Technical Specifications for
THE BENTLEY THEATER

HOPKINS CENTER FOR THE ARTS,
DARTMOUTH COLLEGE
HANOVER, NH
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CONTACT INFO

Hopkins Center Staff

- **Senior Production Manager**: Keely Ayres (603) 646-0971
- **Production Manager**: Todd Campbell (603) 646-3224
- **Production Manager**: Mark Hanneman (603) 646-9368
- **Production Office**: (603) 646-1661
- **Programming Office**: (603) 646-3453
- **Events Office**: (603) 646-0972

Addresses

**Mail / FedEx / UPS Shipping Address**
8 East Wheelock St
Lower Level Wilson Hall #6041
Hanover NH 03755

**Physical Street Address (Hopkins Center for the Arts Public Entrance)**
4 East Wheelock St
Hanover NH 03755

Directions to the Loading Area

**From Interstate 89:**
Take exit 18 and follow route 120 north for about 6 miles into Hanover. At the traffic light adjacent to the Mobil Station, bear on Lebanon St. Go about 1/2 mile, the Moore Theater loading dock is in the parking area on your right immediately. Entrance is on your right at the base of the Citizen’s Bank sign. After entering the parking lot proceed up the incline to the top and look for a garage door in the farthest right hand corner of lot at the end of a long covered walkway/driveway.

**From Interstate 91:**
Take exit 13 and follow signs to Hanover and Dartmouth College. Take a right at the second light on Main St. At the next light take a left on Lebanon St and then another immediate left into a parking area at the base of the Citizen’s Bank sign. After entering the parking lot proceed up the incline to the top and look for a garage door in the farthest right hand corner of the lot at the end of a long covered walkway/driveway.

*Best address to use to find the loading dock on Google Maps is: 6 Lebanon St, Hanover NH 03755.*
GENERAL INFO

Seating Capacity:  (181 maximum capacity)
Proscenium:       181
In the Round:     139 (2 rows of seats up on the stage-23 seats)
3-sided:         116 (no seating up on the stage)
Wheelchair seating: variable number and locations

Available files and Documentation (contact the production manager)
Lightwright (LW Instrument Schedule of Rep Plot available)
Vectorworks (Vectorworks drawing of theater available upon request)
Microsoft Office Visio (Visio drawing of theater available upon request)

Loading Dock:
Loading Door:    7’-11”H x 8’-6”W, 1 floor above theater at street level
Freight Elevator:  5’-5”W x 7’-0”H x 10’-0”D
Truck Access:   Must back up ramped drive to dock. Nearly level surface at dock.
Trailer Storage: At Thompson Ice Arena parking lot across campus
Loading Dock:   Truck unloading is at street level. No truck ramp is available.
Access to stage: Down one level on freight elevator. Elevator is just around the corner
                 from the loading dock. Path is through Scenery Storage, down two hallways and
                 entering through a double door SR, 4’-9”W x 6’-11”H.

Storage Space:
There is limited space for storage of empties.

Rehearsal Space:
Theater Department Rehearsal Room available around class schedule if pre-arranged. The room
is app. 30’W x 25’D with a tile floor and mirrors on one wall and is located on the other side of the
upstage, back wall of the Theater. Through this room, there are access doors to upstage left for scenery
load in, elevated app. 3’ above stage level, with an opening 4’-11”W x 6’-10”H.

Labor:
Four full time IATSE Production staff supplemented by IATSE local #919 temporary stagehands
and trained work study students.

Dressing Rooms:
2 Small Dressing Rooms seat 8 each (with attached showers and toilets)
2 Large Dressing Rooms seat 16 each (showers and toilets down the hall)

Dressing Rooms are shared with others theatres in the Hopkins Center. Please contact the
Production Manager to ensure availability

All dressing rooms contain tables, chairs, mirrors and are well-lit. Proper heating is maintained.

Wardrobe:
1 Washer and 1 Dryer with possible pre-arranged access to an additional washer and dryer.
Laundry Location: Off stage right, just past the Dressing Rooms.
There is no designated wardrobe room but one of the 4 dressing rooms can be used.
STAGE SPECIFICATIONS

Stage Dimensions and Distances:
- Proscenium width: 42'-9"W, height: 14'-0"H (12'-0"H to bottom of first border)
- Front edge of stage to back wall: 21'-6"
- Front edge of stage to last pipe (cyc lights) where ceiling begins to curve down: 15'-9"
- Front edge of stage to DS edge of cyc trough: 18'-6"
- Front edge of stage to Main Curtain: 3'-0"
- Tech Balcony Rail FOH to Front edge of stage: 35'-0"
- Wing space: stage right-app. 5'-0", stage left-app. 8'-0"
- Width of Electric and Soft Good pipes: 46'-6"
- Height of electrics and soft goods pipes over stage: 14'-2" (except after the last cyc light pipe where the ceiling begins to curve down)
- Height of dead hung grid over Pit Area: 17'-1"
- Crossover: None available onstage. Access to back hallway through rehearsal room USL.

Stage Floor:
1/2" MDF over concrete painted flat black
Harlequin dance floor available in black and grey

Pit Area for 3 or 4 sided performing:
- Dimensions: 28'-2"W x 20'-3"D
- Flooring: Marine Linoleum over 2 layers of ¾” plywood on concrete.

Soft Goods:
Main Curtain: Blue Velour, 50'-0" W; travel only with split in the middle
Legs (side masking): 1 pair of flat black velour legs 14'-7"H x 12'-0"W
  @ 7'-5" US of Front edge of stage
Borders (overhead masking): 2'-0"H x 45'-0"W
  @ just US of Main Curtain
Full Stage Black: 1 permanently-hung flat black velour traveler on track
  @ 15'-0" US of Front edge of stage
German Side Masking: flat black velour legs on track starting DS and going US 15'-0"
  @ 25'-6" SL and SR of Center Line
Black Scrim: 40' W Black scrim
  @ 14’ 2” US of Front edge of stage
Cyclorama: No soft cyc – hard cyc painted white on US wall; starts at app.15’ high and curves down to floor over 5'-9” of depth
### Bentley Theater Onstage Pipe Schedule

There is no fly system in this space. There is a dead hung grid over the Pit/Audience area and dead hung electrics and pipes over the stage.

<table>
<thead>
<tr>
<th>Dist. to Stage Edge</th>
<th>Description</th>
<th>Height to Pipe Bottom</th>
<th>Batten length</th>
</tr>
</thead>
<tbody>
<tr>
<td>3'</td>
<td>Main Curtain</td>
<td>16'-0&quot;</td>
<td>58'-4&quot;</td>
</tr>
<tr>
<td>3'-5&quot;</td>
<td>Border (Bottom Height = 12')</td>
<td>16'-0&quot;</td>
<td>46'-6&quot;</td>
</tr>
<tr>
<td>5'-2&quot;</td>
<td>1st Electric</td>
<td>On winch, currently 14'-2&quot;</td>
<td>43'</td>
</tr>
<tr>
<td>7'-5&quot;</td>
<td>2nd Electric &amp; Legs</td>
<td>15'-3&quot;</td>
<td>46'-6&quot;</td>
</tr>
<tr>
<td>9'-8&quot;</td>
<td>3rd Electric</td>
<td>15'-5&quot;</td>
<td>46'-6&quot;</td>
</tr>
<tr>
<td>11'-10&quot;</td>
<td>4th Electric</td>
<td>15'-2&quot;</td>
<td>See Note</td>
</tr>
<tr>
<td>13'</td>
<td>5th Electric</td>
<td>15'-4&quot;</td>
<td>46'-6&quot;</td>
</tr>
<tr>
<td>14'-2&quot;</td>
<td>Scrim Pipe</td>
<td>14'-9&quot;</td>
<td>46'-6&quot;</td>
</tr>
<tr>
<td>15'</td>
<td>Black Traveler</td>
<td>15'-6&quot;</td>
<td>46'-6&quot;</td>
</tr>
<tr>
<td>15'-6&quot;</td>
<td>5th Electric (R40 Strips)</td>
<td>15'-9&quot;</td>
<td>46'-6&quot;</td>
</tr>
</tbody>
</table>

**NOTES:**

4th electric is currently shorter than the rest....

Scrim Pipe is 1 1/4", and not for hanging lighting instruments.
LIGHTING SYSTEM

There is no Company Switch in this venue

Dimmers:
116 ETC Sensor 2.4k – dimmer per circuit
2 - 12 x 1.2kw ETC Smart pack dimming module located in the alcove SL. There are 4 - 3x circuit bundles that are movable around the theater that come from the Smart pack
3 additional ETC “Thru-Power” modules

Lighting Console:
ETC ION in booth at rear of auditorium. ION includes:
2x20 fader wing
iPad for iRFR remote

House Lights:
Lutron controller at Stage Manager’s console in Lighting/Sound Booth

Lighting Positions:
Tech Balcony:
Distance from edge of stage: 35’
Number of circuits: 32 (3 pin stage)

Over Pit Area:
Distance from edge of stage: 35’ to 2’
Height above stage level: 14’-7”
Height above pit level: 17’-1”
Number of circuits: 28* (3 pin stage)
* Circuits 77 - 88 repeat over the stage/pit. They can be hard patched to your choice via a patch bay in the Tech Balcony.

Over Stage:
6 Electrics all fed from the first Electric, Floor pockets and Over Pit Area circuits
See Linesets schedule for measurements
Number of circuits on the 1st Electric: 20 (3 pin stage)

Floor Pockets
Number of circuits: 12 (3 pin stage)

Cyc Pit
Number of circuits: 12 (3 pin stage)

Rep Lighting Inventory:

<table>
<thead>
<tr>
<th>Type</th>
<th>Number</th>
<th>Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>36° Source IV</td>
<td>26</td>
<td>575W</td>
</tr>
<tr>
<td>50° Source IV</td>
<td>54</td>
<td>575W</td>
</tr>
<tr>
<td>Altman 6” Fresnel</td>
<td>20</td>
<td>1K</td>
</tr>
<tr>
<td>Forerunner Color Scrollers</td>
<td>8</td>
<td>N/A</td>
</tr>
<tr>
<td>R40 Striplights (Cyc lights)</td>
<td>8 (4 circuit)</td>
<td>150W</td>
</tr>
</tbody>
</table>

2 - 19 degree S-4 units outfitted as follow spots on the balcony with color boomerangs and follow spot hangers.
1 - 26 degree S-4 unit with SeaChanger color changing system, I-Que intelligent mirror,

Inventory Not Hung in Rep

<table>
<thead>
<tr>
<th>Type</th>
<th>Number</th>
<th>Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>36° Source IV</td>
<td>6</td>
<td>575W</td>
</tr>
<tr>
<td>50° Source IV</td>
<td>7</td>
<td>575W</td>
</tr>
<tr>
<td>Altman 6” Fresnel</td>
<td>4</td>
<td>1K</td>
</tr>
</tbody>
</table>
SOUND SYSTEM

Default Setup for the Bentley Theater Audio is:

- iMac, with Qlab, and Presonus fire studio AD/DA interface running directly to the amps.

**Available mixing consoles include:** (confirm availability with Production Manager)

Yamaha LS9-16
- With available optical card and 2 Prersonus D8s

Mackie 1202
Mackie 24.8

Other Source Devices:
- 1 Sony MDS JB-920 mini disc recorder/player
- 1 Numark CD6020 Dual CD player (no auto stop)

Processing:
- 3 Rane GE-30 1/3 Octave Eq (House eq left, right, and center)
- 3 Rane RE 27 1/3 Octave Eq (Monitor, satellites)
- 1 Sony R7 Digital Reverb
- 1 Sony D7 Digital Delay

Digital Sound Editing:
- Powermac G5 Dual 2.5 Ghz
- Software/Applications: Nuendo, Reason, Live
- Hardware Interface: Alesis AI-3, RME 9652

Amplifiers:
- 4 Crest Audio 6001 Professional Power Amps:
  - Rear House Left and Right
  - Center House Left and Right
  - High Mid Stage Left and Right
  - Sub Woofers Stage Left and Right
- 1 DBX active crossover for subs:
  - High Mid/Sub Woofer Processor Stage Left and Right

Speakers:
- 2 JF-80 speakers with 4 more available if needed
- 2 EAW SB-250 sub woofers

Lines & Connectors:
- 1 - 12x4 snake available.
- No in house inventory but may be borrowed from Spaulding Auditorium inventory.
- Permanent house runs for speaker

Microphone Inventory:
- Approximately 70+ shared with 2 other spaces in the facility.
- **Please confirm availability with Production Manager**

Moore Theater Inventory:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Brand</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Shure</td>
<td>UR4D</td>
</tr>
<tr>
<td>18</td>
<td>Shure</td>
<td>UR1</td>
</tr>
<tr>
<td>6</td>
<td>Shure</td>
<td>UR2/Beta 87A</td>
</tr>
<tr>
<td>18</td>
<td>Sennheiser</td>
<td>MKE2 Gold Dot</td>
</tr>
</tbody>
</table>

- Dual channel wireless receivers
- Wireless body packs
- Wireless handheld microphones
- Omni lavaliere (beige cable & head)
Older wireless system possibly available:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Sennheiser</td>
<td>MKE-2 Red Dot</td>
<td>Omni lavaliere</td>
</tr>
<tr>
<td>4</td>
<td>Sennheiser</td>
<td>MKE-2</td>
<td>Omni lavaliere</td>
</tr>
</tbody>
</table>

**Spaulding Auditorium Inventory**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>ACN</td>
<td>CHI-LOL-47’s with coupled transformers (HA-FX)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>ADK</td>
<td>Zigma</td>
<td>Pre-polarized Omni Minature Condenser</td>
</tr>
<tr>
<td>3</td>
<td>AKG</td>
<td>C-414ULS</td>
<td>Condenser</td>
</tr>
<tr>
<td>2</td>
<td>AKG</td>
<td>C-568EB</td>
<td>Condenser “shotgun”</td>
</tr>
<tr>
<td>4</td>
<td>AKG</td>
<td>CHM 21</td>
<td>Cardioid</td>
</tr>
<tr>
<td>6</td>
<td>AKG</td>
<td>C-460B</td>
<td>Condenser</td>
</tr>
<tr>
<td>6</td>
<td>AKG</td>
<td>CK-61</td>
<td>Cardioid capsule</td>
</tr>
<tr>
<td>2</td>
<td>AKG</td>
<td>VR-62</td>
<td>40” angled extension tube</td>
</tr>
<tr>
<td>2</td>
<td>AKG</td>
<td>CK-62</td>
<td>Omni capsule</td>
</tr>
<tr>
<td>1</td>
<td>AKG</td>
<td>D 112</td>
<td>Dynamic Cardioid</td>
</tr>
<tr>
<td>2</td>
<td>ATM</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>BBE</td>
<td>4000</td>
<td>Planar Wave transducer</td>
</tr>
<tr>
<td>4</td>
<td>Beyer</td>
<td>M-88</td>
<td>Dynamic Hyper cardioid</td>
</tr>
<tr>
<td>2</td>
<td>Countryman</td>
<td>E-6</td>
<td>Omni Iso Max headset mic</td>
</tr>
<tr>
<td>4</td>
<td>Crown</td>
<td>PCC-160</td>
<td>Boundary mic</td>
</tr>
<tr>
<td>4</td>
<td>Crown</td>
<td>PZM-30</td>
<td>Pressure zone mic</td>
</tr>
<tr>
<td>2</td>
<td>Crown</td>
<td>SASS-P</td>
<td>Stereo PZM mic</td>
</tr>
<tr>
<td>3</td>
<td>DPA</td>
<td>4061MK</td>
<td>Pre-polarized Omni Microphone for Bass with XLR Adapter</td>
</tr>
<tr>
<td>1</td>
<td>DPA</td>
<td>d:vote 4099B</td>
<td>Microphone for Cello with XLR Adapter</td>
</tr>
<tr>
<td>1</td>
<td>DPA</td>
<td>d:vote 4099C</td>
<td>Microphone for Cello with XLR Adapter</td>
</tr>
<tr>
<td>1</td>
<td>EV</td>
<td>ND-757</td>
<td>Dynamic Super cardioid</td>
</tr>
<tr>
<td>3</td>
<td>EV</td>
<td>RE-20</td>
<td>Dynamic</td>
</tr>
<tr>
<td>2</td>
<td>RCA</td>
<td>77-DX</td>
<td>Classic ribbon</td>
</tr>
<tr>
<td>4</td>
<td>SchattenP2</td>
<td>MKE-2 Gold Dot</td>
<td>Piano pickup w/DI preamp</td>
</tr>
<tr>
<td>6</td>
<td>Sennheiser</td>
<td>MKE-2 Red Dot</td>
<td>Omni lavaliere</td>
</tr>
<tr>
<td>4</td>
<td>Sennheiser</td>
<td>MKE-2</td>
<td>Omni lavaliere</td>
</tr>
<tr>
<td>8</td>
<td>Sennheiser</td>
<td>MD-421</td>
<td>Dynamic Cardioid</td>
</tr>
<tr>
<td>5</td>
<td>Shure</td>
<td>Beta 58</td>
<td>Dynamic Super cardioid</td>
</tr>
<tr>
<td>9</td>
<td>Shure</td>
<td>SM 58</td>
<td>Dynamic</td>
</tr>
<tr>
<td>4</td>
<td>Shure</td>
<td>Beta 57</td>
<td>Dynamic Super cardioid</td>
</tr>
<tr>
<td>6</td>
<td>Shure</td>
<td>SM 57</td>
<td>Dynamic Cardioid</td>
</tr>
<tr>
<td>6</td>
<td>Shure</td>
<td>SM 81</td>
<td>Cardioid Condenser</td>
</tr>
<tr>
<td>4</td>
<td>Shure</td>
<td>Beta 87A</td>
<td>Super cardioid Condenser</td>
</tr>
<tr>
<td>4</td>
<td>Shure</td>
<td>SM 91A</td>
<td>Condenser floor mic</td>
</tr>
<tr>
<td>1</td>
<td>Shure</td>
<td>Beta 98/S</td>
<td>Super cardioid Condenser</td>
</tr>
<tr>
<td>6</td>
<td>Shure</td>
<td>SM 98A</td>
<td>Mini cardioid condenser</td>
</tr>
<tr>
<td>2</td>
<td>Shure</td>
<td>KSM 44</td>
<td>Condenser</td>
</tr>
<tr>
<td>3</td>
<td>Shure</td>
<td>UR4D</td>
<td>Dual channel wireless receivers</td>
</tr>
<tr>
<td>6</td>
<td>Shure</td>
<td>UR1</td>
<td>Wireless body packs</td>
</tr>
<tr>
<td>6</td>
<td>Shure</td>
<td>UR2/Beta 87A</td>
<td>Wireless handheld microphones</td>
</tr>
</tbody>
</table>

**DI’s**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Manufacturer</th>
<th>Model</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>3</td>
<td>Proco</td>
<td>IT-1</td>
<td>Isolation transformers</td>
</tr>
<tr>
<td>8</td>
<td>Countryman</td>
<td>Type 85</td>
<td>Active direct boxes</td>
</tr>
<tr>
<td>6</td>
<td>Radial</td>
<td>AV-2</td>
<td>Stereo DI</td>
</tr>
<tr>
<td>4</td>
<td>Whirlwind</td>
<td>Director</td>
<td>Passive direct box</td>
</tr>
</tbody>
</table>
Headset System/ Booth Monitors:
Type: 10 input, 4 channel Clear Com base station with 4 wireless belt packs (confirm availability with PM)
Base Station Location: Located at the stage manager's panel in Lighting/Sound Booth back of house.
Headset Locations: SL, SR, Tech Balcony and Lighting/Sound Booth,
Booth monitoring system consists of a mic hung over the pit area and a speaker in the booth.
Dressing Rooms, Green Room, and Scene Shop are all equipped with monitor/call boxes.
VIDEO AND PRODUCTION

Check with production manager for availability of ALL video equipment

Projectors:

Christie WU12K-M WUXGA DLP® Projector
   Lens Opt1: ILS 1.25-1.6SX+/1.16-1.49HD Zoom Lens
   Lens Opt2: ILS 0.73:1SX+/0.67:1HD Fixed Short Throw Lens
   Video Decoder Input Card,
   DMX512 Interface Card
   Ceiling Mount plate

Christie HD10k-M
   Brightness: 10000 lumen
   Resolution: HD (1080p) or SXGA+, WUXGA, or WXGA
   Lens: ILS 2.8-4.5:1 SX+/2.6-4.1:1 HD .95" (Part 118-100114-01)
   Inputs: 1x RGBHV/Component (3/4/5 BNC), 1x VGA, 1x DVI-I (HDCP compliant)

Panasonic PT-D7700U-K Projector
   Lens Opt1: ET-D75LE1 (1.5-2.0:1 zoom)
   Lens Opt2: ET-D75LE3 (3.0-5.0:1 zoom)

Panasonic PT-D3500U Projector**

Screens:
   Da-Lite Fastfold 16’ x 9’ Front projection screen with frame and skirting
   Ultimate Fastfold 10’6” x 14’ Front and Rear projection screens with frame, legs and skirting
   Ultimate Fastfold 5’ x 7’ Front and Rear projection screens with frame, legs and skirting

Control Hardware and Software:
   iMac with Q-Lab
   Mac or PC playback for PowerPoint or video available upon request**

Switcher/Scaler**
   Analog Way Pulse 300
   Inputs: 4x VGA Multiformat Analog, 2x DVI-I Multiformat Analog/Digital, 2x SD/HD-SDI
   Program Outputs: 1x VGA, 1X DVI-I (both outputs at same resolution)
   Preview Outputs: 1x VGA, 1x DVI-I (both outputs at same resolution)
   Input resolution: SDTV, EDTV, HDTV, Computer up to 2k
   Output resolution: RGBHV, HDTV up to 1080p, Computer up to 2k
   Features: Logo store, PIP, seamless transitions (fade,cut,wipe)
   Preview and Program monitors included

Other:
   300’ DVI-DVI fiberoptic extender
   1x2 DVI distribution amp
REFERENCE PICTURES

Bentley Theater Pit Area/Audience

Bentley Theater Stage above Pit Area