



TECHNICAL SPECIFICATIONS

LIVERMORE VALLEY PERFORMING ARTS CENTER
BANKHEAD THEATER
2400 First Street, Livermore, California 94550
925-373-6800

The Performing Arts Center's 507-seat Bankhead Theater, which opened on October 1, 2007, serves as the home for nine of the area's finest performing arts organizations. In addition, the theater presents artists from across the United States and around the world.

The Bankhead Theater is located approximately 35 miles south-east of Oakland, 34 miles north-east of San Jose, and 90 miles south-west of Sacramento; from I-580 take the North Livermore exit south towards Downtown Livermore. We are located between First Street, Railroad Avenue and South Livermore Avenue; at the Livermore Valley Center in Downtown Livermore.

Stage Specifications

Stage Floor

Painted Black Masonite; ¼" Duron on 2 layers ¾" plywood; on 2"x4" sleepers 24" off-center; on Mason SW waffle pads 4"x4"x3/4" spaced 24" off center.

Stage Dimensions

- A. **Proscenium Line to Back Wall** 41'-6"
(39'-4" to I-Beams)
- B. **Apron Edge to Back Wall**..... 46'-7"
- C. **Thrust to Back Wall**..... 56'-8"
- D. **Thrust Dimension (Curved)**
54'-4" Wide x 10'-1" Deep (center stage);
4'-1" (offstage)
Note: The Thrust has two fixed positions: Stage Level and Pit Level. It is moved manually.
- E. **Stage Width from SR Wall to Locking Rail** 78'-4"
- F. **Proscenium Opening**
48'-3" Wide x 19'-11" Tall
- G. **Curtain Line to Apron**..... 6'-1"
- H. **Curtain Line to DS Thrust Edge**
16'-2"
- I. **Curtain Line to Back Wall**.....40'-6"
- J. **Prosc Dist. to Last Lineset**35'-6"
- K. **Stage Right Wing**..... 17'-8"
- L. **Stage Left Wing**..... 12'-5"
- M. **Center Line to Stage Rt Wall**....42'-0"
- N. **Center Line to Stage Left Rail**. 37'-0"
- O. **Height from Stage Fl to Grid** 49'-3"
- P. **House Floor to Stage**..... 3'-0"
- Q. **Orchestra Pit Dimensions**
12'-9" Deep (at center) 5'-2" (at SL/SR)
x 54'-3" Wide
- R. **Stage Floor to Pit Floor**..... 8'-10"
- S. **Stage Floor to Pit Deck**..... 7'-5"
- T. **Stage Trap**
21'-0" Wide x 6'-0" Deep; located 8'-4"
upstage of proscenium

FOH Throw Distances

Catwalk Dimensions Measured from

Light Pipe:

Catwalk 1

- A. **To Curtain Line – Horizontal..** 16'-3"
- B. **To Curtain Line – Diagonal**..... 35'-2"

- C. **To Stage Floor – Vertical**..... 31'-1"

Catwalk 2

- A. **To Curtain Line – Horizontal..** 30'-9"
- B. **To Curtain Line – Diagonal**.....43'-3"
- C. **To Stage Floor – Vertical**..... 31'-1"

Control Booth (Measured from Window)

- A. **To Thrust Lip**..... 58'-9"
- B. **To Proscenium**..... 69'-11"
- C. **To Projection Screen**.....76'-6"
- D. **To Cyc**..... 107'-9"

Projection Screen

Motorized Front Projection Screen;
20'-0" Wide x 20'-0" (variable height)

Stage Equipment

Dance

Floor.....
6 Rolls (6'-6" Deep x 48'-0" Wide)

Harlequin Reversible (Black/Gray)

Music

Stands.....
60

Music Stand

Lights..... 60

Musician

Chairs..... 71

Stage Risers..... 8

4'x8' Wenger Versalite

*Inter-changeable legs available: 8", 16",
and telescoping 24"- 32"*

Choir Risers..... 5

Three step units; Wenger Signature

Conductor

Podium..... 1

Two step; Wenger Overview

Grand Piano..... 1

Steinway & Sons, Model D, 9 ft

Upright Piano..... 1

Yamaha U1 – 4'Hx5'Wx2'D

Orchestra

Shell..... 1

8 wall sections with 2 ceilings; Wenger Diva

Lecterns..... 2

1 – Large; 1 - Small

Tables

Contact theater management for availability

Sound System

Mains:

Left & Right Meyer CQ-1
Center Meyer UPA-1P
Front Fill Meyer MM-4
Subwoofer Meyer 600HP

Processing

Audia-FLEX Digital Signal Processor

Sound Board Yamaha M7CL-48

Located in control room with sliding glass windows w/iPad Remote

Booth Monitors

Genelec 8020A

Mic Pre's

32ch's of mic pre's

4 – AD8HR 8ch

Inputs from the 32 ch. mic pre's are patched via Slot 1 and Slot 2 on the Console

Monitors

4 Mixes

6 - L-Acoustic 12xt
(12" Woofer Bi Amped)

2 – LA4 Amplifiers

2 – Meyer UPM-2P Side Fill Speakers

2 – JBL Eon 15"

Microphones

58's

57's

Wireless

Please contact Production Manager for Microphone inventory.

Playback

Denon DN-T625 CD/Cassette Player

Tascam CD-RW901 CD Player/Recorder

Assisted Listening

Listen LT800-072 Assistive Listening System

Listen LR-300-72 ALC Receivers

LA-166 "T" coil Neck Loop attachments available.

Clear Com

RCS-2000 Intercom

MS-440 4ch Stage Manager Station

RS-601 Single Chanel Belt Pack

RS-602 Dual Chanel Belt Pack

Sound Pressure Levels: Management requires that sound pressure be kept within safe levels for both our audience and crew. If the peak sound pressure levels at the closest audience or crew member exceed 95 db (A-Weighted) or 100 db (C-Weighted), the audio engineer will be required to lower the volume. Bankhead staff will have the final approval over sound volume.

Lighting System

Console

ETC Ion 1000 With a 2x20 Fader wing attached.

w/iPad Remote

Dimmers

192 Strand Dimmers @ 2.4k

Electrics

House Trim Height approximately 23'

Lighting Instruments

ETC Source 4 10°, 19°, 26°, 36°, 50° and Pars.

WFL, MFL, NSP & VNSP Lenses available

Please contact Production Manager for current lighting inventory and plot.

Cyc Lights

6 - Colortran 3 Cell Far Cyps..... 1kw

6 - Altman Ground Cyc 6 windows..... 1kw

Followspots

2 Strong Radiance Systems..... 850w
75'-9" from window to curtain line – Diagonal measurement.

Circuits (Stage Pin)

| | | | |
|--------------|----|-------------|----|
| 2nd Catwalk | 18 | 1st Catwalk | 24 |
| 3rd Cove SL | 6 | 3rd Cove SR | 6 |
| 2nd Cove SL | 6 | 2nd Cove SR | 6 |
| 1st Cove SL | 6 | 1st Cove SR | 6 |
| 1st Electric | 24 | DSL Pocket | 6 |
| USL Pocket | 6 | USC Pocket | 6 |
| USR Pocket | 6 | DSR Pocket | 6 |
| DSL Drop | 12 | MSL Drop | 12 |
| USL Drop | 12 | MSR Drop | 12 |
| USR Drop | 12 | | |

Alternate circuits (paired with Catwalk circuits) located in other areas of theater; check with Production Manager

Company Switch/Auxiliary Power

Located at stage right wall

400 amp

3-phase Camlock (G/N turn-around required)

100 amp

3-phase Camlock (G/N turn-around required)

Miscellaneous

Barn Doors, Top Hats, Pattern Holders, Two-Fers, (24) Side Arms
All Connectors are Stage Pin 20A/120v
12' Pipe and Base (8)
Assorted cable 5'-100'

***Contact Production Department for current inventory numbers, light plot, and stage diagrams.**

Loading Dock

Dock Location Dock is located off Railroad Avenue on the North side of building.

Loading Dock Facilitates One Truck at a Time;

17'-6" Wide x 71'-9" Long (South Side)/ 39'-10" Long (North Side)

Dock

Height.....
4'-3"

Dock Door Dimensions

12' Wide x 9'-11" Tall

Location from Stage

Upstage Right at Stage Level

Distance from Dock to Stage.....
25'

There are two 90 degree left turns upon entering through dock door; opening in one area measures 9'-5" Wide x 10'-2" Tall

Stage Right Shop Doors

Opening is 11'-6 3/4" Wide x 17'-3 1/2" Tall

Shore

Power..... 50
Amp NEMA 14-50R Receptacle

Counterweight System

Located Stage Left, Single Purchase, Operated From Deck

Under-hung counterweight rigging system; manually operated; Electric 1 motorized Single-pipe general purpose battens, double-pipe dedicated first electric batten and dedicated orchestra ceilings.

Typical Batten is 64' - 0" Long, 1-1/2" nom. Schedule 40 painted steel pipe with 7 lift lines, 8" diameter loft blocks, 6 feet telescoping extensions each end, approximately 1000 lbs live load capacity.

Distance is from centerline of batten to face of proscenium wall. Difference is center/center distance.

Dedicated battens do not move / re-hang.

LVPAC Lineset Schedule

| Number | Description | Distance | Difference | Note |
|--------|------------------------|----------|------------|-----------|
| 1 | Main Drape | 1' - 0" | 12" | Dedicated |
| 2 | Border # 1 | 1' - 9" | 9" | |
| 3 | Leg # 1 | 3' - 3" | 18" | |
| 4 | Electric # 1 | 4' - 0" | 9" | Dedicated |
| 5 | Projection Screen | 5' - 6" | 18" | Dedicated |
| 6 | Pipe | 6' - 3" | 9" | |
| 7 | Pipe | 7' - 0" | 9" | |
| 8 | Border # 2 | 7' - 9" | 9" | |
| 9 | Leg # 2 | 8' - 6" | 9" | |
| 10 | Orchestra Ceiling 1 | 10' - 0" | 18" | Dedicated |
| 11 | Pipe | 11' - 6" | 18" | |
| 12 | Electric # 2 | 12' - 3" | 9" | |
| 13 | Pipe | 13' - 0" | 9" | |
| 14 | Border # 3 | 13' - 9" | 9" | |
| 15 | Mid Traveler / Leg # 3 | 15' - 3" | 18" | Dedicated |
| 16 | Pipe | 16' - 0" | 9" | |
| 17 | Pipe | 16' - 9" | 9" | |
| 18 | Pipe | 17' - 6" | 9" | |
| 19 | Pipe | 18' - 3" | 9" | |
| 20 | Pipe | 19' - 0" | 9" | |
| 21 | Electric # 3 | 19' - 9" | 9" | |
| 22 | Orchestra Ceiling 2 | 21' - 3" | 18" | Dedicated |
| 23 | Border # 4 | 22' - 9" | 18" | |
| 24 | Leg # 4 | 23' - 6" | 9" | |
| 25 | Pipe | 24' - 3" | 9" | |
| 26 | Pipe | 25' - 0" | 9" | |
| 27 | Pipe | 25' - 9" | 9" | |
| 28 | Pipe | 26' - 6" | 9" | |
| 29 | Pipe | 27' - 3" | 9" | |
| 30 | Pipe | 28' - 0" | 9" | |
| 31 | Border # 5 | 29' - 6" | 18" | |
| 32 | Pipe | 30' - 3" | 9" | |
| 33 | Electric # 4 | 31' - 0" | 9" | |
| 34 | Pipe | 31' - 9" | 9" | |
| 35 | Rear Traveler | 32' - 6" | 9" | Dedicated |
| 36 | Pipe | 34' - 0" | 18" | |
| 37 | Pipe | 34' - 9" | 9" | |
| 38 | Cyclorama | 35' - 6" | 9" | |

Drapery

Main

Drape..... 1
Henna; 25oz Overture Velour with Denim Lining; Guillotine or Travels (Center Split)

Borders.....
..... 5 Sets
10'-0" Tall x 96'-0" Wide; Black; 21oz Concertino

Legs.....
..... 5 Sets *10 Legs; 22'-0" Tall x 14'-0" Wide; Black; 25oz Overture Velour*

Mid Stage Black

Traveler..... 1
2 Panels Black Velour; 24'-0" Tall x 33'-0" Wide (64' Wide total); Dedicated on Two-Way Track
Serves as Leg #3 when open

Rear Black

Traveler..... 1
2 Panels Black Velour; 33'-0" Tall x 33'-0" Wide (64' Wide total); Dedicated on Two-Way Track

Black

Scrim..... 1
Black Sharktooth, 27'-0" Tall x 60'-0" Wide

White

Scrim..... 1
White Scrim, 27'-0" Tall x 60'-0" Wide

White

Cyclorama..... 1
27'-0" Tall x 60'-0" Wide, Grey Leno

Wardrobe

A Wardrobe Room located in the basement, off Stage Left, with stair and elevator access.

Washer..... 1 **Dryer**..... 1

Jiffy Steamer..... 1 **Iron**..... 1

Ironing Board.... 1

Rolling Wardrobe Racks..... 6

Dressing Rooms and Green Room

There are four Dressing Rooms located off Stage Left. All rooms have make-up lights, mirrors, chairs, sinks, toilets, and showers. A Green Room is located off Up Stage Left.

Stage Level Dressing Rooms

Star 1.....
Capacity 2
Approx 12'-0" x 9'-0"; 108 Sq Ft

Star 2.....
Capacity 2
Approx 11'-0" x 8'-0"; 88 Sq Ft

Second Floor Dressing Rooms

Stairs and Elevator Access

Chorus 1.....
Capacity 20
Approx 13'-0" x 29'-0"; 377 Sq Ft

Chorus 2..... Capacity 20
Approx 13'-0" x 21'-0"; 273 Sq Ft

Green Room.....

Capacity 25
Approx 21'-0" x 22'-0"; 462 Sq Ft

Protocol and Restrictions

No item with wet paint may be brought into the facility, and no major painting may be done anywhere inside or outside of the facility. The Theater will allow touch-up painting only on sets, props, and costumes. All painting projects must be scheduled in advance with Theater Production Manager. The Presenter will use care to protect the facility from paint spills and over-spray, and to perform any necessary clean-up.

To facilitate load-in, scenery should arrive properly rigged. The Theater reserves the right to re-rig any piece deemed unsafe to fly. If the Presenter desires to fly people, the Presenter must employ a specialty flying company approved by The Theater (such as Flying by Foy or ZFX).

Glitter, small confetti, and hay is prohibited in the theater. Chewing gum is never allowed. Food and drinks are prohibited on the stage, backstage and in the auditorium except bottled water.

A sufficient number of adult chaperones are required for events with children on stage and must be present when children arrive. The Presenter is responsible for the behavior of all cast members backstage.

The Presenter should arrange for all deliveries and pick-ups of equipment to occur during the time contracted for the use of the Theater. Any pick-ups or deliveries scheduled outside of this time must be approved in advance by The Theater. Storage of sets, props, costumes, etc. over any non-contracted days is not allowed.

The Presenter should provide a Stage Manager familiar with the production for all rehearsals and performances. The Stage Manager will call the show on headset with the stagehands. Theater personnel will assist and train the Stage Manager if required.

Fire Code and Safety Compliance

Compliance with all local, state, and federal safety and fire codes is required. All sets and drops must be flame proofed or fire retarded. Management will prohibit the use of any item failing to comply with fire codes and/or safety standards.

The use of all special effects equipment, including, but not limited to, smoke machines, fog machines, hazers, and all types of pyrotechnic equipment, as well as the use of gun powder, starter pistols, candles, cigarettes, and all types of flames, is subject to the advance approval of Management and, in some cases, the Livermore-Pleasanton Fire Department Fire Marshal. Please note that without advance approval, the use of special effects will be denied.

LVPAC adheres to professional theater industry safety codes. All flown scenery requires the use of hardware rated for that purpose. Stagehands must be given scheduled breaks.

In accordance with California state law, the entire Theater building is a smoke-free facility.

Contacts

BANKHEAD THEATER

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Loading Dock
Located on Railroad Avenue

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