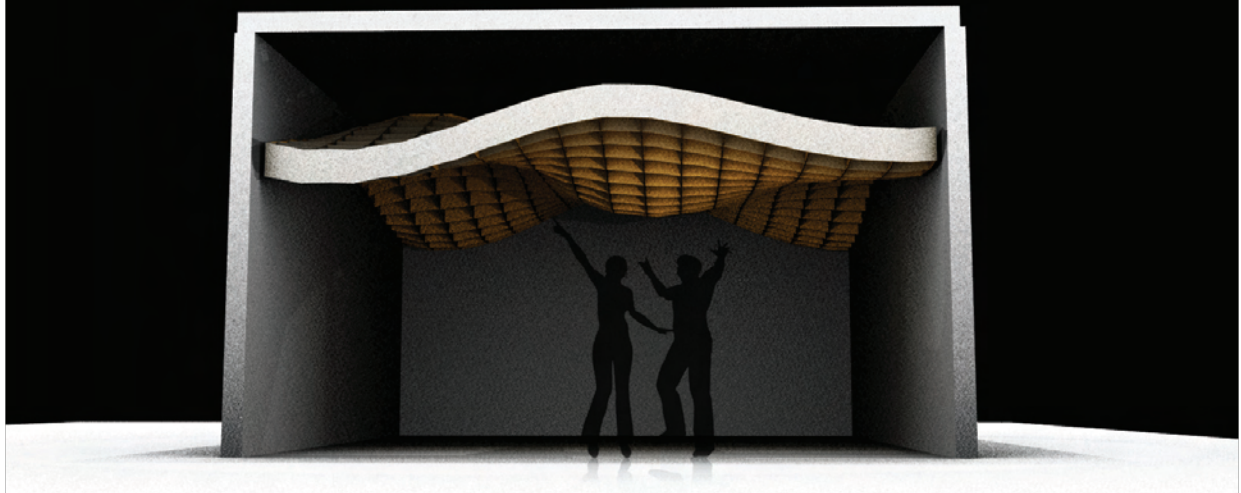


# Plywood Mesh #002

Project Proposal and Installation Plans  
Josh Canez, Lauren Hensley, Nick Schaider



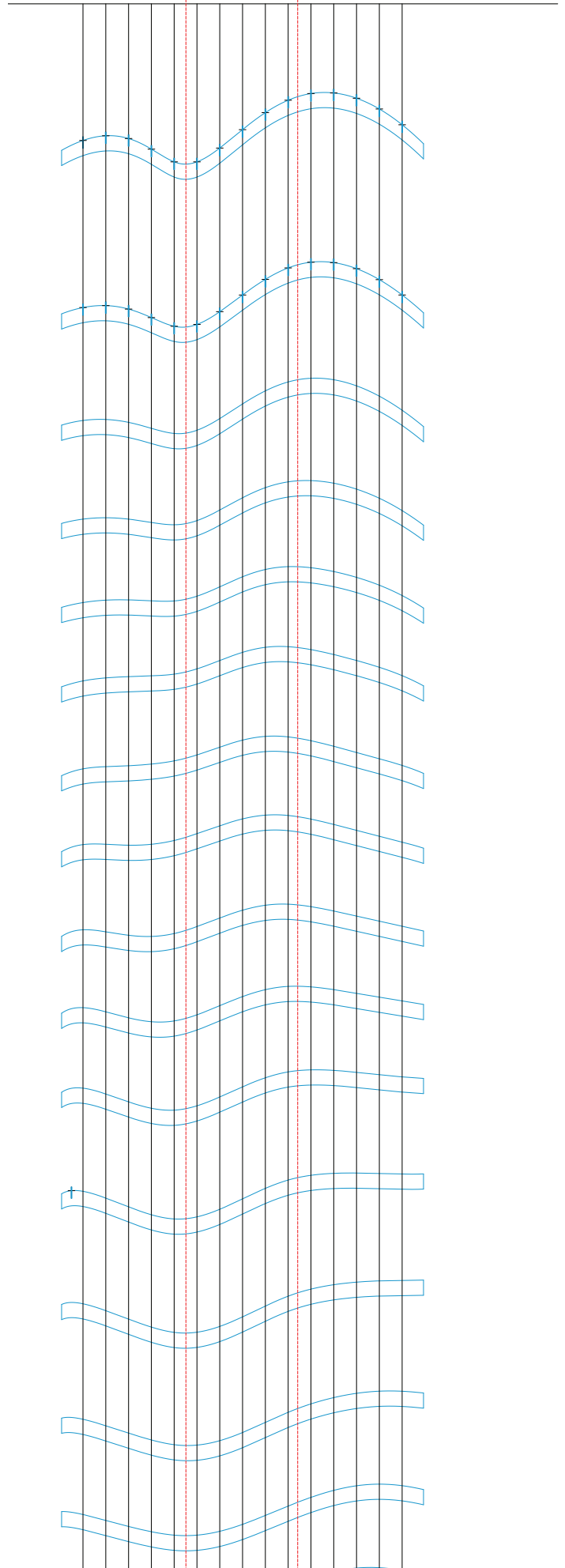
# CONTACT

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# PROJECT SCOPE

Welcome to the Plywood Mesh site proposal packet. In the following pages, we will attempt to provide the most accurate and responsible solution for installing Plywood Mesh #002 (PM#2) in the chosen site. Should you have any questions regarding the drawings, details, or information that follows, please direct them to Josh Canez. For any questions regarding faculty approval, please contact Dr. Mark Clayton.

PM#2 is a hanging sculpture designed and built by students. Made from plywood cut on a computer-controlled machine, it will be suspended on the first floor of Langford A, at the foot of the stairs above the major pedestrian crossing.

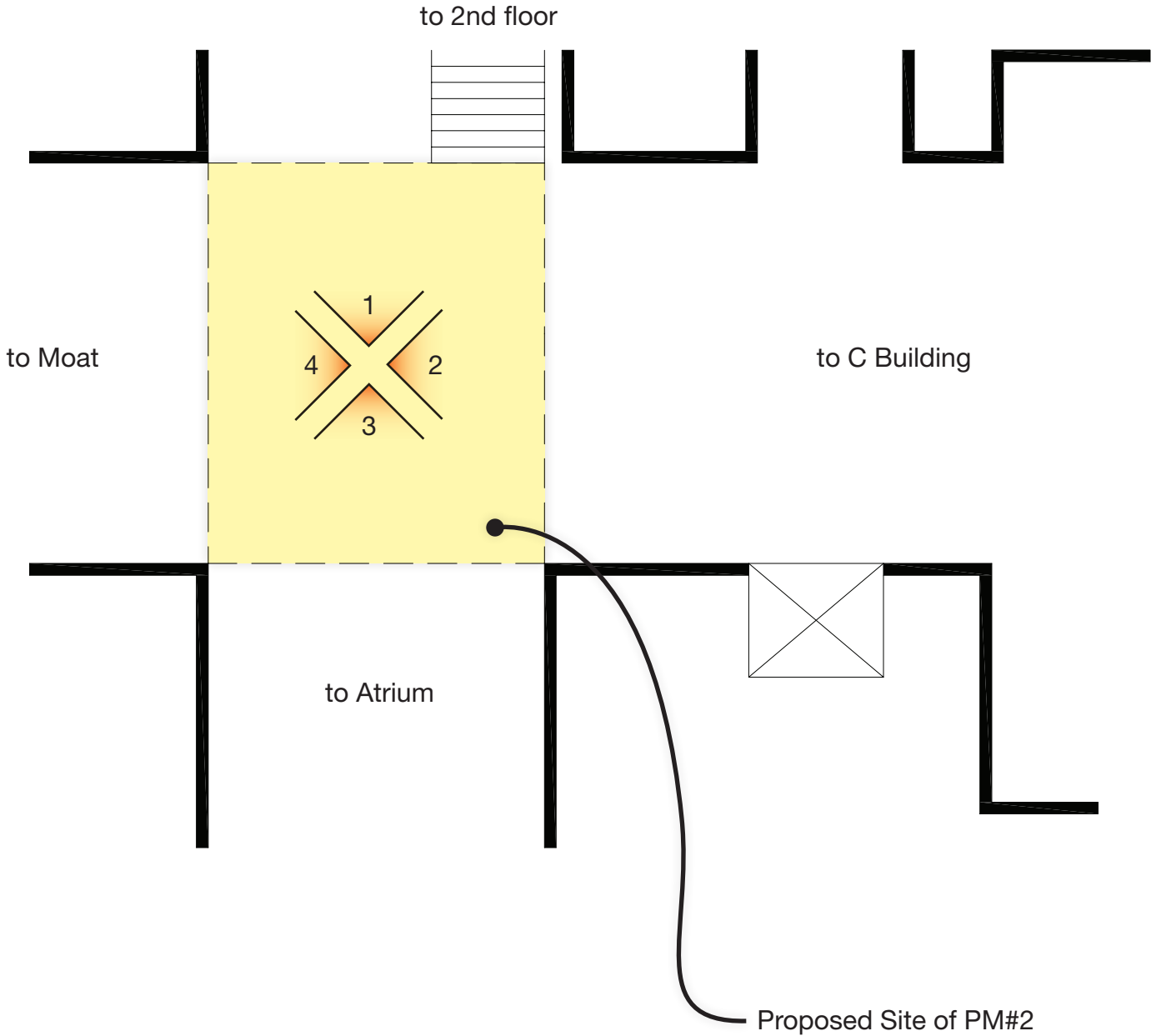
The physical structure of PM#2 is a series of interlocking plywood beams connected by notches and steel plates hung from cables attached to the existing structure. The resulting form is an 18'x16' dynamic gridded mesh drop ceiling that redefines the location and creates a sense of place.

The installation of PM#2 will occur in nine stages scheduled to occur over two consecutive eight-hour periods over a weekend or official university holiday. Our proposed installation dates are: Saturday, April 25th and Sunday, April 26th. It should be noted that these dates may change at any time, but will always fall on a non-school day.

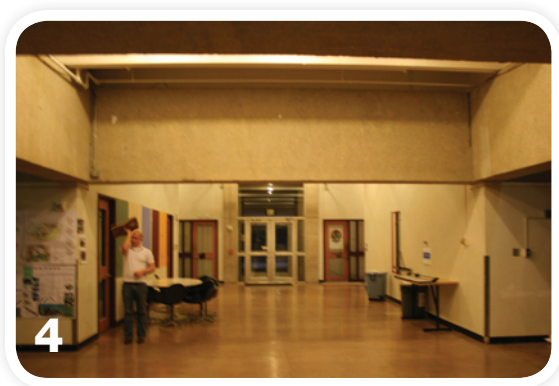
PM#2 is currently scheduled to hang indefinitely.



# LOCATION

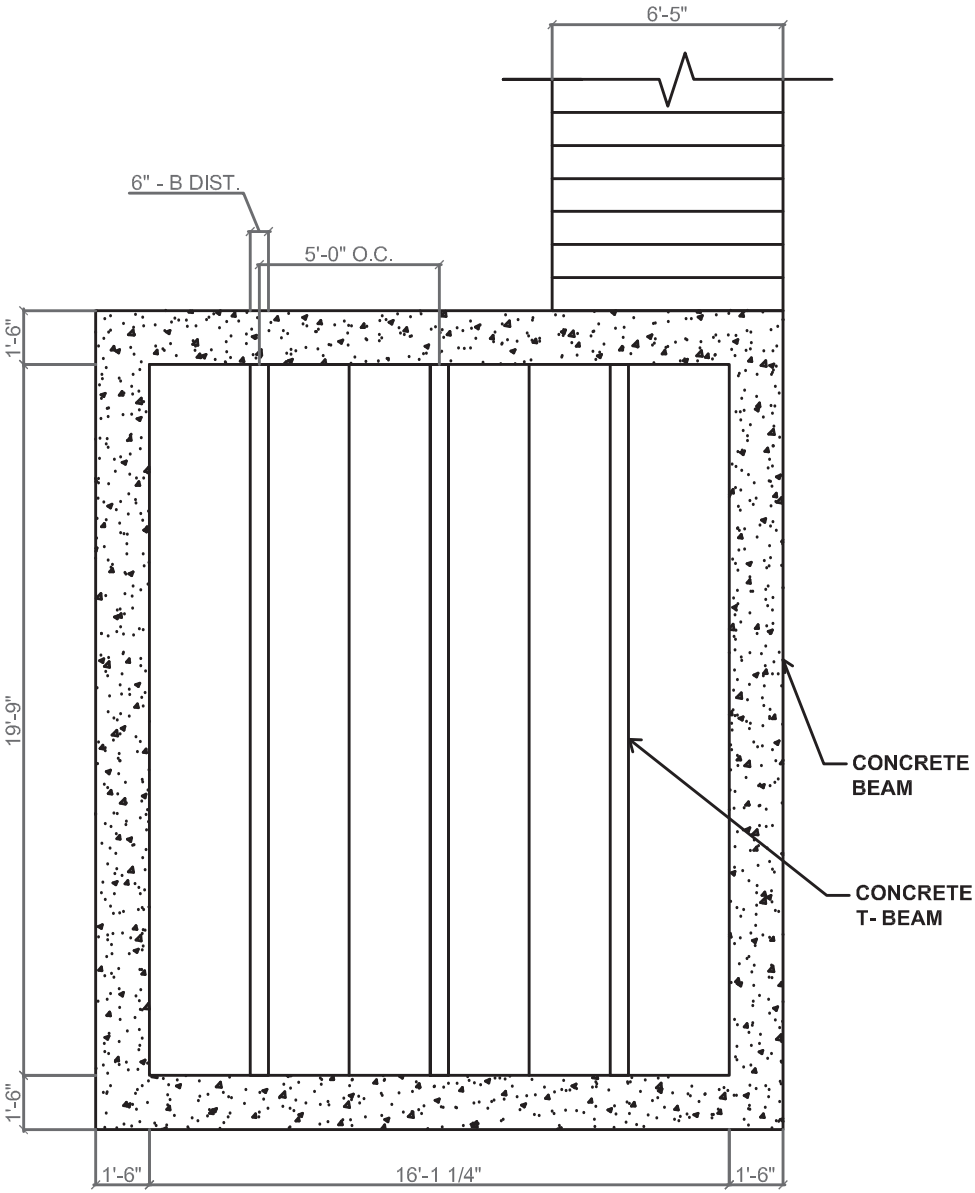


# LOCATION



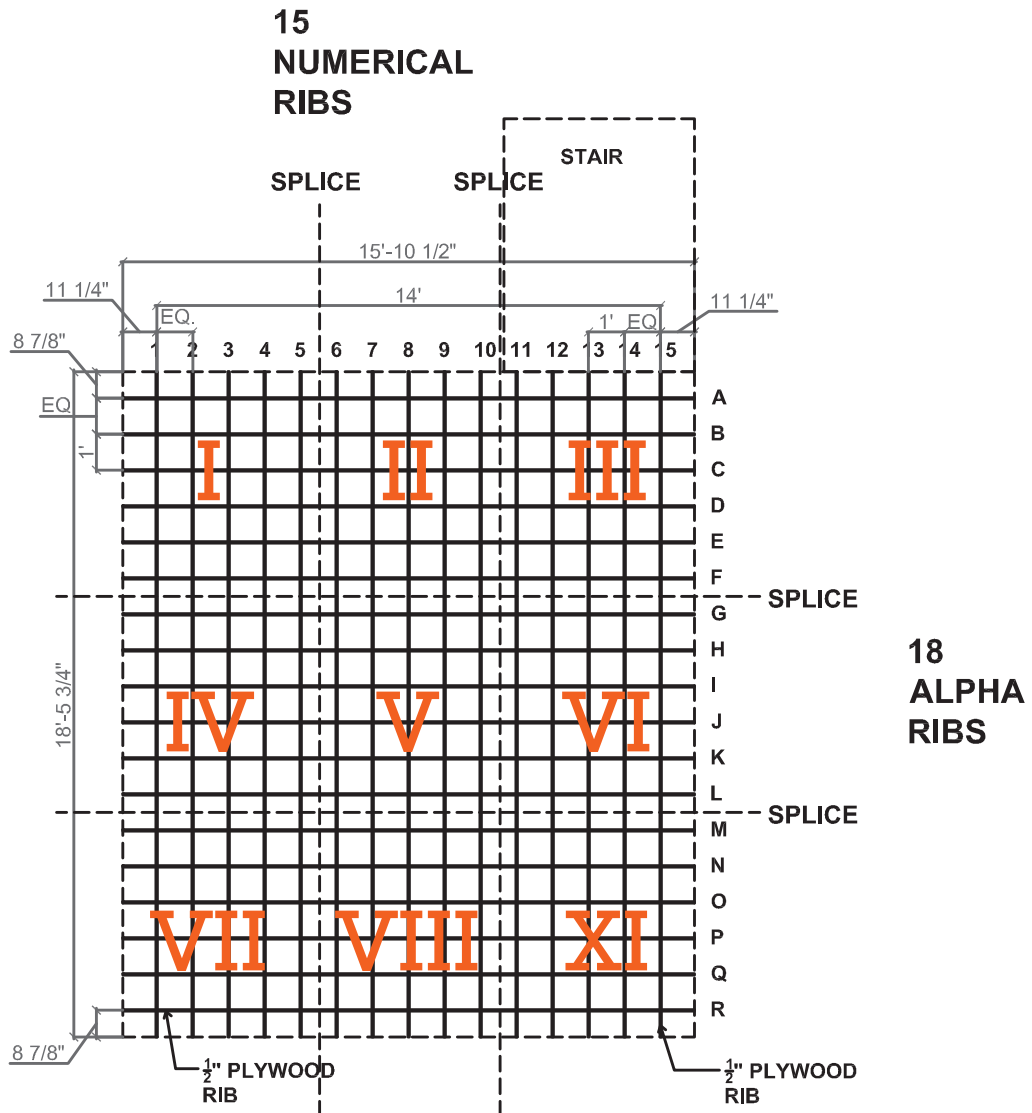
The proposed site of PM#2 is a high-traffic, low usability location with little or no aesthetic features. Our sculpture is intended to add beauty to this space without impeding pedestrian flow.

# PLANS



## RCP ENCLOSURE

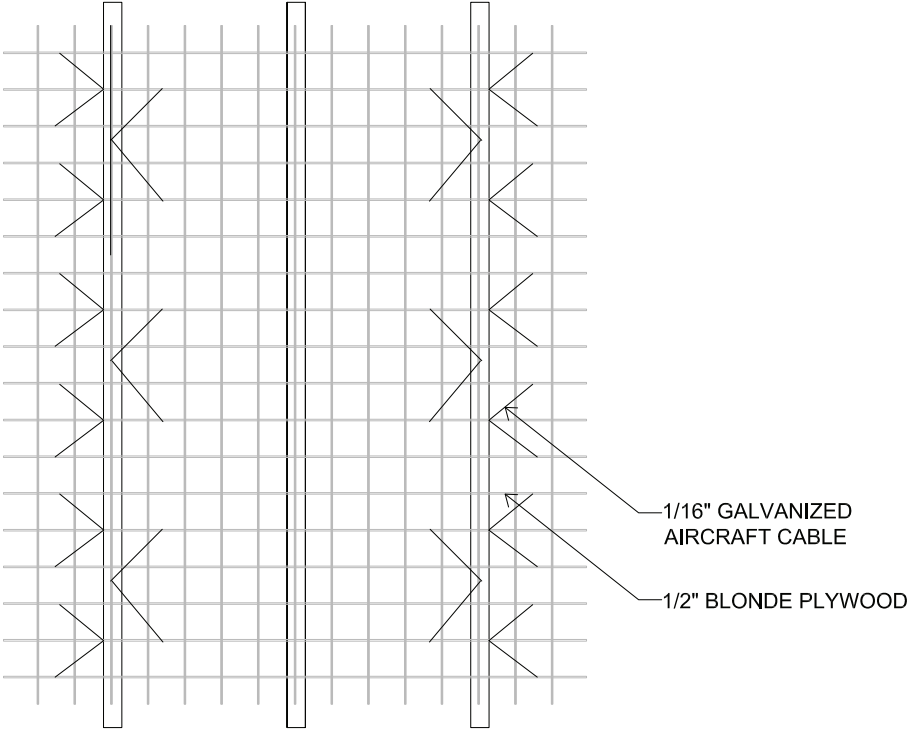
The existing structure of the site is more than adequate to support the loads created by our sculpture.



**PLAN**

PM#2 is composed of 33 ribs (18 alpha, 15 numerical) built in 9 modular sections.

# PLANS

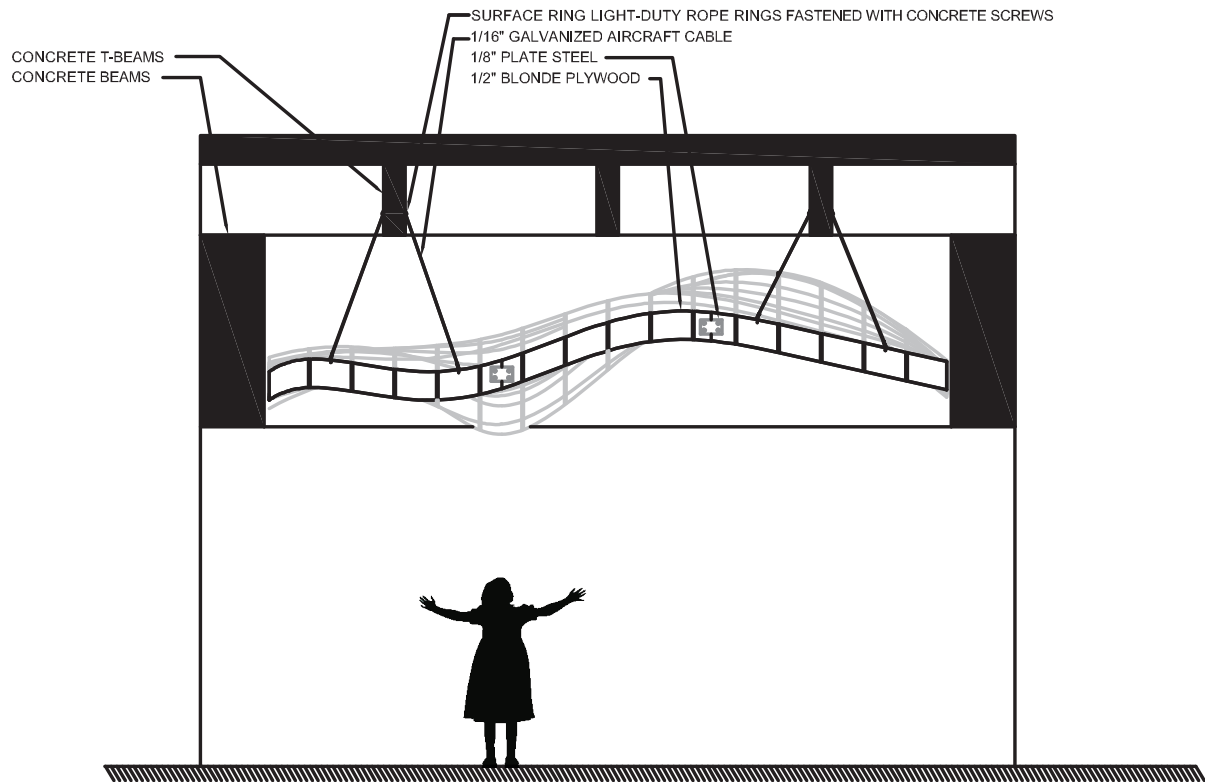


## CABLE PLAN

PM#2 is hung from a total of 36 1/16" steel cables attached to 18 surface-mount ring plates. Each cable carries an approximate load of 30 pounds.



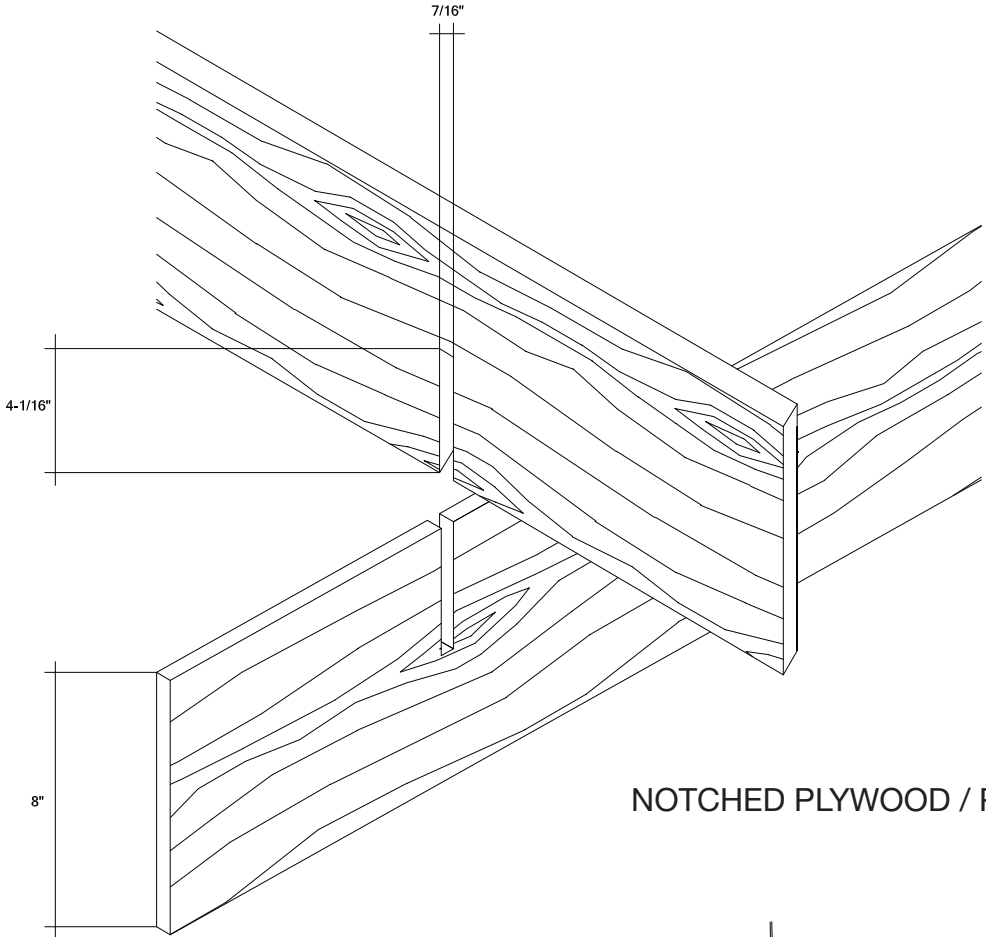
# SECTION



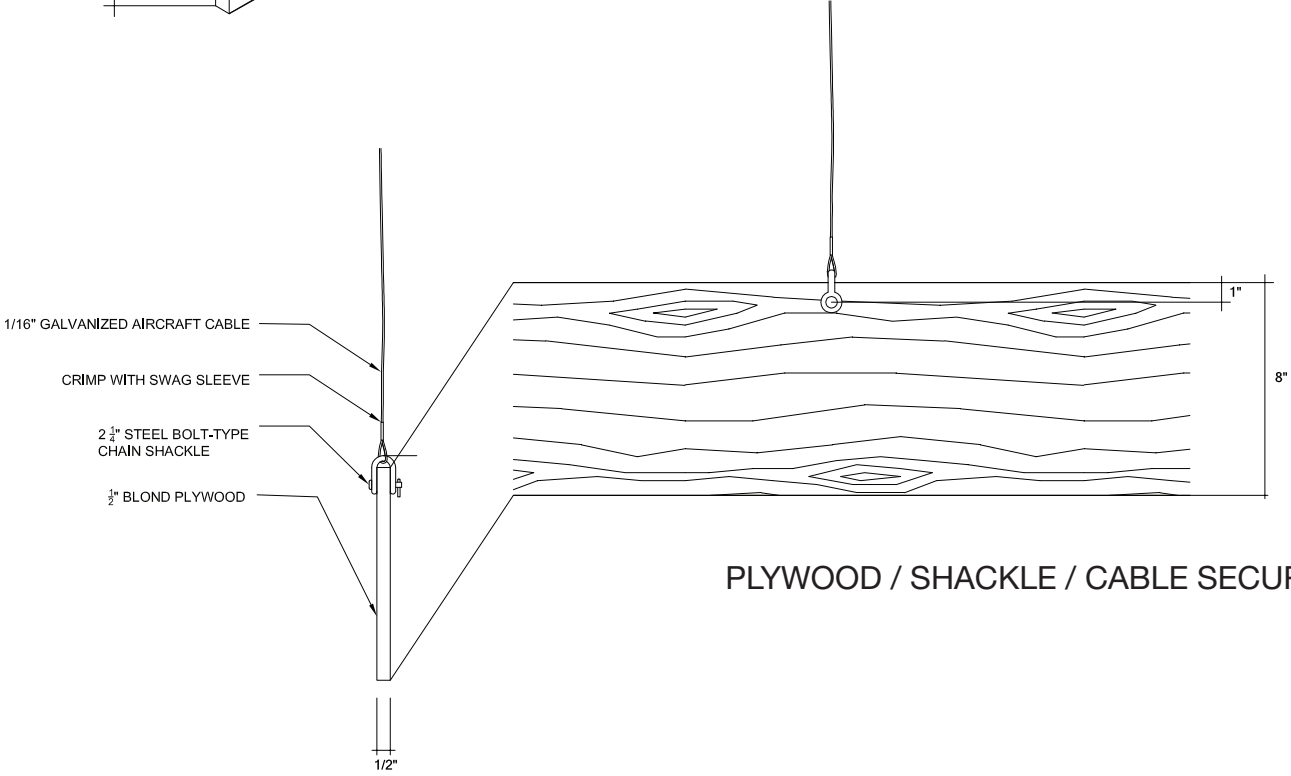
## SECTION

PM#2 hangs above the walking area and ranges from 7'8" at its lowest point to 10'3" at its highest, avoiding all existing lights and fire suppression.

# DETAILS

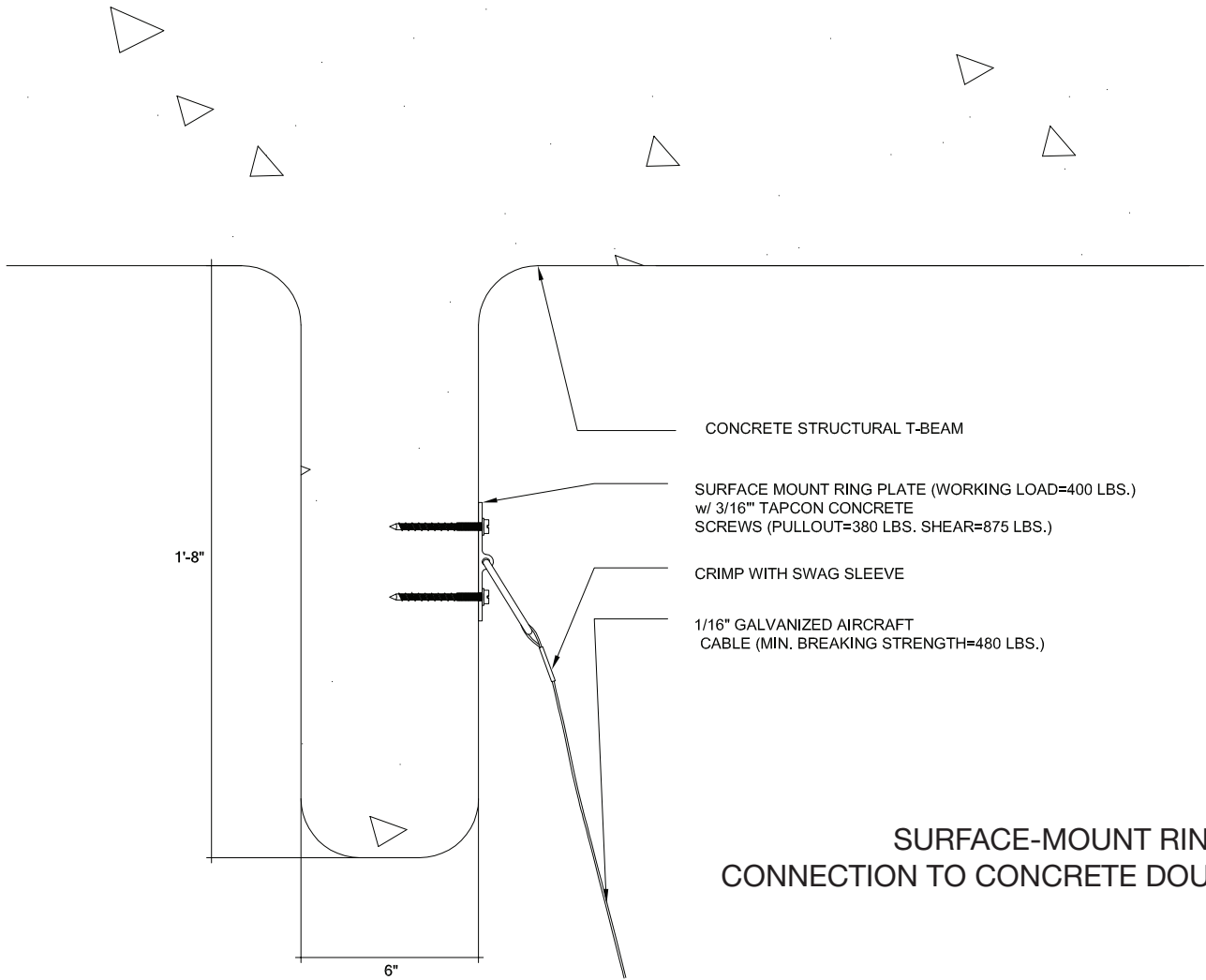


NOTCHED PLYWOOD / PLYWOOD CONNECTION

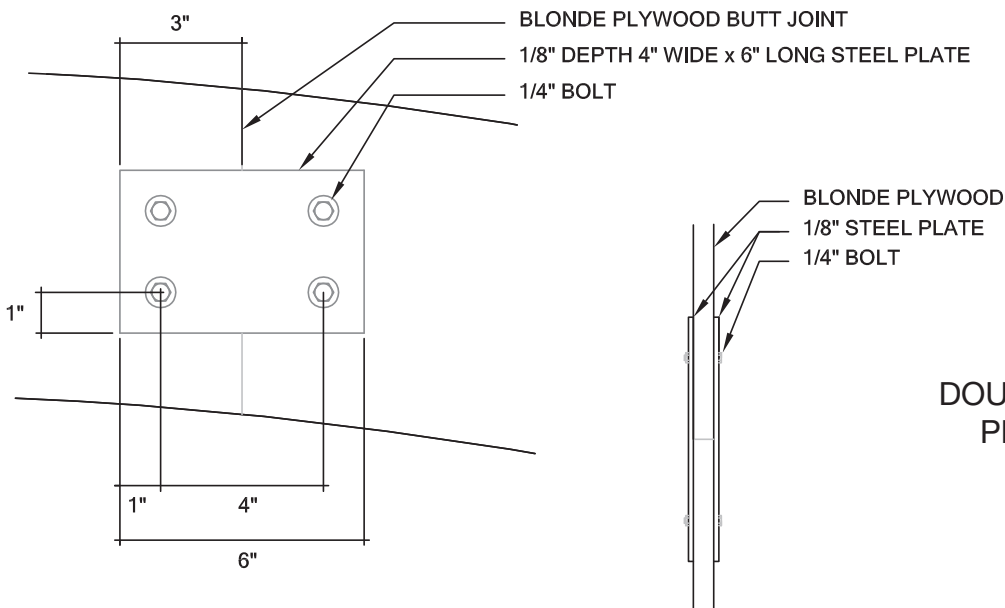


PLYWOOD / SHACKLE / CABLE SECUREMENT

# DETAILS

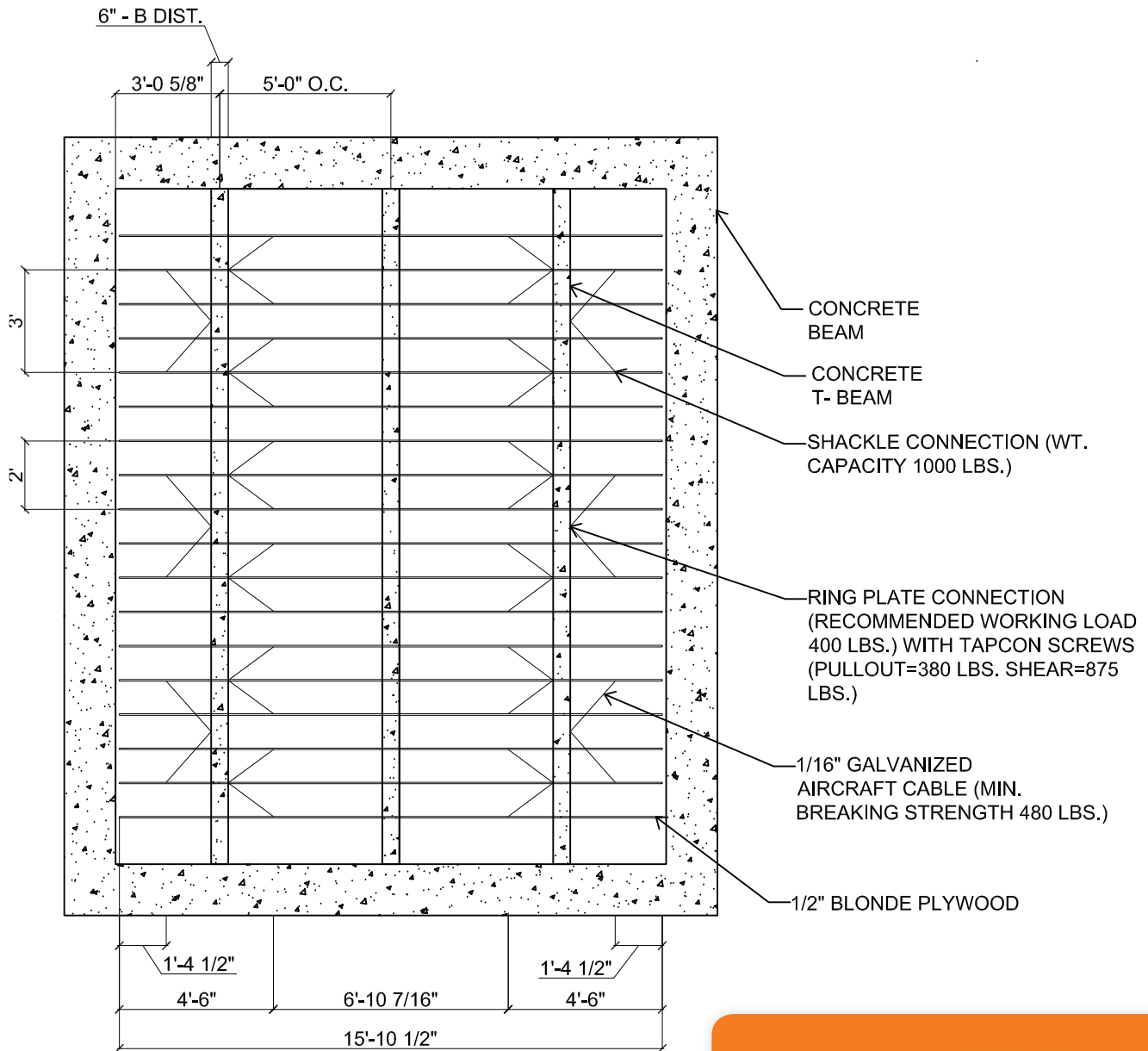


**SURFACE-MOUNT RING PLATE  
CONNECTION TO CONCRETE DOUBLE TEE**



**DOUBLE PLATE PLYWOOD /  
PLYWOOD CONNECTION**

# STRUCTURAL CALCULATIONS



## STRUCTURAL PLAN

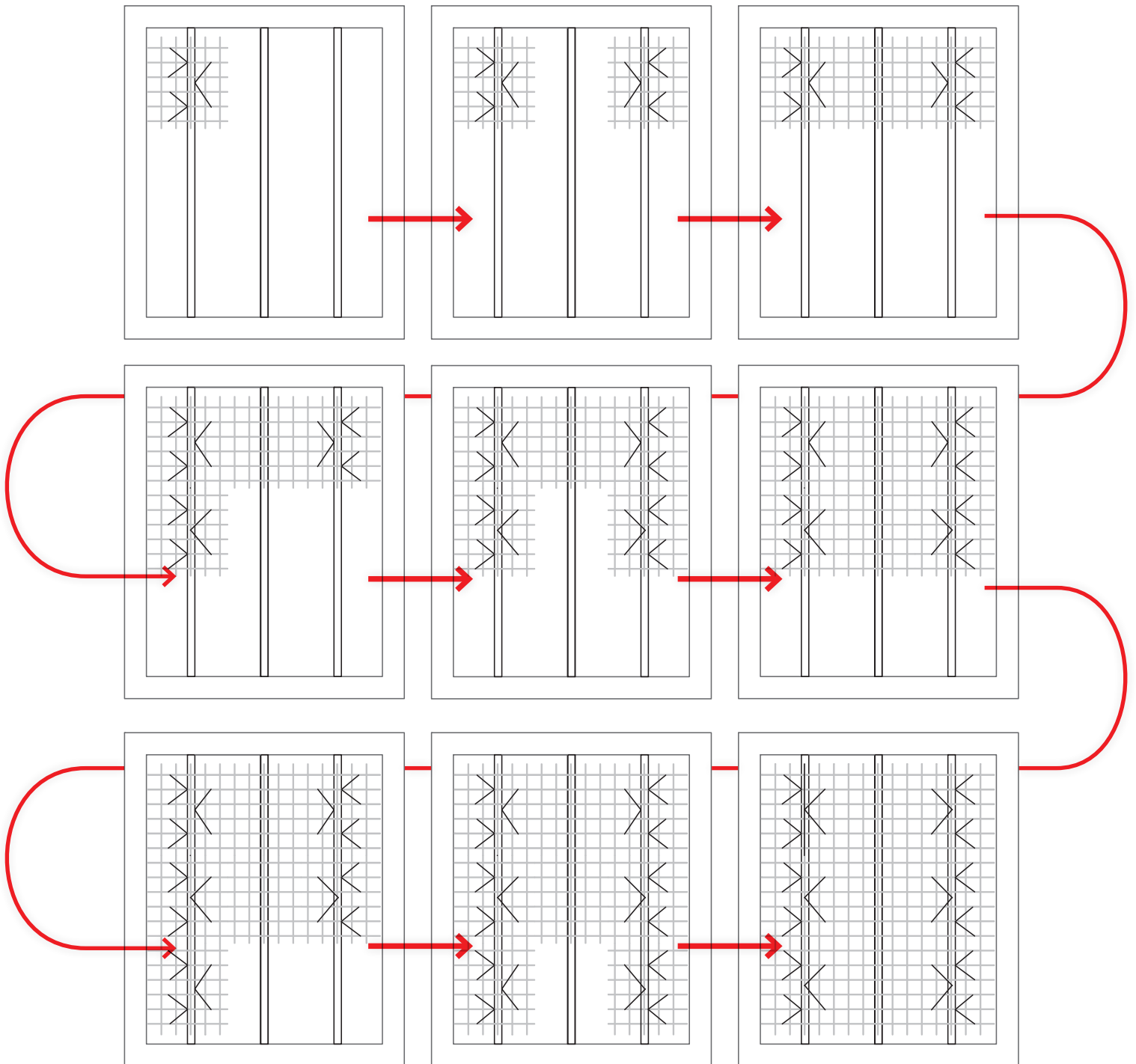
1/2 Blond Plywood = .011psi  
 Total Area= 51,840 square inches  
 Material Weight= 570.24 lbs.

LRFD:  
 Dead Load: 570 lbs. X 1.2= 684 lbs.  
 Live Load: 200 lbs. X 1.6 = 320 lbs.  
 Total Weight: 1004 lbs.

36 cables, 18 ring plates  
 Weight on each cable= 27.88 lbs.  
 Recommended working load for each cable= 120 lbs.  
 Weight on each ring plate= 55.78 lbs.  
 Recommended working load for 1 ring plate=250 lbs.

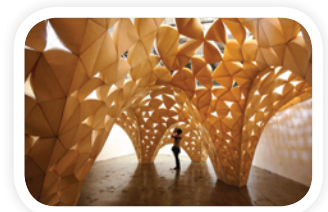
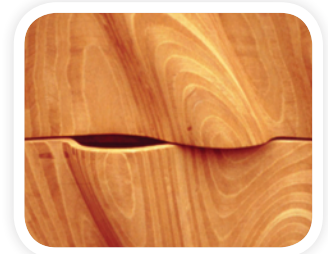
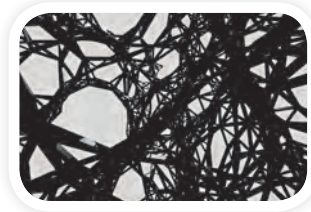
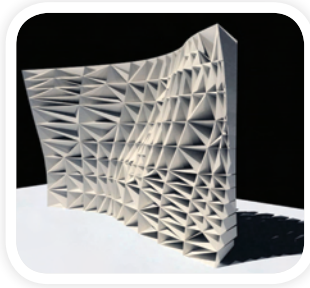
Structural components exceed design-load parameters.

# INSTALLATION



The installation of PM#2 will consist of:  
Install cable securement rings.  
Lift / Level / Secure side sections.  
Lift and connecting center sections.

# ASSORTED IMAGERY / INSPIRATION



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# MODELS & WORK IN PROGRESS

