The Martha Rivers Ingram Center for the Performing Arts
Technical Specifications

Location
Vanderbilt University
Blair School of Music
2400 Blakemore Ave.
Nashville, TN 37212-3499

Contact Information for Ingram Center for the Performing Arts

Technical Director
Joseph DeBusk
e-mail: joseph.debusk@vanderbilt.edu
Phone: 322-4919
Fax: 343-0324

Booking and rental information
Same as above

Box Office
Robert Thompson
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Phone: 322-7658
Fax: 343-0324

Labor:
Non-union stagehands with trained and supervised students.

Directions
From Interstate 440, take West End exit heading east on West End Ave. Turn right on Blakemore Ave. Turn left at the third light (24th Ave.) The loading dock will be on your immediate left. Go to the four way stop. The parking entrance is to your left. If you are backing a truck into the dock, you will need to use the marked exit.
Load in

Loading dock is at the east end of the building. It is 3’-1 ½” high and 7’-0” wide. It will accommodate one tractor trailer. Load-in through 9’-5” wide by 11’-10” high double elephant doors emptying onto stage right. Equipment passes through carpentry shop to get to stage.

Storage: Trap room accessible via elevator  
Carpentry shop stage right  
Public hallway behind US wall

General Information:

Seating: 551 permanent  
58 movable pit seats  
609 total  
8 handicapped (2 with elevator access)

Stage Manager’s console is in a rolling cabinet and can be moved anywhere. It includes a video monitor, a switchable announce mic, four-channel Clear-Com remote station, and power strip.

Access to stage is from two sets of double doors (USL, USR) and two single doors (DSL, DSR) as well as one single door each side onto the calipers. Immediate access to house is through these doors.

Green Room is across a public hallway and can double as a dressing room. It includes a refrigerator, a microwave oven, coffee maker, dishwasher, couch, three makeup stations and sinks, and one commode. Immediate access to chorus dressing room.

Stage Dimensions: With orchestra shell in place:

- DS width – 61’-1”
- US width – 37’-9”
- Depth of fixed stage – 37’-9”
- Height at Plaster line – *30’-0”
- Height at Back Wall - 24’-6”
- Shell doors are just wider than a Steinway piano
- Shell Storage – Ceiling, US walls fold against US wall  
DS walls fold to become proscenium torms
Stage Dimensions (cont’d)

With Orchestra shell stored:

- Proscenium width: 40’-0”
- Proscenium height: *31’-0”
- Floor Construction: Tongue & groove pine over sprung sleepers
- Depth from plaster line: 29’-5”
- Depth of apron to plaster line: 8”-4”
- Stage height from house floor: 3’-5”
- Stage right wing space: 20’-0”
- Stage left wing space: 16’-0”
- Pit Type: Gala Spiral lift (controls SL)
- Depth of pit @ center: 12’-7”
- Depth of pit at ends: 3’-5”
- Width of pit: 51’-1 ½”

Obstructions – The upstage wall surface is the scalloped surface of the orchestra shell leaving no room for crossover between it and the cyc. The wall is also rather fragile plaster, so nothing may be attached to it. US crossover is a public hallway. There is also no grid over the SR wing area.
Fly system

Locking rail at mid-level stage left doubles as pinrail
Grid height to walking surface – 65'-0”
System type – Single purchase with motorized 1st electric and one split hempset
Pipe – 1 ½” schedule 40 black steel
Distance between pickpoints – 10'-0”
High pipe trim – 62'-0”
Low pipe trim – 4'-0”
Pipe Length – 67'-0”
Electrics high trim - 1st – 50'-0” / 2nd & 3rd – 43'-0”
Arbor capacity – 1500 lbs.
First Electric capacity – ???? lbs.

Notes:
Walking grid ends SR before the end of the battens.
If any scenic elements are hung while the orchestra shell is deployed they must clear the arc of the ceiling’s movement.
Details available on request.
A limited number of spot lines are available.

Line Schedule:

<table>
<thead>
<tr>
<th>Line #</th>
<th>Distance</th>
<th>Designation</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0'-7”</td>
<td>Main Teaser</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1'-7 ½”</td>
<td>Main Curtain</td>
<td>Guillotine or traveler</td>
</tr>
<tr>
<td>3</td>
<td>2’–10”</td>
<td>1st Legs and Border</td>
<td>You noticed; on the same pipe</td>
</tr>
<tr>
<td>A</td>
<td>3’-10”</td>
<td>Hempset for 1st Legs</td>
<td>2 – 21’ pipes, separate control</td>
</tr>
<tr>
<td>4</td>
<td>5’–3”</td>
<td>1st Electric</td>
<td>Motored. Doubles as Ceiling lift.</td>
</tr>
<tr>
<td>5</td>
<td>7’–4”</td>
<td>GP</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>8’-2”</td>
<td>2nd Black Border</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>8’–10 ½”</td>
<td>2nd Legs</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>10’-2’</td>
<td>GP</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>10’-10”</td>
<td>GP</td>
<td>Temp Border electric w/ 6 cts.</td>
</tr>
<tr>
<td>10</td>
<td>12’-2”</td>
<td>Cyc storage</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>12’-10”</td>
<td>Scrim storage</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>13’-6”</td>
<td>3rd Black Border</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>14’-2”</td>
<td>3rd Legs</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>15’-6”</td>
<td>2nd Electric</td>
<td></td>
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<tr>
<td>15</td>
<td>16’-10”</td>
<td>Full Black Traveler</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>18’-2”</td>
<td>4th Black Border</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>18’-10 ½”</td>
<td>4th Legs</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>19’-6”</td>
<td>GP</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>20’-2”</td>
<td>GP</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>22’-2”</td>
<td>3rd Electric</td>
<td>Muled upstage</td>
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<tr>
<td>21</td>
<td>25’-6”</td>
<td>GP</td>
<td>Muled upstage</td>
</tr>
<tr>
<td>22</td>
<td>26’-10”</td>
<td>GP</td>
<td>Muled upstage</td>
</tr>
</tbody>
</table>
Soft Goods:

- House Teaser (Sand color) 20’h x 65’w
- House Curtain (sand color, guillotine and travel) 30’h x 65’w
- 4 sets black velour legs 28’h x 10’w
- 4 black velour borders 8’h x 66’w
- Full stage black velour traveler 30’h x 68’w
- Black scrim 30’h x 66’w
- Cyclorama 30’h x 66’w

Dressing Rooms:

1 Chorus Dressing and one Green Room located across a public hall from the backstage wall. Chorus dressing room adjoins 1 women’s room and 1 men’s room with showers toilets and sinks. Both dressing room and Green Room are lockable.

Makeup stations – 10 in main room, 5 in women’s restroom, 4 in men’s restroom
Wardrobe racks – 3 rolling.
Available on request;
- 1 iron
- 1 ironing board
- 1 steamer
- 1 washer dryer set situated in carpentry shop
Electrics:

Power -  
1 - 200A Company switch USR with tie-in and Posi-lok single neutral.  
1 - 400A Company switch USR with tie-in and Posi-lok single neutral.  
1 – 100A Service USL with switched hots and chassis ground, neutral tail.

Houselight control at Unison 10 button panels located DSR, DSL, USR, USL, at LCD touchpanel in lightbooth or portable LCD panel at port near DSR Stage Manager’s position. Houselights are also controllable through the lighting console and programmable to the Unison system via the stage lighting console.

Control -  
ETC Express 48/96 Memory Console  
RFU for above w/ 50’ cable  
Console & RFU taps DSL, DSR, ctr. seat row #, catwalk, BOH

Dimming -  
288 available ETC Sensor 2.4k dimmers (dimmer per circuit).  
Dimmers 334 – 384 are houselights.

Circuits -  
Beam position – 40  
Bridge – 40  
Box booms (4) – 10 each 40  
1\textsuperscript{st} electric 40  
2\textsuperscript{nd} Electric 20  
3\textsuperscript{rd} Electric 40  
SL Pinrail 30 (Socapex)  
SR Mezzanine 6 (Socapex)  
DS Alcoves 12 (6 SL, 6 SR)  
US 12 (6 SL, 6 SR)  
Pit 4  
Trap room 4
### Instruments:

<table>
<thead>
<tr>
<th>ETC Source 4 bodies</th>
<th>106</th>
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<tbody>
<tr>
<td>33</td>
<td>19°</td>
</tr>
<tr>
<td>37</td>
<td>26°</td>
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<tr>
<td>43</td>
<td>36°</td>
</tr>
<tr>
<td>10</td>
<td>50°</td>
</tr>
<tr>
<td>6</td>
<td>10°</td>
</tr>
<tr>
<td>40 ETC Parnell</td>
<td></td>
</tr>
<tr>
<td>85 Aluminum PAR64</td>
<td></td>
</tr>
<tr>
<td>6 Altman 3-cell Far-cycs hanging</td>
<td></td>
</tr>
<tr>
<td>9 Altman 3-cell Far-cycs floor mount</td>
<td></td>
</tr>
</tbody>
</table>

### Cable:

<table>
<thead>
<tr>
<th>Stage Pin</th>
<th>8 50'</th>
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<tbody>
<tr>
<td>13</td>
<td>25'</td>
</tr>
<tr>
<td>34</td>
<td>10'</td>
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<tr>
<td>22</td>
<td>5'</td>
</tr>
<tr>
<td>17</td>
<td>Twofers</td>
</tr>
<tr>
<td>Edison &gt; Stage pin</td>
<td>5</td>
</tr>
<tr>
<td>Stage pin &gt; Edison</td>
<td>4</td>
</tr>
<tr>
<td>Socapex (11 mil)</td>
<td>8 100'</td>
</tr>
<tr>
<td>1</td>
<td>50'</td>
</tr>
<tr>
<td>8</td>
<td>Fan outs</td>
</tr>
<tr>
<td>2</td>
<td>Fan ins</td>
</tr>
<tr>
<td>AC (Edison 12/3.)</td>
<td>2 50'</td>
</tr>
<tr>
<td>3</td>
<td>25'</td>
</tr>
<tr>
<td>4</td>
<td>Quad Breakout</td>
</tr>
</tbody>
</table>

### Accessories:

| Parnell Barn Doors | 20 |
| Floor Bases       | 8  |
| Boom stands (1 ½” sch. 40) | 4 18” square |
| 2                  | 50 lb. round |
| 20 Side Arms       |     |
| 8                  | 10’ Dance booms |
| 8                  | 10’ Dance boom extensions |
| 8                  | Shell ceiling hangers |
| 4                  | Shell wall hangers |
**Video & Projection**

The video system is patchable in the booth through two Videotek six way distribution amps, with lines run throughout the new end of the building and Turner Recital Hall.

1. 9’ x 12’ Dalite front and rear projection screen
2. 6’ x 9’ Dalite front projection screen
3. NEC GT1150 LCD projector w/ 1 mid-zoom, 1 long-zoom lens
4. NEC MT1020 LCD projector
5. Kodak Ektagraphic III 35 mm slide projector
6. JVC HR-A591U VCR
7. Panasonic DVD burner / Player
8. Phillips DVP320 DVD player
9. Panasonic MiniDV cameras
10. Sony Hi8 HandyCam
11. 2 Canon LCD cameras permanently mounted in each hall for stage monitors
12. 2 Video monitors (1 - 27”, 1 – 13”, 1 - 9”)

**Cable**

Coax (BNC):
- 100’ 2
- 50’ 2
- 10’ 3

RGB (9-pin Dsub):
- 50’ 1
- 5’ 1

**Assorted Adapters**
Audio

Distributed speaker system (left, center, right), with BOH delays, powered by 3 - QSC CX702 and 3 – CX902 mains amps in booth. Main mix is patchable and run through a Sabine FBX1020 Feedback Eliminator and Soundweb. Lobby feed and backstage feed are two separate systems, controlled from the booth. There is an auxiliary snake input at center BOH (20 input, 4 output) wired to the Booth patch bay and 2 – 4” BOH to Stage Snake pipes run under the house. Acoustical curtains (3 over the house, 1 on BOH wall) are motor controlled from DSR.

Booth: Soundcraft Series Two - 42 input channels, 8 groups, 4 aux sends, 4 matrixes, 1 stereo out, 1 mono out. Phantom power is available on all channels.

Input channels are distributed throughout and patchable.

Two dry lines are run to and two from Turner Recital Hall

Six dry lines on bridge and twelve from SL are run to Recording room in basement

Patchable Equipment in booth:

QSC amprack in booth with patchable Speakon sends throughout hall:

1 QSC CX1102
1 QSC CX302
1 QSC CX902
1 Tascam CD305 CD changer
1 Tascam122 Mk III cassette deck
2 Samson Synth Series Six 2 channel Wireless Mic receivers
2 Sabine FBX1020 feedback eliminators
4 Rane DC24 controllers
2 Rane AC22 Active Crossover
1 Rane RPE 228d Programmable EQ

Auxiliary gear:

1 Allen & Heath 16/2 console, 6 aux, L/R mains
1 Aux. amprack with:
   DBX 2231 graphic EQ
   JBL N552 crossover
   QSC Powerlight 1.4 1400w amp
   QSC Powerlight 2 2000w amp
2 Behringer DSP 2024D Virtualizer processors

4 JBL S212-A monitor wedges
2 JBL S125S Sub wedges
6 EV Sx100+ speakers w/ 2 tripod stands
2 EV Sb121
2 Klipsch LSBR LaScala Speakers
Recording:

Recording Room in basement accessible by stairs or elevator

2 Tascam DA88 ADAT (Hi-8)
2 Allessis Masterlink hard drive recorder (1 in IH, 1 available on request, dependent on schedule).
1 LaylaG3 & Macintosh G4 Computer (Available on request, dependent on schedule)
1 HHB CDR / RW recorder
2 Tascam 112 MkIII Cassette decks (Booth, Recording Room)
1 M-Audio Firewire 410 A/D converter
1 Tascam cassette deck
1 Fostex DAT
1 Tascam PortaDAT
## Microphone Inventory

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Manufacturer</th>
<th>Model</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Small Diaphragm Condensers:</strong></td>
</tr>
<tr>
<td>2</td>
<td>AKG</td>
<td>SE300B bodies</td>
</tr>
<tr>
<td>2</td>
<td>AKG</td>
<td>CK92 omni capsules</td>
</tr>
<tr>
<td>2</td>
<td>AKG</td>
<td>CK91 cardioid capsules</td>
</tr>
<tr>
<td>2</td>
<td>B&amp;K</td>
<td>4011 fixed cardioid</td>
</tr>
<tr>
<td>2</td>
<td>B&amp;K</td>
<td>4007 fixed omni</td>
</tr>
<tr>
<td>2</td>
<td>AKG</td>
<td>C460B bodies</td>
</tr>
<tr>
<td>2</td>
<td>AKG</td>
<td>CK61-ULS cardioid capsules</td>
</tr>
<tr>
<td>14</td>
<td>Schoeps</td>
<td>CMC6—U bodies</td>
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<tr>
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<td>Schoeps</td>
<td>MK8 figure eight capsules</td>
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<tr>
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<td>Schoeps</td>
<td>MK4 cardioid capsules</td>
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<tr>
<td>2</td>
<td>Schoeps</td>
<td>MK25 omni capsules</td>
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<tr>
<td>2</td>
<td>Schoeps</td>
<td>MK21H wide sub-cardioid capsules</td>
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<tr>
<td>1</td>
<td>Schoeps</td>
<td>BLM3 PZM capsule</td>
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<tr>
<td>1</td>
<td>Neumann</td>
<td>KFM100 Stereo Sphere</td>
</tr>
<tr>
<td>1</td>
<td>Crown</td>
<td>PZM-30GPB</td>
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<tr>
<td>1</td>
<td>Realistic</td>
<td>Stereo Electret Microphone</td>
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<tr>
<td></td>
<td></td>
<td><strong>Large Diaphragm Condensers:</strong></td>
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<tr>
<td>2</td>
<td>AKG</td>
<td>C414B-ULS (multi-pattern)</td>
</tr>
<tr>
<td>1</td>
<td>Audio Technica</td>
<td>AT4050/CM5 (multi pattern)</td>
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<tr>
<td>2</td>
<td>CAD</td>
<td>M9 (tube powered, cardioid)</td>
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<td></td>
<td><strong>Large Diaphragm Dynamic:</strong></td>
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<tr>
<td>2</td>
<td>Shure</td>
<td>SM58 cardioid</td>
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<tr>
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<td>Shure</td>
<td>SM Beta58a cardioid</td>
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<td>Shure</td>
<td>SM58s (switched) cardioid</td>
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<td>Shure</td>
<td>SM57 cardioid</td>
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<td>Realistic</td>
<td>Highball cardioid</td>
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<td>Audio Technica</td>
<td>Pro 2ax cardioid</td>
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<td>1</td>
<td>Audix</td>
<td>OM 3xb cardioid</td>
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<tr>
<td></td>
<td></td>
<td><strong>Wireless Units:</strong></td>
</tr>
<tr>
<td>4</td>
<td>Samson</td>
<td>UT6 wireless lavalier transmitter</td>
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<tr>
<td>4</td>
<td>Sennheiser</td>
<td>MKE 2-3 wireless lavaliere microphone</td>
</tr>
<tr>
<td>4</td>
<td>Samson</td>
<td>CCRUH6 handheld wireless microphone</td>
</tr>
</tbody>
</table>

Receivers for all above are rack-mounted in IH Booth, antennas mounted above booth.

4 Audio-Technica ATW1453 Handheld & Lav System (portable).
1 Shure Beta 58
Mic Stands:

- Round Desktop 5
- Round Straight 3
- Tripod boom 12
- Tripod boom (short) 1
- Tripod Straight 1
- Bogen High boom 4

Cabling:

3-pin XLR:
- 100’ 6
- 50’ 5
- 25’ 11
- 10’ 1
- Assorted adapters

5-pin XLR (stereo)
- 50’ 11
- 25’ 12
- Splitters 2

Speakon:
- 100’ 2
- 50’ 1
- 25’ 16
- 15’ 5

Communications:

- Four channel Clear-com main station in audio booth.
- Four channel remote Station at Stage Mgr’s console
- 10 belt packs
- 12 headsets
- 18 - 25’ 3-pin XLR cables
- Outlets throughout building
- Single channel (ch. 2) wall panels in dressing rooms and all support areas
- Single channel Telex wireless tied into system
## Props & Scenics

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Black Rosco dance floor available on request</td>
</tr>
<tr>
<td>6</td>
<td>2’-6” x 6’ catering tables</td>
</tr>
<tr>
<td>10</td>
<td>10’ x 1” Bottom pipes</td>
</tr>
</tbody>
</table>

**Concert equipment:**

- 70 Grey Wenger orchestral chairs
- 9 Grey Wenger cello chairs
- 70 Black Wenger orchestral chairs
- 9 Black Wenger cello chairs
- 100 Wenger music stands
- 40 Standlights
- 6 Zipchord standlight stringers
- 1 Wenger Lexan top conductor’s stand
- 6 Conductor’s podiums at differing heights
- 3 9’ Steinway grand pianos (1 in IH, 2 in Turner Hall, available on request dependent on scheduling)
- 12 4’w x 8’h Sound baffles
- 2 Lecterns

## Rehearsal Hall

There is available, dependent on scheduling, a rehearsal hall across the hallway from the upstage wall. There are 4 mic lines, 4 video lines, and 2 com lines connecting it to the Ingram Hall audio booth and patchable there to and from other parts of the building. There is a rolling recording rack with a Mackie 1202 mixer, a CD player, a Tascam 112 MkIII cassette deck and a QSC CX702 power amp. Two EV Sx100+ speakers are available and two are permanently hung.

## Shop

Adjoining the stage is a full, but small, shop with full woodworking and steel cutting and welding capabilities. Usage of the shop is available with staff supervision.

## Costume Shop

A limited costume shop is available for use with staff supervision.