BUCKNER
HEAVYLIFT CRANES

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012	Erection and Takedown
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PROJECT:
LR1600 SL3F 90m+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 1600\LR 1600 – SL3F 90m + 12m (295' 3") .dwg
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PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
SAVED:	08.29.2024 @ 6:22:59 AM
PLOTTED:	08.29.2024 @ 6:23:02 AM

Revisions

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001	08.29.2024	Minor Update
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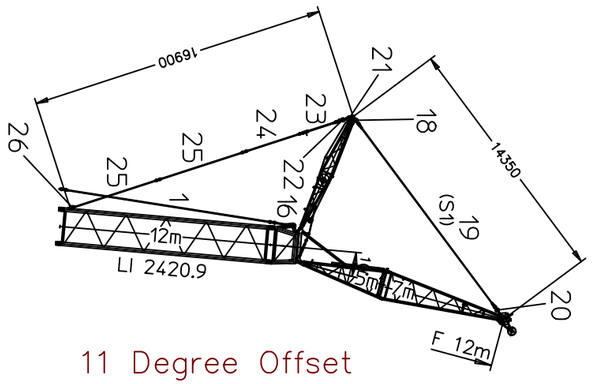
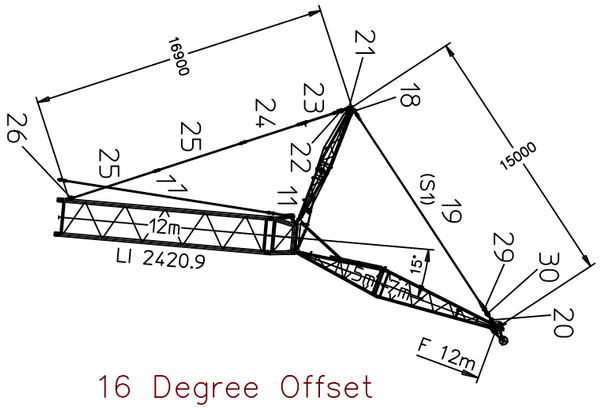
SHEET: 001 OF 014

BUCKNER HEAVYLIFT CRANES



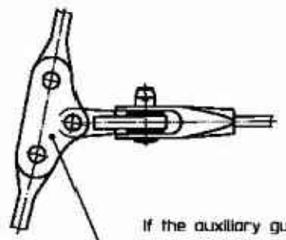
11 Degree Offset



16 Degree Offset

Detail X

M 1:10

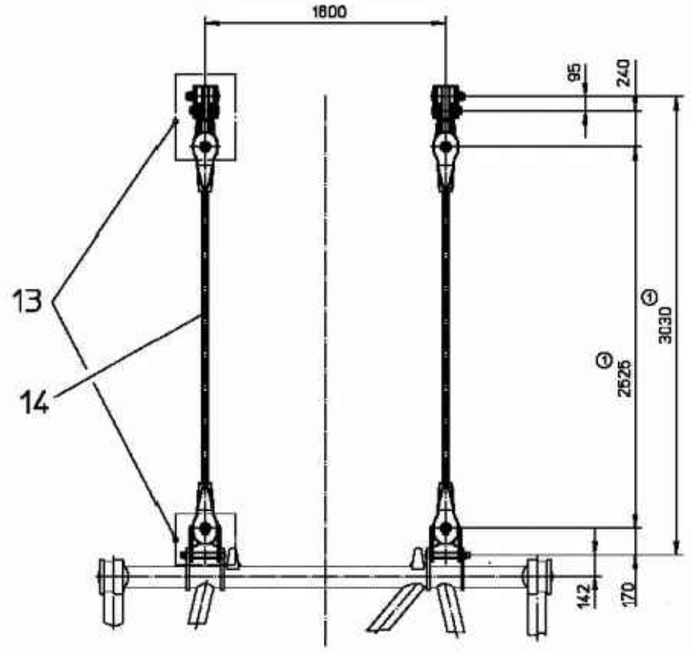


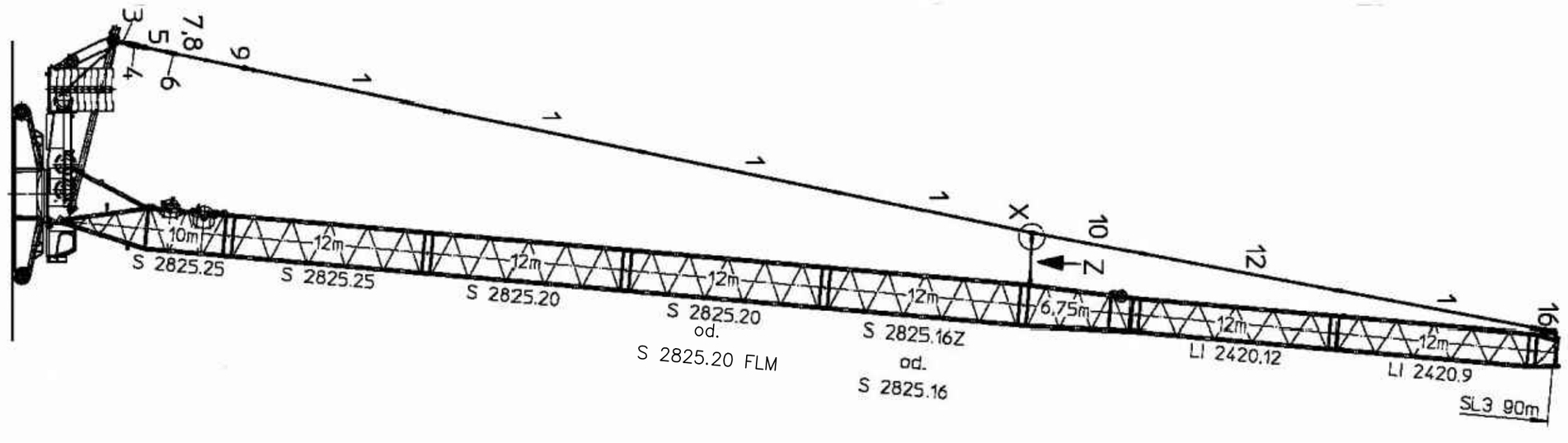
If the auxiliary guying is required, the normal bracket at this point must be replaced by the pos. 1 bracket, which is assigned to the auxiliary guying 1666-830 bracket component.

View Z

M 1:20

For auxiliary guying
SL3 78m, SL3 81m, SL3 84m,
SL3 87m, SL3 90m and SL3 93m





PROJECT:
LR1600 SL3F 90m+12m

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

DRAWING NOTES:
Build Sheet

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BUCKNER HEAVYLIFT CRANES

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2	964344008	ROD CPL.	6 M	
3	964545608	ROD CPL.	1 M	
4	10354696	TENSION DYNAMOMETER	0-2400KN	
5	964568008	ROD CPL.	2.05M	
6	964700008	BRACKET WITH BOARD	0.25M	
7	964699808	ROD WITH BOARD	1.85M	
8	964699908	ROD WITH BOARD	1.85M	
9	964698608	ROD CPL.	2.975M	
10	964867908	ROD CPL.	6.75M	
12	965049808	ROD CPL.	12 M	
13	915553508	SUPPLEMENTARY GUYING DEVICE	LASCHEN	16
14	915553708	SUPPLEMENTARY GUYING DEVICE	3M	20
15	915553608	SUPPLEMENTARY GUYING DEVICE	2M	18
16	966188608	ROD		
17	964798408	ROD CPL.	3 M	
1000	986199008	RODS/ PULL RODS LR 1600-2	F. SL3	

PROJECT:

LR1600 SL3F 90m+12m

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

DRAWING NOTES:

Rod Plan Table – Main Boom

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BUCKNER HEAVYLIFT CRANES

25.1.2018

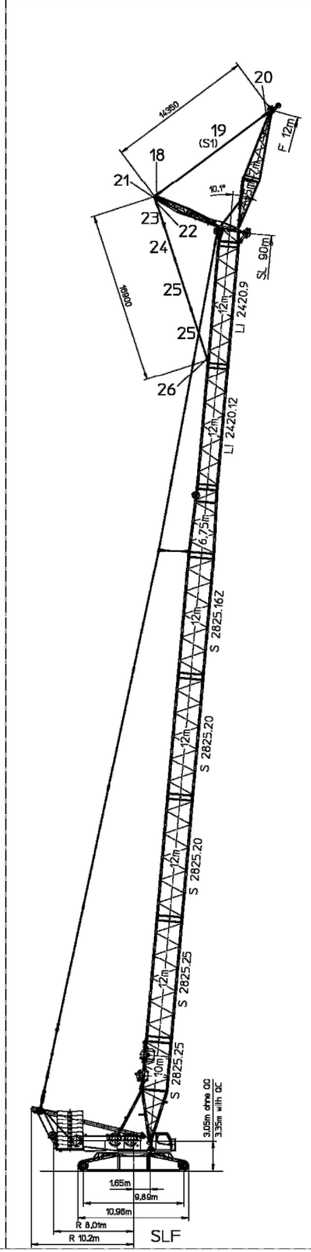
LIEBHERR

074571 (LR 1600/2)

RODS/ PULL RODS LR 1600-2 F. F

965097708

Page: 12



Two 3 m intermediate sections (with the same strength) can be replaced by one 6 m intermediate section (with the same strength) and two 6 m intermediate sections (with the same strength) can be replaced by one 12 m intermediate section (with the same strength).

Fixed jib 10°

Page 01 from 02

965097708

Static Inspected:		Date	Name
	Administrator		
	Dep. manager		
Comment:			

1:150

RODS LR 1600-2
F. F

1666-560.00.10.000-000

9862 537 08

PROJECT:
LR1600 SL3F 90m+12m

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

DRAWING NOTES:
Rod Plan 1 – F Jib Without Load Cells

FILE:	C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 – SL3F 90m + 12m (295'		
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PLOTTED:	08.29.2024 @ 6:23:04 AM		

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SHEET: 004 OF 014

BUCKNER HEAVYLIFT CRANES

25.1.2018

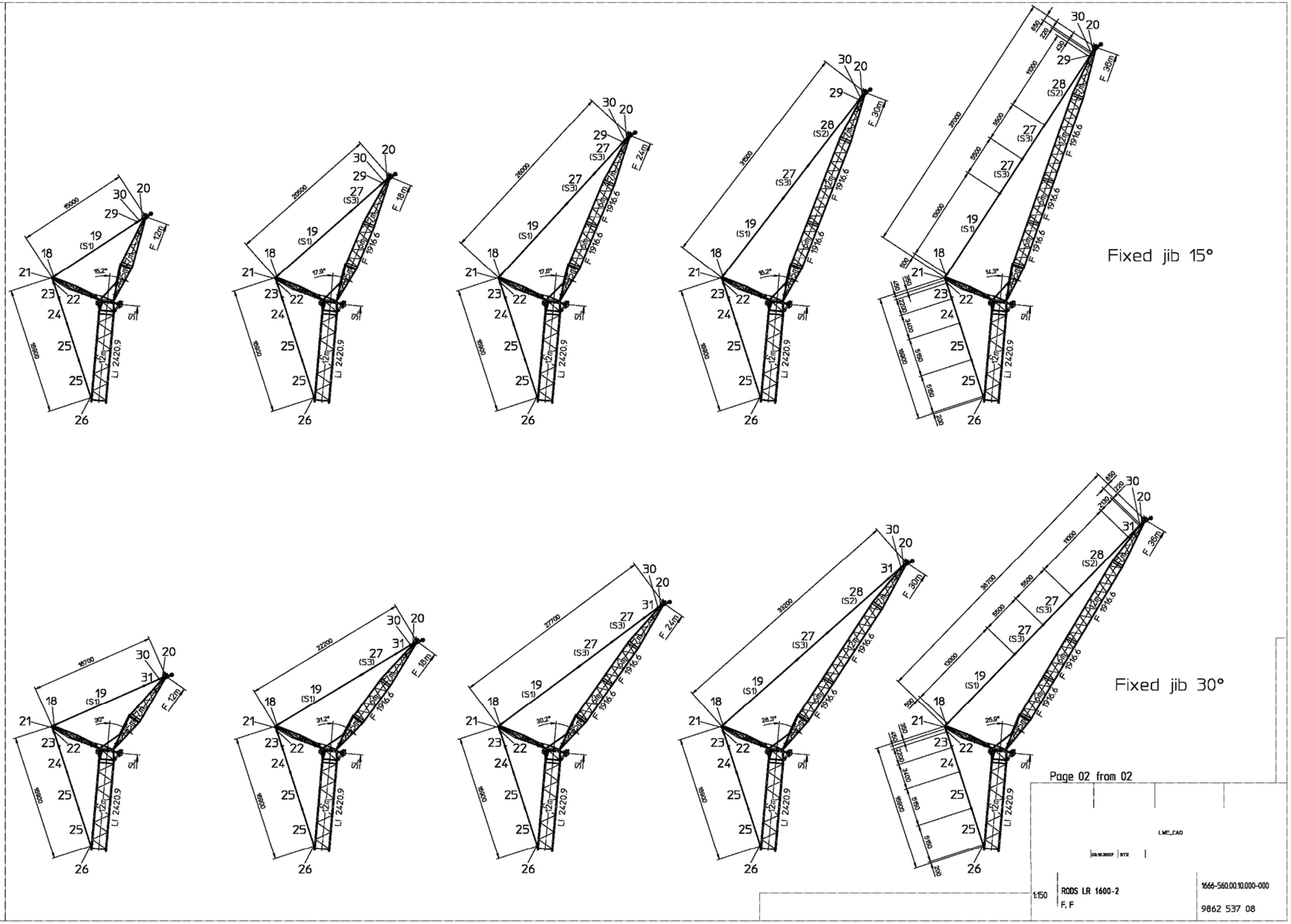
LIEBHERR

074571 (LR 1600/2)

RODS/ PULL RODS LR 1600-2 F. F

965097708

Page: 13



PROJECT:

LR1600 SL3F 90m+12m

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

DRAWING NOTES:

Rod Plan 2 – F Jib Without Load Cells

FILE:	C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 – SL3F 90m + 12m (295' 6961).dwg
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BUCKNER HEAVYLIFT CRANES

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PROJECT:
LR1600 SL3F 90m+12m

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

DRAWING NOTES:
Rod Plan Table – F Jib
Winout Load Cells

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BUCKNER HEAVYLIFT CRANES

29.8.2016

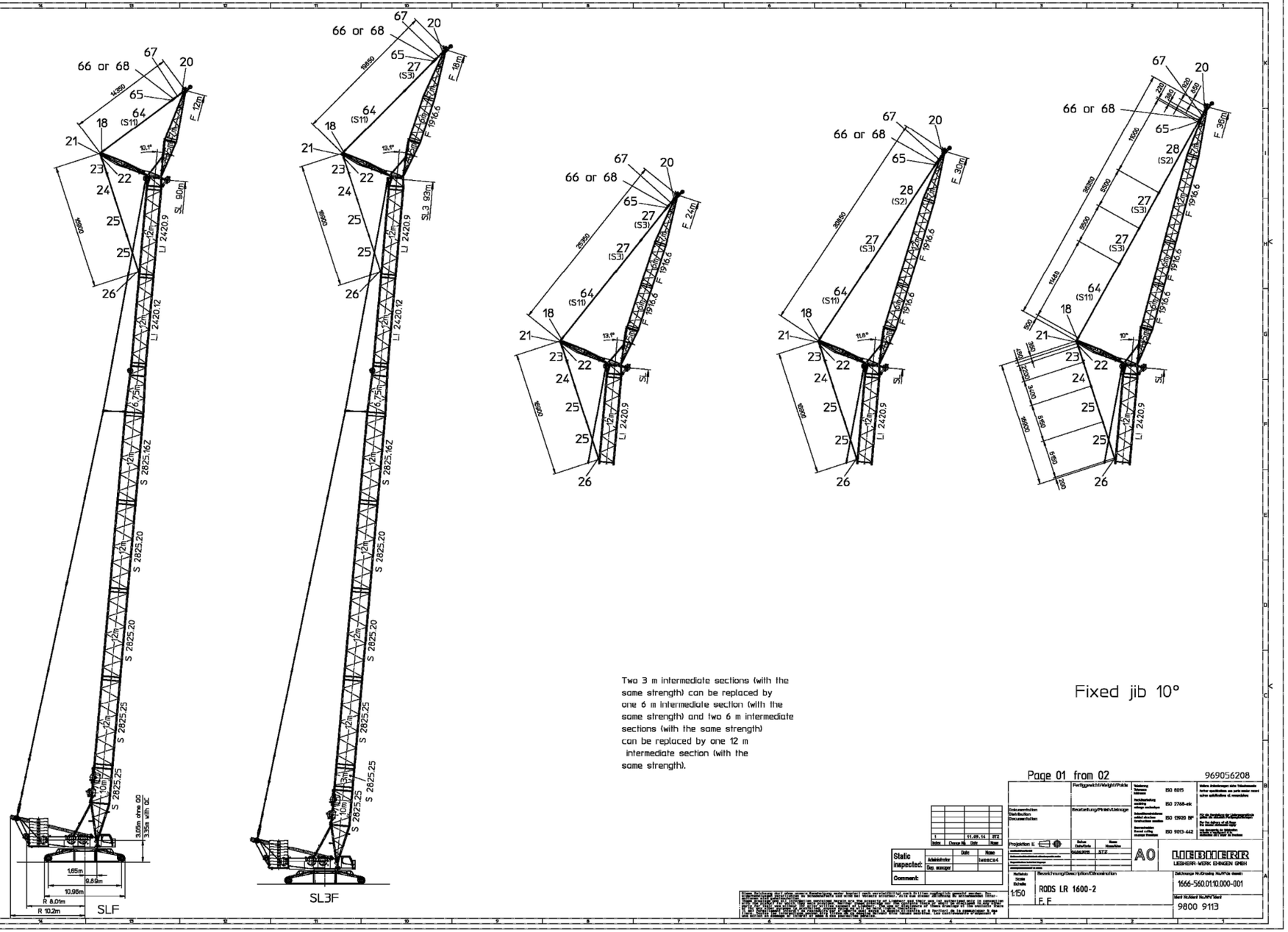
LIEBHERR

LR 1600/2 (097922)

RODS/ PULL RODS LR 1600-2 F. F

969056208

Page: 75



Two 3 m intermediate sections (with the same strength) can be replaced by one 6 m intermediate section (with the same strength) and two 6 m intermediate sections (with the same strength) can be replaced by one 12 m intermediate section (with the same strength).

Fixed jib 10°

Page 01 from 02

969056208

Static inspected:	Date	Name
Administrator		liebher4
Dep. manager		
Comment:		

Rev.	Date	Name
1	11.09.14	STZ

Projection: E

A0

LIEBHERR
LIEBHERR-WERK EHINGEN GMBH

Scale: 1:150

Description: RODS LR 1600-2 F. F

Drawing No.: 1666-560.01.10.000-001

Item No.: 9800 9113

PROJECT:	LR1600 SL3F 90m+12m
LOCATION:	----
BUCKNER CONTACT:	Dan Ives, PE Dani@BucknerHeavylift.com
LIFT PLAN BY:	Dan Ives, PE Dani@BucknerHeavylift.com

DRAWING NOTES:
Rod Plan 3 – F Jib With Load Cells

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BUCKNER HEAVYLIFT CRANES

29.8.2016

LIEBHERR

LR 1600/2 (097922)

RODS/ PULL RODS LR 1600-2 F. F

969056208

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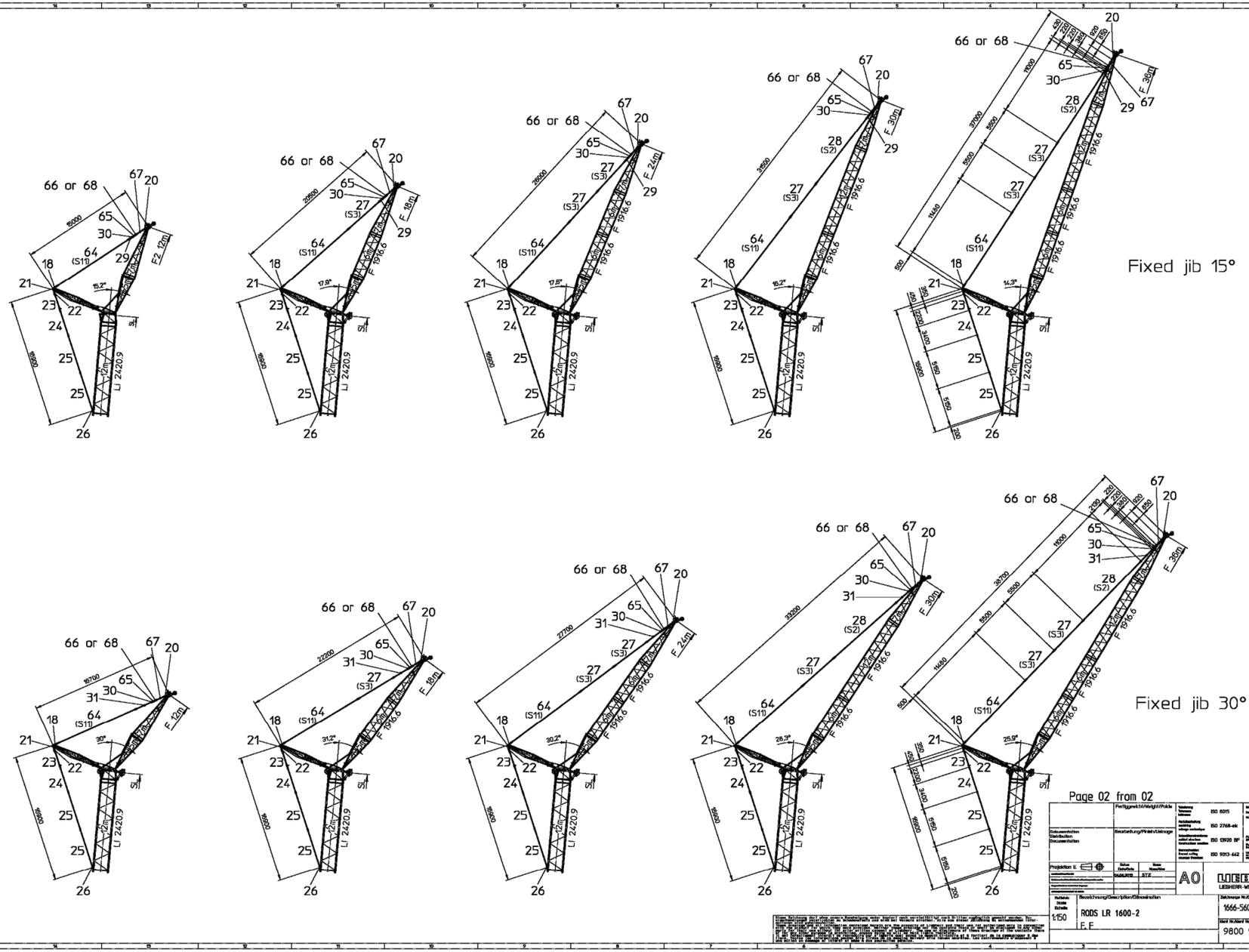

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	Bearbeitung/Finish/Usinage	ISO 2768-mK	LIEBHERR LIEBHERR-WERK EHINGEN GMBH
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			Ident-Nr./Ident No./N° d'ident: 9800 9113

PROJECT:	LR1600 SL3F 90m+12m
LOCATION:	----
BUCKNER CONTACT:	Dan Ives, PE Dani@BucknerHeavylift.com
LIFT PLAN BY:	Dan Ives, PE Dani@BucknerHeavylift.com
DRAWING NOTES:	Rod Plan 4 – F Jib With Load Cells

FILE:	C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 – SL3F 90m + 12m (295'		
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BUCKNER HEAVYLIFT CRANES

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23	964724108	ROCKER WELDED		
24	964528808	ROD CPL.	3.2M	
25	964825908	ROD CPL.	5.15M	
26	964826108	BRACKET COMPL.		
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PROJECT:
LR1600 SL3F 90m+12m

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

DRAWING NOTES:
Rod Plan Table – F Jib With Load Cells

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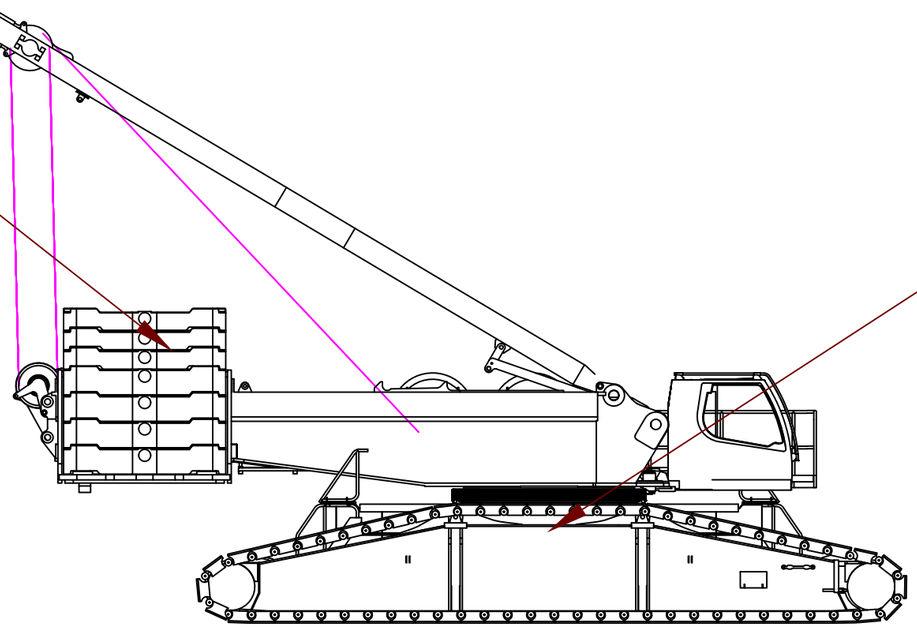
BUCKNER HEAVYLIFT CRANES

Superstructure
190 tonnes
18 slabs
10 ton each



Carbody
65 tonnes
6 slabs
10 ton each

PROJECT:
LR1600 SL3F 90m+12m

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

DRAWING NOTES:
Counterweight Arrangement

FILE:	C:\Users\Dan Ives\OneDrive - Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 - SL3F 90m + 12m (295' 6897.dwg
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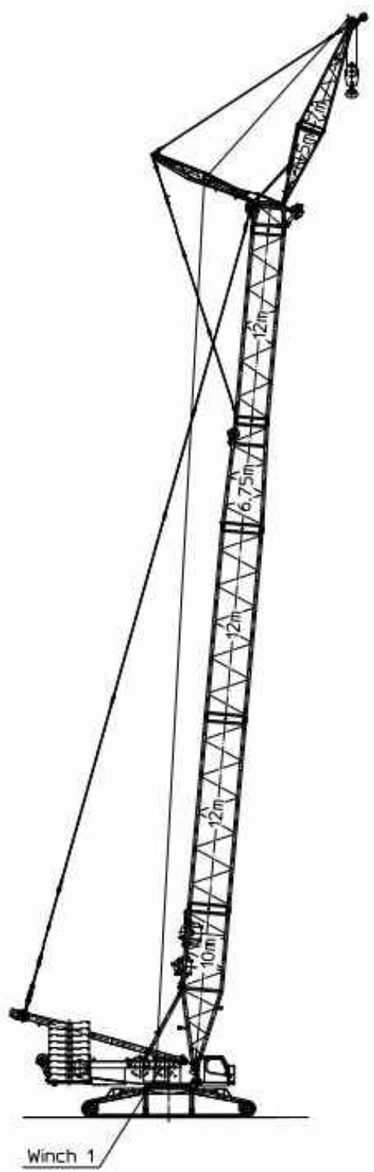
BUCKNER HEAVYLIFT CRANES



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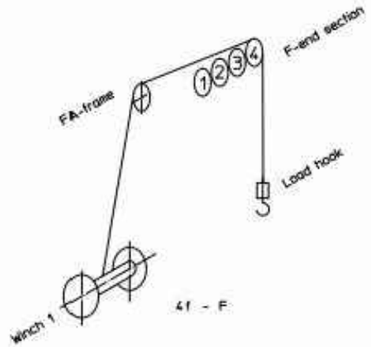

4f - F

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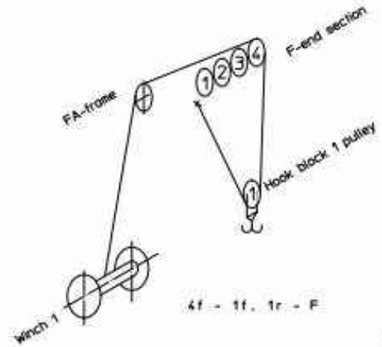

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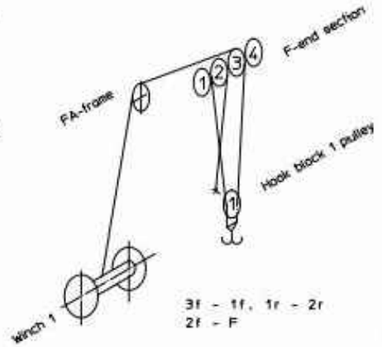

3f - 1f, 1r - 2r
2f - F

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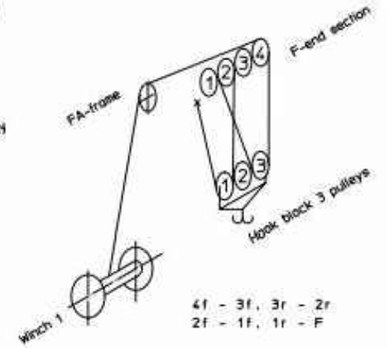

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2f - 1f, 1r - F

Reeving:
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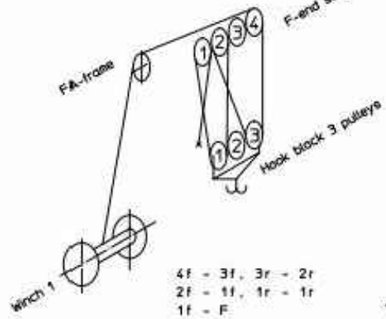
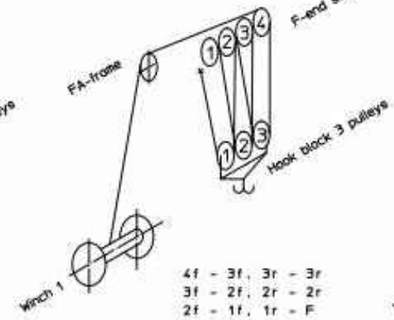


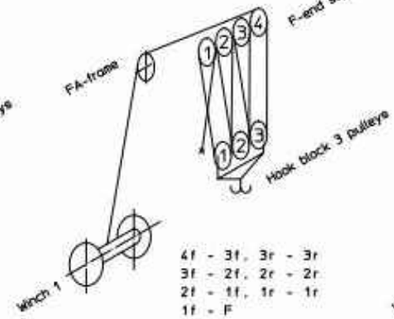
4f - 3f, 3r - 2r
2f - 1f, 1r - 1r
1f - F

Reeving:
6-way to 99t



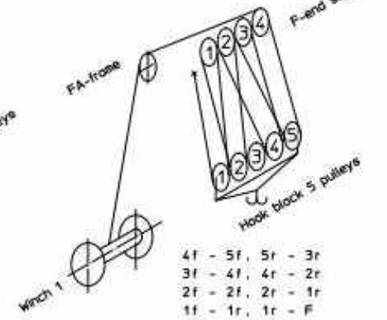
4f - 3f, 3r - 3r
3f - 2f, 2r - 2r
2f - 1f, 1r - F

Reeving:
7-way to 115t



4f - 3f, 3r - 3r
3f - 2f, 2r - 2r
2f - 1f, 1r - 1r
1f - F

Reeving:
8-way to 132t



4f - 5f, 5r - 3r
3f - 4f, 4r - 2r
2f - 2f, 2r - 1r
1f - 1r, 1r - F

F = Fixpoint = Festpunkt
f = front = Vorne
r = rear = hinten

Reeving F-end section
(Load capacities for USA)
with load hook
Hook block 1 pulley
Hook block 3 pulleys
Hook block 5 pulleys

Fertiggewicht/Weight/Poids
Bearbeitung/Finish/Usinage
Dokumentation Distribution Documentation
ISO 8015
ISO 2768-mk
ISO 13920 BF
ISO 9013-442
Projektion E
A1
LIEBHERR
LIEBHERR-WERK EHINGEN GMBH
Maßstab Scale Echelle 1:150
Bezeichnung/Description/Dénomination
REEVING PLAN
F-HEAD
Zeichnungs Nr./Drawing No./N°de dessin
1666-722.01.00.008-002
9867 651 08

PROJECT:
LR1600 SL3F 90m+12m

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

DRAWING NOTES:
Reeving Plan

FILE:	C:\Users\Dan Ives\OneDrive - Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 - SL3F 90m + 12m (295' 597' dan.dwg
CREATED:	12.18.2023 @ 9:56:37 AM
EDITING TIME:	5h54m FILE SIZE: 10137.82Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
SAVED:	08.29.2024 @ 6:22:59 AM
PLOTTED:	08.29.2024 @ 6:23:08 AM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	07.01.2022	Preliminary Planning & Initial Layout
001	08.29.2024	Minor Update
002	----	----
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BUCKNER HEAVYLIFT CRANES

SL3F – operation with auxiliary support **TAB 181 00 043-00**

SL3-boom:F-Connector head Page: 1 von 2

on crawlers 8.70m x 8.40m System: S 2825.25/20/16
Li 2420.12.5/10/8.8

without hook block on SL3-boom F 1916.6.3

SL3F with auxiliary support (to the side)				Permissible weight [t] of hook block on F-boom for turntable / central ballast [t]						
				190/65	170/65	150/65	150/25	130/25	110/25	110/5
SL3 [m]	72	F [m]	12 a)	•	•	•	•	•	•	6.0
			18	•	•	•	•	•	•	3.5
			24	•	•	•	•	•	4.5	-
			30	•	•	•	•	•	3.0	-
			36	•	•	•	•	6.0	-	-
SL3 [m]	75	F [m]	12 a)	•	•	•	•	•	•	4.0
			18	•	•	•	•	•	5.0	-
			24	•	•	•	•	6.5	4.0	-
			30	•	•	•	•	5.0	-	-
			36	•	•	•	6.5	4.0	-	-
SL3 [m]	78	F [m]	12 a)	•	•	•	•	•	6.0	-
			18	•	•	•	•	•	4.0	-
			24	•	•	•	•	6.0	-	-
			30	•	•	•	•	4.5	-	-
			36	•	•	•	5.5	3.0	-	-
SL3 [m]	81	F [m]	12 a)	•	•	•	•	•	4.0	-
			18	•	•	•	•	5.5	-	-
			24	•	•	•	•	3.5	-	-
			30	•	•	•	5.0	-	-	-
			36	•	•	6.5	4.5	-	-	-
SL3 [m]	84	F [m]	12 a)	•	•	•	•	4.5	-	-
			18	•	•	•	•	3.0	-	-
			24	•	•	•	5.5	-	-	-
			30	•	•	5.0	3.0	-	-	-
			36	6.5	6.0	4.0	-	-	-	-
SL3 [m]	87	F [m]	12 a)	•	•	•	6.0	-	-	-
			18	•	•	•	5.0	-	-	-
			24	•	•	6.5	3.0	-	-	-
			30	•	6.5	4.5	-	-	-	-
			36	5.5	4.5	3.0	-	-	-	-
SL3 [m]	90	F [m]	12 a)	•	•	5.0	3.5	-	-	-
			18	•	•	4.0	-	-	-	-
			24	6.5	5.5	3.0	-	-	-	-
			30	5.5	3.0	-	-	-	-	-
			36	3.0	-	-	-	-	-	-
SL3 [m]	93	F [m]	12 a)	•	6.5	4.0	-	-	-	-
			18	6.5	4.5	-	-	-	-	-
			24	4.0	-	-	-	-	-	-
			30	-	-	-	-	-	-	-
			36	-	-	-	-	-	-	-

LWE/18150-21-02/en

LIEBHERR

SL3F – operation with auxiliary support **TAB 181 00 043-00**

SL3-boom:F-Connector head Page: 2 von 2

on crawlers 8.70m x 8.40m System: S 2825.25/20/16
Li 2420.12.5/10/8.8

without hook block on SL3-boom F 1916.6.3

SL3F with auxiliary support (to the side)				Permissible weight [t] of hook block on F-boom for turntable / central ballast [t]						
				190/65	170/65	150/65	150/25	130/25	110/25	110/5
SL3 [m]	96	F [m]	12 a)	5.5	5.0	-	-	-	-	-
			18	4.0	3.0*	-	-	-	-	-
			24	-	-	-	-	-	-	-
			30	-	-	-	-	-	-	-
			36	-	-	-	-	-	-	-
SL3 [m]	99	F [m]	12 a)	3.0*	2.5*	-	-	-	-	-
			18	2.5*	-	-	-	-	-	-
			24	-	-	-	-	-	-	-
			30	-	-	-	-	-	-	-
			36	-	-	-	-	-	-	-
SL3 [m]	102	F [m]	12 a)	2.5*	-	-	-	-	-	-
			18	-	-	-	-	-	-	-
			24	-	-	-	-	-	-	-
			30	-	-	-	-	-	-	-
			36	-	-	-	-	-	-	-
SL3 [m]	105	F [m]	12 a)	1.0*	-	-	-	-	-	-
			18	-	-	-	-	-	-	-
			24	-	-	-	-	-	-	-
			30	-	-	-	-	-	-	-
			36	-	-	-	-	-	-	-
SL3 [m]	108	F [m]	12 a)	0.5*	-	-	-	-	-	-
			18	-	-	-	-	-	-	-
			24	-	-	-	-	-	-	-
			30	-	-	-	-	-	-	-
			36	-	-	-	-	-	-	-

• Hook block weight of 7 t permissible

\- Erection not permissible

* For the maximum load and / or to spool the hoist rope out, a higher hook block weight is required. For these booms, 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.

a) Due to the relapse danger of the luffing jib / fixed jib, a higher hook block weight is required in this case and demands are made onto the minimum reeving. (TAB 181 00 047)

LWE/18150-21-02/en

LIEBHERR

PROJECT:
LR1600 SL3F 90m+12m

LOCATION: ----

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

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

DRAWING NOTES:
Erection and Takedown

FILE: C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 – SL3F 90m + 12m (295' 3/4").dwg

CREATED: 12.18.2023 @ 9:56:47 AM

EDITING TIME: 5h54m FILE SIZE: 10137.82Kb

PAPER SIZE: ANSI B (17.00 x 11.00 Inches)

SAVED: 08.29.2024 @ 6:22:59 AM

PLOTTED: 08.29.2024 @ 6:23:08 AM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	07.01.2022	Preliminary Planning & Initial Layout
001	08.29.2024	Minor Update
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BUCKNER HEAVYLIFT CRANES

ISO DIN

SL3	F 11°
295ft	39ft

097927 typ1: D=1 1/8"(28mm) *** 111 22.01

ft > < x 1000 lb **CODE >5078<** L181 C710

ft	295
45	294.0
50	289.0
55	274.0
60	249.0
65	227.0
70	208.0
75	191.0
80	176.0
85	162.0
90	150.0
95	140.0
100	130.0
105	120.0
110	112.0
115	105.0
120	97.5
125	91.0
130	85.0
135	79.5
140	74.5
150	64.5
160	56.3
170	48.8
180	42.2
190	36.3
200	30.9
210	25.9
220	21.6
230	17.5
240	13.7
* n *	8
ft/s	42

SL3	F 11°	419,000 lbs	143,000 lbs	360°
295ft	39ft			

1077 / 1369 1 (1)

ISO DIN

SL3	F 16°
295ft	39ft

097927 typ1: D=1 1/8"(28mm) *** 111 22.01

ft > < x 1000 lb **CODE >5082<** L181 C715

ft	295
55	257.0
60	249.0
65	230.0
70	211.0
75	194.0
80	179.0
85	165.0
90	153.0
95	142.0
100	132.0
105	122.0
110	114.0
115	106.0
120	99.0
125	92.5
130	86.5
135	81.0
140	75.5
150	66.0
160	57.4
170	49.8
180	43.2
190	37.2
200	31.7
210	26.7
220	22.2
230	18.1
240	14.2
250	10.7
260	7.5
* n *	7
ft/s	42

SL3	F 16°	419,000 lbs	143,000 lbs	360°
295ft	39ft			

1081 / 1369 1 (1)

PROJECT:
LR1600 SL3F 90m+12m

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

DRAWING NOTES:
Load Chart

FILE:	C:\Users\Dan Ives\OneDrive - Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 - SL3F 90m + 12m (295'
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EDITING TIME:	5h54m
FILE SIZE:	10137.82Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
SAVED:	08.29.2024 @ 6:22:59 AM
PLOTTED:	08.29.2024 @ 6:23:09 AM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	07.01.2022	Preliminary Planning & Initial Layout
001	08.29.2024	Minor Update
002	----	----
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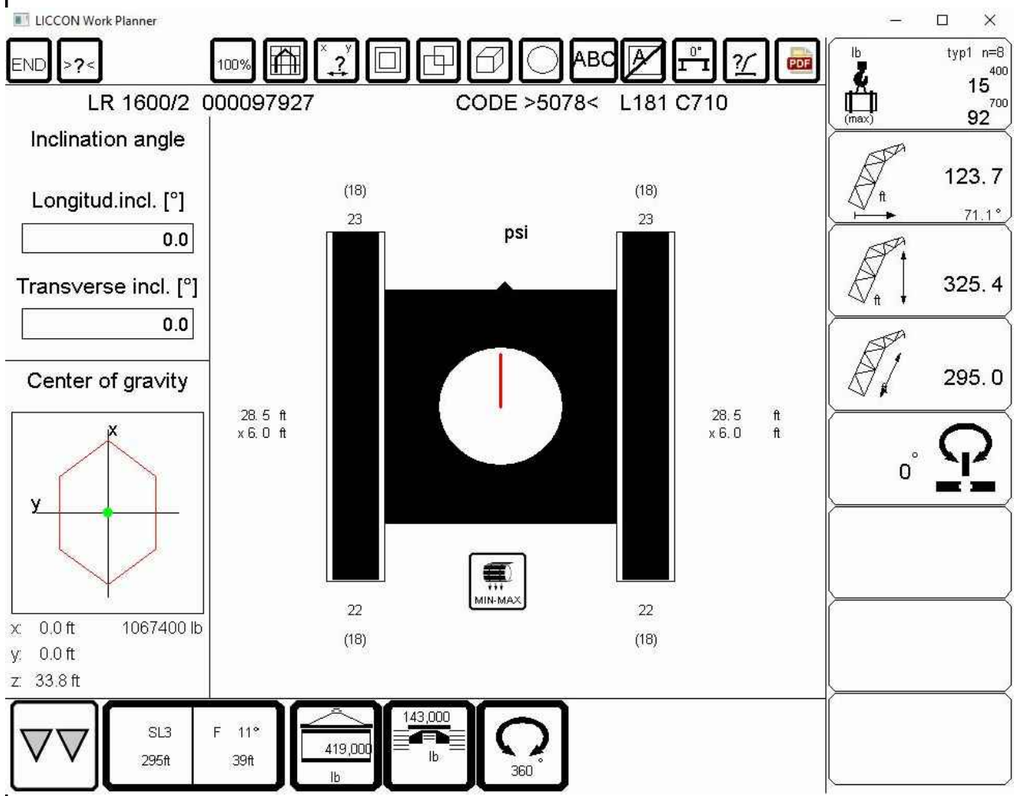
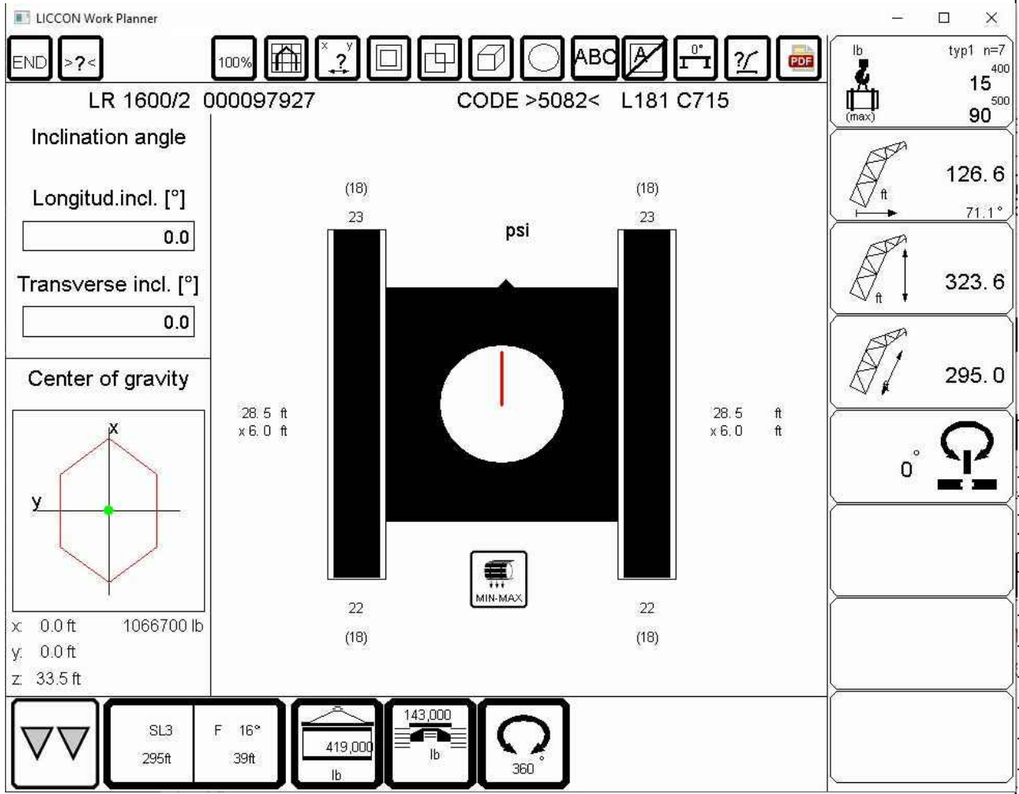
BUCKNER HEAVYLIFT CRANES

11 Degree Offset



16 Degree Offset



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.

PROJECT:
LR1600 SL3F 90m+12m

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

DRAWING NOTES:
Balanced Boom

FILE:	C:\Users\Dan Ives\OneDrive – Buckner Heavylift Cranes\Engineering\Drawings\BHL\Buckner\Build Sheets\LR 1600\LR 1600 – SL3F 90m + 12m (295' SB).dwg
CREATED:	12.18.2023 @ 9:56:57 AM
EDITING TIME:	5h54m
FILE SIZE:	10137.82Kb
PAPER SIZE:	ANSI B (17.00 x 11.00 Inches)
SAVED:	08.29.2024 @ 6:22:59 AM
PLOTTED:	08.29.2024 @ 6:23:10 AM

Revisions

All Sheets Same Revision Level

Rev.	Date	Description
000	07.01.2022	Preliminary Planning & Initial Layout
001	08.29.2024	Minor Update
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003	----	----
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BUCKNER HEAVYLIFT CRANES