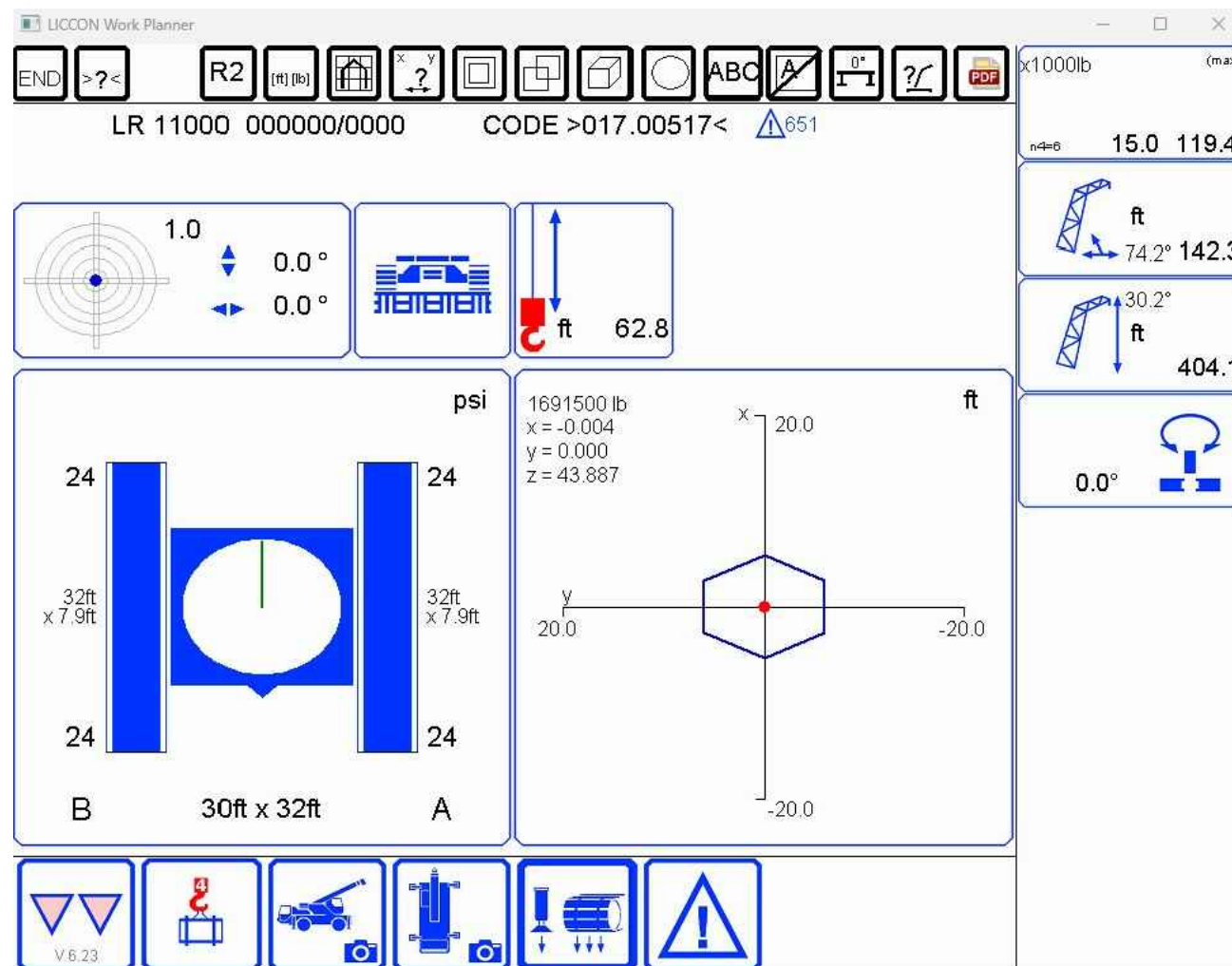
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(374' + 39') - 08.29.2024 5:12:25.dwg
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SAVED: 08.29.2024 @ 12:15:19 PM
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BUCKNER
HEAVYLIFT CRANES

2.4m Track Pads



NOTE: These track pressures are based on the crane being perfectly balanced and perfectly level. Inclinations during travel will increase the track pressures from what is shown here.

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DRAWING NOTES:
Balanced Boom

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CREATED: 08.29.2024 @ 12:15:19 PM

EDITING TIME: 2h47m FILE SIZE: 4215.78Kb

PAPER SIZE: ANSI B (17.00 x 11.00 Inches)

SAVED: 08.29.2024 @ 12:15:19 PM

PLOTTED: 08.29.2024 @ 12:15:26 PM

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