

## Zilkha Hall Technical Specifications Revised July 2020

### **STAGE DIMENSIONS:**

Proscenium Height	24'
Proscenium Width	37'-9"
Grid Height	51'
Max trim of system pipes	49'-3"
Fire Curtain to Back Wall	35'
Stage Height (from seating level)	3'-2 1/2"
Orchestra Pit Width	43'
Orchestra Pit Depth @ Center Line	10'

\*The orchestra pit is on an electrically-powered Serapid Link Lift system.

### **LOADING/PARKING:**

The loading dock is located off Rusk St, approximately 370 Rusk St. The loading dock is at Stage Level, and approximately 44" above the pavement level. There is one truck position designated for Zilkha Hall. Note that our loading dock is sloped and boards are often needed to help level out the truck. The house has these boards available in addition to a portable dock plate.

\*Please note - 53' trailers will technically fit, but are a challenge on our loading dock. Prior arrangements with the Technical Director are advised if any client needs to unload 53' trailers.

There are two spaces available along the curb on the dock where clients can park vehicles if needed. Prior approval required from Zilkha Hall Technical Director for any parking on the loading dock.

### **SEATING:**

The maximum legal capacity of Zilkha Hall is 524.

Public restrooms are located in the lower level lobby and on the Mezzanine and Gallery levels.

Seating capacities by section: Orchestra: 338  
Mezzanine: 162  
Pit (if seated): 24

### **ELECTRICAL SERVICES:**

Available disconnects:

(2) 100A 3 phase switch stage right

(1) 100A 3 phase switch upstage center in pass through to loading dock

### **LIGHTING EQUIPMENT:**

House consoles is an ETC Ion that is networked to a remote processor unit for tracking backup that is capable of 2000 outputs. The system also contains 1 remote video unit backstage right, 1 remote video unit that can be put out on a tech table and an iPad remote focus unit.

The house system is dimmer-per-circuit. The house connector is 20A, 3-conductor stage pin connector.

A full rep lighting plot is hung, circuited and focused at all times in Zilkha Hall. Additional lighting paperwork is available upon request.

### **AUDIO EQUIPMENT:**

**Overview:** Meyer Sound PA, Broadway style L/R Towers (flown) & Center Array with Front and Box Fills, GALAXY Processor.

**Main Left & Right:**

1 each UPQ-D1 15" Woofer/4" CD (Orch) 1 each UPQ-D2 15" Woofer/4" CD (Balc) 1 each 900-LFC Dual-Voicecoil 18" Sub

**Center:** 9x LINA Compact Line Array

**Front Fills:** 5x UP-4Slim

**Box Fills:** 2x UPM-1P

**FOH Console:** Yamaha CL5 V5.51

**MON/Sidecar Console:** Yamaha QL1 V5.51

**Note:** *Analog stage box/patchbay wired into booth Rio rack. Additional Rio 3224s and/or Rio 1608 MAY be available from the Sarofim System but CANNOT be guaranteed.*

**QLab:** Version 4.6.3 - 16 Channel

Additional information available upon request.

### **HOUSE SOFT GOODS:**

- (1) 48wX24h Red Velvet Valance
- (1) 48wX24h Black Velour Split Drop
- (5) 10wX24h Black Velour Legs
- (6) 48wX10h Black Velour Borders
- (1) 48wX24h Black Sharktooth Scrim
- (1) 48wX24h White Sharktooth Scrim (storage)
- (1) 48wX24h White Muslin Bounce (storage)
- (2) 48wX24h Twin White Front Projection Drop

\*Important: All house goods must be restored to house line set schedule at the end of the run

### **DRESSING ROOMS:**

We have dressing room capacity for 22

Dressing Room 1 – 2 makeup stations

Dressing Room 2 – 4 makeup stations

Dressing Room C – 8 makeup stations

Dressing Room D – 8 makeup stations

All dressing rooms have wardrobe racks, makeup lights, bathrooms, and showers.



## Line Schedule

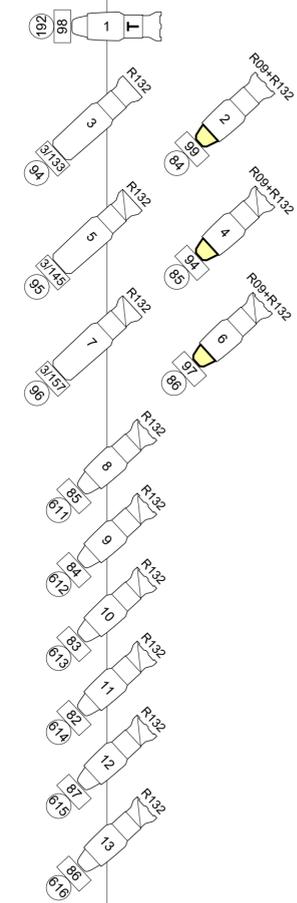
## Zilkha Hall

## Hobby Center

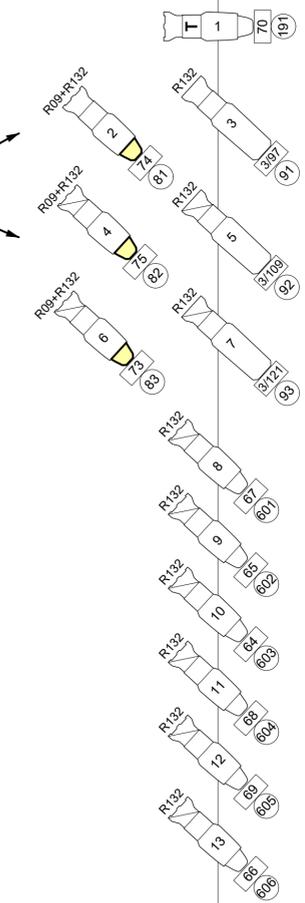
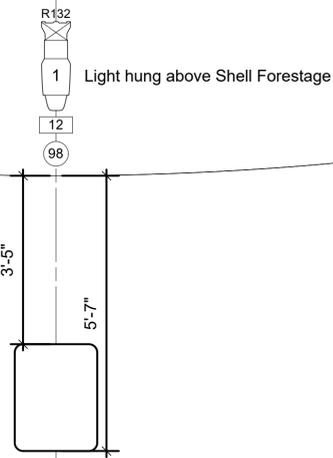
Production:		Dates:			
Lineset Number	Feet from Plaster Line	Purpose	Trim (Feet)	Pipe Weight	Item Weight
Fire Curtain	½				
Grand Drape	1				
1	2	#1 Border/Surttitle Screen Stored Behind	18' 10"	3F	4F/2H
2	2 ½	#1 Legs	16' R/L	3F	2F
3	3			3F	
4 (Double)	4	1 <sup>st</sup> Electric	23'5"	6F	12F/1H
5 (Double)	5	2 <sup>nd</sup> Electric	25'	6F	16F/2H
6 (Double)	5 ½			6F	
7	6			3F	
8 (Double)	7	Sound Shell (Not removable)		6F	42F/1H
9 (Double)	8			6F	
10 (Double)	8 ½	#2 Border	21'	6F	2F
11	9	#2 Legs	16' R/L	3F	2F/1H
12	10	3 <sup>rd</sup> Electric	25'	6F	18F/1H
13	11			3F	
14	12 ½			3F	
15	13 ½			3F	
16 (Double)	14			6F	
17	14 ½			3F	
18	15	#3 Border	21'	3F	3F
19	15 ½	#3 Legs	16' R/L	3F	2F
20 (Double)	16 ½	4 <sup>th</sup> Electric	25'	6F	20F
21	17 ½			3F	
22 (Double)	18			6F	
23	18 ½	Split Black	21'	3F	5F
24	19 ½			3F	
25 (Double)	20			6F	
26 (Double)	20 ½			6F	
27	21	#4 Border	21'	3F	3F
28 (Double)	21 ½	#4 Legs	16' R/L	6F	2F
29 (Double)	22 ½	5 <sup>th</sup> Electric	25'	6F	18F/1H
30 (Double)	24			6F	
31 (Double)	24 ½			6F	
32	25	#5 Border/ Full Black	21'	3F	4F/1H
33	25 ½	Black Scrim		6F	1F/1H
34	26	White Plastic		3F	4F
35 (Double)	27	6 <sup>th</sup> Electric	25'	6F	4F/1H
36	28	#5 Legs	16' R/L	3F	2F
37 (Double)	29	7 <sup>th</sup> Electric	25'	3F	14F
38	30			3F	
39 (Double)	30 ½			6F	
40	31	#6 Border/Projection Masking		3F	2F/1H
41 (Double)	31 ½	Old White Plastic		6F	2F/1H
42	32	Split Black Velour (with fullness)		3F/1H	7F/1H
	35	Back Wall			

FOH TRUSS SR

FOH TRUSS SL

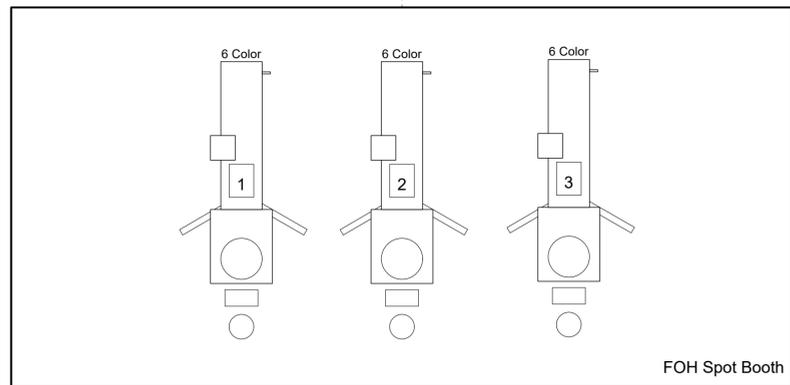
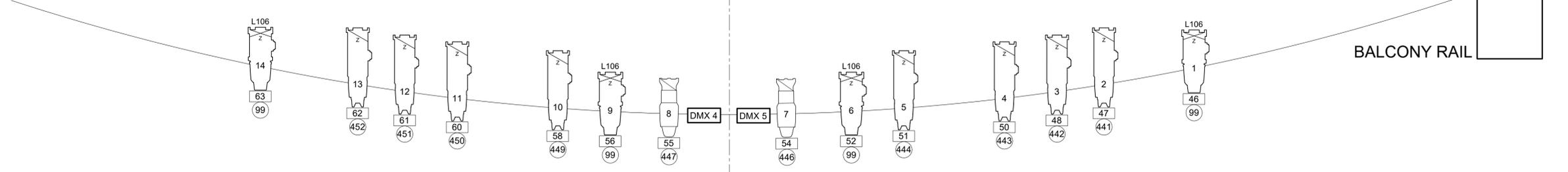
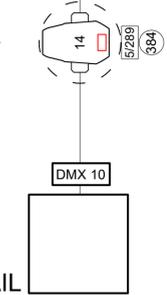
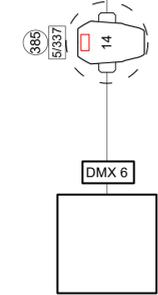
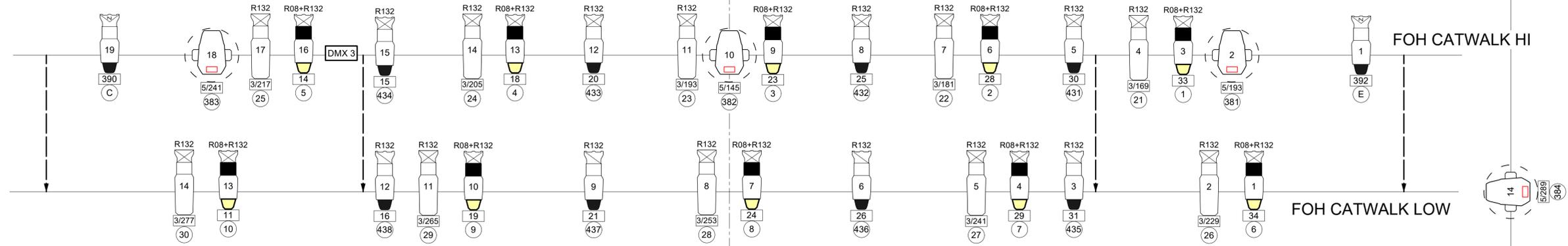


Lights under hung

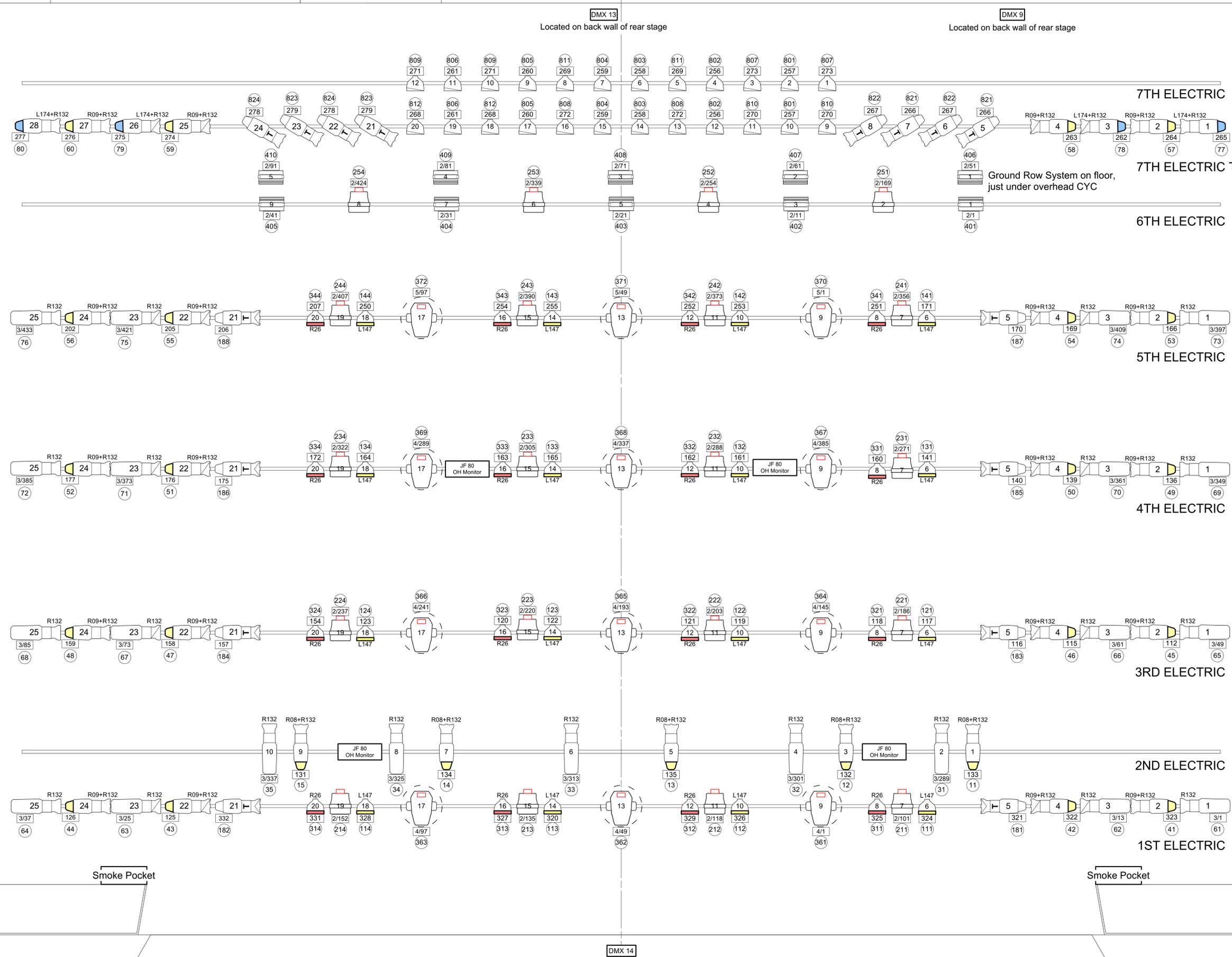


Lights under hung

- ETC Source4 PAR WFL
- ETC Source4 PAR NSP
- ETC High End Lonestar
- ETC Source4 19deg
- ETC Source4 19deg 750W
- ETC Source4 26deg
- ETC Source4 26deg 750W
- ETC Source4 36deg
- ETC Source4 36deg 750W
- ETC Source4 LED 26deg
- ETC Source4 LED 36deg
- ETC Source4 LEDLS 19deg
- ETC Source4 Zoom 15-30deg



FOH Spot Booth



- 42 - SPLIT BLACK VELOUR
- 41 - WHITE LENO WEAVE CYC (BOUNCE)
- 40 - #6 BORDER
- 39 - EMPTY
- 38 - EMPTY
- 37 - #7 ELECTRIC
- 36 - #5 LEGS
- 35 - 6TH ELECTRIC
- 34 - TWIN WHITE PROJECTION SCREEN
- 33 - BLACK SCRIM
- 32 - #5 BORDER/FULL BLACK
- 31 - EMPTY
- 30 - EMPTY
- 29 - 5TH ELECTRIC
- 28 - #4 LEGS
- 27 - #4 BORDER
- 26 - EMPTY
- 25 - EMPTY
- 24 - EMPTY
- 23 - SPLIT BLACK VELOUR
- 22 - EMPTY
- 21 - EMPTY
- 20 - 4TH ELECTRIC
- 19 - #3 LEGS
- 18 - #3 BORDER
- 17 - EMPTY
- 16 - EMPTY
- 15 - EMPTY
- 14 - EMPTY
- 13 - EMPTY
- 12 - 3RD ELECTRIC
- 11 - #2 LEGS
- 10 - #2 BORDER
- 9 - EMPTY
- 8 - SOUND SHELL PIECE (NON-REMOVABLE)
- 7 - EMPTY
- 6 - EMPTY
- 5 - 2ND ELECTRIC
- 4 - 1ST ELECTRIC
- 3 - EMPTY
- 2 - #1 LEGS
- 1 - #1 BORDER
- GRAND DRAPE

# ZILKHA HALL STANDING SOUND DESIGN

# ANSWERS GUIDE



LOCATED IN THE HOBBY CENTER FOR THE PERFORMING ARTS - HOUSTON, TEXAS

*"ONE OF THE BEST SOUNDING THEATERS I'VE BEEN IN."*

- LAUREN REID, PRESIDENT - JOHN GORE ORGANIZATION

AS OF FEBRUARY 3RD, 2025

## OVERVIEW:

- **What is your Main P.A. and Sound Console?** The House P.A. consists of 4x Meyer UPQs and 2x 900-LFC subs mounted in a flying Broadway Tower configuration on winched E-Brackets left and right. Center fill is a 9x box LINA array, front fills are 5x UP4-Slims with 2x UPM-1Ps as box fills. Speaker processing is handled by a single Meyer Galileo GALAXY. FOH Console is a Yamaha CL5 Version 5.81 located at the back of the Orchestra seating, house right of center, approximately 55' from the edge of the stage.
- **What is heard in the Lobby?** The Lobby and internal CCTV channel audio comes from a dedicated Record Feed that includes the stereo balcony microphone for audience reaction. This feed is also available to videographers for archival recordings and used as a Press Feed. It is also possible to have something different than what is in the theater played over the speakers in the lobby before show and then switched over when the show starts.

## MUSICAL THEATER, THEATER, DANCE, & BALLET:

- **Do you have wireless microphones?** Zilkha has 12x channels of RF either handheld or body pack with a selection of ear mounts, headworns, and both Broadway and corporate style lavalier microphones.
- **How do we hear on stage?** Stage Monitoring is accomplished with 6x always installed EAW JF80s overhead; 2x on LX1, 2x on LX 4, and 2x over the wings on 3x separate mixes [Down Stage, Mid Stage, & Off Stage] plus program monitors that can be set around the stage. 2x EAW dual 15" full range speakers may be placed in Wing 1 SL & SR and serve as Stereo Side Fills if desired.
- **Can we hear the show in the dressing rooms?** Dressing Room audio monitoring is a 70v ceiling speaker system with individual volume controls in each of the dressing rooms fed by the balcony rail microphone. Televisions with the FOH color camera shot embedded with the Lobby Audio Feed are also in the Green Room and Dressing Rooms on Channel 31. Be advised this CCTV signal is somewhat delayed. Dressing Room Page is located at the Stage Manager Call Desk downstage right, the Theater Manager's Office, and at the Light Booth Show Calling Position.

**MUSICAL THEATER, THEATER, DANCE, & BALLET CONTINUES NEXT PAGE-**

## MUSICAL THEATER, THEATER, DANCE, & BALLET CONTINUED:

- **Is there a Stage Comm system in the theater?** Stage Comm is a 4-channel Clear-Com Party Line system normally Stage Manager, Lighting Private, Deck Private, and Sound/Music Director Private. Hardwired single and dual channel packs are standard at FOH LX, Sound, and Light Booth Show Calling Position. Additional single and dual channel hardwired packs are available for Tech Tables. Each of the 3x spotlights have 2-channel packs that can access the SM and/or LX Private channels. There exists a booth only Spots Private for further comm flexibility. There are 10x FreeSpeak II wireless packs with coverage from the Lobby to the Green Room and Dressing Room Hallways.
- **Do you have a show calling position for our Stage Manager?** The Stage Manager Call Desk is located downstage right. It has a 4-channel Comm remote station, 2-channel audio feed [balcony rail microphone & vocal mix], 4x camera monitors [FOH Color, FOH Infrared, Stage Overhead, and Conductor Camera/Video Switcher Output], a video monitor that can either show FOH QLab or LX Cue Stack, a 9-channel Cue Light switchboard with 3 Color Rail Lights, Main Curtain, and FOH Sound permanently in place, with Dressing Room Page and Stage Manager Announce always hot switched microphones. For simpler shows with a desire to call from the front there is a Booth Manager Position in the light booth with just a single channel of comm, FOH Infrared and Stage Overhead Camera monitors, a FOH Sound QLab monitor, and Dressing Room Page and Stage Manager Announce always hot switched microphones.
- **Do you have a QLab computer?** QLab 5 is installed at Sound FOH with 18 Sound Outputs and connected by Midi to the Sound and Lighting Consoles and to the Zilkha Sound Control Network to sound consoles and the in-house projector. QLab 5 is also installed on our portable QLab 2 computer with Midi cables and Mergers to interconnect if needs be. Like the FOH Qlab machine, QLab 2 uses a Dante Virtual Soundcard for Audio Outputs allowing for multiple output channels.
- **Can Zilkha support a live orchestra/band?** Orchestras/bands can be supported either in or out of the Pit with a collection of in house microphones, DIs, stands and clamps. We have an Infrared Conductor Camera with 14x 7" monitors that can be clamped onto music stands, 2x balcony monitors, a monitor at the DSR SM Calling Desk, one at the FOH Sound Console, and other monitors that can be set up for offstage singing. For orchestra sound monitoring we have 14x 16-channel Aviom A320 mixers with Sony MDR-7506 headphones, headphone extension cables, and ¼" to 3.5mm adapters for musicians' own ear molds.

**MUSICAL THEATER, THEATER, DANCE, & BALLET CONTINUES NEXT PAGE-**

## MUSICAL THEATER, THEATER, DANCE, & BALLET CONTINUED:

- **How do you handle pre-recorded music and video?** If you have your own playback device(s) and operator(s) we can set you up practically anywhere on stage or in/by the control booths. If you prefer, we will play your media from our FOH QLab computer. Please bring audio and video files on an USB device to transfer to our computer. You may also send links to Dropbox, Google Drive, etc., ahead of load-in to give us time to download them. All show elements must be a file, we will not stream music or YouTube videos except for background music playlists for walk-in/walk-out and on stage receptions. If you prefer to have your own music director operate, we can set up our QLab 2 computer for them where they would like and assist with QLab programming if needed.
- **Is it possible to do surround sound and other effects?** Special Effect Speakers include two permanently set side-surround speakers on the triangle trusses mid-house [EAW JF200s] and a network of patchable speaker cable outlets around the stage and audience seating for effect and rear surround speakers [EAW JF-80s].
- **Can I run a warm-up/class/rehearsal onstage from my phone?** Zilkha has an easy-to-pair-with Bluetooth interface onstage that can be configured to drive either just the stage monitors or both the House and Stage.

## AMPLIFIED CONCERT:

- **Do you have wireless microphones?** Zilkha has 12x channels of RF either handheld or body pack.
- **Do you have a monitor console?** Stage Monitors can be mixed from our CL5 at FOH for low mix counts (up to 4), or from our QL1 console on stage, normally placed Stage Right.
- **What type of wedges do you have?** Zilkha has 10x Meyer MJF-208 powered wedges and a Meyer 750-LFC for use as a DJ or Drum Sub. Two EAW LA-325 dual 15" full range speakers serve as Stereo Side Fills. We also have 14x 16-channel Aviom A320 mixers with Sony MDR-7506 headphones, headphone extension cables, and ¼" to 3.5mm adapters for musicians' own ear molds.

## ACOUSTIC CONCERT & OPERA:

- **Can the acoustics of the hall be changed?** Zilkha has acoustic curtains that normally stay deployed for the deadest room response, but we open to one of two configurations for acoustic events. The first of these we call “Concert Hall” which has a 2-2.5 second reverberation time. Our most reverberant configuration we call “Cathedral” which has a 2.8-3.1 second reverberation time. Once in the space, adjustments can be made.
- **How do you handle curtain speeches?** Zilkha has 12x channels of wireless microphones, either handheld or body pack with chest worn lavaliers.

## LIGHTLY REINFORCED ACOUSTIC CONCERT & OPERA:

- **Do you have wireless microphones?** Zilkha has 12x channels of RF either handheld or body pack with a selection of Broadway style lavalier, ear mount, headworn, plus instrument microphones.
- **How do you lift parts of the ensemble that are too quiet?** Zilkha has a number of less visually obtrusive microphones used in combination of area, spot, and/or tight placement with a variety of Stage Monitoring solutions to bring out the sound of a portion of an acoustic ensemble and/or vocalists when greater clarity and definition is desired but not so much that the character of the acoustic sound is lost. Zilkha’s acoustic curtains are custom deployed in the house depending on the level of reinforcement and stage volume.

## CORPORATE MEETING/PRESENTATION:

- **Do you have wireless microphones?** Zilkha has 12x channels of RF either handheld or body pack with ear mounts, headworns, and both Broadway and corporate style lavalier microphones.
- **Can Zilkha support camera positions and a video village with comm and audio program monitors?** Yes.