



LAKEWOOD CULTURAL CENTER TECHNICAL SPECIFICATIONS

Updated: April 2021

Please disregard all other copies of this document!

TECHNICAL STAFF

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ADMINISTRATIVE STAFF

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www.Facebook.com/LakewoodCulturalCenter

GENERAL INFORMATION

The Lakewood Cultural Center is located on the southwest corner of Wadsworth Boulevard and South Alameda Avenue in the Lakewood City Commons.

Physical Address of Theater and Box Office:

GPS Coordinates: 39°42'31" N 105°5'7" W

470 S. Allison Parkway
Lakewood, CO 80226

Box Office Phone Number:

303-987-7845

Cultural Center Website:

www.Lakewood.org/CulturalCenter

Directions to the Lakewood Cultural Center:

From I-25 / 6th Avenue

- I-25 to 6th Avenue
- West on 6th Avenue to Wadsworth Boulevard
- South on Wadsworth to Alameda Avenue
- West on Alameda to S. Allison Parkway
- South on S. Allison Parkway two blocks to the roundabout

From I-70

- I-70 to Wadsworth Boulevard
- South on Wadsworth to Alameda Avenue
- West on Alameda to S. Allison Parkway
- South on S. Allison Parkway two blocks to the roundabout

From C-470

- C-470 to Wadsworth Boulevard
- North on Wadsworth to Alameda Avenue
- West on Alameda to S. Allison Parkway
- South on S. Allison Parkway two blocks to the roundabout

Parking:

Parking is available on the upper deck of the parking garage near the front and stage doors. Underground parking is accessed from S. Allison Parkway or W. Virginia Avenue.

Loading/Unloading:

Located off roundabout between rear of building and King Soopers grocery store. The loading dock is for loading and unloading only. It is not to be used for parking

VENUE INFORMATION

Theater Type:

Single balcony, fixed proscenium. Opened 2000, Front of House Renovated 2014. Free wireless internet access is available throughout the venue.

Seating Capacity:

Total Seating:	320	(Includes sixteen accessible seats)
Orchestra Section:	242	(Includes eight accessible seats)
Balcony Area:	78	(Includes eight accessible seats)

DRESSING ROOMS

There are two dressing rooms located upstage center in the hallway immediately behind the stage. Both are equipped with counters, chairs, mirrors, lights, hot and cold water, restrooms, showers, live sound and video feed from stage and a paging system.

Dressing Room #1:	16-22 Person
Dressing Room #2:	6-12 Person

The Green Room is adjacent to the dressing rooms and is available for whatever may benefit your needs. The room is comfortably furnished and includes a microwave and refrigerator. It is equipped with a paging system and video feed. Free wireless internet access is available.

An iron, ironing board and fabric steamer are located in the Green Room. Six wardrobe racks are available backstage. No laundry facilities are available in the theater.

STAGE INFORMATION

Dimensions:

Proscenium Opening:	52' - 6" Wide	23' - 4" High
Plaster Line to US Wall:	42' - 0"	
Plaster Line to DS Edge:	2' - 0"	
Stage Width (Wall-to-Wall)	80' - 0"	
Wing Space (SR and SL)	14' - 0"	
Height from Stage to Pipe Grid:	29' - 0"	
Height from Stage to Electric Trim:	27' - 0"	
Height from Stage to Bottom of Catwalks:	25' - 0"	
Height from Stage to Audience Seating:	3' - 1"	

Crossover Space:

The area between the upstage backdrop and the back-wall MAY NOT be used for crossovers. Instead, please use the upstage hallway directly behind the stage.

Orchestra Pit:

The orchestra pit lift is 9’ - 5” deep by 29’ - 8” wide (US) and 37’ wide (DS). Height is fully adjustable. The orchestra pit is 14’ - 8” deep by 37’ wide, 8’ below stage level and ADA accessible.

Stage Floor:

Semi-sprung. Maple Tongue and Groove on top of two layers of plywood and neoprene pads placed on 12” centers over four additional layers of plywood. The floor is painted matte black. Nailing or screwing into the stage floor is NOT permitted.

Loading Dock:

The loading dock is stage level and located upstage left, approximately 10 feet from the stage. The exterior height of the loading dock is 3’. The exterior loading dock door is 8’ wide x 8’ high. The interior loading area is separated from the stage by two 14’ wide x 16’ high overhead doors. There are no dock plates or leveling plates available.

RIGGING INFORMATION *See rigging criteria at end of packer for load limits.

Two sections of truss are flown upstage and downstage. All other rigging in the theater is dead hung. The pipe grid is 29’ above the stage floor and consists of a 3’ x 5’ matrix constructed from 1.500” SCH80 steel pipe.

Pipe Grid: Point loads from pipe grid and catwalk handrails may not exceed 100lbs per point. Only one point may be hung between pipe grid, and handrail support hangers. All rigging is subject to approval.

Structural Steel: Load limit is 2,000lbs per point in very specific locations. Access is from over stage catwalks. For further clarification, or creative solutions, please review rigging criteria page at end of packet and/or contact a member of our technical staff.

Rigging Schedule (From Plaster Line):

Downstage Truss	-1’ - 0”
Main Valance	0’ - 6”
1 st Electric	8’ - 0”
Movie Screen	9’ - 6”
Spare Track (scrim/traveler)	10’
Main Drape	10’ - 6”
Border 1	11’ - 6”
Leg Set 1	13’ - 4”
2 nd Electric	14’ - 7”
Leg Set 2	21’ - 6”
3 rd Electric	22’ - 0”
Mid Stage Traveler	24’ - 0”
4 th Electric	28’ - 0”
Leg Set 3	28’ - 6”
Black Scrim	35’ - 9”
5 th Electric (Empty)	36’ - 6”
Upstage Traveler	37’ - 9”
Cyclorama	38’ - 3”
Upstage Cyc Truss	40’ - 3”

SOFT GOODS *All soft goods are dead hung from catwalks with exception of star drop

Main Valance	1	Size: 8'h x 74'w	Color: Deep Burgundy	75% Fullness
Main Drape	2	Size: 30'h x 37'w	Color: Deep Burgundy	75% Fullness
Black Legs	6	Size: 30'h x 10'w	Color: Black	50% Fullness
Black Tabs	2	Size: 28'h x 10'w	Color: Black	50% Fullness
Black Tabs	2	Size: 28'h x 4'w	Color: Black	50% Fullness
Travelers	4	Size: 30'h x 34'w	Color: Black	50% Fullness
Borders	6	Size: 6'h x 66'w	Color: Black	50% Fullness
Scrim	1	Size: 30'h x 60'w	Color: Black	Sharks-tooth
Cyc	1	Size: 30'h x 66'w	Color: White	Leno-filled Scrim
Star Drop	1	Size: 14'h/w x 24'h/w	Color: Black *fiber optic	

LIGHTING

Control Console: ETC Gio with 2 x 10 Fader Wing.

Control Location: The Control Booth is located at the rear of the house under the balcony.

House Dimmers: 288 - 2.4K Colortran I-94 dimmers located in dimmer closet on the balcony level.

Conventional/LED Light Inventory: (20A, Conventional are Stage pin & LED are Edison connectors)

	<u>Inventory</u>	<u>In Use</u>	<u>Remaining</u>
ETC Source Four Body	120	85	35
10° Lens Tube	2	0	2
19° Lens Tube	18	13	5
26° Lens Tube	54	51	3
36° Lens Tube	60	57	3
50° Lens Tube	10	9	1
19° EDLT	2	0	2
26° EDLT	2	0	2
ETC Source Four 15/30°	6	6	0
ETC Selador Vivid R 63"	16	16	0
ETC Color Source DB	39	39	0
ADJ Z100	23	22	1
Philips Color Blast 12	12	12	12
Strand Fresnel - 8"	4	0	4
Altman Par 64 - WFL	20	0	20
Altman 3-Cell Sky Cyc	4	0	4

***NOTE:** We keep more lenses in our Source Four inventory than bodies. Please plan accordingly.*

Moving Light Inventory: (20A, L6-20 connectors)

	<u>Inventory</u>	<u>In Use</u>	<u>Remaining</u>
Martin MAC 500	2	0	2
Martin MAC 575	6	6	0
Chauvet Maverick MK2	7	7	0
Martin Mac Aura	15	15	0

The theater maintains a semi-permanent house hang that may be modified when schedule and labor budget permit. All changes to this light plot must be restored at the production's expense.

Booms:	Distance from plaster line: (1- Shin, 1- Mid & 1- Head /Boom)		
	House Hang:	(30)	ETC Color Source DB LED
DS Truss:	Distance from plaster line: 1' - 0"		
	House Hang:	(5)	ETC Source 4 - 26° 750W
	House Hang:	(4)	Martin MAC 575 Krypton 575W
1st Electric:	Distance from plaster line: 8' - 0"		
	House Hang:	(5)	Mac Aura 11-58° LED
	House Hang:	(6)	ETC Source 4 - 36° 575W
	House Hang:	(3)	ETC Source 4 - 575W
2nd Electric:	Distance from plaster line: 14' - 7"		
	House Hang	(5)	Mac Aura- 11-58° LED
	House Hang	(6)	ETC Source 4 - 36° 575W
	House Hang:	(3)	ETC Source 4 - 575W
	House Hang:	(2)	Martin Mac 575 Krypton 575W
3rd Electric:	Distance from plaster line: 22' - 0"		
	House Hang	(5)	Mac Aura- 11-58° LED
	House Hang:	(6)	ETC Source 4 - 36° 575W
	House Hang:	(3)	ETC Source 4 - 575W
	House Hang:	(3)	-ETC Color Source DB LED
4th Electric:	Distance from plaster line: 28' - 0"		
	House Hang:	(5)	Chauvet Maverick MK2 Spot LED
	House Hang:	(5)	ETC Source 4 - 50° 575W
	House Hang:	(6)	ETC Source 4 - 36° 575W
	House Hang:	(3)	ETC Source 4 - 575W
5th Electric (US Truss):	Distance from plaster line: 40' - 3"		
	House Hang:	(8)	ETC Selador Vivid R 63" LED
Low Coves:	Distance from plaster line: -3' - 0"		
	House Hang:	(8)	ETC Source 4 - 26° 750W
High Coves:	Distance from plaster line: -3' - 0"		
	House Hang:	(8)	ETC Source 4 - 26° 750W
Box Booms:	Distance from plaster line: -17' - 0"		
	House Hang:	(8)	ETC Color Source DB - 26° 750W
1st Beam:	Distance from plaster line: -15' - 6" at centerline		
	House Hang:	(16)	ETC Source 4 - 26° 750W
Balcony Rail:	Distance from plaster line: -43' - 6" at centerline		
	House Hang:	(6)	ETC Source 4 - 15/30° 750W
	House Hang:	(5)	ETC Source 4 - 19° 750W
Spot Rails:	Distance from plaster line: -41' - 6"		
	House Hang:	(8)	ETC Source 4 - 19° 750W
Follow Spot Booth:	Distance from plaster line: -47' - 6"		
	House Equipment:	(2)	Lycian Super Arc 400 400W
Ground Row:	Distance from plaster line: -40' - 3"		
	House Hang:	(8)	ETC Selador Vivid R 63" LED

*A number of accessories including side arms, pattern holders, drop-in irises, half hats, top hats, barn doors, floor bases and twofers are available. Please contact us for specific inventory.

THE HOUSE HANG HAS NO STOCK FOCUS OR COLOR

SOUND

House Sound System:

Main Speakers	EAW JF-260Z	3 Flown per Side
Subwoofer	McCauley 840	1 Flown at Center

Console:

Allen & Heath Avantis 64 input channels fully configurable with 128x128 Dante card
*FOH mix position is in the Control Booth located at the rear of the house under the balcony.
No alternative mix position is available.*

All audio transport is 96k Dante, there are (2) DT168 stage boxes that can be placed anywhere on stage to accommodate 32 inputs and 16 outputs total. Connections to the Dante network are available in all 4 corners of the stage, both sides of the orchestra pit, spot booth, and on each catwalk.

Outboard Rack:

- (20) Shure QLX-D wireless microphones
bodypack transmitter, guitar cable and Shure WL98 tan microphone elements
- (4) Shure SLX Beta58 Wireless Receivers
- (2) Shure ULX Wireless Receivers
- (1) Tascam CD-RW900 CD Recorder
- (2) Furman PL-8 Power Conditioner w/ Lights
- (1) Allen & Heath GX4816 for wireless microphones and CD recorder
- (1) Mac Mini with Q Lab 4 Full Lighting, Video & Audio Package, and Dante Virtual Soundcard
- (5) Hearing Loop Amplifiers
- (1) Cisco SG350 Network Switch (LCC Managed)

Monitor Speakers:

- (4) EAW SM200 IH-12"
- (4) JBL JRX100
- (4) JBL SF25
- (4) Yamaha SM 12" IV
- (4) Yamaha SM 15" V
- (1) JBL JRX 200

Amp Rack:

- (1) Allen & Heath AHM64 System Processor with 64x64 Dante Card
Provides all speaker/matrix processing with remote controls in the Lobby and Control Booth
- (1) Powersoft Audio Quattrocanali 4804 DSP+DANTE (Main Speakers and Sub)
- (1) Powersoft Audio Quattrocanali 2404 DSP+DANTE (Monitors)
- (2) Powersoft Audio Quattrocanali 1204 DSP+DANTE (Lobby and Backstage)
- (1) Powersoft Audio Duocanali 4804 DSP+DANTE (Plaza)
- (1) Furman ASD-120 Sequenced Power Distro
- (1) Cisco Network Switch (City Managed)

Snakes:

- (2) Whirlwind Medusa 6 Channel
- (2) Pro-Conex Little bro 8 Channel
- (1) Carvin SNK 16XR 16 Channel

Microphones & Direct Boxes:

Wired:

- (7) SM58
- (4) Audio Technica M4000S
- (8) SM57
- (2) SHURE- A2WS
- (5) Audix D4
- (6) RODE M5
- (1) BETA 52
- (1) ND68
- (2) Sennheiser Shotgun Mic's
- (3) PCC Floor Mic's
- (1) PZM Floor Mic
- (9) SM81
- (3) EU RE 20
- (3) MD421
- (1) N/D 468
- (1) SM87A
- (1) Audio Technica PRO4L
- (1) Earthworks Piano Mic
- (1) MX418 D/C Microflex desktop Mic

Wireless:

- (20) QLX D4 Lavalier Mic's
- (2) ULX Lavalier Mic's
- (4) PGX2 SM58 Handheld Mic's
- (4) SLX2 BETA 58A Handheld Mic's

Direct Boxes:

- (5) DI Model: PDI
- (4) Whirlwind
- (4) Behringer Ultra DI 100

COMMUNICATION

Clear-Com Outlet Locations:

- (3) Control Booth
- (1) Downstage Right
- (1) House – Row G
- (1) Orchestra Pit (Pit Level)
- (10) Catwalks (2 each)
- (2) Follow Spot Booth
- (1) Downstage Left
- (1) Green Room
- (1) Orchestra Pit (Basement Level)

Hard Wired System:

- (10) Single channel belt-packs
- (12) Single muff headsets

Wireless System:

- (1) Clear-Com Freespeak II Base Station
- (5) Clear-Com Freespeak II Wireless Packs

Closed-Circuit Television:

Video monitoring is from a pair of Sony BRC-Z330 HD robotic video cameras at the rear of the house which have views from SL & SR SM Panels, Both Dressing Rooms, Green Room, Box Office & two additional Lobby TV's.

Assistive Listening System:

Contacta Hearing loop system covering the entire theatre seating area

(2) v14 drivers

(1) v22a Pro Driver

(2) HLD9 Drivers

PROJECTION**Front Projection Movie Screen:**

24' W x 20' H. *Height varies upon request. Movie screen is permanently hung immediately downstage of the main drape and hung 10' above stage floor for use of downstage area.

System is motorized and may be controlled from stage left or from the control booth.

Video Projection:

Projectors: EIKI EK-815U (Main Projector) & EIKI LC-X85, 7000 lumens. (Spare)

Lens: Power zoom and focus, FL: 2.50" ~ 4.39" & 2.3-3.3

A/V Playback:

Blackmagic Video Switcher

27-inch iMac with Retina 5K display, i9 processor, 5.0GHz, 32GB

- Q Lab 4 Full Lighting, Video & Audio Package, and Dante Virtual Soundcard.

Sony Blu-Ray Disc Player.

VIDEO/LIVE STREAMING**Cameras:**

(3) Panasonic CX-350 with tripods, 7" monitors, Cuebi wireless tally, VariZoom Pro Controller, various lens options & other camera package additions.

Video Switcher:

(1) Blackmagic Television Studio HD

Video Encoder:

(1) Taradek Video Cube 655

POWER

Service (May be used at production's expense. Bare-end tails required. Disconnects located on MSL wall):

(1) 200A, 208Y/120 VAC 3Ø Disconnect.

NOTE: The above 200A disconnect is used to supply power to the house moving light circuits.
 (1) 400A, 208Y/120 VAC 3Ø Disconnect.

MISCELLANEOUS EQUIPMENT

Manlift:

Genie AWP-25S Platform Height: 25' - 0" Working Height: 30' - 0" Lift Capacity: 350 lbs

Ladders:

16' Werner Fiberglass Extension Trestle Ladder
 12' Werner Fiberglass Step Ladder
 8' Werner Fiberglass Step Ladder
 4' Werner Aluminum Step Ladder
 2' Werner Aluminum Step Ladder

***Marley Floor:**

Harlequin Black/White Reversible 6 panels @ 78.5" wide x 50' long
 Rosco Black/Gray Reversible 7 panels @ 63" wide x 52' long

***Platforms:**

4 4' x 8' Wenger Versalite 16" and 8" Legs

***Choral Risers:**

3 Wenger Tourmaster 3-Step, 6' Length

***Acoustical Shell:**

7 Wenger Travelmaster 9' - 4" – 12' - 2" Adjustable Height

Musician Equipment:

54 Wenger Musician Chairs, Non-Padded
 45 Wenger Roughneck Music Stands
 1 Wenger Conductor's Music Stand
 1 Wenger Conductor's Podium
 1 Wenger Conductor's Chair

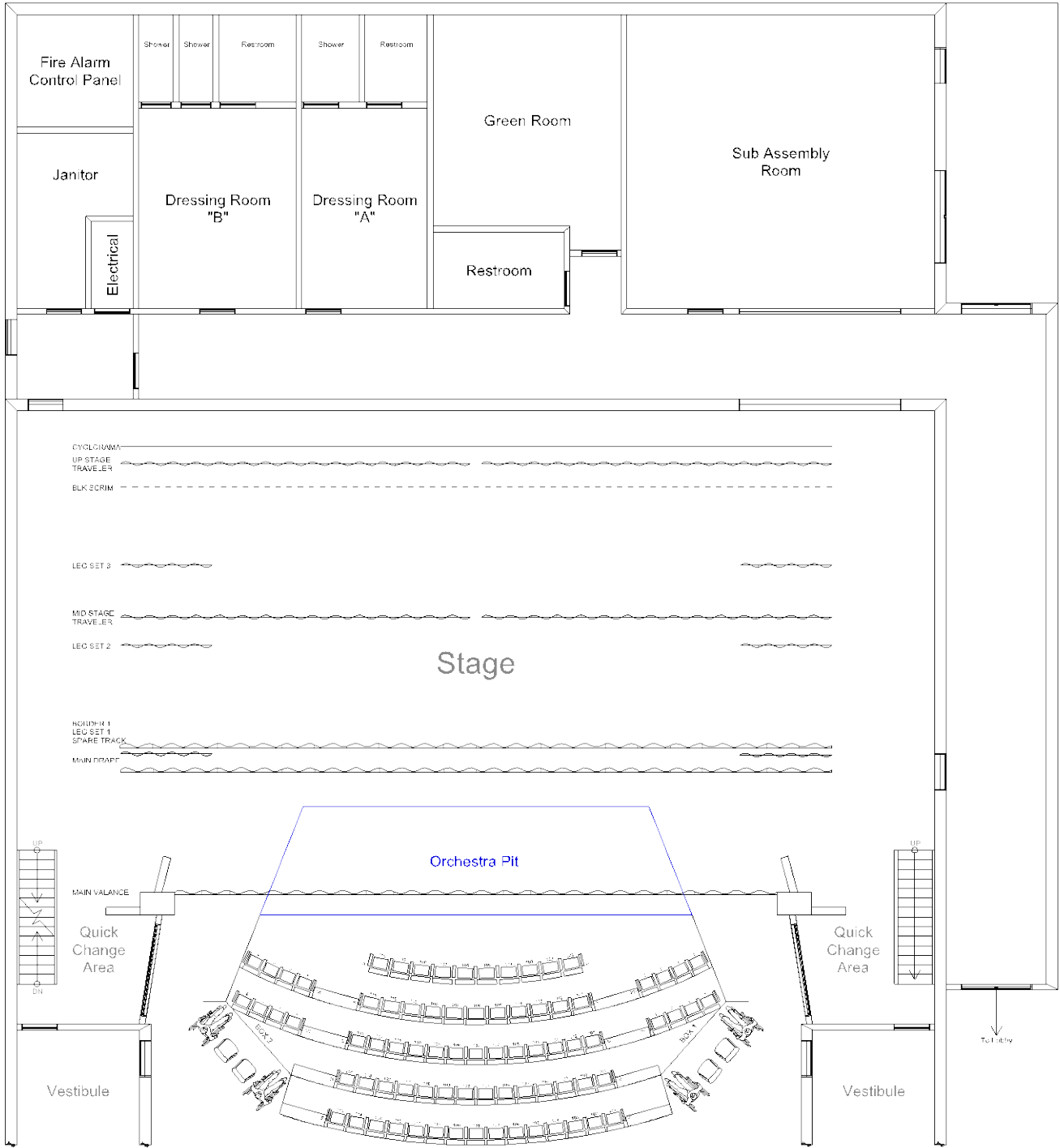
***Backline Equipment:**

1 Yamaha GH2 5' - 8" Classic Baby Grand Piano
 1 Gallien-Krueger NEO 410 Bass Cabinet
 1 Gallien-Krueger 700RB-II Bass Head
 1 Strony STR-4 Digital Theater Organ

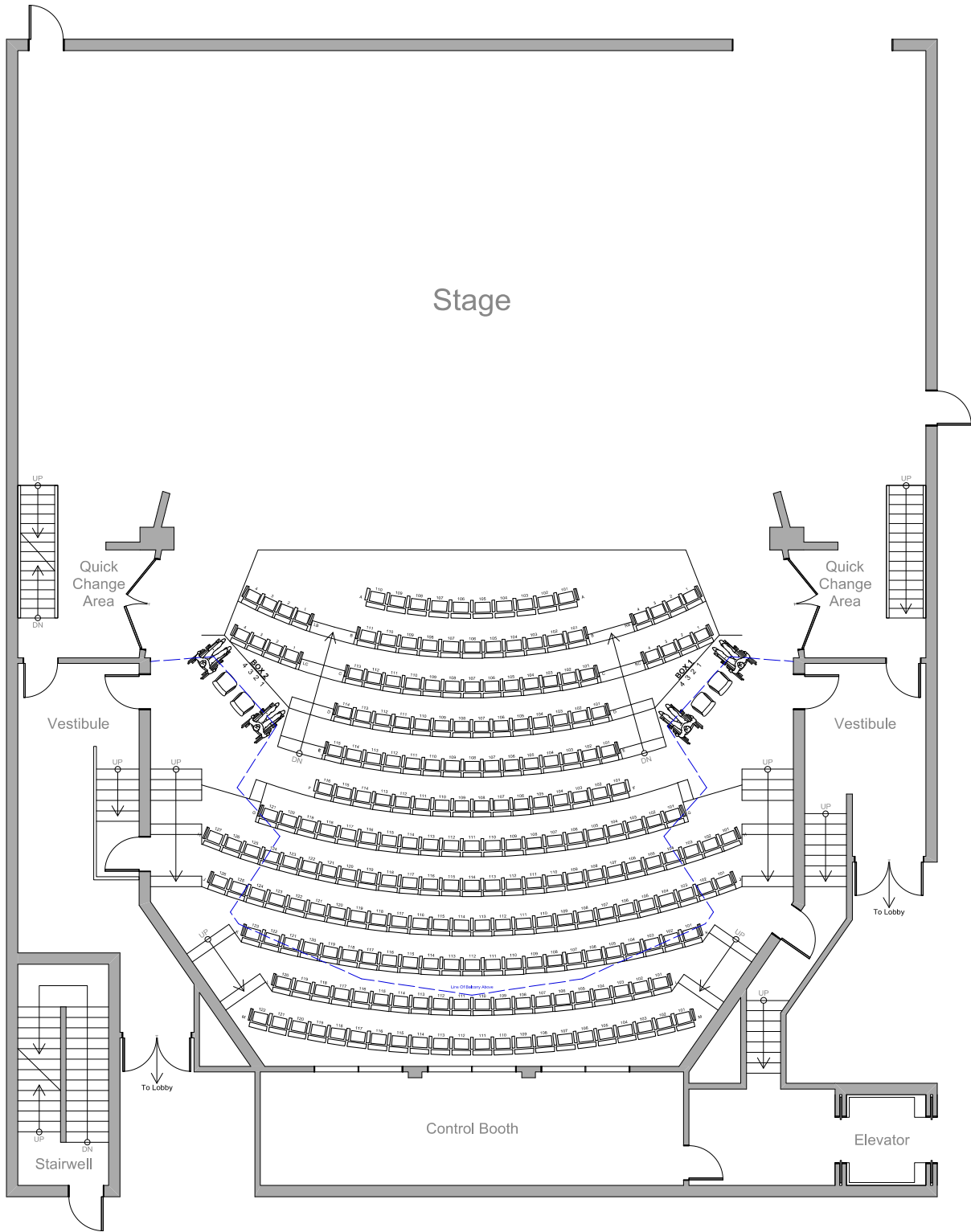
Fog/Haze:

1 DF-50 Diffusion Hazer
 2 Antari Ice Low Lying- Fog Machine *Dry ice required for use.

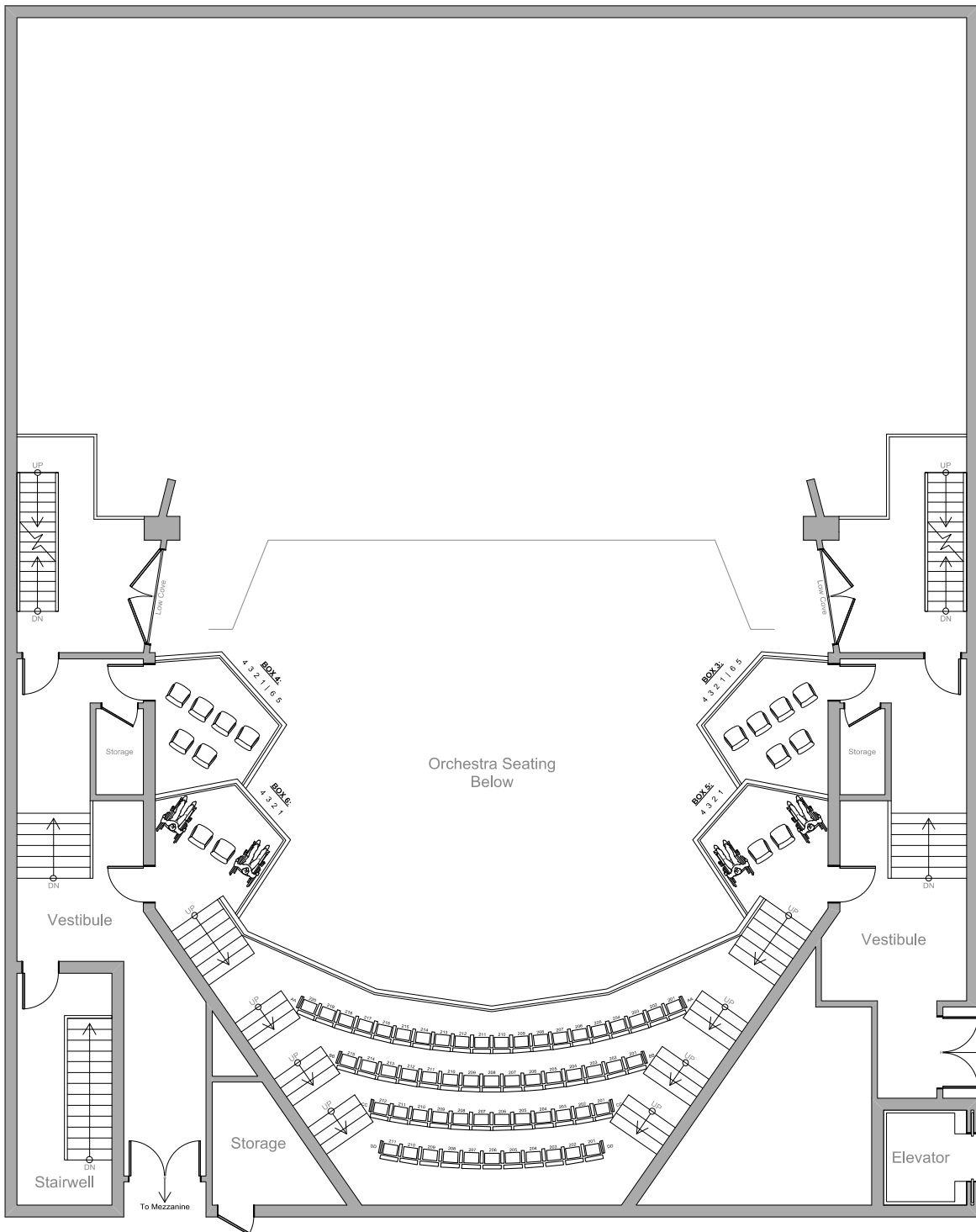
- *Additional rental rates apply.*



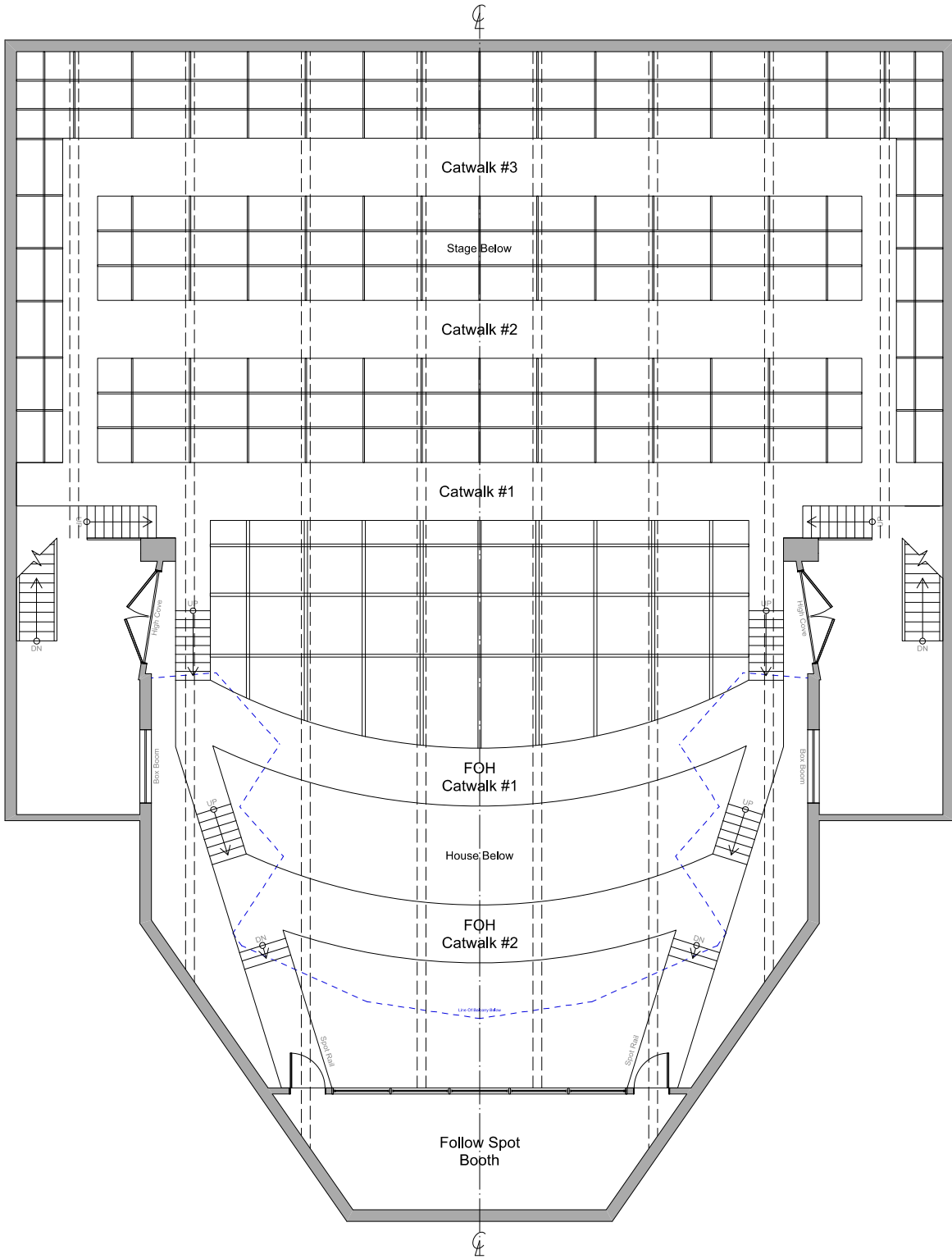
1 Stage & Backstage Floor Plan
 4 Rev. January 2017



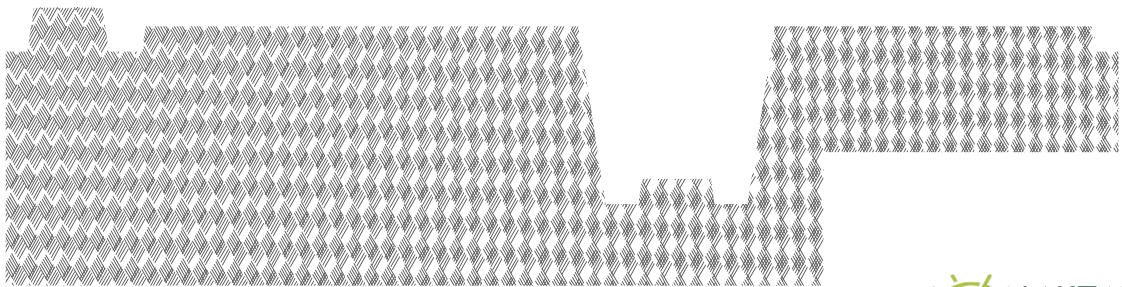
1 Orchestra Level Floor Plan
3 Rev. September 2014

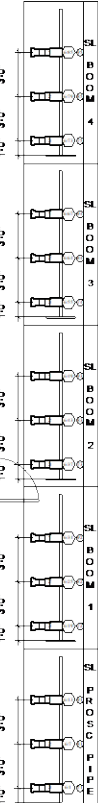
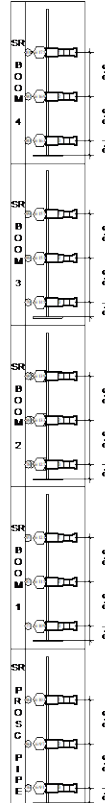
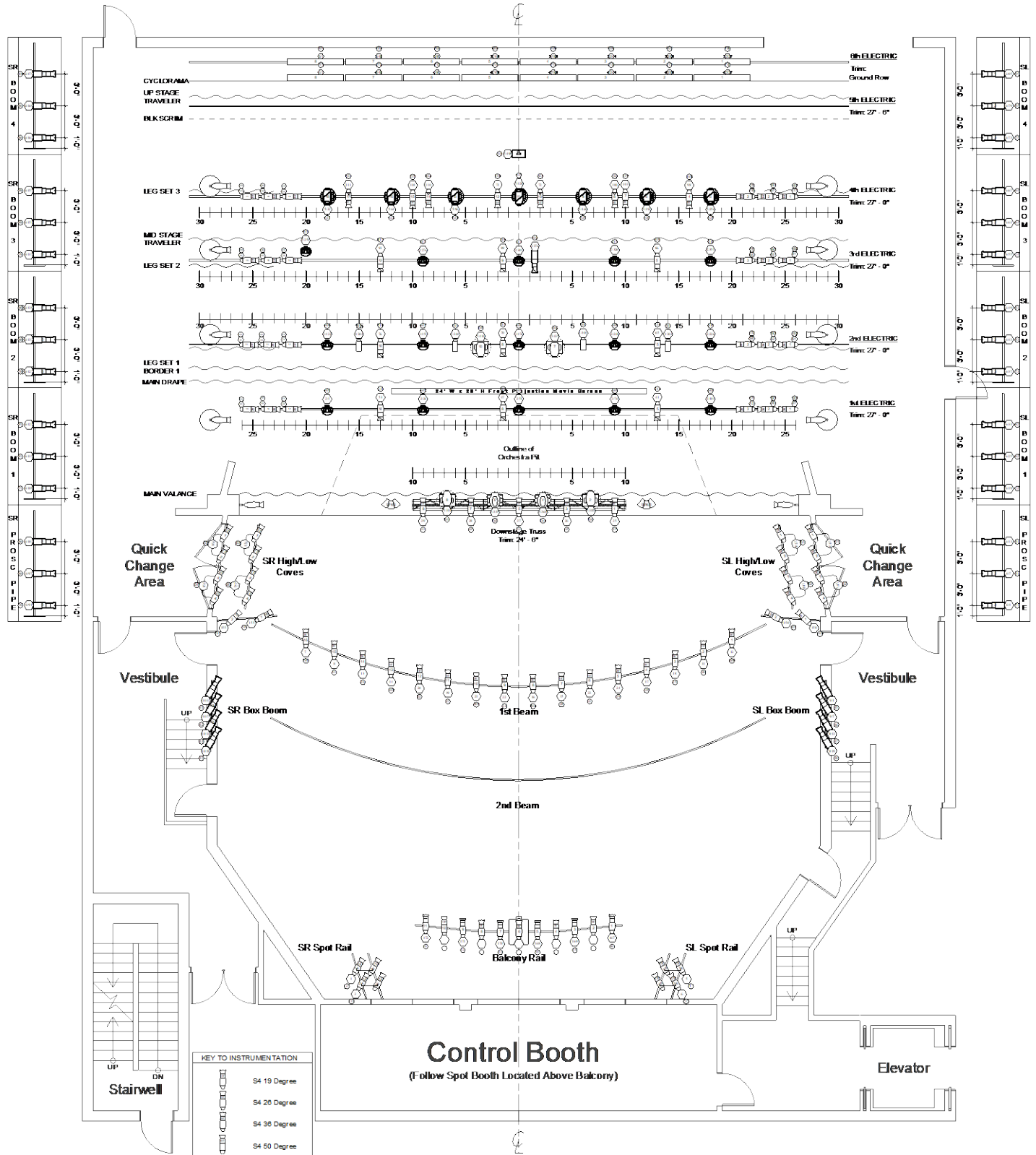


2 Balcony Level Floor Plan
 3 Rev. September 2014



3 Catwalk Level Floor Plan
 3 Rev. September 2014





THIS DRAWING REPRESENTS VISUAL CONCEPTS AND CONSTRUCTION SUGGESTIONS ONLY.

The Designer is unqualified to determine the structural or electrical appropriateness of this design, and will not assume responsibility for improper engineering, construction, handling, or use. All materials and construction must comply with the most stringent applicable Federal and Local Fire, Safety, Energy, and Environmental Codes.

KEY TO INSTRUMENTATION

	S4 19 Degree
	S4 26 Degree
	S4 36 Degree
	S4 50 Degree
	S4 15-30 Zoom
	MAC Aura
	Maverick MK Spot
	MAC 575 Spot
	MAC 500 Spot
	Selador Vivid R03

TYPICAL

	Spot
	Cove
	Beam
	Truss
	Rail
	Boom
	Traveller
	Truss
	Rail
	Boom
	Traveller

NOTES:

1. PLOT IS SUBJECT TO CHANGE.

2. 1" = 12" SCALE IS OPTIMIZED FOR 8 1/2" x 11" PAPER. OTHER FORMATS OF THIS DOCUMENT ARE AVAILABLE.

3. LIGHTWEIGHT PAPERWORK IS AVAILABLE UPON REQUEST.

4. REFER TO PAPERWORK FOR ALL INSTRUMENT INFORMATION.

5. IN CASE OF DISCREPANCIES, PLOT PRECEDES PAPERWORK.

6. MEASUREMENTS ON BOOMS ARE FROM STAGE FLOOR TO CENTER OF LENS.

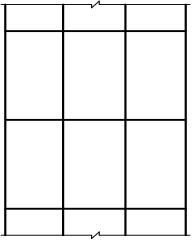
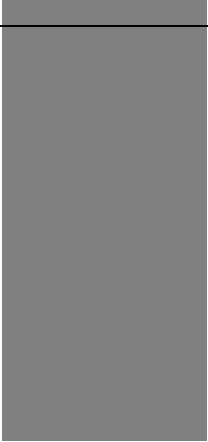
7. TRIM HEIGHTS FOR OVERHEAD ELECTRICS ARE FROM STAGE FLOOR TO POSITION PIPES.

8. SPARE INSTRUMENTS OF MOST TYPES ARE AVAILABLE.

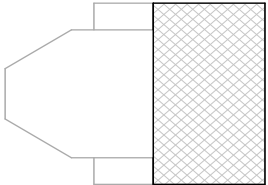
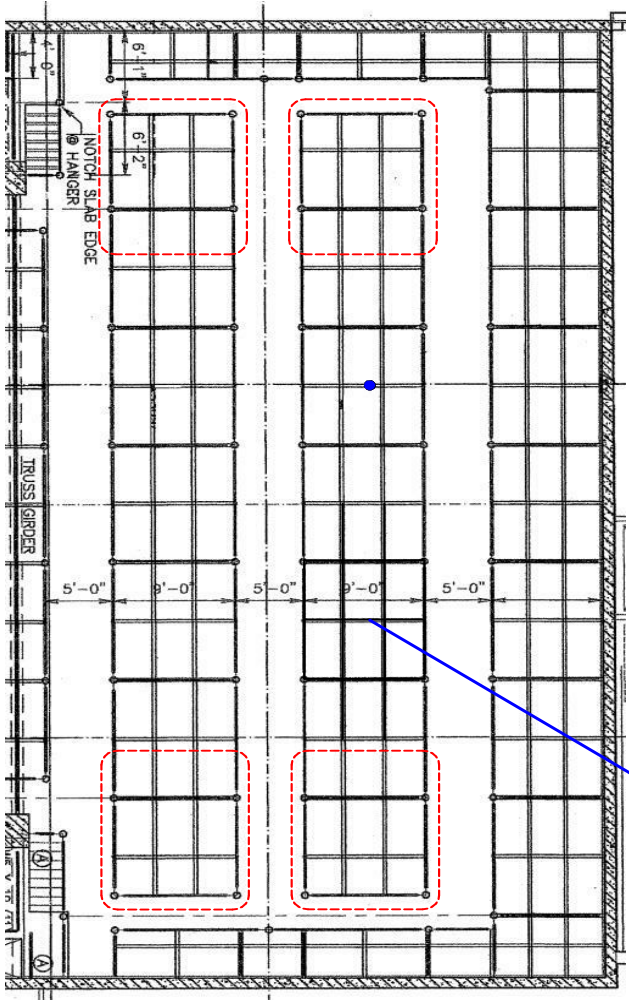
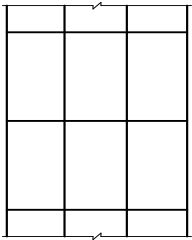
9. CONSULT THE LIGHTING DESIGNER FOR SPECIFIC QUANTITIES.

LAKWOOD CULTURAL CENTER
 470 S. ALLISON PARKWAY, LAKEWOOD, CO 80226

DRAWING: REPLIGHT PLOT	SCALE: 1" = 12'
DRAWN BY: Jeffrey R. Johnson	EDIT DATE: March 19, 2020
EDITED BY: Gabriel S. Paul	PAGE: 1 / 1



OPTION 2: NORTHSOUTH PIPE RIGGING
 - TOTAL RIGGING LOAD (SERVICE) ON PIPE = 200 POUNDS
 - WHERE RIGGING LOADS OCCUR ON N/S PIPES, **NO** RIGGING LOADS ALLOWED ON ADJACENT EW/PIPES FRAMING INTO THEM



LOAD PER CODE IS POSSIBLE.
 S HAVE BEEN PRODUCED ASSUMING THE FULL ROOF SNOW