

GRAND OPERA HOUSE TECHNICAL DATA June 2006

I. GENERAL INFORMATION

- Executive and Artist Director, Frank McClain
- Technical Director, Tracey Richardson
- Address:
135 W 8th Street, Dubuque, Iowa 52001
- Telephone:
Business Office (563) 588-4356 Fax (563) 588-3497
Box Office (563) 588-1305
- The Grand is a community theater, utilizing volunteers in the majority of cases as operating personnel. As such, the theater operates as a non union shop.
Nearest grocery store is Hy Vee located at 2800 Locust Street, a five-minute drive from the theater.

II. AUDITORIUM

- Seating capacity:
Main floor 408
Balcony 214
Total 622
- Controls for the house lights are in the inner lobby and are typically operated by the House Manager

III. LOAD IN

- The stage door is used for loading in and is located in the alley on the west side of the building. The double door opening measures 76 inches wide by 115 inches tall and includes a graded concrete ramp from the door jam to the alley. There is no loading dock as the stage floor is virtually level with the alley.

IV. STAGE INFORMATION DIMENSIONS

- Proscenium arch measures 30 feet high and 34 feet wide at the columns.
- The total Stage dimension is 34' wide by 34' deep
- Main curtain is 4 feet back from the edge of the apron.
- Backstage crossover is facilitated by a cyc and full black curtain upstage. The crossover space is 4 feet from the back wall. The distance from the main curtain to the crossover is 24 feet and 28 feet to the back wall.
- Stage Right offstage space from curtain edge to stage right wall measures 10 feet.

- Stage Left offstage space from curtain edge to stage left wall also measures 10 feet.
- Stair wells on both sides of stage at approximately 12 feet in length and extending 5 feet from side walls. Stage Right stair well leads to dressing rooms and Stage Left to the Prop Room.
- Orchestra Pit is in front of the stage measuring 25 feet long x 9 feet wide with a depth of 3 ½ feet below the level of the stage floor. The pit does not have the capability of being covered at this time.

FLY SYSTEM

- The fly system is a counterweight system incorporating both hemp lines and electric winches. The electric winches are on the first three electric batons used for hanging lights, while the fourth electric utilizes a manually operated counterweight line. Controls for the winches are found both on the stage left front wall and on the Pin Rail platform.
- The Pin Rail platform is located on stage left some 20 feet above the stage floor and is accessed via an enclosed ladder upstage left.
- The Loading Platform is located stage left, approximately 56 feet above the stage floor at the grid level.
- A full size movie screen is hung down stage and may be used for audio visual presentations, typically corporate meetings. The screen is typically stored in the up position over the stage.
- The Main Curtain is located five feet from the front of the stage and may be flown or run on its own track.
- A black mid-stage traveler is hung mid-stage, but may be moved to facilitate different needs.
- A white cyclorama is hung at the back of the stage, some 7 feet from the back wall.
- A black curtain is hung at the extreme back of the stage, some 4 feet from the back wall, this space is used as the main crossover path.
- A copy of the line set schedule is attached.

v. LIGHTING

POWER TIE IN

- A power box carrying a dedicated 3-phase 208 volts of electricity is located backstage right adjacent to the stage door.

DIMMER POWER PACKS

- There are 72 channels of dimming located in a loft on stage right. Each dimmer has a capacity of four circuits and a total of 2500 watts of power.

STAGE LIGHTING

Unless otherwise noted, all circuits utilize stage pin fittings

- There are four “electrics”, each running 41’ long and centered. The 1st electric carries 30 circuits and is located 5 feet upstage from the main curtain. Each of the remaining electrics carries 20 circuits. The distance between the 1st and 2nd electric is 6 feet. The distance between the 2nd and 3rd Electrics is 5 feet while the distance between the 3rd and 4th electrics is also 5 feet.
- There are four wall boxes located at the four corners of the working stage, some ten feet above the stage floor. Each box carries 4 circuits with both stage pin and Edison receptacles.
- There are two drop boxes on each side of the stage, each carrying 6 circuits. These are available for side lighting and/or strip lights for the cyclorama.

FRONT OF HOUSE LIGHTING

- The front of the balcony in the auditorium has an attached rail with 10 twist lock circuits. The balcony rail is approximately 14 feet from the auditorium floor and 46 feet from the farthest point left or right to a down stage center point on the front apron.
- A light tree, approximately 9 feet tall is placed on each side of the balcony, both house left and house right. Each of these trees carries 18 stage pin circuits.

SPOTLIGHTS

- Two Altman Explorer TH long throw spotlights are located in an enclosed room on the 3rd floor.

LIGHTING INSTRUMENTS

The following is an inventory of working lights on hand. All lights carry the Altman label.

<u>Quantity</u>	<u>lens size</u>	<u>Type</u>
4	10°	Shakespeare
6	6x16	360Q
11	20° (6x16)	Shakespeare
6	6x12	360Q
13	30° (6x12)	Shakespeare
9	6x9	360Q
19	40° (6x9)	Shakespeare
8	specials	1KL rail front lights
40	6 inch	Fresnels
4	12 light unit	border lights -floor (3 circuits)
4	12 light unit	border lights-hung (3 circuits)

LIGHTING CONSOLE

- The lighting controller is a ETC Express 48/96. The board has 96 channels, or 48 when operated as a two scene preset version, and has 24 Submasters available. In addition, the board can be programmed

and has the capability of running stacked cues. The board is portable and can be operated from the sound mixing station in the balcony, or the control room located on the 3rd floor.

VI. SOUND SYSTEM

(Visiting companies who wish to use their own sound system typically set up their mixing board under the balcony, house right against the back wall. However, this requires us to block out approximately 12 seats in that vicinity.)

SOUND MIXING STATION

- A specially constructed desk is located in the back of the upper balcony to house the mixing board as well as the dimmer board and various sound related equipment.

MIXING CONSOLE

- Allen Heath model GL2200. The board has 32 channels, 4 busses, and 6 auxiliary returns. The console is permanently located at the mixing station in the balcony. Two separate sound snakes are fed into the board: One is tied into the wireless receivers housed in the balcony, and the other is tied to the hard wire microphone system. This snake is 20 channels and terminates stage left in the orchestra pit.

SPEAKERS

- The main house speakers consist of the following configuration:
Front of house consists of three Renkus Heinz CT5 speakers with two down speakers, also Renkus Heinz, model 81/9. This configuration is flown within the auditorium in front of the stage at a height to optimize the sound quality.
There are also four small PAS speakers placed under the balcony to enhance sound in that section of the auditorium.

MONITORS

- There are four portable stage monitors available. These carry the EAW label model SM200 IH.
- Two PAS speakers are also flown on either side of the stage and serve as back stage monitors.

MICROPHONES

Unless otherwise noted all microphones are manufactured by Shure, Inc.

- Wireless-We maintain 16 wireless body mic systems, all of which are uhf. Eleven are the ULXP model and 5 are LX models.
- Hand-held wireless- We have two hand held microphones, one ULXP, and the other model LX.
- Floor microphones- We have five Crown PCC 160 hard wire mics, which require phantom power.

- Hard wire microphones- We maintain four SM 58 microphones and three SM 57 microphones.

SOUND SNAKES

- One 20 channel snake running from under stage right orchestra pit to the mixing station in the balcony. This snake is dedicated to supporting hard wire microphones.
- One 20 channel snake running from the house left front of balcony to the mixing station in the balcony. This snake is dedicated to supporting the wireless microphone system.

PLAYBACK EQUIPMENT

- One standard tape recorder, one standard CD player and one Sony mini CD recorder/player are located at the Sound Mixing Station in the balcony.

VII. INTERCOM SYSTEM

HARDWIRE

Clear Com base station is located at Stage Manager's station, stage right against front wall.

- Headset Locations
 - Orchestra Pit
 - House Manager Station in inner lobby
 - Soundboard station in balcony
 - Spotlight station (two) on 3rd floor
 - Auxiliary light board station on 3rd floor
- Speaker Box locations
 - Third floor spotlight station
 - Green Room in basement

WIRELESS

- Clear Com base station is typically placed at Stage Manager's station, however, the unit is portable.
- Four wireless Clear Com headsets are available for use, however, two are typically used backstage by Pin Rail platform personnel.