

**TECHNICAL SPECIFICATIONS FOR
THE BING THEATRE 2008**

Technical Specifications and Equipment

PREFACE

This information is intended to provide answers for prospective visitors to the most common questions concerning the technical aspects of our theatre.

I. Location of Theatre

The Bing Theatre is located in the center of University of Southern California main campus. To get to the Bing enter through gate 1 off of Exposition Blvd. Go straight at gate down Watt Way. The Bing is at 3500 Watt Way. You must call before making deliveries, as there are 2 gates to get through after the main gate.

II. Bing Theatre Manager

Name & Address:	C B Borger Technical Theatre Manager 1029 Childs Way, DRC room 104 Los Angeles, Ca 90089-0791
Office:	3500 Watt Way (Back Stage Right of the Bing Theatre)
Office Phone:	(213) 740-1247
Back Stage Phone	(213) 740-1249
Cell Phone:	(650) 270-8479
FAX Number:	(213) 740-6969
E-mail:	borger@usc.edu

III. General Information

- A. The auditorium has one floor, continental seating, and 551 capacities.
- B. Load-in is at stage level through one set of double doors. The openings dimensions are 12 feet wide and 20 feet tall.

C. Your crew will consist of at least one full-time staff member and paid student assistants. Please indicate the size of load-in and run crews, loadin time, and final time when composition of crew cannot be altered for the run of the show.

IV. Dressing Rooms & Costume Facilities

A. Men's and Women's dressing rooms are located beneath the stage. Access is via stairways offstage left and right. There is one single-occupancy dressing room stage right.

B. The women's dressing room has 18 mirrors; the men's has 12 mirrors with make-up lights and costume racks.

C. Each company dressing room has an adjoining rest room with sinks, toilets, and showers (please provide your own soap and towels for showering).

D. We have one ironing board, steam iron, washer and dryer for light laundering and costume touch-up (please provide your own laundry products).

V. Stage dimensions

A. Proscenium

- 1 Height in feet --20'-0"
- 2 Width in feet – 47'-6"

B. Stage

1. Plaster line (upstage edge of proscenium) to back wall
– 37'-3"
 2. Depth from front of apron to back wall on center line
– 49'-6"
- 1 Depth of Apron – 12'-3" on center line.
 - 2 Wing space stage left – 18'-0"
 - 3 Wing space stage right – 22'-0"
 - 4 Height from floor to grid --60'
 - 5 We can install 3'-0" wide proscenium inserts to help with masking.

C. Traps

- 1 Dimensions 3'6" wide and 7' deep
- 2 Location 7'-0" upstage of plaster line; 3 on each side of the center line.
- 3 Quantity-6

D. Lifts

1. We have three Orchestra Pit/lifts. The lifts down begin 2'-1" of the down stage edge. Each lift is approximately 5'8" deep and 13'-0" wide. They follow a slight curve. Each lift is run separately from the stage or the pit. The altitude is infinitely variable from stage floor level to a depth of 8'-0".

VI. Fly System

A. Fly floor --located Stage left at stage level.

B. Type --Curran, single-purchase, upright, T-track, counterweight system.

C. Number of lines --34 (all lines fly).

NOTE: Please consult with the Theatre Manager before making final plans for flown scenic elements.

D. Height of Grid --60'

F. Batten Length – vary from 54'-6" to 40'-0" to accommodate a wrap around cyc on line-set 33

B. Maximum weight per line-set is 25 full pigs or 875 lbs.

VII. Drapes and Soft Goods

A. Act Curtain

1. Act curtain is blue velour, located permanently on line
1. It will either fly or draw.

B. Legs

- 1 Number of legs --Five sets
- 2 Dimensions – 12 feet wide height varies from 28' to 34'-6" tall.
- 3 Material --Black Velour

C. Borders

1. Number of borders --4
- 1 Dimensions --12' tall, 60'-0" wide
- 2 Material --Black Velour

D. Other Drapes

1. One 60' x 30', black velour, split in middle. Flies, does not draw. May be hung on any open batten.

E. Scrim

1. We have one black sharks tooth scrim, 54' x 30'.

F. Straight Cyc (Sky Drop)

1. Material – white Leno filled scrim
- 1 Dimensions – 54' x 30'
- 2 Location --Line 34

3. has west coast bag.

G. Wrapped Cyc

- 1 Material White unbleached Muslin
- 2 Dimensions: 12' x 30'
- 3 Locations—Line 33
- 4 has west coast bag

H. Movie Screen

- 1 Material White perforated seamless screen
- 2 Dimensions-18'-0"x 32'-0"
- 3 Location—line 5

VIII. Lighting System

A. Main Control Board

Type – Colortran Encore

- 1 Number of channels --1024
- 2 Number of cues --1000
- 3 Number of faders --1 physical,
- 4 Number of sub masters --48, overlapping

5 B. Auxiliary Lighting Control

1. Rosco Horizon

- 1 Number of channels – 512
- 2 Number of cues --512

2. Whole Hog II

- 1. 4 Universes of DMX

Note: Please indicate on your light plot or hookup which control board you desire, the configuration you prefer, and if you will be running the board yourself.

C. Dimmers

- 1 Type – Colortran I-series number 288
- 2 Type-ETC sensor packs number 48

D. Patching/Plugging

- 1 All patching/channel assignment is done at the control console. This is a dimmer-per-circuit system, so there is no patch panel.
- 2 Plugging connectors are 20 amp, stage pin

E. Backstage Electrical Service

- 1. Location –off stage right
- 2. Company Switch – 200 amp/leg, three phase with neutral and ground,

fused disconnect.

2 We have one set of 4-0T bare tails to cam-lok.

IX. Lighting Inventory

48: ERS: ETC Source Four 36 Degree (ETC436)

Lamp: HPL (575W)

40: ERS: ETC Source Four Zooms 15-30 Degree (ETC41530)

Lamp: HPL (575W)

50: ERS: Strand 6x12 (Strand 2212)

Lamp: FEL (1000W)

14: ERS: Strand 6x16 (Strand Century 2111)

Lamp: FEL (1000W)

6: Far Cyc: Colortran Three Window Far Cys (Colortran 108-412)

Lamp: FFT (1000W)

2: Follow Spot: Lycian Starklight Follow Spot (Lycian 1271)

Lamp: 1200W HMI

7: Fresnel: Electro Controls 8" Fresnel (Electrol Controls 3485A/Electrol Control 7485B)

Lamp: BTL (750W)

20: Fresnel: Strand 8" Fresnel (Strand Century 3480)

Lamp: BVV (1000W)

37: PAR: Par 64 (Par 64)

Lamp: FFN or FFP or FFR or FFS (1000W)

6: Strip Light: L&E 4 cir. Mini Strips (Lighting & Electronics 65)

Lamp: 10 EYC lamps per cir. (750W per cir.)

Floating Inventory

16: Selecon Pacific 23-50 Zoomspot(Selecon)

Lamp: GLA (575W)

12: Wybron Forerunner Color scroller (16 color changes)

2: Wybron Forerunner Power supplies

10: Birdies (par 20 wide lamps 75W)

EDMX system

DMX port locations:

- 1 Stage right wall
- 2 Stage left wall
- 3 #3 anti pro.
- 4 Audience Row K
- 5 light booth
- 6 computer lab

X. Onstage Lighting Positions (all backstage electrics fly)

A. First Electric

1. Distance from proscenium – 2'-8"
- 1 Number of different circuits --30
- 2 Length – 56'-0"

B. Second Electric

- 1 Distance from proscenium --10'0"
- 2 Number of different circuits --20
- 3 Length – 54'-0"

C. Third Electric

- 1 Distance from proscenium --17'6"
- 2 Number of different circuits --20
- 3 Length – 54'-0"

D. Fourth Electric

- 1 Distance from proscenium --27'6"
- 2 Number of different circuits --20
- 3 Length – 40'-0"

E. Floor Pockets

1. Number of pockets --14
- 1 Number of different circuits per pocket – 4, or 2
- 2 Total number of different floor circuits --44

5. Pockets are located off left and right, 5 per side and 3 going down the center

- 1 Proscenium arch has 1 box per side 4 circuits each
- 2 Drop Boxes six-6 circuits boxes(They reach all the pipes in the fly system)

G. Booms and Ladders

- 1 Standing Booms (trees) --8 @ 10'-6"(taller upon request)

H. Torms

- 1 Each Torm has a 20'-0" vertical pipe
- 2 Location 1'-0" Down stage of Proscenium arch., 3'-6" off stage of arch.
- 3 Each Torm has three 4 circuit drop boxes for a total of 12 circuits per side.

XI. In-Front-of-Proscenium Lighting Positions

A. First Ante-Pro

- 1 Number of different circuits --10
- 2 Distance from proscenium --13'-6"
- 3 Height above stage level -- 33'-0"
- 4 Diagonal distance from pipe to plaster line on stage floor -- 35'-6"

B. Second Ante-Pro

- 1 Number of different circuits --30
- 2 Distance from proscenium -- 28'-0"
- 3 Height above stage level -- 33'-0"
- 4 Diagonal distance from pipe to plaster line on stage floor --43'-4"

C. Third Ante-Pro

- 1 Number of different circuits --10
- 2 Distance from proscenium -- 45'-0"
- 3 Height above stage level -- 33'-0"
- 4 Diagonal distance from pipe to plaster line on stage floor --55'-9"

E. House Box Booms

1. Six boxes 3 per side
- 1 Height --Pipe runs from 11' to 20' above stage level.
3. Number of circuits in each box position—

box #1 4 circuits,

box #2 8 circuits,

box #3 4 circuits

NOTE: Box booms are cramped for space and access is difficult. Capacity is eight instruments in pairs in boxes one and two. Box three can accommodate 4 fixtures. Source 4 Zooms are too large in size to hang in this position.

Follow Spot Positions

Light booth

#3 Anti-Pro

XII. Communications

A. We have headset communications, show monitoring (audio), and can provide paging to all key locations within the complex using the in house sound system. We have a clearcom 2 channel base station that run to single channel headsets and stations.

Station locations:

- a. Stage right pro arch
- b. Stage left pro arch
- c. Row N in house
- d. #3 anti pro
- e. flyrail
- f. light booth

B. Wireless clearcom WB 670 station

C. 2 wireless belt packs

XIII. Sound System

A. Location

1. Sound system controls and reproduction equipment are located in the back row of the auditorium Stage left of center.

B. Mixing Consoles

- 1 **YAMAHA MC7L48 Digital mixing board.**

C. Reproduction Equipment

1: Two **Playback: Marantz Compact Disc Player**

PMD 331

2: One **Playback: Panasonic DAT Player**

SV 3800

3: One **Playback: Marantz Cassette Player**

PMD 501

D. Speakers

- 1 Voice reinforcement cluster in ceiling over apron (BBI)
- 2 2 corner speakers FOH EV T-52+, rear of House BBI.
- 3 2 Subs HR and HL in Pro-arch (BBI)

4 Four EV 1501 Passive 15" mounted for back stage monitoring

E. Amplifiers

1 Two QSC CM16 controller 2 Six QSC Powerlight
3.8 Amplifiers 3 Five QSC 502 Amplifiers 4 Two
Crown Macro tech 600

F. Microphones

6: Mic: Audio Technica Boundary Mic (Audio Technica AT 849)

Wired floor mic

8: Mic: Countryman Choral Mics

Wired Overhead Mics

1: Mic: Sanheiser MD421 (Sanheiser MD421)

Wired mic with Clip

8: Mic: Shure Mic SM57 (Shure SM57)

8: Mic: Shure Mic SM58 (Shure SM58)

Wired Hand Held

8: Mic: Shure Mic SM81 (Shure SM81)

Wired Mic

4: Mic: Shure UHF SM 58 Combo Pack *Wireless handheld/lav.*

Wireless Microphones

1 2 Shure UT UHF wireless combo packs, SM 58 or Lav with belt pack uses
9 volt batteries

2 1 Shure wireless mic duel unit UHF SM 58 or Lav with belt pack uses 2
AA batteries

G. Signal Processing Equipment

1 BSS Audio Webb, 2 9088ii network units

4. Effects

i. TC Electronic 2 Channel M-1

ii. Alessis MidiVerb 4 2 channel

2 2 DBX compressor/Limiter1066

3 1 PC to control QSC amplifier patching and signals; as well as the BSS
Audio Webb

4 House monitoring 1 Sure Aux expander the house system utilizes 1 mic
input and 2 Aux outputs from the Crest Console.

Wireless frequencies in use.

Mic #1 790.875 Hz

Mic #2 788.250 Hz

Mic #3 623.350 Hz

Mic #4 624.300 Hz

Clearcom base station

566.000 Hz

577.000 Hz

710.000 Hz

716.000 Hz

Belt packs

716.200 Hz

716.700 Hz

XIV. Other Equipment

A. Rosco Dance Floor --Custom cut to fit behind portal inserts 41'-0" wide, six panels deep.

B. rolling lifts

One 18'-0" JLG self driving lift, cannot be driven on Orchestra pit
One Genie 32'-0" with outriggers lift

C. Assorted ladders