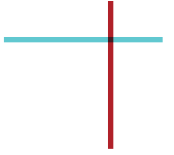




A U D I T O R I U M

**TECHNICAL SPECIFICATIONS**



## BUILDING CONTACTS

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### **OVENS AUDITORIUM**

2700 East Independence Boulevard  
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### **WEBSITES**

[www.boplex.com](http://www.boplex.com)  
[www.crva.com](http://www.crva.com)

**GENERAL INFORMATION**

- All technical needs should be discussed and finalized with the Technical Director at least 2 weeks before load-in.
- If you need production estimates for your event, please contact the Technical Director.
- If you have special security needs for your event, please contact the General Manager.
- If you need a runner or merchandise sellers for your event, please contact Mary Shelby at Mary.Shelby@Boplex.com .
- Every effort has been made to ensure that the information in this packet is accurate. We are not responsible for any errors so please verify any critical needs with the Technical Director.
- Information in this packet is subject to change without notice. Please, contact the Technical Director at Jeff.McManus@Boplex.com to make sure you have the latest revision.

**LOADING DOCK**

- Working Dock Space – 31'-6" wide, will accommodate three (3) trucks.
- Dock Surface – Concrete - 35'-3" long x 3'-9" high x 17'-3" deep. Dock surface is the same level as the stage.
- Two 4' wide portable dock plates are available.
- There is a 1-ton stacking motor located SR within 25' of the loading dock and the stage.
- There is an additional ramp to the dock at street level that is 9' wide.
- Loading Door #1 – 9'-3" wide x 10'-5" high roll-up door.
- Loading Door #2 – 10' wide x 15' high.
- Work Room – 42'-10" x 22'-7". Used for dead case storage and workspace. Located stage right. See diagram.

**STAGE DIMENSIONS****WIDTH**

- Centerline to SL wall clear – 48'-9"
- Centerline to SR wall clear – 46'-2"
- Centerline to overhang of SR fly floor – 42'-10", clearance under – 17'-5 1/2"
- Height from house floor – 44-1/2"

**DEPTH**

- Straight back wall with pilasters.
- Depth to pilasters - 49'-3" from apron lip. 45'-11" from 0'-0"
- Depth to US wall - 51'-2" from apron lip. 47'-10" from 0'-0"
- Depth to US overhang of air duct - 41'-8 1/2", clearance under - 22'-5"
- USR spiral staircase to the grid at 41'-8" of 0'-0" and 38'-4" off centerline.

**APRON**

- Straight - 3'-4" at centerline. Referenced from plaster line (0'-0").

**ORCHESTRA PIT**

- Orchestra Pit seating must be arranged before tickets go on sale.**
- Pit floor is half round - 11'-2" at centerline and 5'-0" at each end and is 50'-0" wide. See diagram.
- Hydraulic lift can be stopped at any height from stage level to 12'-0" below stage.
- Orchestra Pit extends under the stage 10'-2" by 50'-0" wide.
- Orchestra Pit has stairwell accessibility from below the stage through the basement.

**PROSCENIUM**

- WIDTH:** 59'-1/2"
- HEIGHT:** 24'-10 1/2"
- SHAPE:** Rectangle
- What happens to house ceiling in first 10' in front of proscenium?
  - First 2' is flat, then it angles upward and into the cove lighting position.
  - There is a recessed area at the top center of the proscenium that contains the house center speaker.

**RIGGING**

- There are 20 rigging points on 10 I-beams down stage of the proscenium and are accessed via 10" diameter holes in the plaster ceiling. Maximum capacity is 4,000 lbs. per beam. The upstage row is 25'-3" above the deck and the downstage row is 27'-3" above the deck.
- Rigging points can be placed anywhere over the stage deck, up to 2,000 lbs. per point.

**FIRE CURTAIN**

- Fire Curtain must remain clear during load-in, performance and load-out.**
- 1'-1" from plaster line (0'-0") to US edge of smoke pocket.
- Distance from proscenium edge to on stage edge of smoke pocket: SR 0'-9", SL 0'-9-3/4"

**GRID**

- Overhead steel consists of four (4) main I-beams running up and down stage on 20'-6" centers and are riveted to four (4) main pilasters with 4" x 1/2" flat steel.
- Connection of overhead steel to the grid consists of 4" x 1/2" flat steel members that are riveted to a 10" x 2-1/2" channel that is riveted to the main well channel.
- There are four (4) connections per well. The first measures 7'-3" from 0'-0", the second is 16'-8", the third is 28'-8" and the fourth is 38'-1".
- Main well consists of 10" x 2-1/2" channel.
- There is NO well on centerline.
- Connections to US and DS walls are riveted into a 6-1/2" x 12" I-beam.
- Secondary channels are 2-1/2" x 6", spaced 5' apart and are riveted to well.
- Working surface of grid is 59'-11" from stage deck and is made of standard 3" channel, welded to secondary channels.
- Grid covers entire stage deck.
- There is a well opening at mid SL that measures 4'-6" x 7'-6" for getting large items onto the grid's working surface via a 1/2 ton chain hoist on a trolley.

**FLY SYSTEM**

- All line sets and travelers operate from stage right.
- Line sets 1 through 28 and 42 through 60 are single purchase counterweight and can be operated from the stage floor or from the bridge 17'-5" above the stage floor. **See line set chart.**
- Line sets 29 through 41 are double purchase counterweight and are located stage right, on a bridge 17'-5" above the stage floor. **See line set chart.**
- All line sets have a working load capacity of 1,100 lbs. Double purchase arbors actually hold 2,200 lbs. for an 1,100 lbs. working load. **See line set chart.**
- House is equipped with approximately 18,000 lbs. of counterweight.
- All battens are 1-1/2", I.D. schedule 40.
- All battens are 68'-0" long, with a travel of 55'-1". See line set chart.
- All battens are flown on six (6) runs of 1/4" wire rope with a spacing of 13'.
- Sheaves are "J" bolted to the topside of the grid and most may be kicked as needed.
- House is equipped with 50, 3/4" spotting sheaves.

Contact Jeff McManus for more details at [Jeff.McManus@Boplex.com](mailto:Jeff.McManus@Boplex.com) or call 704.335.3155.

**ELECTRICS****SHOW POWER**

- 600 Amp 3-phase  
Location - Upstage Right - Lighting Power
- 600 Amp 3-phase  
Location - Downstage Right - Lighting Power
- 400 Amp 3-phase  
Location - Downstage Left - Multi-Purpose Use
- 200 Amp 3-phase  
Location - Downstage Left - Isolated Sound Power

- 200 Amp 3-phase  
Location - Stage Right Work Area - Multi-Purpose Use

**SHORE POWER**

- None

**STAGE LIGHTING**

- Console: ETC ION. House requires an in-house Board Op any time the console is in use.
- DMX Gateways located downstage right, downstage left and front of house gives the capability to operate all of the house dimmers from the touring company's console.
- On stage dimming consists of 192 ETC Sensor 20 amp dimmers.
- Front of house dimming consists of 129 ETC Sensor 20 amp dimmers.
- All house dimming racks have dedicated power services separated from the show power listed above.

**LIGHTING POSITIONS**

- **Balcony Rail:**  
Distance from 0'-0" = 80'-0"  
Length: 40'-0"  
Instruments: None, with 30 circuits.
- **Cove:**  
Distance from 0'-0" = 44'-6"  
Length: Over 60' Angle:  
Instruments: 26 - 19 degree ETC Source 4, on 39 circuits per side.
- **Box Booms:**  
Distance from 0'-0" at Center Line = 50'-6"  
Instruments: 10 per side, 19 degree Source 4, on 30 circuits per side.
- **Follow Spots:**  
Four - 3000 Watt Lycian 1295XLT
- **Rental fee of \$150 per spotlight plus operator.**
- **Spotlight Location:** Rear center of balcony in an enclosed booth.
- **Throw to Stage:** 138'-2" to 0'-0"

Contact Jeff McManus for more details at [Jeff.McManus@Boplex.com](mailto:Jeff.McManus@Boplex.com) or call 704.335.3155.

**SOUND**

- **Mix Position:** Rear center of Orchestra Section. 110'-7" to lip of main stage.
- **Mix position is 24' wide by 7'-10" deep** and requires NO seat kills.
- **SEAT KILLS MUST BE MADE BEFORE TICKETS GO ON SALE.** We do not automatically kill any seats because it is not required for our standard mix position as described above. It is the presenter's responsibility to request any additional seat kills for cameras, projectors or any other reason before tickets go on sale.
- **Snake Route:** 175' minimum run through a trough in the floor, through the center of the Orchestra Section and dressed to the stage.
- **Mixer:** Yamaha QL5 is available.
- **Left and Right Position:** Four speakers may be stacked on the stage deck, or flown downstage of the proscenium.
- **Proscenium Clusters:** Consist of two (2) Meyer Sound CQ-2 Self-Powered Speakers at each left and right positions.
- **Upper Balcony Delays:** Consist of two (2) Meyer Sound CQ-2 Self-Powered speakers at each of the left and right positions.
- **Center Cluster and Center Delay:** Consists of one (1) Meyer Sound CQ-1 Self-Powered speaker at the main position and two (2) Meyer Sound UPA-2P in the delay position.
- **Under Balcony Delays:** Consist of six (6) EAW UB42 speakers.
- **Front Fills:** Consist of six (6) Meyer Sound MM-4 speakers.
- All speaker positions have separate EQ and delay capability.
- **Intercom:** Consists of a four (4) channel Clear-Com system. Rental fees apply.
- **Lobby Paging:** Consists of a 70-volt system in the lobby with a dedicated paging microphone and a show program feed.

## OVENS AUDITORIUM

- **Dressing Room Paging:** The dressing rooms have a separate 70-volt system with a dedicated show program feed with a volume control in each room.
- **Hearing-Impaired System:** Consists of 24 radio frequency (RF) receivers and a transmitter operating at 72.9Mhz in the FM band. There are three (3) neck loops, and three (3) silhouette couplers available upon request at the Customer Service Desk.
- A house sound technician is required when any house sound equipment is to be used.
- No equipment can be placed in ANY aisles due to fire laws.
- **There is a 98dbA sound pressure level limit.**

Contact Jeff McManus for more details at [Jeff.McManus@Boplex.com](mailto:Jeff.McManus@Boplex.com) or call 704.335.3155.

### INTERNET AND PHONE LINES

- Phone lines may be installed in most rooms in the backstage area upon request. A minimum of a 4 week notice is required for phone installation.
- High speed internet is available.
- **ALL phone and internet lines carry an installation and service fee**

### PROPERTIES

- **House Piano:** Kawai 6' baby grand. Rental fees apply. Tuning extra. House reserves the right to approve piano tuners.
- **Music Stands:** 60 Wenger black with tripod base. Lights are available.
- **Chairs:** 100 padded chairs available.
- **Risers:** Six (6) each, Mitchell 3'x 8' - 8" high, 16" high, 24" high and 32" high.
- **Additional Risers:** 28 staging dimensions standard 4' x 8' decks with fixed legs starting at 8" high through 48" high in 8" increments.
- **Washer and Dryer:** Three (3) Maytag washers and three (3) Maytag dryers, all located in Laundry Room in basement. **Rental fees apply.**

### DRESSING ROOMS

- **Dressing Room #1** - SL- 16'-3" x 9'-5" with shower and toilet.
  - **Dressing Room #2** - SL- 16'-3" x 9'-3" with shower and toilet.
  - **Dressing Room #3** - SL- 14'-3" x 9'-3" with shower and toilet.
  - **Dressing Room #4** - SL- 14'-1" x 9'-3" with shower and toilet.
  - **Dressing Room #5** - SL- 14'-3" x 9'-6" with shower and toilet.
  - **Women's Chorus Dressing Room** - USL- 35'-7" x 21'-7" with 4 showers, 3 toilets and 5 sinks.
  - **Men's Chorus Dressing Room** - USR- 31'-0" x 21'-7" with 4 showers, 5 toilets and 5 sinks.
  - **Wardrobe/Catering Room** - 22'-0" x 13'-0" - No water in this room.
  - **Production Office:** All show offices are typically taken from the above list of dressing rooms.
- \*\*\* All rooms listed above are located on stage level\*\*\* See Diagram.**
- **Laundry Room** - 20'-0" x 18'-8" - Located SL downstairs in basement - Has two (2) small sinks and one (1) large slop sink.
  - **Basement** - Located below the stage is accessible via the Orchestra Pit elevator and may be used for wardrobe, hair, management or additional dressing area.

### SEATING

- **Orchestra Section:** 1,309
- **Mezzanine:** 595
- **Balcony:** 474
- **Wheelchair Seating:** 25
- **Total Standard Seating Capacity:** 2,403
- **Pit Seating:** Up to 44 portable chairs with no arms. Pit seating must be arranged before tickets are placed on sale.
- **Total Capacity with Pit Seated:** 2,447
- **See Seating Diagram for more details.**

Contact Kyle Hopper at [Kyle.Hopper@Boplex.com](mailto:Kyle.Hopper@Boplex.com) or call (704) 335-3428 for ticket and seating information.