

Reva and David Logan Center for the Arts
PERFORMANCE HALL
TECHNICAL BROCHURE



THE UNIVERSITY OF
CHICAGO

Arts

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PERFORMANCE HALL



PERFORMANCE HALL

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PERFORMANCE HALL

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STAGE

GENERAL INFORMATION

STAGE FURNITURE

Wenger Musician Chairs
Wenger Classic 50 music stands
4 - Choral Risers, 3 step or 4 step plus railing
4 - Southern Aluminum brand 4'x8' stage risers with 8", 16" or 24" legs; black velour skirting available in 16" and 24"
1 - Wenger Director's Stand
1 - Wenger Conductor's Podium
1 - Standard Wooden Lectern
1 - Standard Lucite Lectern
1 - Drum Rug

Please **reserve quantities in advance** to ensure availability.

PIANOS

2 - Steinway & Sons – 9' Model D (2012 and refurbished 1905)
1 - Yamaha P22 Upright Piano
A **fresh piano tuning** is available on request for \$125

STAGE MATERIAL

The stage floor is made from unfinished reclaimed Merbau wood from south-east Asia. The stage floor is not sprung.

The entire stage area can be covered in black vinyl marley dance flooring. Dance flooring should be requested by groups planning to use the stage **barefoot**.

ACOUSTIC SHELL

The upstage wall may be brought forward to create a curvilinear **acoustic shell** for unamplified musical performances.

WALL PANELS

The stage-left and stage-right walls can pivot open and lock to create stage wings.

POWER

A 400-Amp three-phase **company switch** is available for additional power needs.

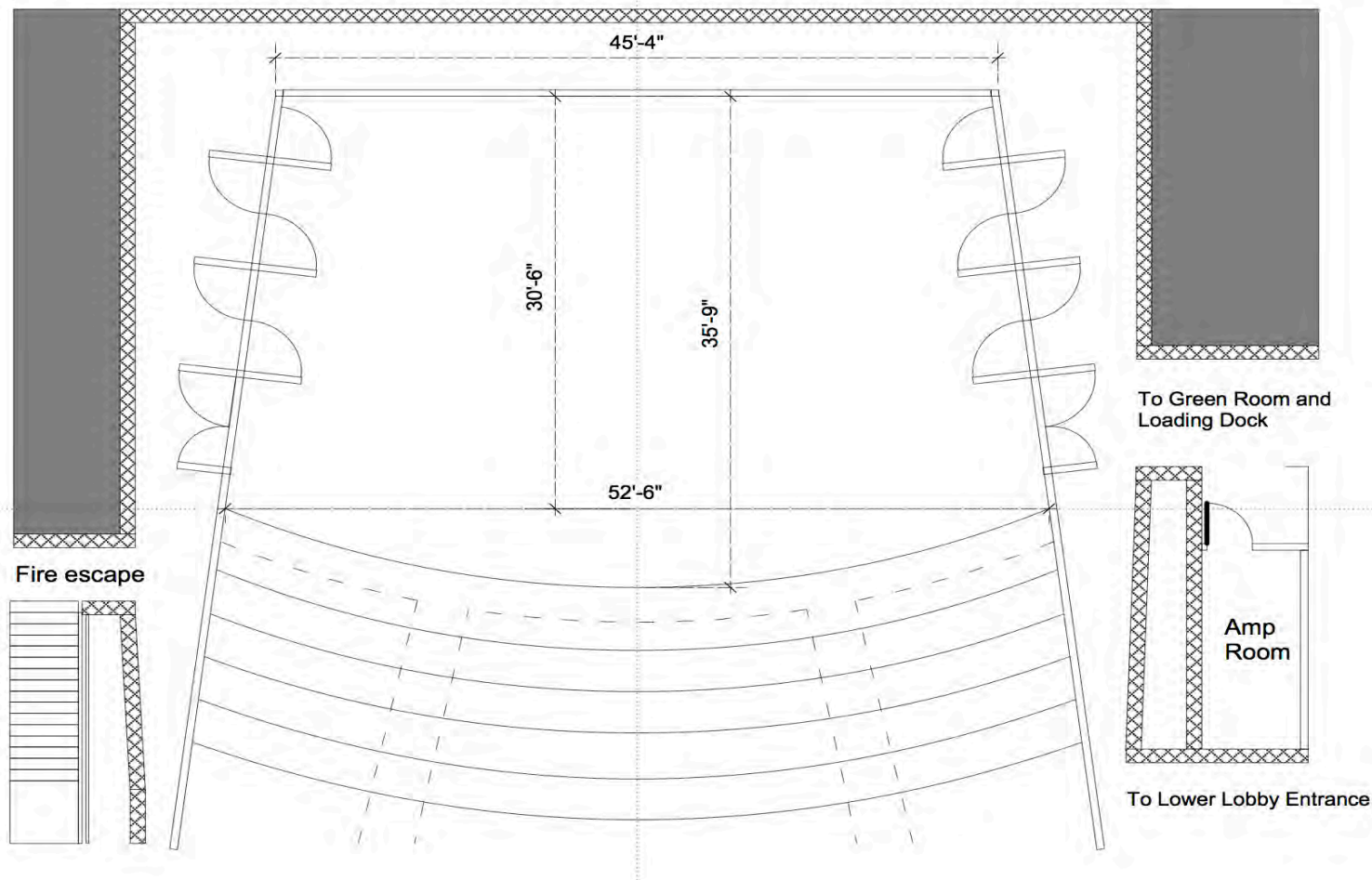
Use of the company switch **must** be approved in advanced and all connections must be made by an in-house electrician.

Those interested in using the company switch must provide a certified, and regularly tested, power distribution system capable of safely handling 400 amps.

Connections to the company switch **must** be made through 5 Camlock connectors. The 'floating' of any connection for alternative power distribution is not allowed under any circumstance.



STAGE FLOOR PLAN





AUDIO

LOUDSPEAKERS & PRIMARY EQUIPMENT

MAIN SYSTEM

A left-center-right main loudspeaker system is permanently flown above the stage. 2 subwoofers and 2 wall mounted left-right side fills are tied into the main sound system.

L-C-R Mains: **EV Xi 2123A** (3) Flown; Motor-Controlled Height
L-R Side Fills: EV ZX1 (2)
L-R Subwoofers: EV X-Sub (2)

FOH CONSOLE

Avid **VENUE SC48** (D-Show 3.0)
40 Microphone/Line Inputs*
16 Analog Line Outputs
4 Channels of AES3/EBU Outputs

*All inputs and outputs to the board are available at the stage level.

MONITOR SYSTEM

Eight independent monitor mixes feeding 16 available NL2 Speakon outputs. **Monitors are run from the FOH console.**

3 - EV TX1122FM
2 - EV TX1152FM
2 - Community M12

Additional portable loudspeakers available for use:

2 - EV TX1122
4 - EV Xi1082
2 - JBL PRX612

MICROPHONE LIST

4 - Shure SM57
4 - Shure SM58
2 - Shure Beta 58A
2 - Shure SM87A
2 - Shure SM27
2 - Shure KSM137
2 - Sennheiser MD421-II
3 - Crown PCC160
2 - DPA 4090

Shure ULX-P wireless microphone system:
(8 Simultaneous Channels)

8 - Shure ULX2-58 (handheld)
8 - Shure ULX2-WL185 (lavalier)
1 - Shure ULX2-87A (handheld)
2 - Countryman B6 (headsets)

MISCELLANEOUS

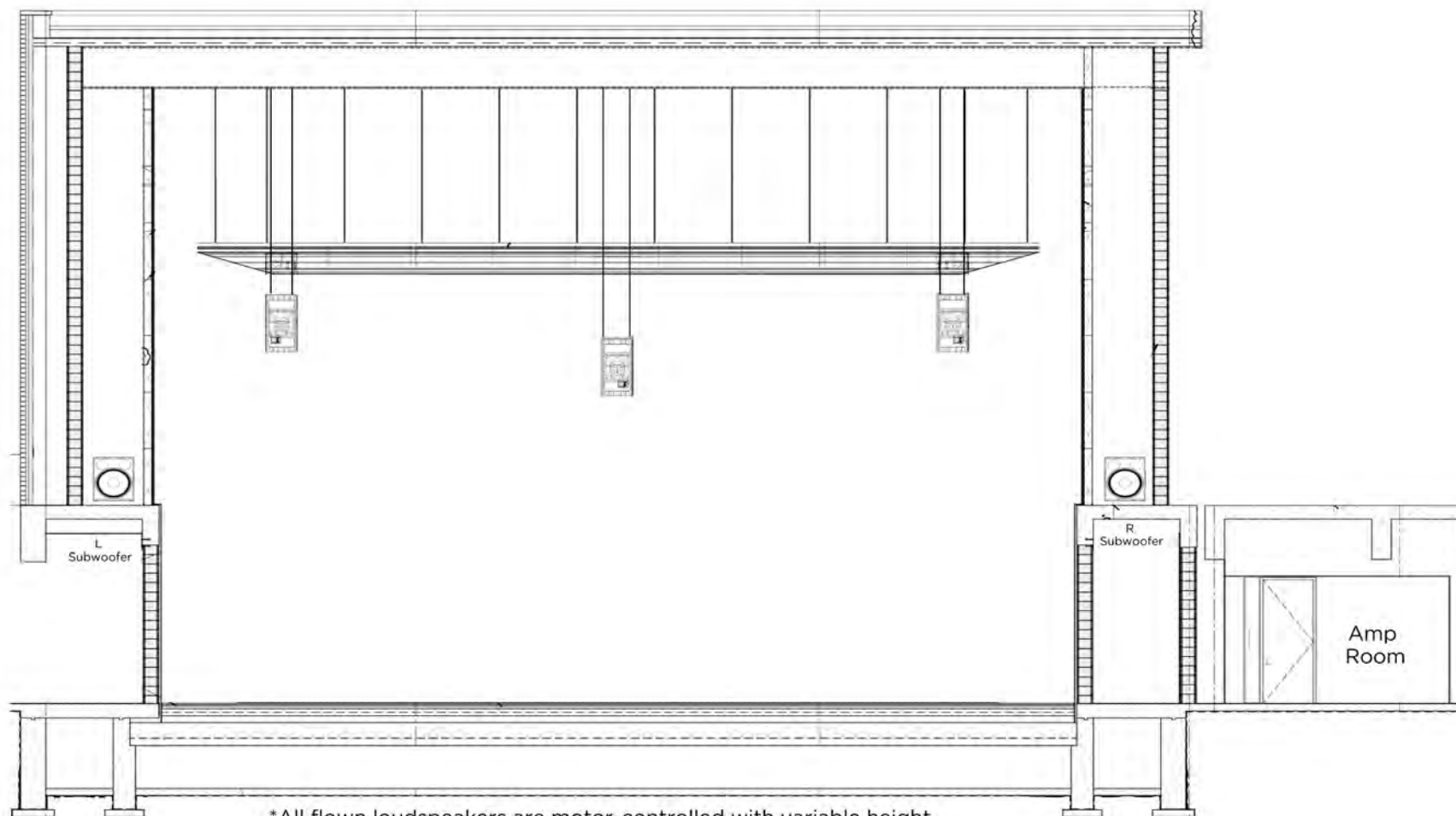
32 Channel, 100ft Portable Snake
16 Channel Radial Microphone Splitter
16 - Atlas Boom Stands
3 - K&M Short Boom Stands
4 - Atlas Straight Stands
4 - Atlas Short Straight Stands

ACOUSTIC CONTROL

An **acoustic-control banner system** enables the response of the room to be altered; please see the rigging section for more details. With the banners in place, the reverberation time (T-30) is approximately 1.0 second mid-band; without the banners, it is approximately 1.35 seconds.

AUDIO

SOUTH PERSPECTIVE



*All flown loudspeakers are motor-controlled with variable height



RECORDING SYSTEM

A professional multi-track recording system is installed in the control booth overlooking the Performance Hall. There are 16 microphone inputs and 16 line-level inputs that can be fed from any combination of balanced patch points throughout the space.

A **Pro Tools HDx** system is available:

- 2 - Avid HDx I/O (16 Channel Interface)
- 2 - Avid HDx Pre (8-Channel Microphone Preamps)
- 1 - Grace M904B Monitor Controller (with remote control)
- 1 - SSL Delta-Link MADI HD (48-channel MADI Interface)
- 1 - Apogee Big Ben Master Clock
- 2 - Dynaudio BM6A MkII

Use of the Recording Room **must** be booked in advance.

5.1 SURROUND SOUND MIXING SUITE

The Performance Hall maintains a bi-directional 48-channel fiber-based MADI link between the Recording Booth and the **Digital Music Studio** located in the lower level of the Logan Center; this room is also equipped with a Pro Tools HDx system and supports 5.1 surround-sound mixing.





LIGHTING

CONTROL AND INSTRUMENT LIST

REPERTORY PLOT

The Performance Hall's **repertory lighting plot** serves a variety of purposes, from lectures to musical performance to dance. The plot offers zones of no-color light as well as several systems of color and texture. A number of **specials** can be focused to fit your specific needs. A small set of additional units are available for **side light** on floor plates.

Any changes to the house Repertory Plot **must** be scheduled and approved in advance.

CONTROL

The lighting system is run on a Strand ShowNet lighting network and controlled with a **Strand Light Palette Classic**. A wireless remote focus unit (RFU) is available for use. Four Strand ShowNet to dual DMX Output/Input nodes are also available.

FOLLOWSPOTS

2 Lycian SuperArc 400 **follow spot** units with manual color changers are located in the follow spot booth overlooking the Performance Hall. The throw is approximately 90' from the booth to the stage.

INTELLIGENT LIGHTING

The Performance Hall was designed to accommodate intelligent lighting fixtures, however its inventory contains only conventional units.

If you wish to provide **intelligent lighting** fixtures, we have a DMX 512 infrastructure that can be used to support control of these units.

STROBES/LASERS/FOG AND HAZE MACHINES

The Performance Hall does not own any strobes, lasers, or atmospherics.

Any use of **strobes, lasers, or atmospherics** in the space **must** be approved at least 1 week in advance of the show so it can be marketed with adequate public warning.

PYROTECHNICS

The use of **pyrotechnics** (including naked flames) is strictly prohibited.





FRONT OF HOUSE

CATWALK 1

28 x **Stage Pin** Dimmed Circuits : 4 x Non-dim 20 Amp Relays : 2 x Lighting Network Port.
Throw distance approximately 37' to Downstage Center. Length: 47'. Length of ceiling opening: 44'

CATWALK 2

24 x Stage Pin Dimmed Circuits : 4 x Non-dim 20 Amp **Relays**, 2 x Lighting Network Port
Throw distance approximately 46' to Downstage Center. Length: 47'. Length of ceiling opening: 44'
Design does not permit lights to be pointed far upstage from this position

CATWALK 3 & 4

Design does not permit lights to be pointed at the stage from this position

UPSTAGE ELECTRICS*

ELECTRIC 1 (U5)

30 x Dimmed Circuits in 5 female **Socapex** ports in the ceiling (current breakout inventory only permits 24 usable circuits) : 3 x Non-dim 20 Amp Relays : 1 x Lighting Network Port
30' Trim. Length 41'8". Throw distance approximately 36' to Downstage Center

ELECTRIC 2 (U7)

27 x Dimmed Circuits in 5 female Socapex ports in the ceiling (current breakout inventory only permits 24 usable circuits) : 3 x Non-dim 20 Amp Relays : 1 x **Lighting Network Port**
30' Trim. Length 41'0". Throw distance approximately 41' to DSC

STAGE LEVEL

36 x Stage Pin Dimmed Circuits
6 x Non-dim 20 Amp Relays
4 x Lighting Network Port

Note: *There are no down-stage or mid-stage electrics





PROJECTION

TECHNICAL CAPABILITIES

DIGITAL SYSTEM

The Performance Hall is equipped with a cinema-quality DCI-compliant digital projection system based on an **NEC NC3240S digital cinema projector**. The current bulb configuration produces a 24,000 lumen output.

Acceptable formats:

DVD, Blu-ray, HD-Cam, DigiBeta and DCP*.

A laptop connection can be made at the control desk and on/off stage. Available inputs include VGA, HDMI and DVI. Please bring the highest available resolution; for the most compatibility, **1920x1080p (16:9)** is suggested.

FILM SYSTEM

The Performance Hall maintains a **35mm cinema projection** system consisting of (2) Kinoton FP38E 35mm projectors*. This system supports 5.1 surround sound and a wide variety of encoding formats.

*Use of the 35mm, HD-Cam, DigiBeta and DCP systems **must** be scheduled well in advance.

AUDIO

The projection audio system consists of a left-center-right **EAW KF740** line array system paired with 14 spaced surround loudspeakers and two subwoofers in a 5.1 configuration.

ROLLER SCREEN

A 25'x45' rolling projection **MegaScreen** is permanently installed above the stage. The screen rolls in from above the false ceiling and lands approximately 3' off the stage.

When flown in, the usable stage area is cut in size to approximately 18' x 50' at its largest point.

SCREEN MASKING

Upon request, an acoustically transparent screen masking system can be hung at each end of the projection screen.

This **masking system** is motor-controlled and can cater to any aspect ratio from 4:3 to 2.4:1 (including all current cinema standards).

Note: The screen masking system cannot fly out or close completely.

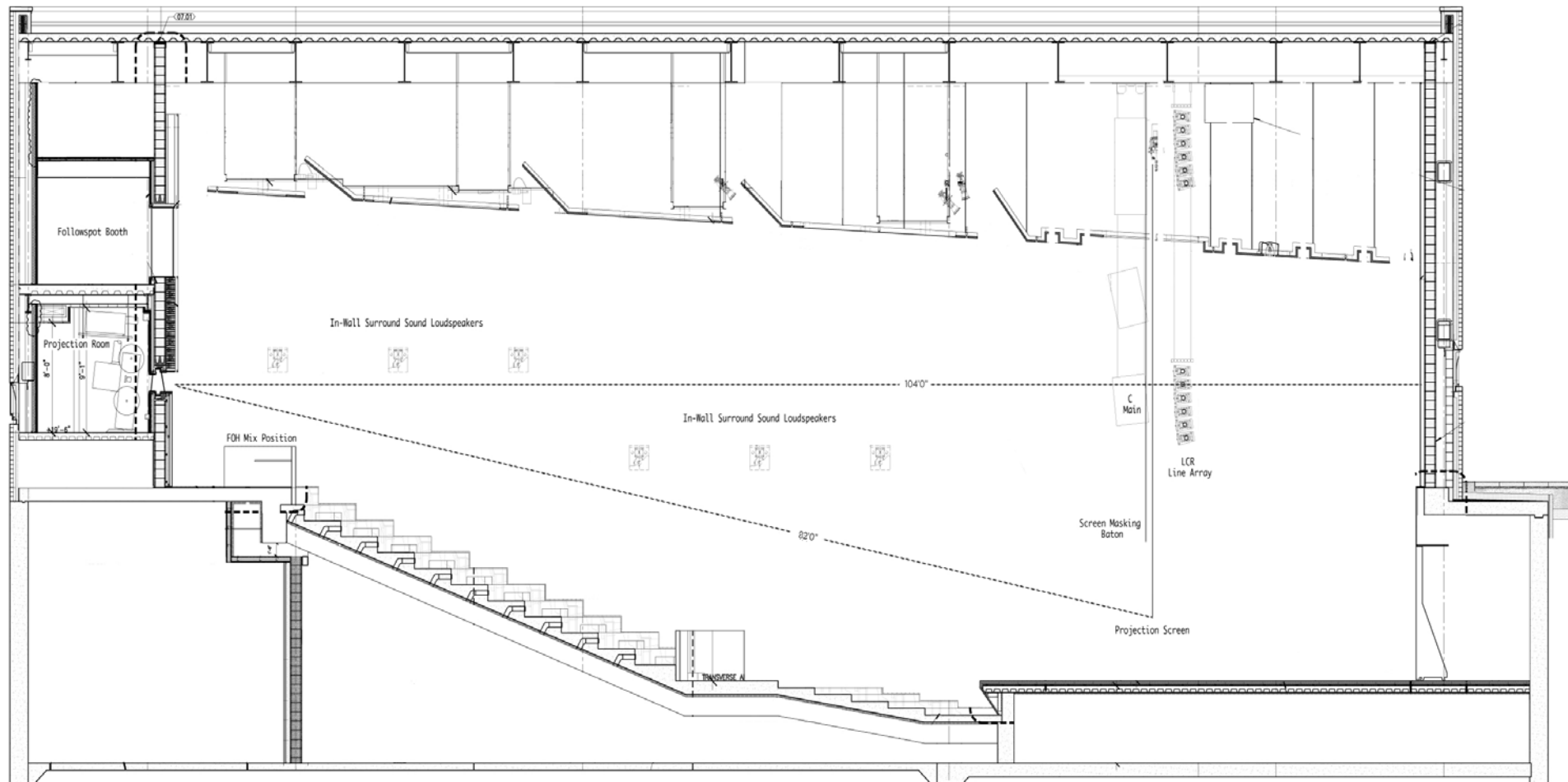
WHITE SCRIM

For productions that require projection with full stage usage, a **white scrim projection surface** can be hung along the upstage wall. As with all rigging in the Performance Hall, the white scrim cannot fly out.



PROJECTION

EAST PERSPECTIVE



UTILITY BATTONS

Each of the 8 utility line sets available are equipped with 1-1/2" pipe. The length of each line-set varies from 41' to 49' and each has a **safe working load of 1500lbs**. These battens are the only locations on which soft goods may be hung; please see the following page for more information. Line sets 5 and 7 are used as **electrics**.

CONTROL

All motorized line sets, including the acoustic banners and projection screen, are controlled from either a **JR Clancy SceneControl 500 rigging interface** stored in the stage-left wing or a Siemens 177 DP touchscreen remote control mounted at the FOH control desk.

GRAND CURTAIN

The Performance Hall has a black velour bi-parting **proscenium-style grand curtain** that can be hung near the plaster line of the stage. This curtain is manually operated by a rope and pulley system from the stage wings.

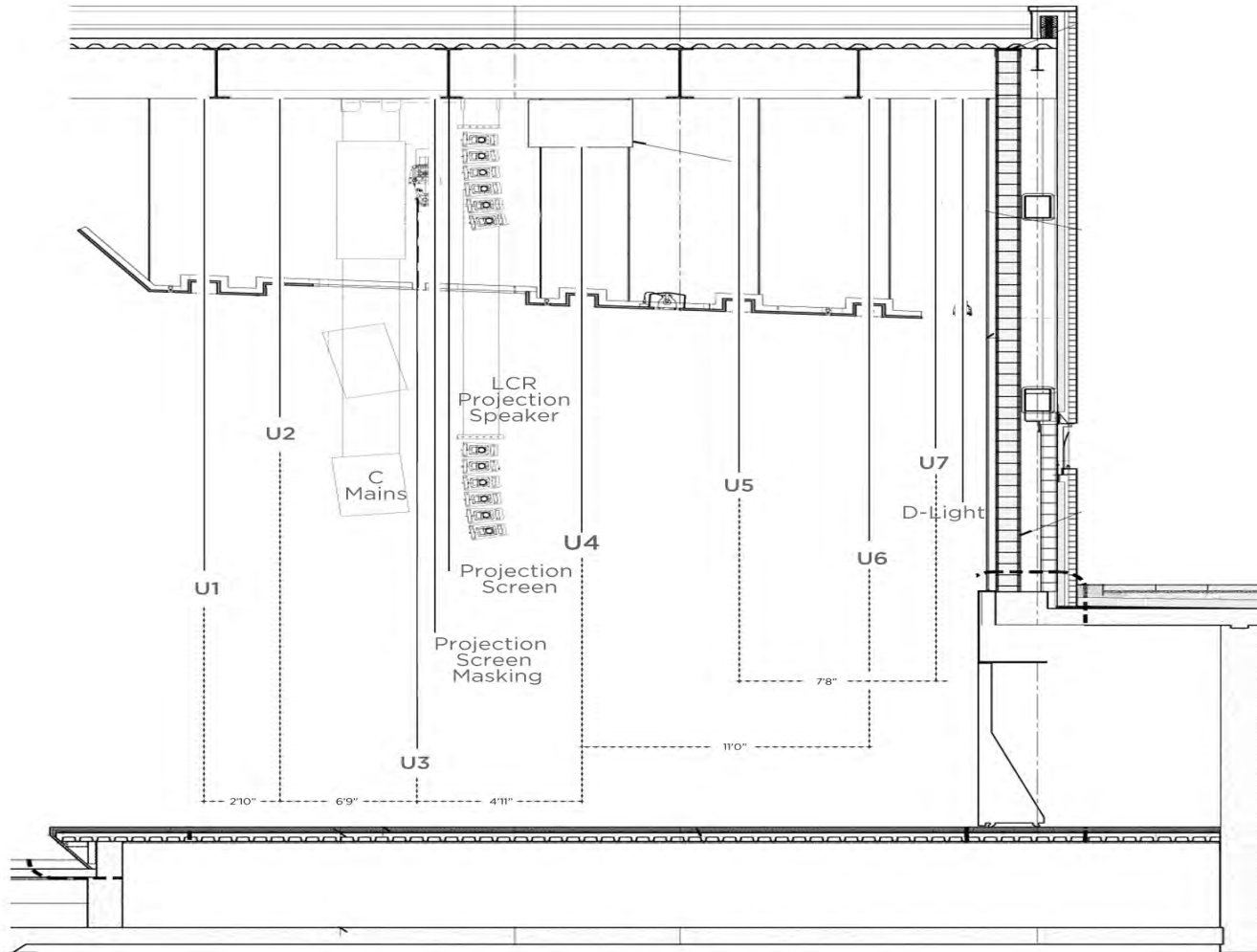
SOFT GOODS

- 4 - Sets of Black Velour Legs
- 4 - Black Velour Borders
- 1 - Black Velour Full Stage Curtain
- 1 - Black Velour Bi-parting Grand Curtain
- 1 - Black Film Screen Masking System (motor-controlled)
- 1 - Full Stage Black Scrim
- 1 - Full Stage White Scrim (secondary projection surface)



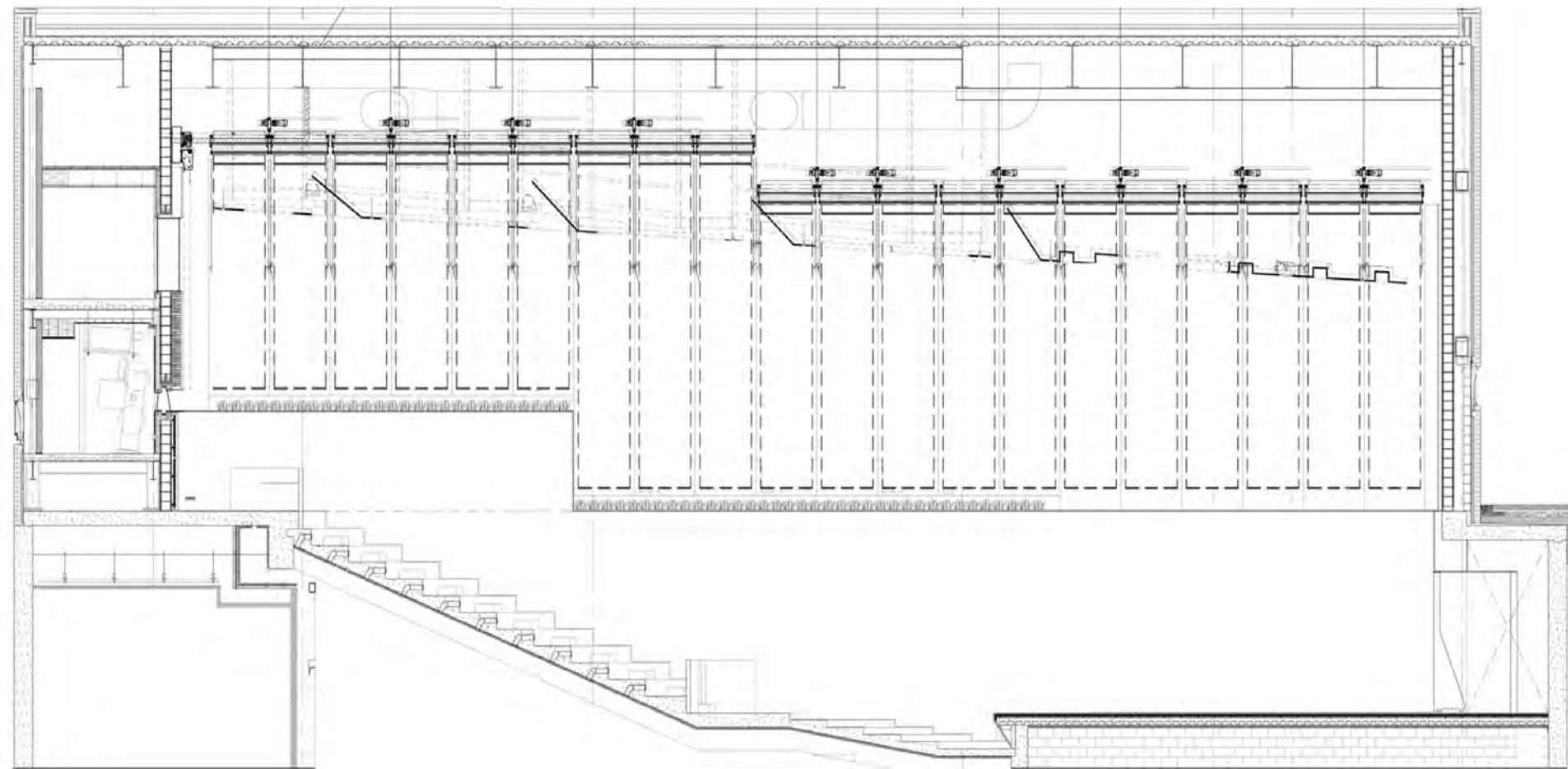
RIGGING

EAST PERSPECTIVE



RIGGING

ACOUSTIC BANNERS



BACKSTAGE

GREENROOM, INTERCOM & DISTRIBUTION

CLEAR-COM SYSTEM

The Performance Hall is equipped with a four-channel wired **ClearCom** intercom system; a total of 12 access points are spread throughout the hall, booths and Green Room areas.

For those interested in using their own RTS intercom system, 8 channels of signal interfacing between ClearCom and RTS intercom systems are available.

AUDIO DISTRIBUTION SYSTEM

A permanently **suspended in-house microphone** sends a live audio feed to a distributed speaker system spread throughout the backstage areas and green rooms; each space has independent volume control and source selection capabilities.

VIDEO DISTRIBUTION SYSTEM

Two **LCD screens** near the entrances to the Performance Hall can be fed from a variety of video sources including:

- Any video file capable of being played on a laptop
- Blu-Ray or DVD
- The permanently mounted in-house camera

GREEN ROOM SPACES

The green room is subdivided into the following areas:

Main Lounge – includes a kitchenette unit (with refrigerator & microwave) and seating area.

2 – two seat **dressings rooms** (with restrooms/showers)

1 – six seat dressing room (with restroom/shower)

Additional green room space may be available upon request if scheduled well in advance.

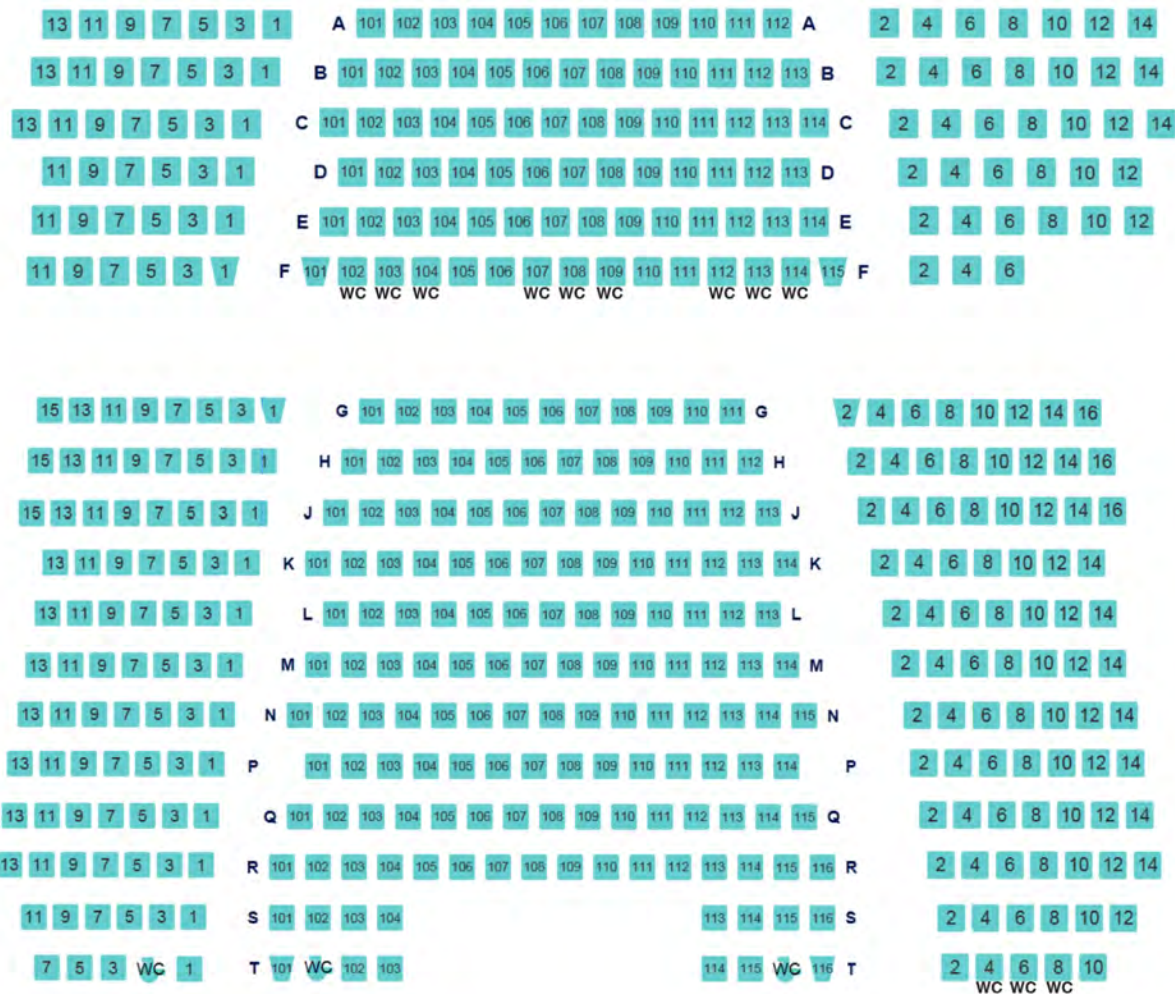
VIDEO FEED

An in-house camera sends a **live video feed** of the stage to the main green room lounge. This feed cannot be used for video recording.

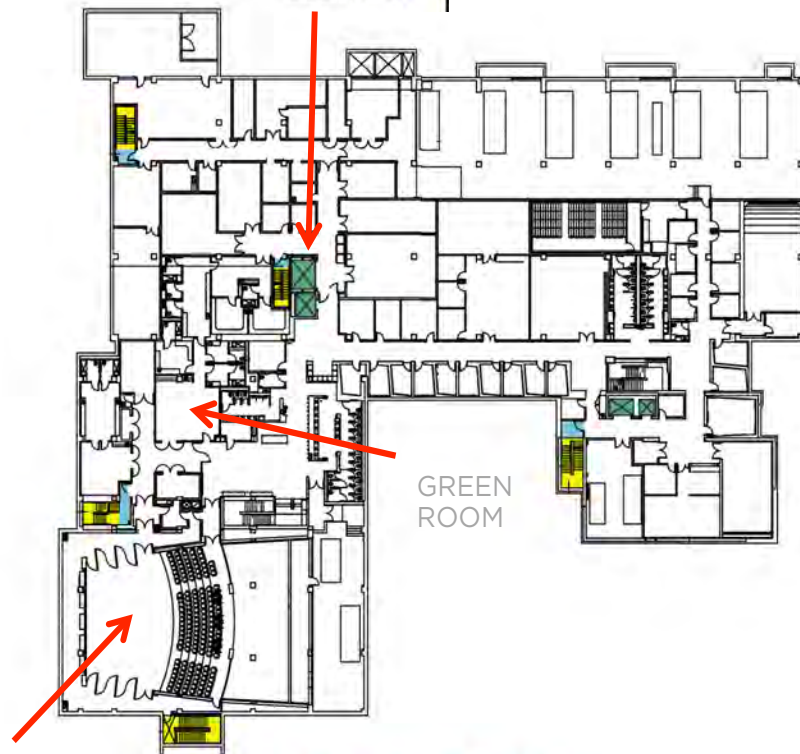


SEATING CHART

CAPACITY 474



FREIGHT
ELEVATOR



GREEN
ROOM

LOWER LEVEL

STAGE

LOADING
DOCK

FREIGHT
ELEVATOR

SOUTH
ENTRANCE

NORTH
ENTRANCE

PERFORMANCE HALL
STAGE

COURTYARD

LOGAN CAFE

FLOOR 1

