Technical Specifications 2020
Contact Information

Administrative Office
Mailing Address:
1501 Goldstein Circle
McCain Auditorium Room 207
Manhattan, KS 66506-4711
Phone: 785.532.6425
Fax: 785.532.5870

Todd Holmberg  
Executive Director  
Phone: 785.532.6425  
trholm@k-state.edu

Terri Lee  
Associate Director  
Phone: 785.532.6425  
tlee@k-state.edu

Kathy LeValley  
Administrative Support  
Phone: 785.532.6425  
klevalley@ksu.edu

Stefani Schrader  
Ticket Services Manager  
Phone: 785.532.6428  
sschrader@ksu.edu

Marketing
Todd Holmberg  
Mailing Address:
1501 Goldstein Circle
McCain Auditorium Room 207
Manhattan, KS 66506-4711
Phone: 785.532.6425
Fax: 785.532.5870
trholm@k-state.edu

Box Office
Stefani Schrader  
Mailing Address:
1501 Goldstein Circle
McCain Auditorium Room 207
Manhattan, KS 66506-4711
Phone: 785.532.6428
Fax: 785.532.5870
sschrader@ksu.edu

Production Office
Mailing and Physical Address:
1501 Goldstein Circle
McCain Auditorium Room 213
Manhattan, KS 66506-4711
Phone: 785.532.6427
Fax: 785.532.5870

Kyle McGuffin  
Technical Director  
Office: 785.532.6427  
Cell: 785.410.1245  
kmcguff@k-state.edu
McCain Location

GPS Coordinates: 39.187412, -96.579804
39°11'14.7"N 96°34'47.3"W

To access McCain Auditorium on the Kansas State University Campus, from Anderson Ave, turn North on Mid-Campus Drive, it will turn right into Vattier St. From there, turn right onto Goldstein Circle then turn right around the building. Pull forward down the hill and then back up into the loading dock.

To leave, pull forward down the hill in the fire lane. Turn Right on Vattier Street, then turn right on N. Manhattan Ave.
Loading Dock Access

When you are on Goldstein circle, turn right and around McCain, going down the hill.

From here, keep bearing left, going slightly down the hill. The loading dock will end up behind you.

This is the loading dock, back up to here.

**PLEASE REMEMBER!**
Shut off all engines and generators when parked in the loading dock as this is where the fresh air intake vents are located for the entire building. If you need to run your generator, please park in the bus cut out on the south side of Vattier street between the entrance and exit to Goldstein Circle. If there are parking meters in Goldstein Circle with black “Reserved” signs, you may also park there to run generators.
Arrival Information

Parking
Loading dock is capable of accepting up to (3) 53’ tractor trailers or vehicles. Parking for additional vehicles will be advanced by the technical staff on a show to show basis.

Shore Power
(1) 50 Amp service located on face of dock near loading door.

Air intake for the building is located at the loading dock. All engines (including generators) must be shut off once vehicles are in position.

NO EXCEPTIONS!
Thank you in advance for your cooperation!

If you need to run your generator, please park in the bus cut out on the south side of Vattier street between the entrance and exit to Goldstein Circle. If there are parking meters in Goldstein Circle with black “Reserved” signs, you may also park there to run generators.

Stage Door
The loading dock is located on the northeast side of McCain Auditorium. To enter the theatre via the stage door, please enter the glass doors on the loading dock. Go through the double wooden doors just to the right. Then go through either the single door straight ahead marked “Stage” or the large double loading doors on the left.

If you enter McCain via the north lobby doors that face Goldstein Circle, the production office Room 213 is located immediately to your right. This is where the technical staff are located. To get to the stage from the north entrance, turn left inside the doors, go all the way down the stairs in the North Gallery, through the door marked “Stage and Greenroom” and straight on through the next door marked “Stage”.

Loading Information
Loading Dock: 36’ wide x 10’ deep x 3’ high
Loading Dock Doors: 8’ wide x 10’ high
Interior Doors (2 Sets): 9’-11” wide x 9’-11” high
Dock Plate Available.
The parking space nearest to the building will be able to unload directly into the loading door. If parking in the two farther spaces, objects will need to be turned 90 degrees on the 10’ wide dock and then make another 90 degree turn to enter the building.
Only shaded areas are available for exclusive McCain Auditorium usage.

Red shading is dressing rooms, yellow shading is the Green Room and is often used as a wardrobe work room or production offices. Green shading is McCain’s trap room and could potentially be available as additional storage or dressing room space. All hallways are publicly accessible.
**General Info**

### Orchestral Level

**Seating Capacity**

<table>
<thead>
<tr>
<th>Without Chair wagon</th>
<th>With Chair wagon</th>
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<tbody>
<tr>
<td>910</td>
<td>955</td>
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</table>

**Balcony**

Mezzanine.................402
Upper Balcony............394

**Grand Total**

Without Chair wagon........1706
With Chair wagon...........1751

Note: Orchestra seating figure includes six positions for wheel-chairs. There are no seats in these positions. There are 45 chairs on a wagon for additional seating on the orchestra lift.

**Orchestra Lift**

As an orchestra pit, the lift will accommodate 50 musicians.

Dimensions...............................12’ x 50’
Lift depth at seating level........3’ - 6”
Lift depth at orchestra level........8’
Lift depth at basement level......14’

**Stage**

Proscenium with a semi-thrust orchestra pit.
Proscenium Height..............21’ -6”
Proscenium Width................60’
Stage Depth (from plaster line)......34’ - 6”
Apron Depth to plaster line at C...4’-9”
Apron depth to plaster line at sides..10’-9”
Edge of lift to booths.............65’

**Backstage**

SL wall to SR Wall...............130’
Offstage right to Wall..............35’
Offstage left to Wall..............35’
Curtain line to edge of stage.....5’ - 6”
Curtain line to edge of lift.......17’ - 6”
Stage floor to grid................66’
Stage Floor to fly rail floor.....22’
Distance of last line set to back wall is 2’ of usable space. The back wall is a permanently mounted orchestra shell ceiling that does not interfere with the dimensions given above.

**Orchestra Shell**

Custom orchestra shell is available for use. Ceiling and walls are hard shell. When stored, the Orchestra Shell consumes no stage space. When the shell is in play, NO OVERHEAD LINESETS ARE AVAILABLE.

**Shell Dimensions**

Front: 60’ Wide
Rear: 32’ Wide
Depth: 36’ From Plaster Line

**Dance Floor**

Eight sections 5’ x 70’ of Rosco Adagio vinyl floor. Total thick-ness is 1/8”. Because of the length of the strips, the floor must be laid out across the stage. It can be used in depths of 20’, 25’, 30’, or 35’. ROSIN IS PROHIBITED.

**Crew**

McCain Auditorium is a non-union house. The production crew is comprised of students. The technical staff have trained these students. Because they must attend classes, they may not be able to work full shifts or runs. Do not worry as schedules are set well in advance, and we will cover the position. We must insist on having appropriate meal breaks.

**Smoking**

K-State is a smoke-free campus. The smoking of cigarettes, cigars, pipes or burning tobacco in any other form or device, as well as the use of electronic cigarettes, vaporizers, hookah or other water pipe devices and all other related devices, is prohibited in university owned vehicles and on university property, except inside personal vehicles. University property includes: inside buildings and structures, outdoors, and within state-owned vehicles.

**Wardrobe**

Irons, ironing boards, and a steamer are on site. There are no laundry facilities on site. There is a coin operated laundromat (Suds Y’r Duds) located across Anderson Ave. from the auditorium.

**Dressing Rooms**

2 Star dressing rooms with private bathrooms, holding up to 3 people each. Variable layouts and furnishings. Comfy chairs, sofa, 4’ or 6’ tables, lighted vanity mirrors, padded orchestra chairs, full length mirrors, and 6’ costume rails are available. Wired internet connections and Ethernet cable provided. Located on the SR side of the stage.

1 Women’s Principle dressing room holding up to 9 people. Private shower and toilet. Located one floor down on SR.

1 Men’s Principle dressing room holding up to 9 people. Private shower and toilet. Located one floor down on SL.

1 Women’s Chorus dressing room holding up to 19 people. Located one floor down on SR. Private shower, access to toilets

1 Men’s Chorus dressing room holding up to 19 people. Located one floor down on SR. Private shower, access to toilets

**Concert Equipment**

(80) Manhasset Music Stands
(110) Black padded Wenger chairs
(1) 2-step conductor podium with handrail on one top edge
(16) 4’ x 8’ Wenger platforms with 8”, 16” or 24” legs
(16) toe rails and necessary mounting hardware
(8) 8’ long x 4’ high hand/safety rails
(2) 2-step access stairs with handrail

NO small orchestral acoustic shields
McCain Auditorium Stage From House Center

Orchestra Shell

Orchestra pit/ Lift/ Extra 2 rows of seating

←LOADING DOCK

COMPANY SWITCH→
Sound System

House sound is mixed from a position at the rear of the orchestra seating near the center. Platform area is approximately 7’d x 12’w and level with the back row of seating. Access is via seating rows with 23” width clearance at narrowest points. There are also 3 steps from FOH lobby level: 2@ 6” at the end of the row 1@10” at the mix platform.

Audio Power
Located Stage Left. Isolated ground. See Company Switch section under lighting system for further details.

Console
Yamaha M7CL

Main System
D&B "Y" Series Array consisting of (4) Yi8 and (6)Yi12 boxes per side powered by (4) D30 amplifiers.
D&B "J" Series Subwoofers, 2 per side on floor powered by (2) D30 amplifiers

Front Fills
(4) Bag End TA6002-R Low Profile Speakers
(1) QSC Amplifier

Monitor Speakers
(6) JBL Monitors PR615M (Self Powered)

Microphone Lines
24 Stage to sound booth hard wired from stage
24x8 — Snake from deck to sound area
12x4—100’ Snake

Connecting to the system
• Inputs for Right, Left and Sub at stage right and at sound area for control
• Tie-ins at stage right and booth. (1) Send and (1) Return
• Cat 6 tie-in at stage right and the sound area

CD Players
Tascam CD-01U
Marantz CDR 631 Recorder

DI Boxes
(5) IMP 2
(2) PCDI Stereo
(1) Active DI

Piano
(1) 9’ Steinway Concert Grand Piano w/ Adjustable Bench

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<th>Quantity</th>
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<td>Shure SM-57</td>
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<td>EV RE-655</td>
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<td>Shure SM-91</td>
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<td>Shure ULXP4D-J1 Receivers</td>
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<td>Shure ULS2/Beta 58 Handheld Transmitter</td>
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<td>Countryman E6 Elements</td>
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<td>Shure VHF Wireless Handheld</td>
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<td>Sennheiser e835 Wireless handheld</td>
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<td>Shure C451B Condenser Mics</td>
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<td>Audio Technica Drum Mic Kit (3 Mics)</td>
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<tr>
<td>Shure KSM 109</td>
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<tr>
<td>Shure UHR Wireless Handheld/lapel</td>
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</table>

Intercom
Wired Clear Com boxes and headsets, Single Channel Only. Inter-com positions are located at:
• Light booth
• Sound booth
• Followspot positions
• Stage Right and Stage Left
• Fly Rail Stage Right
• Pin Rail Stage Left

Lobby/ Page System
The lobby/page system can be used for program announcements, audience retrieval, and pre-show music.

Program Monitor/Paging System
Built in speakers in all dressing rooms, green room, light booth, box office, usher’s room, and the director’s office. All locations have individual volume control. Program material is fed from permanently mounted microphones attached to the ceiling. Program material may also be inserted from the sound booth.
Lighting System

Company Switch
All company switch connections are camlock. Turnarounds for ground & neutral pin available
(3) 120/208 VAC, 3-Phase, 400 amps per leg. 2 positions shared ground, 1 position isolated ground for audio.
(1) 120/208 VAC, 3-Phase, 100 Amps per leg. Isolated ground.

Console
ETC ion
Wireless RFU using ETC IPad app
(4) ETC Net3 Two-Port Gateway with ETC network points SR, SL, pin rail, fly rail, FOH positions, FOH booth
(2) ETC Net3 Four-port Gateways

Dimming
(366) ETC Sensor 3 dimmers (includes house lights)
(10) of which are ThruPower (can be non-dim)

Lighting Positions
NO BALCONY RAIL

House is wired with 3-pin stage plugs. Adapters are available; please see inventory. Some Edison circuits exist throughout all lighting positions.

Lighting Instrumentation

| Source 4 Bodies (HPL 575W) | 125 |
| Source 4—10° Barrels       | 10  |
| Source 4—19° Barrels       | 46  |
| Source 4—26° Barrels       | 40  |
| Source 4—36° Barrels       | 40  |
| Source 4 — 50° Barrels     | 10  |
| Source 4 Par Bodies (HPL 575 W) | 65 |
| Source 4 VNSP lenses       | 66  |
| Source 4 NSP lenses        | 63  |
| Source 4 MFL lenses        | 73  |
| Source 4 WFL lenses        | 68  |
| Source 4 XWFL lenses       | 30  |
| ETC ColorSource Pars DB W/ various lenses | 12 |
| Par 16 “Birdies”           | 4   |
| Altman MR-16 Zip Strip (3-Circuit EYC 75w) | 8  |
| Altman Sky Cyc (3-Cell FFT 1000w) | 16 |

Additional Strand Leko Lite units available for large plots

Lighting Accessories

- (8) Boom Base
- (8) 16’ Boom pipe
- (16) 7.5” Source 4 Barn Door
- (16) Source 4 top hat
- (11) Source 4 Iris
- (30) Source 4 Template Holder (Size B)
- (25) Source 4 Template Holder (Size A)
- (10) Scenery Bumpers
- Gel frames for all lighting units
- Large selection of Rosco and Lee gel in all sizes

Misc. Lighting Equipment

- (16) Female twist to male stage pin adapters
- (13) Female Edison to male stage pin adapters
- (2) Female stage pin to male Edison adapters

Followspots
(3) Lycian 1290 XLT 110’ Throw, 2Kw lamp.
Located at Left, Right, and Center at rear of balcony seating

Projection
- 30’ x 70’ front or rear projection screen (White)
- Christie HD 14K-M projector with ILS 0.73:1SX +/0.67:1 HD Lens. Includes hanging mount
- Eiki X71 Boardroom projector and hanging mount
- 4:3 ratio 12’x9’ rear or front projection screen (white) (Can be hung or freestanding)

Genie Lift/Ladders
- (1) Genie Lift with 4 outriggers; extends up to 36’
- (1) 6’ A-frame ladder
- (2) 8’ A-Frame ladder
- (1) 14’ A-frame ladder
Rigging

Rigging System
Double Purchase Counterweight system.
10’ T-Bar Arbors
1900 lbs. Arbor Capacity (950 lbs. on pipe)
Operating Rail is 22’ above Stage Right
Wired Clear Com Available on fly rail

Rigging Pipe
33 @ 3” Schedule 80 Pipe (3’-0” Length)

Counterweight
469 Full Bricks (Apx. 47 lb. each) Total: 21,105 lbs.
160 Half Bricks (Apx. 25 lb. each) Total: 4,000 lbs.
Total Available Counterweight: 25,105 lbs.

Battens

5/7 Line System
Battens are 56’, 63’, or 70’ long depending on position.
Battens are 1 1/2” trade size schedule 40 black iron pipe.
Generally on 8” centers

Line sets
Total Number of Line sets: 45
Available for Use: 43
Grid height: 66’

Immovable Line sets
#1: Guillotine Main Drape
#2: Traveler Main Drape

Soft Goods
Main Drapes (Red Velour, sewn with 50% fullness)
   Guillotine Main Drape with center split
      (Permanently on #1)
   Grand Legs (Permanently on #2)
      Minimum opening width 32’
      Maximum opening width 60’
Legs (Black Velour, sewn flat)
   5 @ Sets (10 Panels)
      18’ Wide x 27’ High
Borders (Black Velour, sewn flat)
   5 @ 80’ Wide x 12’ High
Full Stage Black (Black Velour, sewn flat)
   1 @ 70’ Wide x 30’ Tall
Bi-part Blackout (Black Velour, sewn flat)
   2 @ 40’ Wide x 30’ High
Cyclorama (Light Blue Seamless)
   1 @ 70’ Wide x 30’ High
Gerriets Opera creamy white front and rear projection
   screen. 65’ Wide x 30’ High

Note: Fullness may be tied in. All soft goods are removable except the main drapes. They will remain on line sets 1 & 2.

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<th>No.</th>
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<th>Length</th>
<th>Description (House Hang)</th>
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