



Build Package – Liebherr LR 1400/2

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005	Hookblock
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008	Load Charts

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

PROJECT:
LR 1400 – 49m+56m (161’+184’)

LOCATION: -----
BUCKNER CONTACT: Dallas Snow
DallasS@BucknerHeavyLift.com

LIFT PLAN BY: Dallas Snow
DallasS@BucknerHeavyLift.com

DRAWING NOTES:
Title Page

LR 1400/2	
Operating Mode	SLN
Main Boom Length	49m (161’)
Luffing Jib Length	56m (184’)
Derrick Length	N/A
Superstructure CWT	155t (342k)
Carbody CWT	43t (95k)
Ballast Tray CWT	N/A

PRELIMINARY

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LR 1400 – 49m+56m (161’+184’)
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DallasS@BucknerHeavyLift.com
LIFT PLAN BY: Dallas Snow
DallasS@BucknerHeavyLift.com

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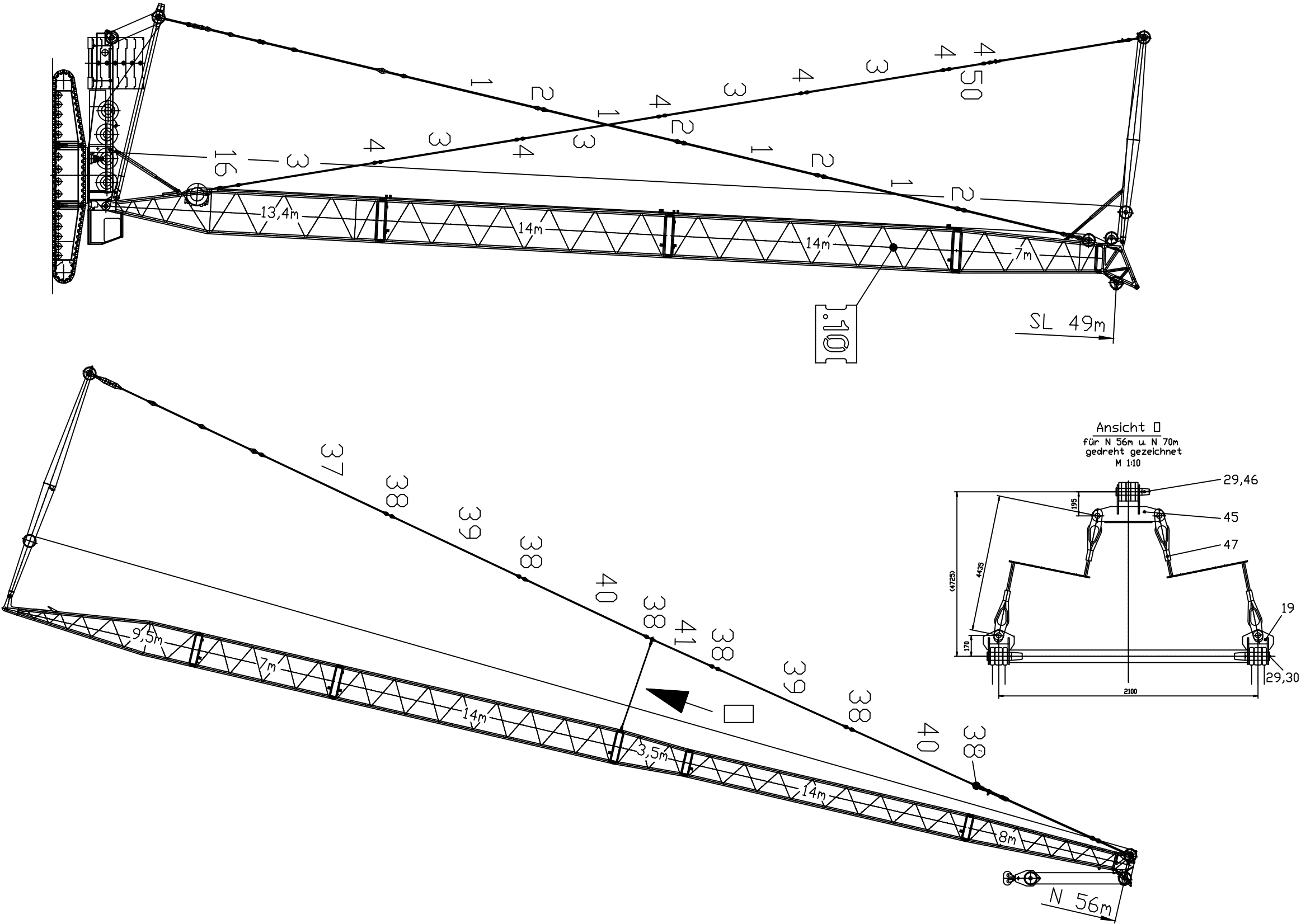
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BUCKNER
HEAVYLIFT CRANES



Pos.	Artikel	Bezeichnung	Description
1	963497808	STANGE MIT SCHILD	ROD WITH BOARD
2	925173308	LASCHE KPL.	BRACKET COMPL.
3	963493508	STANGE	ROD
4	925173008	LASCHE KPL.	BRACKET COMPL.
9	925184408	SCHWINGE SCHWK.	ROCKER WELDED
16	921344408	STANGE KPL.	ROD CPL.
23	773424508	SEIL	ROPE
25	954383508	BOLZEN	PIN
27	921137508	STANGE KPL.	ROD CPL.
28	954385708	BOLZEN	PIN
29	433105008	SICHERUNGSFEDER	RETAINING SPRING
32	921129608	STANGE KPL.	ROD CPL.
35	948638308	BOLZEN	PIN
36	773386108	SEIL	ROPE
44	948359608	BOLZEN	PIN
51	529001508	AUFSTELLWAGEN	SET-UP CARRIAGE
52	963490108	STANGE MIT SCHILD	ROD WITH BOARD
68	692307908	ZUGMESSLASCHE	TENSION DYNAMOMETER
76	921406808	STANGE KPL.	ROD CPL.
77	921406908	LASCHE KPL.	BRACKET COMPL.
78	921407008	STANGE KPL.	ROD CPL.
79	921407208	STANGE KPL.	ROD CPL.
80	921407308	SCHWINGE SCHWK.	ROCKER WELDED
82	921425408	STANGE MIT SCHILD	ROD WITH BOARD
83	921425508	STANGE KPL.	ROD CPL.
86	923626908	LASCHE SCHWK.	CONNECTING LINK WELDED
87	923627008	LASCHE SCHWK.	CONNECTING LINK WELDED
88	923627108	LASCHE SCHWK.	CONNECTING LINK WELDED
89	773433908	SEIL	ROPE
90	773434008	SEIL	ROPE
91	956097408	BOLZEN	PIN
92	421202408	SCHEIBE	WASHER
93	955998208	BOLZEN	PIN
94	421102808	SCHEIBE	WASHER
95	433102508	SICHERUNGSFEDER	RETAINING SPRING
96	740023808	KETTE	CHAIN
98	921125208	TRAVERSE SCHWK.	CROSS-MEMBER
99	921129208	STANGE KPL.	ROD CPL.
103	970079008	BOLZEN	PIN
104	921137308	STANGE KPL.	ROD CPL.

27.4.2009	LR 1400/2 (074257) STANGEN RODS / PULL RODS	910536008 _ 002 Seite: 12
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PROJECT:
LR 1400 – 49m+56m (161’+184’)

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

DRAWING NOTES:
Rod Plan

LR 1400/2	
Operating Mode	SLN
Main Boom Length	49m (161’)
Luffing Jib Length	56m (184’)
Derrick Length	N/A
Superstructure CWT	155t (342k)
Carbody CWT	43t (95k)
Ballast Tray CWT	N/A

PRELIMINARY

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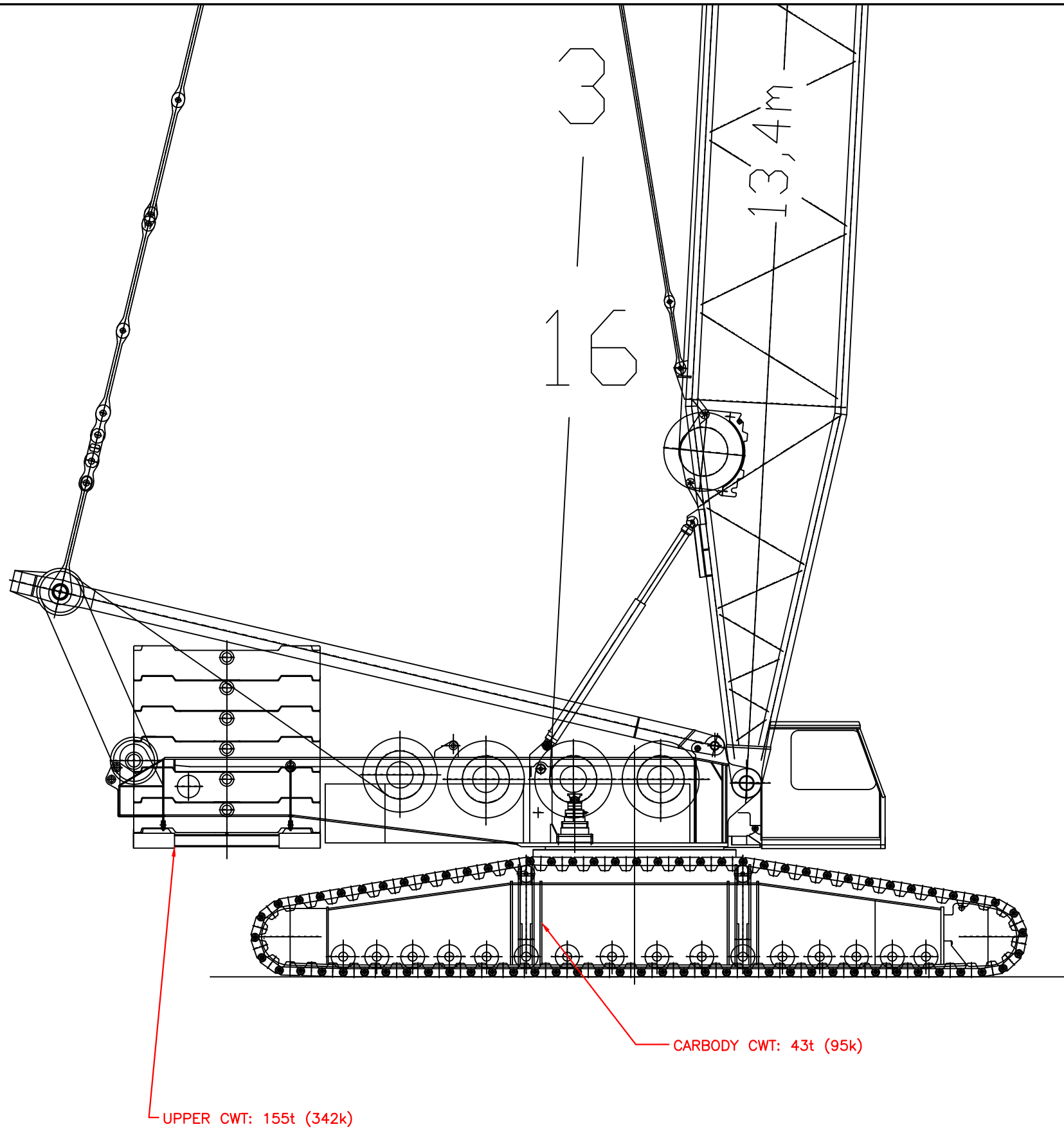
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PROJECT:
LR 1400 – 49m+56m (161’+184’)

LOCATION: -----
BUCKNER CONTACT: Dallas Snow
DallasS@BucknerHeavyLift.com

LIFT PLAN BY: Dallas Snow
DallasS@BucknerHeavyLift.com

DRAWING NOTES:
CWT Arrangement

LR 1400/2	
Operating Mode	SLN
Main Boom Length	49m (161’)
Luffing Jib Length	56m (184’)
Derrick Length	N/A
Superstructure CWT	155t (342k)
Carbody CWT	43t (95k)
Ballast Tray CWT	N/A

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BUCKNER
HEAVYLIFT CRANES

1.2 Hook block 36 EM (1 rope pulley / 79400 lb (36.0 t load))

Reeving	Maximum possible total boom length with the following hook block weight:					
	3300 lb					
3	390 ft					
2	551 ft					
1	551 ft					

1 Distance between the hook and roller set in the boom head

To determine the hook height, the lifting height must be reduced by the distance between the hook and the center of the roller set in the boom head.

The distances for the hook block used can be taken from the following charts.

Hook block	Distance H Valid for the end section
Load hook 12 E	10.5 ft
Hook block 36 EM	13.1 ft
Hook block 80 DM	13.8 ft
Hook block 160 DM	14.8 ft
Double hook block 250 / 125 DM	15.1 ft
Double hook block 400 / 200 DMZ	17.4 ft

	
1x	27.8
2x	54.9
3x	81.8
4x	108.3
5x	134.3
6x	159.8
7x	185.2
8x	210.1
9x	234.6
10x	258.8
11x	282.6
12x	306.0
13x	329.2
14x	351.9
15x	374.1
16x	396.2
17x	418.0
18x	439.4
19x	460.6
20x	481.3
21x	501.6
22x	521.9
23x	541.7
24x	561.3
25x	580.5
26x	599.5
27x	618.2
28x	636.5
29x	654.6
30x	672.4
31x	690.1
32x	707.5
33x	726.0
34x	741.2
35x	757.8
36x	771.6

PROJECT:
LR 1400 – 49m+56m (161’+184’)

LOCATION: -----

BUCKNER CONTACT: Dallas Snow
DallasS@BucknerHeavylift.com

LIFT PLAN BY: Dallas Snow
DallasS@BucknerHeavylift.com

DRAWING NOTES:
Hookblock

LR 1400/2	
Operating Mode	SLN
Main Boom Length	49m (161’)
Luffing Jib Length	56m (184’)
Derrick Length	N/A
Superstructure CWT	155t (342k)
Carbody CWT	43t (95k)
Ballast Tray CWT	N/A

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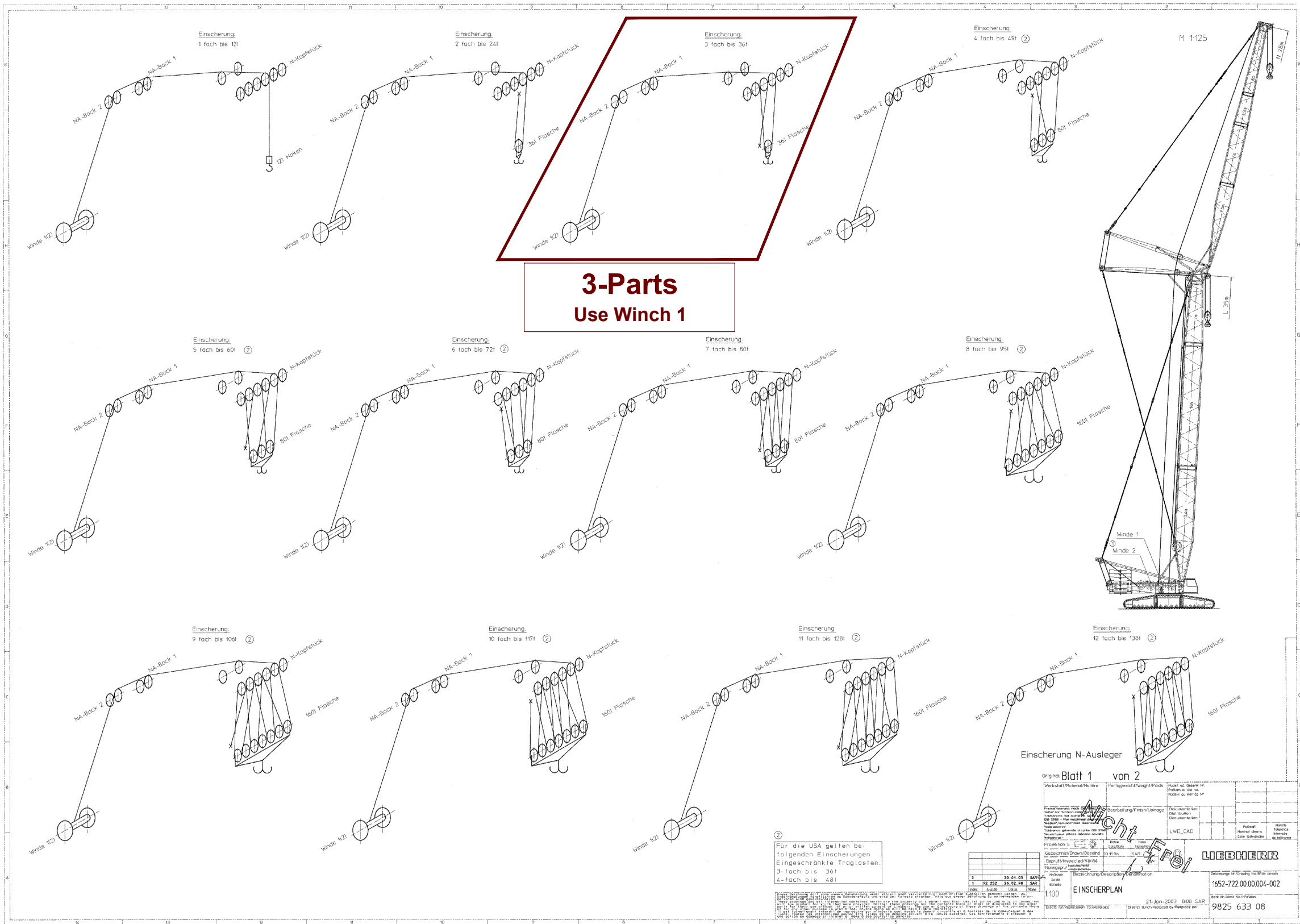
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PROJECT:
LR 1400 – 49m+56m (161'+184')
LOCATION: -----
BUCKNER CONTACT: Dallas Snow
DallasS@BucknerHeavyLift.com
LIFT PLAN BY: Dallas Snow
DallasS@BucknerHeavyLift.com

DRAWING NOTES:
Main Reeving

LR 1400/2	
Operating Mode	SLN
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RAISING - AND LOWERING CHARTS

SLN - mode

TAB: 12400081
System: S 2620.20
N 2115.10
1812.10

Note: The SL- boom must be set to 87° to the horizontal before luffing up the N- fly jib

Slewing platform- / central ballast	Erection of boom, sideways / over rear		max. permissible hook block weight on main boom
	Additional mechanical support not required [m]	Additional mechanical support required [m]	
[t]			[t]
155 / 43	SL 21 / N 21 - 91		3,8
	SL 28 / N 21 - 91		3,8
	SL 35 / N 21 - 91		3,8
	SL 42 / N 21 - 91		3,8
	SL 49 / N 21 - 91		3,8
	SL 56 / N 21 - 91		3,8
	SL 63 / N 21 - 63		2,6
		SL 63 / N 21 - 84	3,8
135 / 43		SL 63 / N 91	2,6
		SL 70 / N 28 - 77	3,8
	SL 21 / N 21 - 91		3,8
	SL 28 / N 21 - 91		3,8
	SL 35 / N 21 - 91		3,8
	SL 42 / N 21 - 91		3,8
	SL 49 / N 21 - 91		3,8
	SL 56 / N 21 - 91		3,8
		SL 63 / N 21 - 84	3,8
		SL 63 / N 91	2,6
		SL 70 / N 28 - 77	2,6

PROJECT:
LR 1400 – 49m+56m (161’+184’)

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LIFT PLAN BY: Dallas Snow
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DRAWING NOTES:
Erection & Takedown

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xx° SL 161 ft	N 184 ft
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06.03

	xx° SL 161 ft	N 184 ft	 342,000 lbs	 95,000 lbs			
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BUCKNER
HEAVYLIFT CRANES

LR 1400 - 49m+56m (161'+184')

DRAWING NOTES:
Load Charts

LR 1400/2	
Operating Mode	SLN
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