Technical Specifications for
THE BENTLEY THEATER

**HOPKINS CENTER FOR THE ARTS,
DARTMOUTH COLLEGE
HANOVER, NH**

Contents

CONTACT INFO

Hopkins Center

- *Production Office:*   hop.production@dartmouth.edu   (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.

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

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:

Type	Number	Wattage
36° Source IV	26	575W
50° Source IV	54	575W
Altman 6" Fresnel	20	1K
Forerunner Color Scrollers	8	N/A
R40 Striplights (Cyc lights)	8 (4 circuit)	150W

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

Type	Number	Wattage
36° Source IV	6	575W
50° Source IV	7	575W
Altman 6" Fresnel	4	1K

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 - 12x 4 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:

9	Shure	UR4D	Dual channel wireless receivers
18	Shure	UR1	Wireless body packs
6	Shure	UR2/Beta 87A	Wireless handheld microphones
18	Sennheiser	MKE2 Gold Dot	Omni lavaliere (beige cable & head)

12	Countryman	E6		Earset microphones

Older wireless system possibly available:

2	Sennheiser	MKE-2 Red Dot	Omni lavaliere
4	Sennheiser	MKE-2	Omni lavaliere

<u>Spaulding Auditorium Inventory</u>

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

DI's

8	Countryman	Type 85	Active direct boxes
3	Proco	IT-1	Isolation transformers
1	Radial	AV-2	Stereo DI
4	Whirlwind	Director	Passive direct box

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 PROJECTION

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
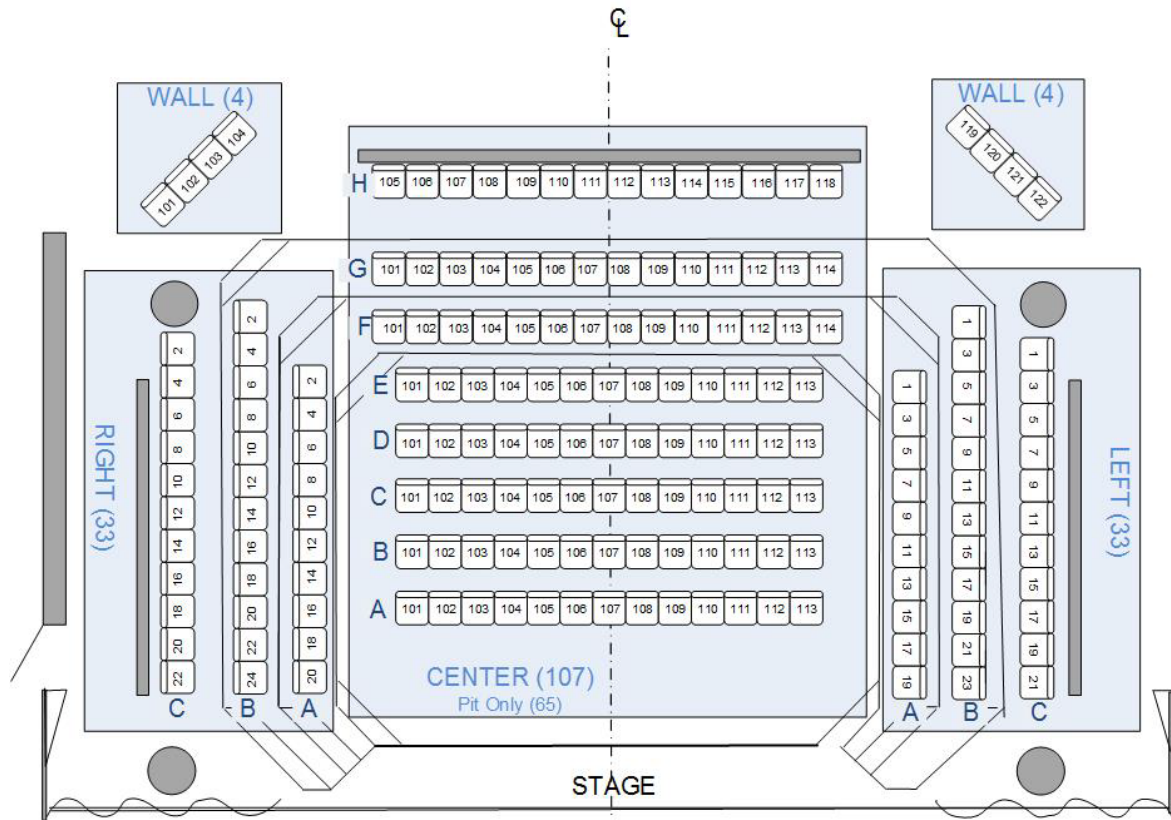 Features: Logo store, PIP, seamless transitions (fade,cut,wipe)
  Preview and Program monitors included

Other:
  300' DVI-DVI fiberoptic extender
  1x2 DVI distribution amp

SEATING LAYOUT

SEAT TOTALS	
Center	107
Right	33
Left	33
Walls	8
TOTAL	181

REFERENCE PICTURES

Bentley Theater Pit Area/Audience

Bentley Theater Stage above Pit Area