Instructions

1. The Crane Use Planning Process has two parts:
   ✓ Crane Lift Plan  
   ✓ Crane Daily Safety Review

2. A Crane Lift Plan is required for any crane lift on a Dimeo project.

3. Lifts exceeding 75% of the cranes stability / structural capacity chart, requiring movement of a crane carriage with the load, personnel platforms, sensitive loads (long lead time, cost), loads requiring two (or more) hooks, work over occupied facilities or work involving encroachment on public rights of way are considered critical. These lifts must be authorized in advance. Critical crane lift plans, if authorized, may have to be reviewed by a professional engineer (the contractor shall budget the PE review within project budget). Additionally, a critical lift JHA shall be submitted with the crane lift plan.

4. Crane Lift Plans must be submitted at least 48 hours (2 business days) prior to mobilization – 5 days for critical and helicopter lifts.

5. Crane Lift Plans must be based on “worst case” combination of load weight with chart deductions and lift radius for a specific crane configuration in a specific location.

6. The Crane Lift Plan may be valid for more than one day, as long as the configuration, location, maximum expected load, and maximum expected radius does not change. Use multiple lift plans for multiple locations.

7. The Crane Lift Plan must be COMPLETE along with attachments – see Section 5 for the required Attachments.

8. All rigging devices MUST bear the name of the manufacturer and be certified as to their capacity. Custom-fabricated devices (lifting beams, spreader bars, etc) may be acceptable with proper PE stamp or proof testing as required by applicable standards. Capacities shall be marked and legible on all such devices.

9. Work that is not anticipated in the Crane Lift Plan, but may arise due to site conditions (moving equipment, loading materials onto floors, etc) must be reviewed with Dimeo prior to hoisting. Changes affecting crane configuration and / or location may require the Crane Lift Plan to be amended.

10. The Subcontractor is responsible to visit the site prior to the lift date to review documentary information pertaining to the site, which is maintained by Dimeo. The subcontractor is responsible (determining adequacy, supplying and installing) for all supporting material (as defined within 29 CFR 1926.1402) necessary for the crane lift.

11. The Subcontractor is responsible to obtain all information that is necessary to develop a power line safety plan.

12. The Subcontractor is responsible to train all personnel involved in the Assembly / Disassembly and or Crane Lift.

13. The Subcontractor must provide the following information along with the Crane Lift Plan:
   - Competent / Qualified Person Designation Forms for A/D Director, Operator, Rigger, Signal Person
   - Load Chart (complete with notes)
   - Range Chart
   - Dimension Illustration and Specifications for Crane
   - Lightning and Wind Restrictions (from operators manual)
   - Area (Quadrant) of Operation Diagram
   - Operators License, Operators Training Information, USDOT Medical Certification, OSHA 10/30 Hour Course Completion Cards, as may be required by the project.
   - Jurisdictional Registration, if required
   - JHA for Assembly / Disassembly of Crane, Severe Weather, Truck Load / Unload, Etc.
   - JHA for Power Line Encroachment
   - 3rd Party Inspection Certification and Report – see Crane Lift Plan for requirements (Note: The inspector shall be certified with the CCAA).
   - Weights of Materials
   - Rigging Plan
   - Logistics Plan

14. The Subcontractor shall comply with the Site Specific Safety & Loss Control Program.

15. The Subcontractor / Crane Company / Rigging Company is responsible for the accuracy of plan and inspections. This planning process has been established to help ensure proper coordination between subcontractors and Dimeo Construction.

No warranty or certification of the suitability of this plan is accepted by Dimeo. It is the responsibility of the Subcontractor and the Crane Operator to ensure that they and their employees are qualified, competent, properly equipped and properly trained to perform the activities outlined in this plan.
### Crane Lift Plan

**Date of Lift:**

**Project Name:**

**Lift Location:**

**Subcontractor Name:**

Person Responsible for Plan / Contact Info:

**Name of Rigger / Signal Person**

**Crane Company Name:**

Person Responsible for Plan / Contact Info:

**Name of Operator:**

**Name of Assembly / Disassembly Director:**

(Note: A Competent / Qualified Person Designation Form must be submitted for each A/D Director, Operator, Rigger, or Signal Person)

### 1. Crane Information

<table>
<thead>
<tr>
<th>Make:</th>
<th>Model:</th>
<th>S/N:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Date of Manufacturer:**

**Size (Capacity in Tons):**

**Type**

- [ ] Hydraulic
- [ ] Friction
- [ ] Lattice
- [ ] Truck
- [ ] Rough Terrain
- [ ] Crawler

**Has the Crane been Idle for Longer than 3 Months**

- [ ] YES (Note: A new annual 3rd party inspection certification and report must be provided)
- [ ] NO (Note: Provide a copy of annual 3rd party inspection certification and report)

**Length of Main Boom?**

**Jib Used?**

- [ ] No
- [ ] Yes

**Load Line # of Parts:**

**Line Pull:**

**Max working radius of boom in feet:**

**Max Vertical Boom Elevation (including erected jib) in feet:**

**Will Max working radius of boom (including ½ length of load) be within 20’ of an Overhead Power Line?**

**Will Max Vertical Boom Elevation exceed 200’ above Existing Site Elevation?**

If yes, Provide Power Line Voltage:

If yes, Attach a JHA Outlining How Contact Hazard will be Mitigated – see Subpart CC.

**If yes, Provide FAA Permit No. (attach a copy of the permit to the Crane Lift Plan):**

**Will Crane Require Assembly On-site?**

**How will Outriggers be Configured?**

- [ ] Fully Extended
- [ ] Intermediate and Pinned
- [ ] Fully Retracted

If yes, Provide Manufacturers Assembly / Disassembly Instructions, and JHA Outlining How this Activity will be Performed. (Note: A new annual 3rd party inspection certification and report must be provided post A/D)

Exception: hydraulic crane with stowed jib that was included in the current annual 3rd party inspection.

**What is Max Imposed Operating Ground Pressure of Crane and Load in PSI with Cribbing (minimum of 3 times float area)?**

**Will this Activity Involve a Multi-Crane Lift and / or “Walking” a Load? If yes, Explain*:**

**Will any Load be Tripped? If so, explain WHY and HOW (multi-crane, multi-drum, lift / crib / lift, etc.)*:**

* See items 3 of Crane Lift Plan Instructions for critical lift requirements.

### Lift Summary

<table>
<thead>
<tr>
<th>Max Radius of Boom</th>
<th>Min Boom Angle</th>
<th>Gross Deductions</th>
<th>Chart Capacity</th>
<th>% of Capacity Gross Deductions / Chart Capacity</th>
</tr>
</thead>
</table>
## 2. Load Characteristics

Will this crane lift plan cover multiple picks?

### Description of Load(s):

Maximum Load Characteristics (Provide information on both the HEAVIEST and the LARGEST volume load):

Weight of Max Load (Provide manufactures product data sheets and / or calculations)

Location of load Center of Gravity (Provide manufactures product data sheet and / or a sketch):

How will the Load Center of Gravity be determined:

Will any load be upended? If so, provide stability evaluation from manufacturer or professional engineer:

## 3. Rigging Information:

List rigging components - be specific: manufacturer, number of pieces, description, size, length, capacity and component weight (NOTE: Job built equipment must be engineered and proof tested).

Minimum Capacity Component (describe, and show capacity):

(Note: Provide a diagram for each rigging configuration)

## 4. Itemization of Crane Chart Capacity Deductions

<table>
<thead>
<tr>
<th>Deductions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight of Heaviest Load:</td>
</tr>
<tr>
<td>Rigging:</td>
</tr>
<tr>
<td>Jib:</td>
</tr>
<tr>
<td>Jib Hook:</td>
</tr>
<tr>
<td>Hook Block:</td>
</tr>
<tr>
<td>Load Line:</td>
</tr>
<tr>
<td>Other:</td>
</tr>
<tr>
<td>Gross Deductions:</td>
</tr>
</tbody>
</table>

## 5. Crane Location/Clearances

a. Provide a to-scale plot plan showing crane location, adjacent buildings, pipe racks, and other significant obstructions within load swing radius. Indicate direction and span of swing.

b. Provide a to-scale elevation depicting crane, adjacent structures, and load

c. What is the horizontal distance from the crane center pin to the nearest structure?

d. What is the minimum clearance from boom to highest point of structure during a pick?

e. What is the minimum clearance from load to highest point of structure during a pick?

f. What is the minimum distance from boom to load during a pick?

g. Will the load or any part of the crane be over any active piping, tanks, or equipment during a pick? Please explain:

h. Have underground site utilities been identified and located?

i. Will outriggers be located over underground utilities? If so, please explain protective measures to be taken:

j. Describe signaling procedure – who will be responsible for signaling? Will hand or radio signals be used?
### 6. Attachments Provided (All must be checked):

- Plot Plan w/Crane Location (identify swing path, delivery truck location, location of overhead power lines, for example)
- Elevation Plan (utilize crane range diagram for example)
- Crane Charts (including any applicable Notes)
- Load Calculations
- Rigging Lists
- Rigging Diagram
- Operator’s License (copy)
- Operator’s USDOT Medical Certificate
- OSHA 10 Hour (Note: in accordance with project requirements)
- Statement of Qualification and Competent Person Designation form for the crane operator to operate crane identified above.
- Statement of Qualification and Competent Person Designation form for A/D supervisor, rigger and signal person.
- State of CT Fire Marshal Registration
- State of CT Fire Marshal Registration (copy)
- Operator’s USDOT Medical Certificate
- OSHA 10 Hour (Note: in accordance with project requirements)
- Statement of Qualification and Competent Person Designation form for the crane operator to operate crane identified above.
- Statement of Qualification and Competent Person Designation form for A/D supervisor, rigger and signal person.
- 3rd Party Annual Inspection Report (Note: cranes erected on-site will require 3rd party inspection as erected)

### 7. The Following Items are in the Crane Cab:

- Hand Signal Chart
- Fire Extinguisher
- Operators Manual
- Complete Load Capacity Charts with Notes
- State Crane License/Registration
- All other required paperwork, equipment
- Crane Lift Plan

### 8. Be prepared to confirm the following additional items:

- Crane Configuration in Compliance with Lift Plan
- Maximum Radius Confirmed (MEASURED) Without Load
- Maximum Load Confirmed Prior to Achieving Maximum Radius
- Outrigger Floats & Dunnage Installed (Minimum 3 times pontoon area, or crane capacity divided by 5.)
- Outriggers Fully Extended Position: Computer Set at:
- Lift Area and Equipment Inspected
- Counterweight Swing Radius Barricaded
- Lift Plan and Crane Permit in Cab of Crane
- Lift Plan and Crane Permit Reviewed with Rigging, Erection or Demolition Crew
- Taglines to be Used
- Copy of the Demolition Plan in the Cab of Crane (if applicable)
- Lift Plan and Crane Permit in Cab of Crane
- Lift Plan and Crane Permit Reviewed with Rigging, Erection or Demolition Crew

- Non-compliance with any part of this Crane Lift Plan will be grounds for immediate cessation of work and possible permanent removal from the site.

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**ALL sections MUST be completed and submitted to Dimeo Construction Company (Dimeo) for review prior to mobilization of crane – see instructions. The Use of Attachments for Continuations/Explanations is Encouraged - Please Reference the Section Number.**

**Subcontractor, Rigger and Crane Operator are Responsible for the Accuracy of all Calculations and Inspections. Any review conducted by Dimeo is to Ensure Completion of Form ONLY.**

### Signatures

| Crane Company Responsible Person | Name: | Signature: |
| Subcontractor / Rigger Responsible Person | Name: | Signature: |
| Phone # | Phone # |

| Dimeo Superintendent: | Signature |
| Dimeo Site Safety Manager: | Signature |

Submit this Completed form to your Dimeo Representative 48 hours prior to any crane mobilization.
# Crane Lift Plan

## Daily Crane Safety Review

A suitable Daily Inspection Form may be substituted by the Crane Operator.

<table>
<thead>
<tr>
<th>Subcontractor:</th>
<th>Responsible Person/Contact:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Competent Person Onsite:</td>
<td>Crane/ Rigging Company:</td>
</tr>
<tr>
<td>Responsible Person/Contact:</td>
<td>Operator:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date:</th>
<th>License #</th>
</tr>
</thead>
</table>

## Crane Information

<table>
<thead>
<tr>
<th>Make</th>
<th>Model</th>
<th>S/N</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Type</th>
<th>Boom Length</th>
<th>Jib Used?</th>
<th>Yes</th>
<th>No</th>
<th>Length</th>
<th>Offset, if Used</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Load Line # of Parts:</th>
<th>Lift Block Capacity:</th>
</tr>
</thead>
</table>

## The Following Items are in the Crane Cab:

- [ ] Hand Signal Chart
- [ ] Fire Extinguisher
- [ ] Complete Load Capacity Charts with Notes
- [ ] 3rd Party Inspection Report
- [ ] Completed Daily Inspection Sheet, last three Monthly Inspection Reports

## Check the Following:

- [ ] Anti-two Block Operational
- [ ] Overhaul Ball Capacity Marked
- [ ] All other required paperwork, equipment
- [ ] Backup alarm working
- [ ] All warning placards in place

- [ ] Boom Angle Indicator Functioning Properly
- [ ] Boom High Limit Functioning Properly (lattice boom)
- [ ] No broken or fogged glass
- [ ] Boom light/beacon if boom is higher than 200’

- [ ] Slings and Rigging Inspected
- [ ] All wire rope inspected
- [ ] Chains and chain slings have capacity tags
- [ ] All hooks inspected for wear and deformation
- [ ] Safety Latches in Place

## Dunnage/Blocking Available to Secure Loads

- [ ] Dunnage/Blocking Submitted and Reviewed (if applicable)
- [ ] Demolition Plan Submitted and Reviewed (if applicable)
- [ ] Bracing/ Temporary Supports Available for Use (will loads need to be secured during demolition?)
- [ ] All warning placards in place

## Confirm the following additional items:

- [ ] Crane Configuration in Compliance with Lift Plan
- [ ] Maximum Radius Confirmed (MEASURED) Without Load
- [ ] Note Radius ________
- [ ] Maximum Load Confirmed Prior to Achieving Maximum Radius
- [ ] Note Load ________

- [ ] Outriggers Fully Extended Position: (Consult Lift Plan if Not)
- [ ] Lift Area and Equipment Inspected
- [ ] Counterweight Swing Radius Barricaded
- [ ] Load Swing Radius Barricaded

- [ ] Outrigger Floats & Dunnage Installed (Minimum 3 times pontoon area, or crane capacity divided by 5.)
  
<table>
<thead>
<tr>
<th>Size:</th>
<th>Outriggers Fully Extended</th>
</tr>
</thead>
</table>
  
  | Copy of the Demolition Plan in the Cab of Crane (if applicable) | Lift Plan and Crane Permit in Cab of Crane |
  | Lift Plan and Crane Permit Reviewed with Erection or Demolition Crew |

## Notes:

Review Conducted By:  
Signature: