

# ZOELLNER

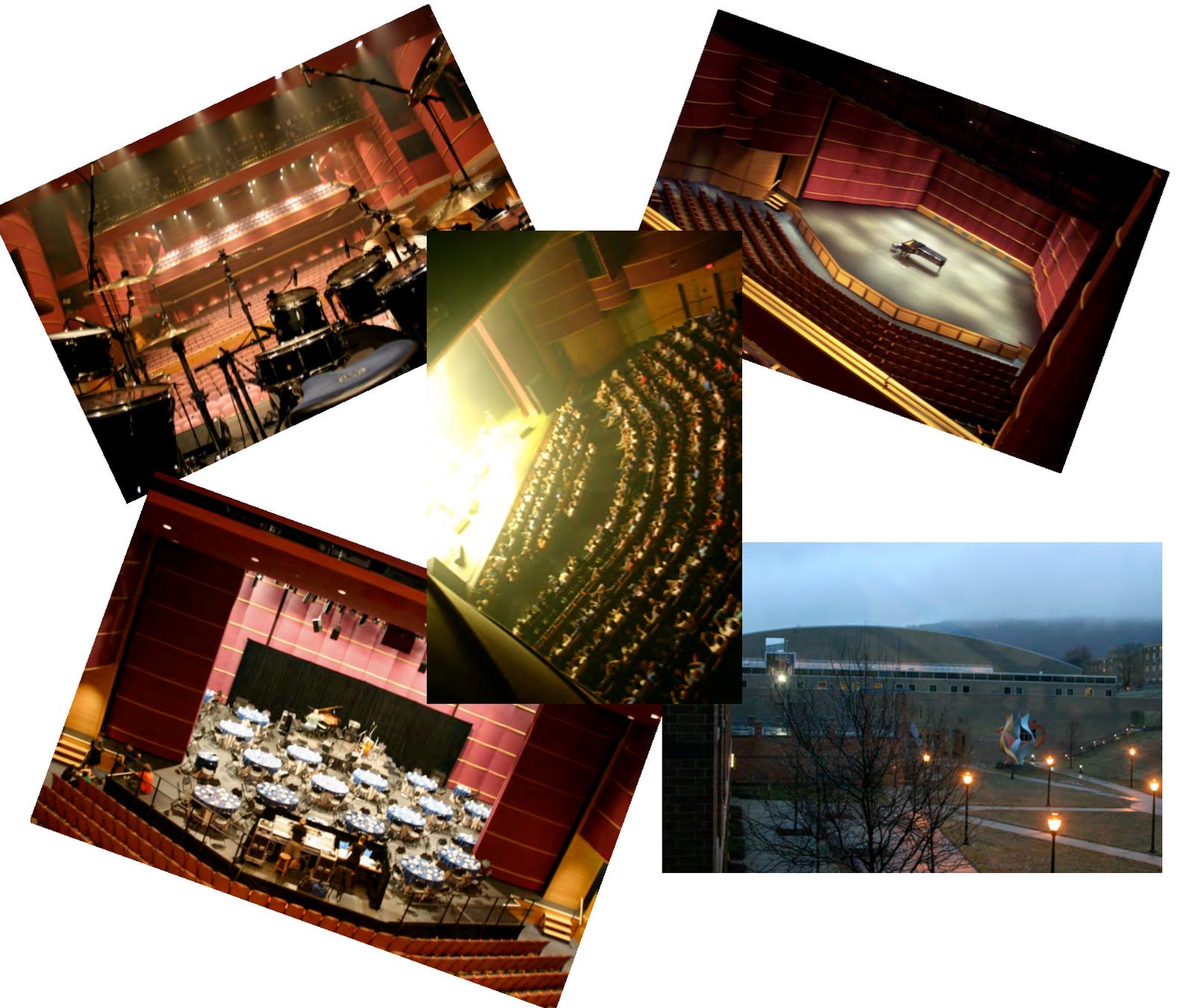


ARTS CENTER • LEHIGH UNIVERSITY

420 East Packer Avenue, Bethlehem, PA 18015-3179

## Baker Hall

### Technical Information Package



**Facility Description: Zoellner Arts Center, a division of Lehigh University’s College of Arts and Sciences, is a 26-year-old arts center housing four resident departments: Lehigh University Art Galleries, the Departments of Music and Theatre, and Administration. All building resources are shared among these four departments. There are three performance spaces: Baker Hall, a 940 seat multi-purpose stage; Diamond Theatre, a 3/4 thrust stage seating 307; and the Fowler Black Box Theatre, a small multi-configuration space.**

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## 1. Contacts Info:

Position	Name	Email	Office Phone
Executive Director	Mark F. Wilson	mawa20@lehigh.edu	610-758-5323
Artistic & Admin. Coordinator	Isabele Barone	imb221@lehigh.edu	610-758-5356
Production Manager	Joshua Kovar	jok7@lehigh.edu	610-758-5894
Assistant Production Manager	R. Elizabeth Miller	rema@lehigh.edu	610-758-5653
Assistant Production Manager	Kyle Rudgers	kdr222@lehigh.edu	610-758-5634
Lighting Coordinator	Justin Burns	jeb719@lehigh.edu	610-758-5444
Video Coordinator	Andrew Collings	ajc521@lehigh.edu	610-758-5644
Audio Coordinator	Phil Ingle	phi214@lehigh.edu	610-758-5871
Stage & Events Coordinator	Heather Hacker	hah219@lehigh.edu	610-758-5367
Hospitality	Jennifer Mack	jem3@lehigh.edu	610-758-5654
Rentals & Scheduling Manager	Becky Eshelman	ree2@lehigh.edu	610-758-5387
Director of Audience Services	Sandy Anderson	saba@lehigh.edu	610-758-6641

## 2. Seating: Seating is continental divided into 3 sections.

- a. Capacity can be 283/934/1002.
  - i. orchestra, 283
  - ii. grand tier, 473
  - iii. balcony, 178
  - iv. orchestra lift, 68
  - v. Handicapped seating is located at the back of the orchestra and grand tier.

## 3. Stage: The stage can be set in either theatre mode or shell mode.

- a. In theatre mode the proscenium opening is 37'-6" w x 25'-3" h.
- b. In concert shell the proscenium opening is 58'-0" w x 25'-3" h.
- c. Stage depth from the plaster line is 31'-6".
- d. With the orchestra pit lowered the forestage depth from plaster line is 4'-9".
- e. With the orchestra pit raised the forestage depth from plaster line is 17'-6"
- f. Centerline to stage left wall is 65'-0"
  - i. A portion of the stage left wing is used for storage and office space.
- g. Centerline to stage right wall is 36'-0"
  - i. Usable wing space is approximately 17'.
- h. Rough square footage of stage plus wing space is 3300 square feet.
- i. Audience floor to stage floor is 2'-7".
- j. Orchestra pit @ pit level to stage floor is 8'-3".
- k. Stage floor to overhead catwalks is 57'-0". **THERE IS NO GRIDIRON!**
- l. Plaster line to furthestmost upstage line-set is 29'-0".

## 4. Stage Floor: White oak tongue and groove, stained black and sprung on neoprene sleepers.

- a. A gray/ black Harlequin dance floor is available. Rosin may be used.
- b. There are no traps in the floor.
- c. Lagging into floor is allowed.

- 5. Fly System:** Single purchase, operated from stage right mid rail, 27' above stage.
- a. Stage floor to loading floor is 45'-0".
  - b. There are 36 line-sets including the motorized main curtain and first electric.
  - c. Line-sets are rated for 1200 lbs.
  - d. High trim is 55'-0".
    - i. Line-set 5 trims at 44'-0".
    - ii. Line-set 27 trims at 42'-0".
    - iii. There are three orchestra shell ceilings on line-sets 3, 21 & 32. They trim @ 33'-0" when stored.
  - e. Low trim is 4'-0".
  - f. Batten length is 56"-0"
    - i. Line-sets 5 & 27 are 47'-0' long.
      1. Batten spacing varies. Please see line-set schedule.
  - g. Battens behind orchestra shell walls don't fly past shell rigging easily.
- 6. Rigging: THERE IS NO GRIDIRON!**
- a. Stage floor to catwalk floors is 57'-0".
  - b. Stage Floor to roof steel is 62'-0".
  - c. Sheaves are hung above catwalks.
  - d. Not all I-beams that sheaves are mounted on are accessible from catwalks.
- 7. Masking:** All soft goods are IFR rated.
- a. The main curtain & grand teaser are made of a red heavy weight velour with fullness.
    - i. The main curtain guillotines or travels, operated from stage right.
  - b. There are two full stage black traveler curtains. Both with fullness. 56'-0" x 24'-0".
    - i. They are operated from stage right.
  - c. There is 1 white leno-filled scrim, 56'-0" x 30'-0".
  - d. There is 1 rp screen, 56'-0" x 30'-0".
  - e. There is 1 black scrim, 56'-0" x 30'-0".
  - f. There are 5 sets of black legs, 12'-0" x 24'-0". 0% fullness.
  - g. There are 5 black borders, 56'-0" x 10'-0". 0% fullness.
- 8. Lighting Control:**
- a. Control is an ETC Ion or Gio running EOS software version v3.x.x.
    - i. The Ion is located backstage left at extreme house right, 39' from stage and 15' above the audience.
    - ii. The Gio is located in the house right audience crossover.
  - b. House/work light control by ETC Paradigm system (control located in booth, backstage, or FOH. and via iPad or console.
  - c. Networking: ETC Net3 connections are located in multiple locations, with ETC Net3 Gateways available for input or output.
  - d. Dimmers are dimmer per circuit.
    - i. 288 2.4k ETC Sensor 3.
- 9. Lighting Inventory:** Baker Hall and Zoellner Arts Center rely on a shared inventory, and as such, all items are subject to availability.
- a. Current inventory is located on page 14.
  - b. Please ask the lighting coordinator for the most up-to-date inventory.

## 10. Lighting Positions:

- a. #1 electric, line-set #5, is a motorized bridge with 40 circuits, It is 46'-8" long.
- b. #2 Electric, line-set #27 with 32 circuits. It is 46'-8" long.
- c. Other electrics can be added as needed.
- d. There are 40 circuits available in 4 circuit drop boxes.
- e. There are 78 other circuits located throughout the theatre.
- f. There is a truss located directly downstage of the architectural shell ceiling with 5 High End Sola-Frame Theatre moving lights and an Epson Pro L1505UNL video projector.
- g. There is 1 FOH catwalk with 48 circuits. Standard position is 32' off stage floor.
- h. Two box booms are located house left & right at 18' from plaster line.
- i. The FOH and Box Boom positions have unusual structural obstructions. Please contact the lighting coordinator regarding these positions.
- j. There are eight 50lb round boom bases with 12' and 21' pipes available.
- k. 2 1.2k Lycian M2 medium throw follow-spots are located at the rear of the balcony extreme house left & right.
- l. When shell mode, there are permanently installed, RGBA, LED fixtures mounted in the shell ceilings. No additional overhead lighting is available when in Shell.

## 11. Repertory Lighting Plot:

- a. A standard house rep is available, see pages 10 and 11.
- b. Specials may be added as needed, and color may be changed.
- c. The rep hang over-stage provides sufficient masking and coverage for basic lighting needs and may be used as a general reference for spacing electrics and soft goods.
- d. Rep lighting paperwork can be provided electronically in Vectorworks, Lightwright, or as a PDF.

## 12. Sound Control:

- a. The house mix position is located extreme house left in the audience x-over 44' from the stage. There is about 8' x 12' of floor space. At no time is audience egress to be compromised. Please see page 12 for a drawing.

## 13. Mixing Consoles:

- a. Yamaha CL5 (FOH, 32 in 16 out via installed Rio)
- b. Yamaha QL5 (MON, 32 in 16 out, additional 32 in and 16 via installed Rio)
- c. One portable rack with 2 Rios consisting of 64 inputs and 32 outputs available

## 14. Loudspeakers:

- a. The primary & balcony L/C/R system consists of 3 EAW QX5 loudspeakers with EAW UX8800's. processors and Lab Gruppen amplifiers.
- b. Front fills are 2 EAW RSX 129's.
- c. Sub woofers are 2 EAW SB528zPi's mounted over the forestage.
- d. Monitor wedges are 8 EAW MW10's.
- e. There are 6 QSC K8 side fill monitors, 3 per side, mounted SL & SR.
- f. There are 8 QSC K10 powered loudspeakers available as fills or monitors.
- g. 2 hanging points for speakers are located directly downstage of the left and right primary speakers. Each point is rated for 1700lbs.

**15. Audio Equipment:**

- a. Check attached for inventory on page 13. Baker Hall and Zoellner Arts Center rely on a shared inventory, and as such, all items are subject to availability.

**16. Intercom/paging:**

- a. There is a Riedel Bolero wireless intercom system with 12 belt packs.
- b. The wireless system is interfaced with a Clear Com 2 channel party line system and 2way radios.
- c. In-house FOH & backstage paging available.
- d. Patch points are located throughout theater.

**17. Video Projection:** Baker Hall and Zoellner Arts Center rely on a shared inventory, and as such, all items are subject to availability.

**Projectors:**

- a. 4 Epson Pro L1505UNL 12,000 lumen laser, Resolution: WUXGA 1920x1200.  
Various lens options are available.

**Screens, flown or ground supported:**

- a. 1 Epson PowerLite Pro G7000W, 6500 lumen, Resolution: WXGA 1280x800.
  - i. Various lens options available.
- b. 1 24'x15' Draper Stagescreen portable folding screen.
- c. 1 14.6'x9.3' Draper Ultimate portable folding screen
- d. 1 19.6'x12.29' Draper Rolleromatic electric screen. Permanently mounted down stage of proscenium
- e. 1 8' tripod screen.

**Switchers:**

- a. 1 Roland V-800HD multi-format video switcher
- b. 1 Blackmagic Design Smart Videohub 12x12
- c. Blackmagic Design ATEM Mini Pro

**Presentation Remotes:**

- a. 2 Dsan Perfect Cue Micros

**Confidence Monitors:**

- a. 2 32" LCD flat screen monitors

**Computers:**

- a. Various Apple Macintosh computers
- b. Software available
  - i. Qlab
  - ii. Keynote & PowerPoint

**c. Company Switch:**

- d. 1 400 amp 3 phase switch is located up stage right.
- e. Connection via Cam-Lok.
- f. An additional 400 amp 3-phase switch is located in an adjacent theatre if needed.

**19. Orchestras Pit:**

- a. The pit is located 8'-3" below the stage floor. The lift mechanism is a Gala Spiral lift.
- b. The pit seats about 45 musicians.
- c. The pit can be used for additional audience seating, adding 68 seats.
- d. There are various shapes and sizes of platforms available.
- e. 96 Wenger Symphony and 48 Wenger Musician's chairs are available.
- f. 200 Mitylite folding chairs are also available for use.
- g. 80 Manhasset music stands
- h. 80 Aria Diva LED stand lights, a dmx dimmer is available.
- i. There are several conductor's podiums to choose from.
- j. We have 2 Steinway pianos, one 7' and one 9' concert grand. A Yamaha upright is also available.

**20. Dressing Rooms:**

- a. Located on lower level, one floor below Baker Hall.
- b. Dressing rooms are a shared resource and might not all be available.
- c. There are 2 individual dressing rooms with private shower/ bathroom.
- d. There are 2 4-person dressing rooms with a shower & shared bathrooms.
- e. There are 2 ensemble dressing rooms. The women's seats 26 and the men's 19.
- f. Each has showers and shared bathrooms.
- g. Hospitality is usually located inside the greenroom or directly outside.
- h. The laundry room has a single washing machine & an electric dryer.
- i. An iron and a Jiffy steamer are available upon request.
- j. A wig dryer is available upon request.
- k. Rolling wardrobe racks are available.
- l. The loading dock is located at 420 East Packer Ave. It is immediately to the right of the parking lot entrance. Please see page X for drawing.

**21. Loading Facilities:**

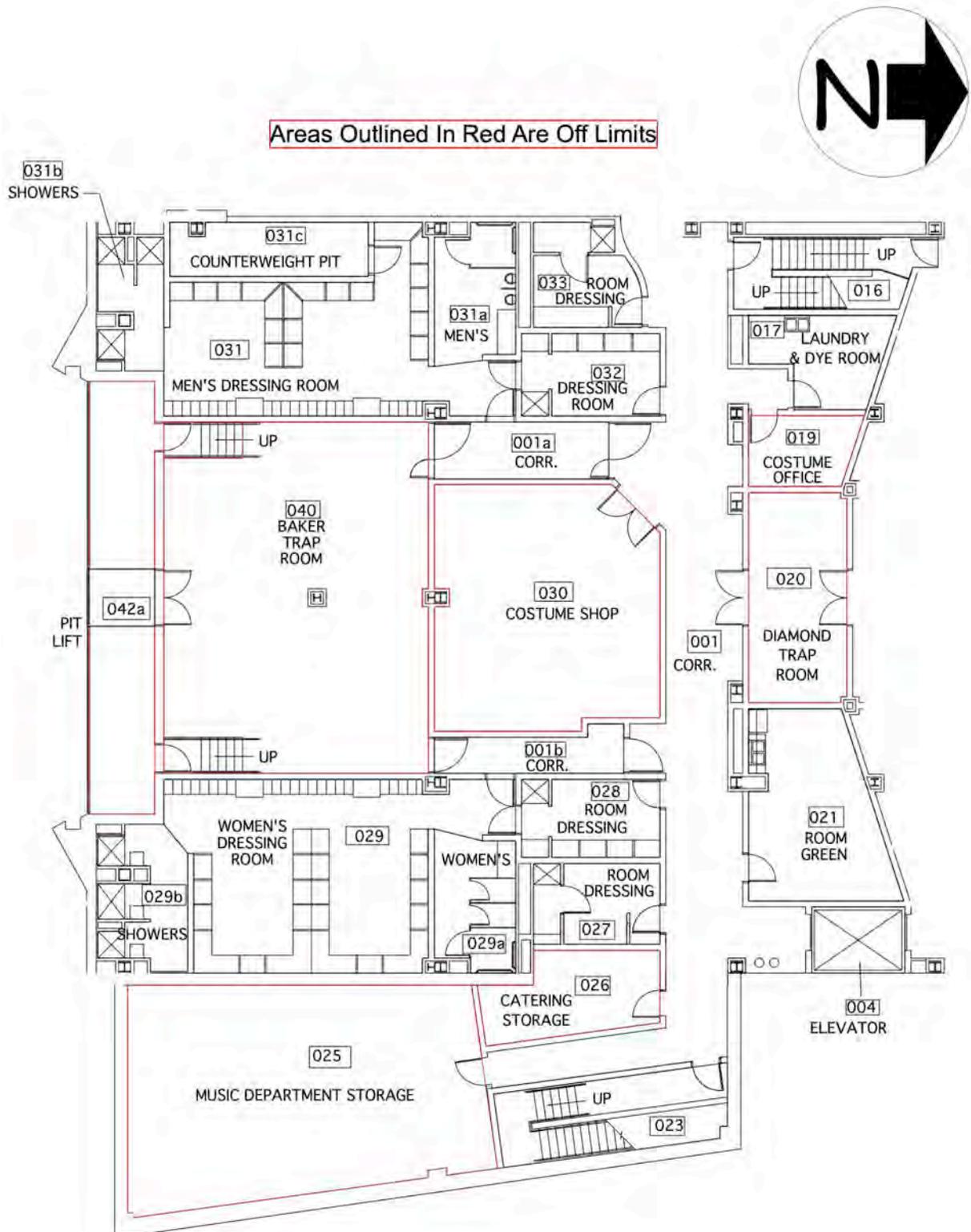
- a. The loading dock is located at 420 East Packer Ave. It is immediately to the right of the parking lot entrance. Please see page 8 for drawing.
- b. Loading dock accommodates 1 53' trailer and tractor.
- c. Driveway opening is 14' high.
- d. The dock is 3' above driveway & has an integrated, adjustable dock plate.
- e. The loading dock opens onto a hallway leading to stage left.
- f. Garage door opening is 9'-0" wide x 9'-7" high.
- g. Hallway and inner doors will accommodate scenery at least that height.

**22. Internet Access:**

- a. There is Wi-Fi available throughout the building. SSID: lehigh-guest. No password needed. A LAN jack is available in the greenroom. No password needed.
- b. There is a phone located in the greenroom for guest use.
- c. Long distance calls must be made using calling cards.



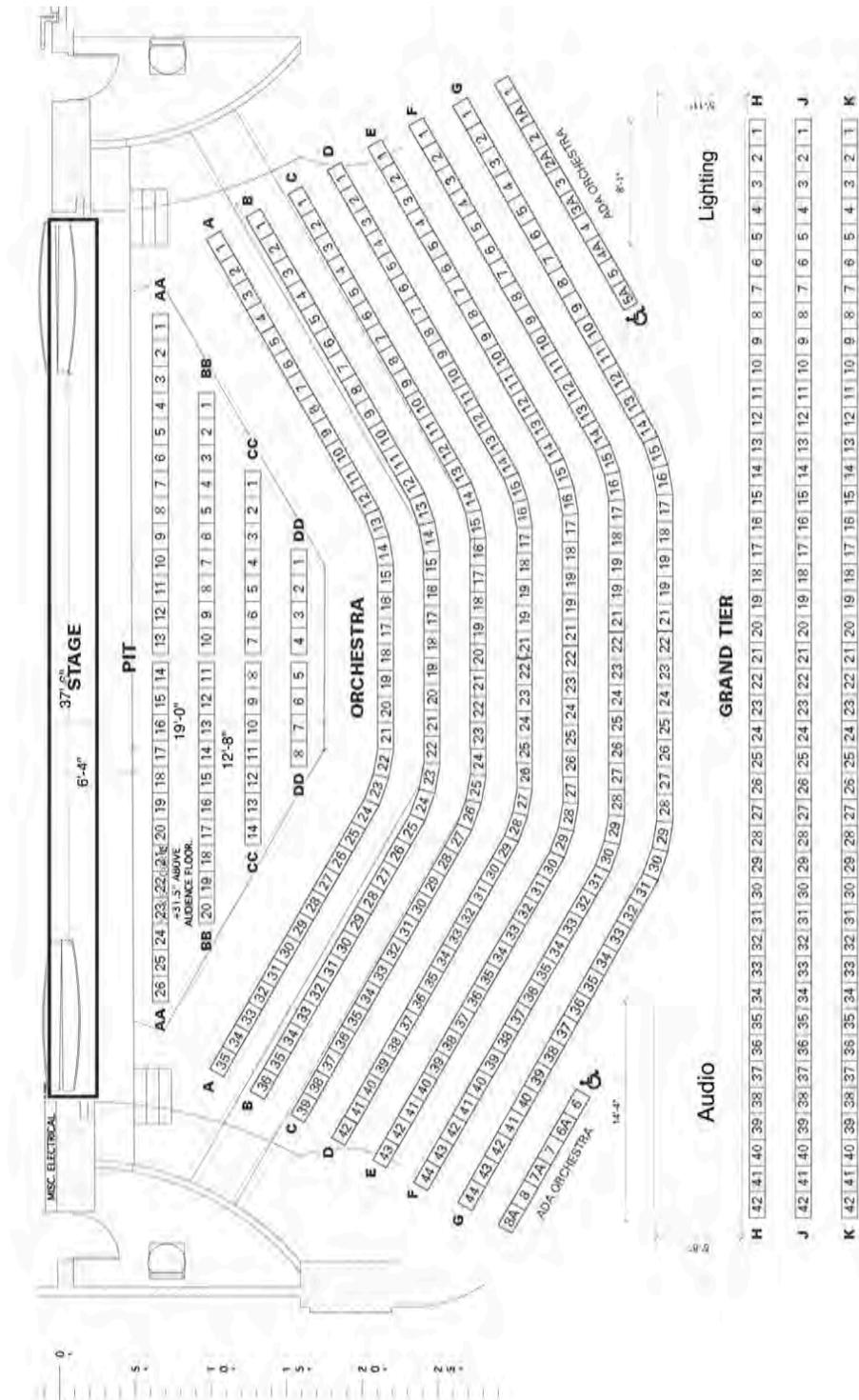
# Dressing Room Layout







# House Audio & Lighting Positions



# Audio Inventory

<b>Equipment Type</b>	<b>Brand/ Model</b>	<b># in Stock</b>
Mixing Console	Yamaha CL5	1
iMac w/QLAB	Apple	1
Multi-channel Interface	MOTU 828mk2	1
Dual CD player	Numark CDN450	1
CD player	Denon DN-C680	1
Compact Flash Recorder	Tascam –SSR1	1
Microphones	Neumann, AKG, Shure	Variety
Wireless Microphones	Shure ULX D	20 Channels
Microphone Stands	Variety	Variety

# Lighting Inventory

Manuf.	Unit Type/Model #	BH	Share	Notes
<b>Ellipsoidal</b>				
	ETC Conventional Bodies	170		
ETC	Source 4 10°	6		
ETC	Source 4 14°	17		BH-15 FOH, 1 DT barrel only
ETC	Source 4 19°	33		BH-11 FOH, 10 BH barrels only
ETC	Source 4 26°	57		BH-2 FOH, 5 BH barrels only
ETC	Source 4 36°	42		BH-4 FOH
ETC	Source 4 50°	8		
ETC	Source 4 70°	2		BH-1 Run LX
ETC	Source 4 Zoom 15-30°	24		12 Baker FOH REP
ETC	ETC Series 3 LED	17		All Baker FOH Rep (11x 14°, 2x 19°, 4x26° XDLT Lenses)
<b>Wash</b>				
ETC	Desire Fresnel	24		20 are BH Rep
Chauvet	Chauvet COLOrado 1-Quad Zoom		12	Stored in DT
ETC	Source 4 PAR	62		All S4 Pars have standard lens kits; 12 XWFL lenses available in FBB
Altman	8" Fresnel - 75Q	50		DT Fixtures are stored in BH 3rd floor LX Storage
Chroma Q	Color 100x	52	3	3 are reserved spares for BH Shell LEDs, 52 are BH Shell Rep.
<b>Cyc/Strip</b>				
Chroma Q	ColorForce 2 48" LED	10		Baker Rep Cyc LX
Chauvet	Colorail IRC		9	Stored in BH, HL 3rd floor storage
L&E	L & E Ministrips		5	3 cir, 10 lamps per cir, 5 color frames per, 6' - 0"
Strand	Orion 1 Model 4005		18	1cir, 1cell ground cyc
<b>Moving Head Fixtures</b>				
Chauvet	Rogue 1 Wash		12	Stored in DT
Chauvet	Rogue 2X Wash	18		Baker Rep
High End	Solaframe Theatre	5		Baker Rep-Permanent on FOH Truss
High End	Solaframe 1000 High CRI	8		All in Baker Rep
Varilite	VL1000-TS	4		1 also has loud CMY, 1 has internal wiring failure.
Varilite	VL1100-TS	2		Gobos matched to the 4 VL1000's
<b>Followspots</b>				
Lycian	Lycian M2 Medium Throw	2	0	Serviced 9/12 lamp housings replaced
Lycian	Lycian 1266		2	
City Theatrical	1500 Follow Spot Yoke for Source 4			Stored in DT
<b>Misc./Specialty</b>				
Chauvet	Freedom Flex H4 IP		12	THTR Dept/M&C events have 1st use
ETC	Source 4WRD Color 70°/Parnel	6		BH Run LX only
ETC	Source 4WRD Gallery 2 Parnel	3		DT/BH Work Lights ONLY
	MR16 Birdie (E17 Base)		9	
	MR16 Birdie (E26 Base)		10	
	Inkie - 3.5" Fresnel		9	All on 6" mounting plates
Superb Source	Pinspot		8	Winch Room
American DJ	Snapshot II-Strobe		2	Winch Room
Chauvet	Mini Strobe		1	Winch Room
American DJ	UV Canon		1	Winch Room
	Mirror Ball 16"		2	Winch Room;
American DJ	MB II DMX Mirror ball motor		1	Winch Room
	Mirror Ball 8"		1	Winch Room
Radio Shack	Mirror ball motor		1	Winch Room
<b>FX</b> Use MUST be arranged in advance through LC for these fixtures				
Look Solutions	Cobra 1.8 Fog Machine		1	DMX controlled. Baker SL
Look Solutions	Unique 2 Hazer & 2.1		2	DMX controlled. Baker SL

# Baker Hall Line Set Schedule

\*Shaded items are permanently rigged and not movable.

Legs are 12'-0" w x 30'-0" h. Borders are 56'-0" x 12'-0" h.

Line Set #	REP Line Set Schedule	Distance From Plaster Line	Description	Show Line Set Schedule	Notes:
1	House Border 1	0"-10"	50% fullness, Red,	House Border	56'-0" w x 24'-0" h REP 22' Trim
2	House Curtain	1'-8"	50% fullness, Red, traveler or guillotine	House Curtain	2 panels: 30'-0" w x 24'-0" h
3	Rep Legs 1	2'-4"		Rep Legs	<b>36' opening</b>
4	DS Projector	2'-9"			
5	Rep 1 <sup>st</sup> Electric	4'-6"	40 circuits.	Rep 1 <sup>st</sup> Electric	Motorized Bridge/26' Trim
6	O. Shell Ceiling	6'-10"	Articulated shell ceiling	O. Shell Ceiling	53'-3" w x 45'-7" w (Stored)
7		7'-7"			Will not fly past the shell.
8	Rep Border 2	8'-1"		Rep Border	<b>22' Trim</b>
9	Rep Legs 2	8'-10"		Rep Legs	<b>36' opening</b>
10		9'-4"			
11		9'-10"			
12	Rep 2 Electric	10'-7"		Rep 2 Electric	(21 Bricks) 26' Trim
13		11'-4"			
14		12'-1"			
15	Rep Border 3	12'-10"		Rep Border	<b>22' Trim</b>
16	Rep Legs 3	13'-7"		Rep Legs	<b>36' opening</b>
17		14'-1"			
18	Rep 3 Electric	14'-7"		Rep 3 Electric	(16.5 Bricks) 26' Trim
19		15'-4"			
20	Mid-stage Traveler	16'-2"	50% fullness, Black, traveler or guillotine	Mid-stage Traveler	2 panels: 30'-0" w x 24'-0" h
21	O. Shell Ceiling	16'-9"	Articulated shell ceiling	O. Shell Ceiling	45'-7" w x 37'-11" w (Stored)
22		17'-10"			Will not fly past the shell.
23		18'-7"			
24	Rep Border 4	19'-4"		Rep Border	<b>22' Trim</b>
25	Rep Legs 4	20'-1"		Rep Legs	<b>36' opening</b>
26		20'-10"			
27	Rep 4th Electric	21'-10"	32 circuits	Rep 4th Electric	(22.5 Bricks) 26' Trim
28		23'-10"			
29		24'-7"			
30	Rep Border 5	25'-1"		Rep Border	<b>22' Trim</b>
31	Rep Legs/Rep 5 <sup>th</sup> Electric	25'-10"		Rep Legs/Rep 5 <sup>th</sup> Electric	<b>36' opening</b> Cyc LX/30' Trim (13+2 for legs) 15 Bricks Total
32	O. Shell Ceiling	26'-7"	Articulated shell ceiling	O. Shell Ceiling	45'-7" w x 9'-10" w (Stored)
33		27'-1"			Will not fly past the shell.
34		27'-9"			
35	Up-stage Traveler	28'-2"	50% fullness, Black, traveler or guillotine	Up-stage Black Traveler	2 panels: 30'-0" w x 24'-0" h
36	White RP Screen	28'-9"		Rep RP Screen/Cyc	

All Legs: 2 Bricks

All Borders: 2.5 Bricks

Baker Hall RP Screen w/ Bottom Pipe: 6 Bricks