

1701 Page Mill Rd, Palo Alto Coil Replacement - AC2

Prepared for Carrier by:

Evan Haase - Project Manager / Estimator
510-935-9300
evan@hattons.com

Crane

Liebherr LTM1100-5.3
161.1' Telescopic Boom (T)
52' Hydraulically Adjustable Folding Jib (NZK)
(20° offset)
Base: On Outriggers 100% (27ft x 25ft)
Counterweight: 49,604 lbs
186.1' Lift Radius (360°)
Crane Capacity at 186.1' = 2,500 lbs

Load

Load Line	150 lbs
Hook	300 lbs
Rigging	60 lbs
Total Rigging Weight	510 lbs
Load	1,300 lbs

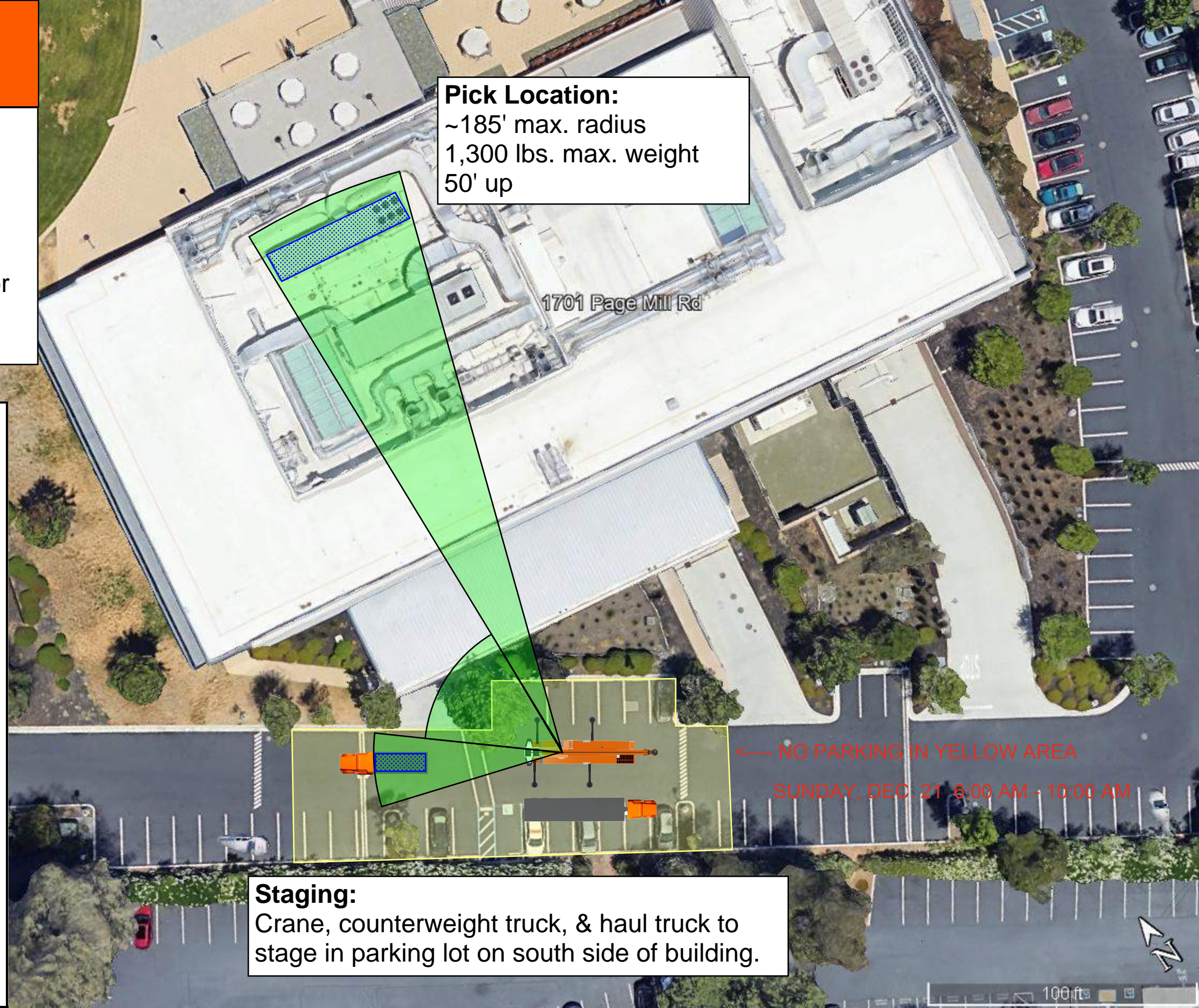
Total Load	1,810 lbs
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72% of capacity

Sling Tension: 693 lbs

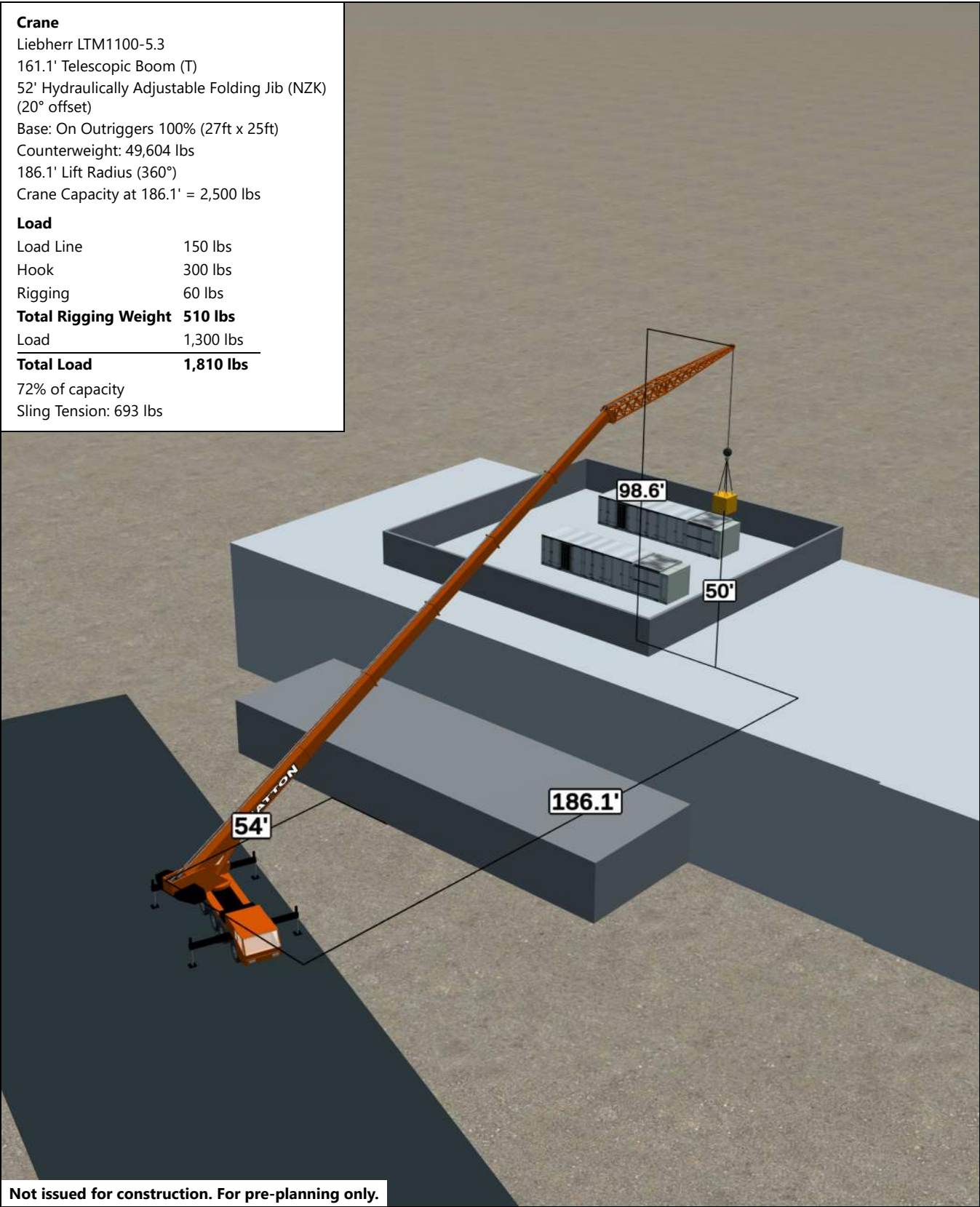
Pick Location:

~185' max. radius
1,300 lbs. max. weight
50' up



Staging:

Crane, counterweight truck, & haul truck to stage in parking lot on south side of building.



Not issued for construction. For pre-planning only.

	Title	Lift Plan
	Project	1701 Page Mill Rd, Palo Alto - Coil Replacement - AC2
	Customer	Carrier
	Description	
	Drawn By	Evan Haase
		11/7/2025

Load Chart

Project 1701 Page Mill Rd, Palo Alto - Coil Replacement - AC2
 Customer Carrier
 Description

Liebherr LTM 1100-5.3

Boom: Telescopic Boom (T)
 Jib: Hydraulically Adjustable Folding Jib (NZK)
 Base: On Outriggers 100% (27ft x 25ft)
 Counterweight: 49,604 lbs
 Range: 360°
 Capacity: 85% - ASME B 30.5 - EN 13000
 Chart ID: T280.003.05338, T280.003.05483, T280.003.05628

Boom Section Percentages	Boom Length (ft)	Boom Angle	Jib Length (ft)	Jib Offset	Tip Height (ft)	Lift Radius (ft)	Capacity (lbs)
-	161.1	76.7°	52	20°	212.6	60	5,800
-	161.1	73.8°	52	20°	209	70	4,800
-	161.1	70.9°	52	20°	204.8	80	3,900
-	161.1	67.9°	52	20°	200	90	3,200
-	161.1	64.8°	52	20°	194.4	100	2,500
-	161.1	61.6°	52	20°	188.2	110	2,000
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-	161.1	51.1°	52	20°	164	140	3,900
-	161.1	47.2°	52	20°	153.6	150	3,600
-	161.1	38.3°	52	20°	127.6	170	3,000
-	161.1	26.4°	52	20°	88.5	190	2,500
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-	161.1	51.1°	52	20°	164	140	2,100
-	161.1	47.2°	52	20°	153.6	150	1,800
-	161.1	38.3°	52	20°	127.6	170	1,200
-	161.1	79.6°	52	20°	215.7	50	6,300
-	161.1	76.7°	52	20°	212.6	60	6,000
-	161.1	73.8°	52	20°	209	70	5,700
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-	161.1	51.1°	52	20°	164	140	3,900
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-	161.1	51.1°	52	20°	164	140	3,300
-	161.1	47.2°	52	20°	153.6	150	3,000
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-	161.1	51.1°	52	20°	164	140	3,900
-	161.1	47.2°	52	20°	153.6	150	3,600
-	161.1	38.3°	52	20°	127.6	170	3,000
-	161.1	26.4°	52	20°	88.5	190	2,500
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-	161.1	51.1°	52	20°	164	140	2,000
-	161.1	47.2°	52	20°	153.6	150	1,700
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Boom Section Percentages	Boom Length (ft)	Boom Angle	Jib Length (ft)	Jib Offset	Tip Height (ft)	Lift Radius (ft)	Capacity (lbs)
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-	161.1	26.4°	52	20°	88.5	190	2,000

This data is for reference use only. Operator must refer to in-cab charts to determine allowable lifting capacities.

CRANE SERVICE

2976 Sydney Way, Castro Valley, CA 94546

C121

Plate V

STATE OF CALIFORNIA
DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
CERTIFICATE OF UNIT TEST AND/OR EXAMINATION OF
CRANES AND DERRICKS USED FOR LIFTING SERVICE
(DOSH Form CCAU 55, 11-01-93)

1. Owner: Hatton Crane & Rigging

Certificate No: 2421

2. Address: 3643 Depot Rd.
Hayward, CA 94545

3. Device Type: CRANE

Capacity: 110 Tons

Location: Changes worksite

Serial Number: 054-558

4. Description Hydraulic Truck Crane

License Plate: N/A

5. Manufacturer: Liebherr

Model: LTM 1100-5.3

6. Owners Identification: C121

7. Service Status at time of Survey: Lifting

8. Boom at time of survey: Length: 42' - 203'

Boom Type: HYDRAULIC

Jib Length: 31' - 52'

9. Test Loads Applied, Including Functional (partial) Test Load:

Radius/Angle	Test Load:	Rated Load	Outriggers (yes/no):	BoomDirection:
49' / 43 Deg.	36,200 lbs.	35,800 lbs.	Yes	Side / Rear
114' / 69 Deg.	3,850 lbs.	3,700 lbs.	Yes	Side / Rear

Description of Proof Loads: Known Weights

10. Basis For Assigned Load: Manufacturer's Specifications

11. The examination shall cover the points lifted on reverse as applicable.

12. Remarks/Limitations: None.

I certify that on 10/1/2024, the above described device was tested and examined by the undersigned; that said test and examination met with the requirements of the Division of Occupational Safety and Health Administration (DOSH); that any deficiencies affecting the safe operation of the crane have been corrected prior to the issuance of this certificate. A copy of such certificate(s) attesting to Annual and Quadrennial Certification shall be maintained in the crane or at the work site at all times.

This Certificate is: Quadrennial

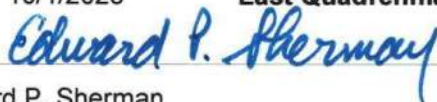
Proof Load Quad Attached: Yes

Next Annual Due: 10/1/2025

Last Quadrennial Done: 10/1/2024

By: CA-336

Signature:



Print Name: Edward P. Sherman

Title: Surveyor

Date: 10/1/2024

Certification No: 2421

Issue Date: 10/1/2024

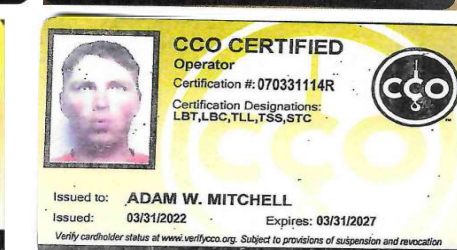
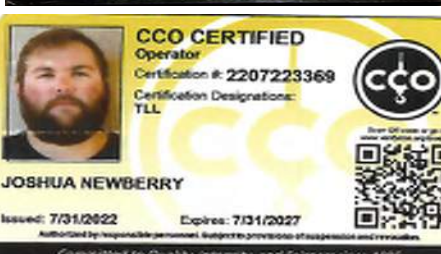
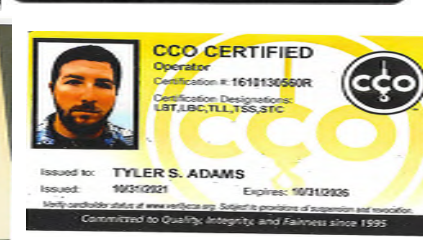
Mailed to DOSH: N/A

Certifying Agency: Engineered Crane Service

DOSH License No: CA-336

Category: M

Expires: 8/31/2029





QUALIFIED
RIGGER

HATTON
CRANE & RIGGING

SIGNAL
PERSON

Our employee below has been determined by Hatton Crane & Rigging to meet the qualification requirements per OSHA 29 CFR 1926 using ASME standards B30.5 & B30.3 for Qualified Signal Person - Hand Signals, Qualified Signal Person - Voice/Radio Signals and Qualified Rigger.

Issued to: Tony Gianquento

Date Issued: 9/29/2022

Evaluator: Jacob Mendonsa

X *Jacob Mendonsa*

HATTON CRANE & RIGGING 3643 DEPOT ROAD, HAYWARD 94545

QUALIFIED
RIGGER



SIGNAL
PERSON

Our employee below has been determined by Hatton Crane & Rigging to meet the qualification requirements per OSHA 29 CFR 1926 using ASME standards B30.5 & B30.3 for Qualified Signal Person - Hand Signals, Qualified Signal Person - Voice/Radio Signals and Qualified Rigger.

Issued to: Tyler Adams

Date Issued: 9/29/2022

Evaluator: Jacob Mendonsa

X *Jacob Mendonsa*

HATTON CRANE & RIGGING 3643 DEPOT ROAD, HAYWARD 94545

QUALIFIED
RIGGER



SIGNAL
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Our employee below has been determined by Hatton Crane & Rigging to meet the qualification requirements per OSHA 29 CFR 1926 using ASME standards B30.5 & B30.3 for Qualified Signal Person - Hand Signals, Qualified Signal Person - Voice/Radio Signals and Qualified Rigger.

Issued to: Wei Ming Zheng

Date Issued: 1/30/2024

Evaluator: Jacob Mendonsa

X *Jacob Mendonsa*

HATTON CRANE & RIGGING 3643 DEPOT ROAD, HAYWARD 94545

QUALIFIED
RIGGER



SIGNAL
PERSON

Our employee below has been determined by Hatton Crane & Rigging to meet the qualification requirements per OSHA 29 CFR 1926 using ASME standards B30.5 & B30.3 for Qualified Signal Person - Hand Signals, Qualified Signal Person - Voice/Radio Signals and Qualified Rigger.

Issued to: Zachary Smith

Date Issued: 9/29/2022

Evaluator: Jacob Mendonsa

X *Jacob Mendonsa*

HATTON CRANE & RIGGING 3643 DEPOT ROAD, HAYWARD 94545

HATTON

CRANE & RIGGING
METHOD OF PROCEDURES

Specific Staff Training: (Industry certifications/equipment operator license or training)	<ul style="list-style-type: none"> NCCCO Certified Crane Operators Qualified Signal Person - Hand Signals per OSHA 29 CFR 1926 using ASME standards B30.5 & B30.3 Qualified Signal Person - Voice/Radio Signals per OSHA 29 CFR 1926 using ASME standards B30.5 & B30.3 Qualified Rigger per OSHA 29 CFR 1926 using ASME standards B30.5 & B30.3
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Sequence of Operations		
STEP #	STEP DESCRIPTION	INITIALS
1.0	Perform a thorough pre-job safety walk of the surrounding areas of work with all involved personnel	
2.0	Perform a thorough pre-job safety debriefing with all personnel supporting the crane & rigging operation	
3.0	Establish all methods of communication for the pick (i.e. radios/channels for riggers & operators)	
4.0	Install barricades/danger tape/etc. to prevent unauthorized access into all exclusion zones around the crane swing radius and work area.	
5.0	Verify all required signs/barricades/etc. in the planned work areas have been installed accordingly. Cordon off work area with delineators, signage and red danger tape as required	
6.0	Confirm integrity of all required PPE (including correct protective equipment and PPE integrity)	
7.0	Ensure all parties are aware that there will be NO LIFTING within the details for the minimum approach distance (MAD) (10feet) of the nearest power lines/obstacles.	
8.0	Review and verify crane/rigger/operator certifications are up to date.	
9.0	CRANE SET UP PROCEDURES (To be performed by Hatton Crane operator, oiler, signalperson and/or rigger; and/or designated qualified rigger onsite)	
	9.1 Perform a thorough pre-op safety debriefing with all personnel supporting the set up 9.2 Verify materials to be lifted and staged in the appropriate location as discussed during the initial pre-job safety meeting and walk. 9.3 Authorize crane personnel to perform and confirm all crane inspections to ensure integrity. 9.4 Verify all operator certifications. 9.5 Verify current wind speeds adhere to the crane's ratings. 9.6 Begin crane set up 9.7 Verify everything is properly anchored and secure. 9.8 Competent person to perform a final inspection of all rigging. 9.9 Ensure all parties involved in crane operations understand that nobody is allowed underneath flying loads and only qualified individuals are allowed in the vicinity.	
10.0	CRANE OPERATIONS (To be performed by Hatton Crane operator, oiler, signalperson and/or rigger; and/or designated qualified rigger onsite)	
	10.1 Perform a thorough pre-op safety debriefing with all personnel supporting the pick detailing the specific means of communication. 10.2 Verify with all involved parties that exclusion zones and corresponding signage/danger tape/barricades/etc. have been installed. 10.3 Verify certified operators and riggers are in position via approved communication protocols	
11.0	CRANE DEMOBILIZATION (To be performed by Hatton Crane operator, oiler, signalperson and/or rigger)	
	11.1 Perform a thorough pre-op safety debrief. 11.2 Once all material has been properly set, begin demobilization process. 11.3 Demobilize crane. 11.4 Ensure all operations are normal and work area is cleaned.	

HATTON

CRANE & RIGGING
JOB SAFETY ANALYSIS

Hydraulic Truck Cranes Mob-In/De-Mob	
Struck By/ Caught Between, and Pinch points.	<ul style="list-style-type: none"> • Hard hats and safety glasses should be worn at all times. • When driving a pin do not hold it for someone after pin is set. • Do not stand in front of outriggers when extending. • Do not leave objects on outrigger beams or deck. • Barricades should be in place before work starts when working near passing traffic, road or jobsite. • Use a dedicated person to direct traffic if needed for safety. • When hoist wire is removed from sheaves caution must be used to make sure wire doesn't fall off boom. • Use extreme caution when handling coiled wire rope. • Replace mushroomed pins or grind off mushrooming areas as to reduce fragment displacement. • Always strike pins square and in the center of pin. • It is a good practice to use friction tape on handles of beaters for a better grip. • Do not stand in operators blind spots when crane is working. • Do not use body parts to check for air or hydraulic leaks. • Relieve pressure to air or hydraulic lines before disconnecting. • Do not attempt to repair crane while engine is running, unless absolutely necessary. • Do not place body parts between counterweights at any time. • If for any reason personnel need to go under the crane all crane operations will stop until operator is sure the underside of crane is clear of personnel. • Timbers stored on crane deck will not be thrown off deck to ground. • Do not stand inside outriggers while crane is rotating.

Crane Mob-In		
STEPS FOR WORK	POTENTIAL HAZARD	RECOMMENDED ACTION OR PROCEDURE
1. Move crane on site	Crane or property damage, Struck By, Crushing	<ul style="list-style-type: none"> • Use spotter if needed. • Back up alarm when reversing crane. • Keep lights on when traveling on site. • Travel path of crane should be clear of personnel and equipment.
2. Set and place outriggers and cribbing	Struck By, Pinching, Crushing	<ul style="list-style-type: none"> • Place cribbing level centered under outriggers. • Outriggers should be controlled from the side that is being extended or use a spotter. • Keep all body parts out from under outrigger pads. • Do not stand in front of extending outrigger. • Do not stand or sit on outrigger beam.
3. Setting counterweights	Struck By, Pinching, Crushing	<ul style="list-style-type: none"> • Keep body parts from between counterweight plates • When setting plates do not get in swing pinch points • Do not put body parts between crane and counterweights
4. Raising crane boom	Tip over	<ul style="list-style-type: none"> • Check crane level before raising boom. • Check for overhead obstructions. • Turn on and set computer to set up before initial operations proceed.
5. Extension of crane boom	Struck By, Pinching, Crushing, Tip over	<ul style="list-style-type: none"> • Check for overhead obstructions. • Extend crane boom to desired length for working radius and height. Set computer for boom configuration.
6. De-mob of crane process will be performed in reverse order of the Mob-in sequence. Refer to manufactures manual if needed.		

Hoisting With A Crane	
PERSONAL PROTECTIVE EQUIPMENT. (Used at all times per OSHA standards.)	Hard hats, safety vest, approved safety glasses, gloves, work boots, fall protection, hearing protection if noise level is above 90 dba, & all other site/task specific P.P.E PROCEDURE
Common Hazards	RECOMMENDED ACTION OR PROCEDURE
Pinching, crushing	<ul style="list-style-type: none"> • Barricade working area from all other personnel. • Keep body and hands away from pinch points. • Do not put hands between slings and the load. • Do not stand between the load and other objects or structures. • Always make sure hook is centered over load as hoisting begins. • Use tag lines when needed to control loads. • Do not stand on crane deck while hoisting. • Use a dedicated signal person for operations.
Trips, Falls, and Slips	<ul style="list-style-type: none"> • Keep good housekeeping in staging area. • Do not run in work area. • Do not ride a load or headache ball. • Use personal fall protection when working above 7 1/2 feet. • Keep 3 points of contact when using a ladder or climbing on the crane. • Keep safety glasses clear from dirt and dust so vision is not impaired. • Do not remove floor protection at any time, for any reason.
Falling objects	<ul style="list-style-type: none"> • Never work under a suspended load. • Always wear a hard hat. • Inspect all rigging components before use for correct sizing and any damage. • Do not use damaged rigging components. • Inspect rigging at the start of each shift. • Make sure loads are secure before hoisting. • Clear the load of any loose debris or parts before hoisting. • Make sure safety latches on hooks are in good working order. • Make sure hoisting path is clear of personnel.
Tip over	<ul style="list-style-type: none"> • Ground conditions should be firm and able to support crane or equipment. • The outriggers should never be set over a vault or on a recently filled, uncompacted, trench or other soft earth. • Do not set outriggers on any sidewalk unless approved by management. • Use proper cribbing and/or mats or plates if needed for support. • Do not overload crane or equipment. • Make sure all safety devices are in working order before hoisting.
Electrical shock	<ul style="list-style-type: none"> • Check for power lines, overhead and underground, before crane setup. • Keep adequate distance from overhead AC power lines per OSHA Title 8, Article 15, Section 1612.1, Table A; 10 feet at a minimum. • Do not touch or climb on crane if chassis is energized. • Do not operate when lightning could strike the crane. • Use nylon pendant between hook and crane when static electricity is present.
General	<ul style="list-style-type: none"> • Before hoisting operations start, a pre-lift meeting should be held including crane operator, signal person, and foreman in charge. • All hoisting should be overseen by qualified rigger. • Crane shall be operated by a certified or qualified operator at all times per OSHA standards 1618.1. • Crane operator has the authority to stop hoisting operations for safety reasons. • The only persons allowed in the fall zone will be employees hooking onto materials or landing materials in place.

ADDITIONAL SAFETY PLAN INFORMATION AVAILABLE IN ATTACHED INJURY ILLNESS PREVENTION PLAN:	 Hatton Crane IIPP Handbook.pdf
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1. **EMERGENCY CONTACTS [24-HOUR CONTACT and RESPONSE TIME]**

CONTRACTOR:

- Project Manager: Evan Haase [24 hours, 2 hours response] 510-935-0556
- Project Superintendent: Jacob Mendonsa [24 hours, 2 hours response] 831-821-0454
- Health and Safety Representative: Cameron Lagosh [24 hours, 2 hours response] 510-367-4820



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

4/30/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION** IS **WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Edgewood Partners Insurance Center (EPIC) [San Ramon - Branch ID 14394] P.O. Box 5003 San Ramon CA 94583	CONTACT NAME: Certificates Department PHONE (A/C, No, Ext): 925-244-7700 E-MAIL ADDRESS: EPICcerts@epicbrokers.com	FAX (A/C, No): 925-901-0671
License#: 0B29370 HATT CRA	INSURER(S) AFFORDING COVERAGE	NAIC #
INSURED Hatton Crane & Rigging Inc. 3643 Depot Road Hayward CA 94545	INSURER A: Zurich American Insurance Company	16535
	INSURER B: Homesite Insurance Company	17221
	INSURER C: AGCS Marine Insurance Company	22837
	INSURER D:	
	INSURER E:	
	INSURER F:	

COVERAGES**CERTIFICATE NUMBER:** 69977113**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:	Y	Y	GLO293061800	5/1/2025	5/1/2026	EACH OCCURRENCE \$2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$100,000 MED EXP (Any one person) \$5,000 PERSONAL & ADV INJURY \$2,000,000 GENERAL AGGREGATE \$4,000,000 PRODUCTS - COMP/OP AGG \$4,000,000 \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY	Y	Y	BAP302990206	5/1/2025	5/1/2026	COMBINED SINGLE LIMIT (Ea accident) \$2,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 0			CXP03343901	5/1/2025	5/1/2026	EACH OCCURRENCE \$3,000,000 AGGREGATE \$3,000,000 \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input checked="" type="checkbox"/> N	N/A	WC302990106	5/1/2025	5/1/2026	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000
C	Rigger's Liability			MXI93075480	5/1/2025	5/1/2026	\$10,000 DED** \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

**\$10,000 Deductible applies; except on Cranes as respects to while the boom is in operation or being prepared for operations the deductible will be the greatest of 5% of limit of liability for that item subject to \$25,000 minimum
Proof of Insurance

CERTIFICATE HOLDER**CANCELLATION**

EVIDENCE OF COVERAGE

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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