



Rigging Policy / Overhead Work

The MacEwan Conference & Event Centre (MCEC) is equipped with permanent rigging systems in order to assist our clients with productions requiring overhead rigging. Rigging encompasses attaching hardware to ceilings, rigging motors, trussing, lighting and audio.

This policy applies to all overhead work at MacEwan Conference & Event Centre (MCEC). This Policy is also supplementary and/or to compliment other relevant and applicable legislation (such as OHS Act), other existing building health and safety policies, and the contractors own policies given to their workers.

Worker Competency, Training and Certification

All workers must have appropriate training and certification in the use of specialized equipment, tools and the acceptable techniques employed for working with heights.

Workers will be required to provide valid equipment specific operator certifications. Workers who fail to provide current certifications will not be permitted to operate equipment or proceed with production.

Specialized equipment, tools and procedures include, but, are not limited to:

- Aerial lifts / Scissor lifts operation
- Fall Arrest System
- Chain falls, hoists, winches, rigging apparatus, attachments, load cells etc...
- General knowledge of the MCEC structure, load capacities, attachment points/methods

Workers engaged in any overhead work activity must be properly outfitted with Personal Protective Equipment (P.P.E.). These may include safety footwear, hard hat, safety glasses, gloves and fall protection to be used as demanded by the tasks being accomplished.

Equipment, Tools and Hanging Components

At all times, small hand tools should be connected via a safety cable which prevents accidental dropping. Portable radios/ phones must be sheathed in a secure holster with a similar safety hook-up.

Any 3rd party lifting equipment, such as scissor lifts must have current certification demonstrating regular inspection and maintenance.

Chain hoists, chain falls, steel cables, slings, chokers and all other rigging equipment are to be regularly maintained, inspected and certified according to governing legislation, manufacturers' recommendations, and good industry practice.

All rigging must be done from high steel per approved industry standards. Production components (to be hung in the ceiling from approved load points or structural framing) including decor, trusses, speaker assemblies etc. must be inspected prior to installation.

Annual inspection certificates must be available for load-carrying components.



MacEwan
conference & event centre

Control of the Work Area

During the installation/removal of production components onto the ceiling space, the work area below is to be clear of people at all times. A 'ground rigger' must be in place to protect the area using both physical elements (signage, barricades, traffic cones etc.) and vigilance to ensure no one gains access.

Once production components are at a 'trim' height (final show position – no more movement) and the remaining overhead work is related to minor adjustments (focusing lights, tying up cable etc.) or when the installation is of lightweight components such as signs/banners, the required level of control of the work area is contingent on the presence of other activity in the area. A 'ground person' must be used to keep people and mobile equipment away from the work area and lift, perimeter markings or barriers may be required.

Under no circumstances should people be working directly under an aerial lift.

Production Schedule

A key requirement of a successful and safe workplace is the appropriate scheduling of the work activity.

The client, its service suppliers(s) in partnership with MCEC, must ensure that there exists a detailed production schedule for both technical set-ups and teardowns.

The schedule must define both start/stop times of each work group and the predecessor/successor relationships. As can be expected, the start of a tear-down schedule may be affected by a late event and in this case, we must always maintain the scheduled activity relationships.

All groups must have the appropriate resources (both people and equipment) on hand to accomplish the work in the allotted timeframe and abide by the scheduled order of activity.

Groups must provide contact names and mobile telephone numbers for key onsite personnel, for both the set-up and teardown.

Rigging Plot Approval

A scissor lift is required to hang all banners, signs, truss, decor, etc lift charges and labour rates apply.

Rigging from any lighting fixtures, plumbing, or sprinkler fixtures, electrical conduit, air ducts or any support mechanisms is strictly prohibited. Under no circumstances may a person be suspended, walk, or climb upon a point or supporting structure attached to the ceiling with rigging points.

The use of all special and unusual weights, motors, rigging apparatus or items not normally hung must be pre-approved in writing from MCEC.

Exceedingly large rigging designs which support abnormal loads, or non-uniform distribution of weight or hardware, may require (at the client expense) plans which have been approved and stamped by a licensed engineer selected by MCEC.

Any weight exceeding the pre-approved limits is subject to removal at the client's expense.

Rigging plots must include the location and maximum magnitude of all loads which will be attached to the supporting structure. Load figures for each rigging point are required. All markings and information are to be presented on a venue specific reflective ceiling plan.

Prior to rigging any significant loads in the MCEC structure, the riggers must verify that a rigging plot has been submitted and approved.

Rigging plots must be submitted a minimum of 4 weeks prior to the move in dates. For other circumstances, please contact the Director, Facilities and Building Operations, Barry Dyck at 403-220-3918.

Please complete the attached Rigging Load Release Form and send by email to events@macewancentre.com.



MacEwan
conference & event centre

Rigging Load Release Form

I _____, as the Director of my company: _____, hereby confirm that the drawings I have provided to MacEwan Conference and Event Centre (MCEC) for approval have illustrated all the necessary equipment and associated rigging point loads.

These rigging point loads do not exceed the pre-approved point load limits provided for each point on the MCEC drawings.

Furthermore, I understand and accept full responsibility for any incident or action as a result of my failure to comply with the strict adherence of these rigging load limits.

Enclosed with this signed form must be:

- Certificate of insurance in the amount of \$5,000,000.00 or more
- WCB clearance certificate from the prime contractor
- Valid fall protection certification
- Valid (equipment specific) lift operator certification

Name of Event: _____

Location of Event in MCEC: _____

Event move-in date/time: _____

Event move-out date/time: _____

Company Director's Signature: _____ Date: _____

Date Received by MCEC: _____

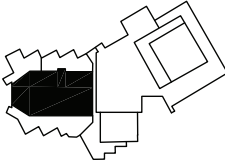
MCEC Manager: _____

Please complete this Rigging Load Release Form and send by email to events@macewancentre.com.

NOTE: Rigging Load Release Form is only required for significant rigging activities and should accompany the rigging plot sent for approval. It is not for banners, signs or other small loads.

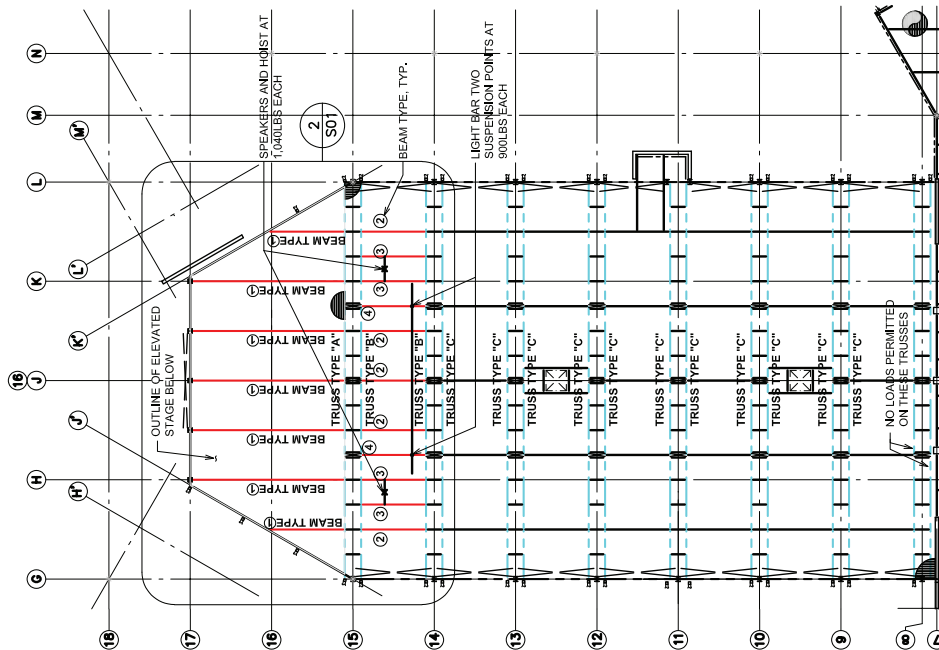


MacEwan
conference & event centre



KEY PLAN
SCALE : NTS

NOTE:
- ANY ADDITIONAL LOADING OR LOAD CASES MUST BE REVIEWED BY A STRUCTURAL ENGINEER.
- REFER TO BEAM LOAD TABLES AND TRUSS LOADING PLANS ON S02 FOR RIGGING LOADS.



2
S01 N.T.S.

PARTIAL PLAN

Project Name
UNIVERSITY OF CALGARY MACEWAN STUDENT CENTRE
RIGGING PLAN
Sketch Title
KEY PLAN AND ROOF PARTIAL PLAN
S01

Dwg. Ref.
Scale
AS NOTED
Date
MAY 2022
Project No.
CAL027220.0189
Sketch Number
Rev.
S01



PERMIT TO PRACTICE
READ JONES CHRISTOFFENSEN LTD.
INDUSTRY #2 - 2022
PERMIT NUMBER: P000152
The Association of Alberta Professional Engineers

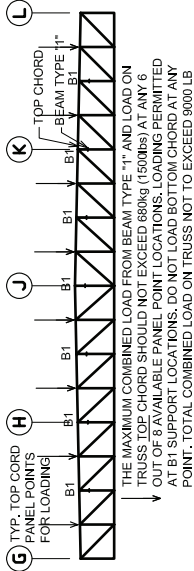
1
S01 N.T.S.

MACEWAN HALL PARTIAL
ROOF PLAN - BEAM AND
TRUSS TYPE - KEY PLAN

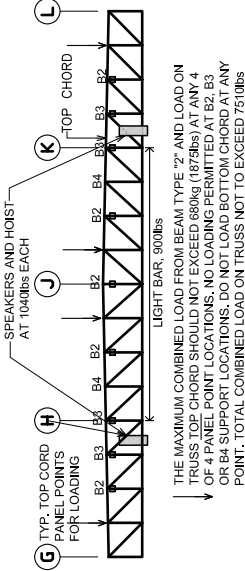


BEAM RIGGING LOAD SCHEDULE WITH SPEAKERS AND LIGHT BAR IN PLACE				
UNIFORM LOAD	POINT LOAD AT MIDSPAN	POINT LOAD AT THIRD POINTS	POINT LOAD AT QUARTER POINTS	
BEAM TYPE ① – OVER STAGE				
MAX TOTAL LOAD = 1360kg (3000lb)	MAX LOAD = 1360kg (3000lb)	MAX LOAD = 2x680kg (2x1500lb)	MAX LOAD = 3x450kg (3x1000lb)	
BEAM TYPE ② – FRONT OF STAGE				
MAX TOTAL 430kg (950lb)	MAX LOAD = 430kg (950lb)	MAX LOAD = 2x215kg (2x475lb)	MAX LOAD = 3x140kg (3x315lb)	
BEAM TYPE ③ – FRONT OF STAGE SUPPORTING ENDS OF SPEAKER CROSS SUPPORT				
MAX TOTAL 195kg (430lb)	NOT AVAILABLE WITHOUT REMOVAL	MAX LOAD = 2x100kg (2x220lb) OR AT ENDS OF BEAM	NOT AVAILABLE WITHOUT SPEAKER REMOVAL	
BEAM TYPE ④ – FRONT OF STAGE SUPPORTING LIGHT BAR				
MAX TOTAL 195kg (50lb)	MAX LOAD = 22kg (50lb)	MAX LOAD = 2x11kg (2x25lb)	NOT AVAILABLE WITHOUT LIGHT BAR REMOVAL	
NOTE: FOUR OPTIONS ABOVE ARE SEPERATE LOAD CASES AND ARE NOT TO BE APPLIED SIMULTANEOUSLY.				

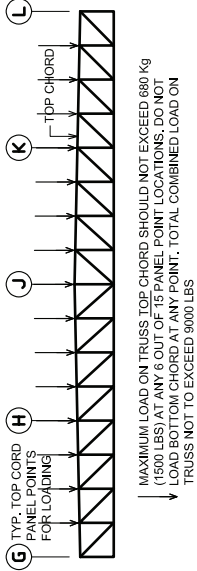
BEAM RIGGING LOAD SCHEDULE WITH SPEAKERS AND LIGHT BAR REMOVED				
UNIFORM LOAD	POINT LOAD AT MIDSPAN	POINT LOAD AT THIRD POINTS	POINT LOAD AT QUARTER POINTS	
BEAM TYPE ① – OVER STAGE				
MAX TOTAL 1360kg (3000lb)	MAX LOAD = 1360kg (3000lb)	MAX LOAD = 2x680kg (2x1500lb)	MAX LOAD = 3x450kg (3x1000lb)	
BEAM TYPE ② – FRONT OF STAGE				
MAX TOTAL 430kg (950lb)	MAX LOAD = 430kg (950lb)	MAX LOAD = 2x215kg (2x475lb)	MAX LOAD = 3x140kg (3x315lb)	
BEAM TYPE ③ – FRONT OF STAGE SUPPORTING ENDS OF SPEAKER CROSS SUPPORT				
MAX TOTAL 430kg (950lb)	MAX LOAD = 430kg (950lb)	MAX LOAD = 2x215kg (2x475lb)	MAX LOAD = 3x140kg (3x315lb)	
BEAM TYPE ④ – FRONT OF STAGE SUPPORTING LIGHT BAR				
MAX TOTAL 430kg (950lb)	MAX LOAD = 430kg (950lb)	MAX LOAD = 2x215kg (2x475lb)	MAX LOAD = 3x140kg (3x315lb)	
NOTE: FOUR OPTIONS ABOVE ARE SEPERATE LOAD CASES AND ARE NOT TO BE APPLIED SIMULTANEOUSLY.				



1 TRUSS TYPE "A"



2 TRUSS TYPE "B"

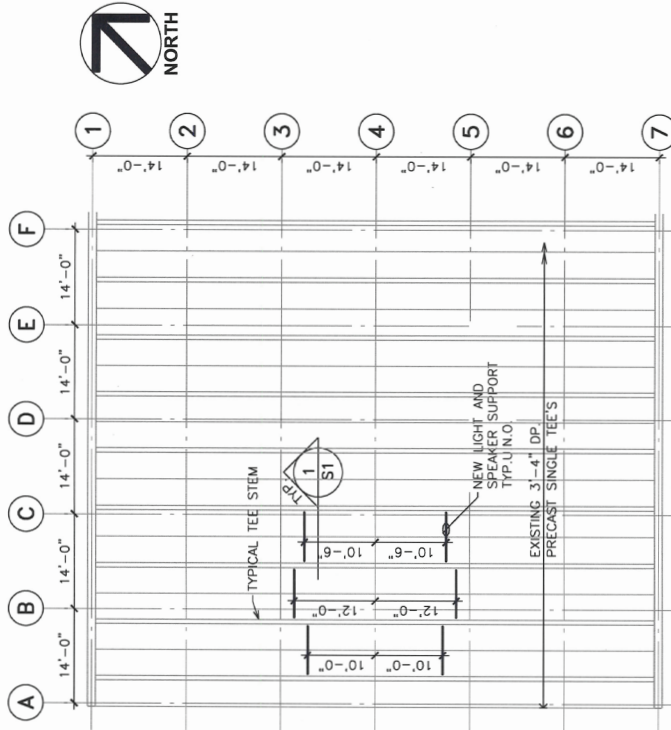


3 TRUSS TYPE "C"





MacEwan
conference & event centre



MACEWAN HALL BALLROOM (3rd FLOOR)
RIGGING REFLECTED CEILING PART PLAN
1/16"=1'-0"



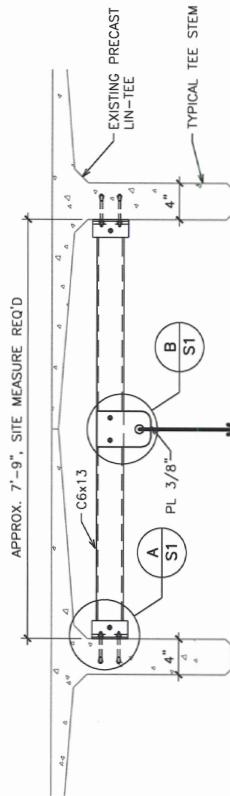
Read Jones Christoffersen Ltd.
PERMIT NUMBER: P 152
The Association of Professional Engineers
and Geoscientists of Alberta

Read Jones Christoffersen Ltd.

1816 Crowchild Trail NW, Suite 500
Calgary, AB T2M 3Y7 Canada
tel 403-283-5073
fax 403-270-8402
rjc.ca

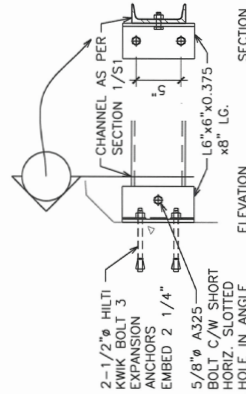
UNIVERSITY OF CALGARY
BUILDING MACEWAN HALL BALLROOM
(3rd FLOOR)
NEW LIGHT AND CEILING SPEAKER SUPPORT

Scale AS SHOWN Date 19-04-01 Project No. CAL 027280.0167 Sketch Number S1 Rev. 0

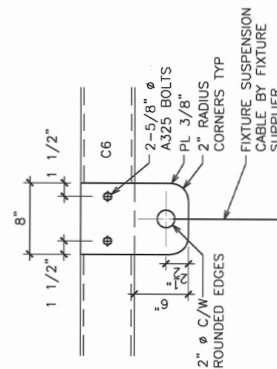


MAX. 2000lbs (SERVICE LOAD)
@ MID SPAN OF C6
NOTE: VERTICAL LOAD ONLY

1
S1
1/2"=1'-0"



1
S1
1/2"=1'-0"



1
S1
1/2"=1'-0"





MacEwan
conference & event centre

MacEwan Ballroom Hoist System

System Description

There are 6 ChainMaster SB4.1/12J hoists which are intended for, capable of, and rated for suspending a load over people according to the manufacturer and in accordance with BVG D8+ . These hoists are controlled by a handheld controller plugged into the on wall stage right. The controller and the relay panel located in the booth at the back of the hall each have an E stop which will prevent the system from operating. Breakers for the relay panel are located in the booth. Hoist 1&2 support an 8" truss for event lighting and have additional slings that are intended for attaching a production truss.

Capacities

Each hoist has a SWL capacity of 500kg, 1100 lbs.

Each suspension point has been engineered to 907 kg, 2000 lbs

The F 24 8" square truss as manufactured by Global Truss has a UDL capacity of 30 lbs per foot and a Centre Point Load capacity of 360 pounds

Note the self-weight of the 8" truss and fixtures on it must be included in the loading of the first two hoists. The self-weight of the truss is 74 lbs PLUS lighting.