

Technical Production Packet for the Mainstage Theater





Welcome to the James Lumber Center for the Performing Arts!

The James Lumber Center (JL Center) and its staff are looking forward to working with you in support of your production. The JL Center has a wide range of support services to ensure your production's success. Contained within this packet are listings of JL Center equipment, various maps, layouts, and directions, as well as contact information for JL Center Staff. This packet is designed to serve as a reference tool for our facilities, and we encourage you to contact us with any questions you might have. Thank you and have a great show!

JL Center Website:

http://jlcenter.clcillinois.edu/

Technical Production Contacts:

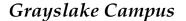
Jeremy Eiden-Technical Coordinator (847) 543-2687 ofc. (262) 496-4351 cell jeiden@clcillinois.edu

Pete Hansen-Technical Production Assistant (Audio) (847) 543-2835 ofc. (847) 421-7529 cell phansen1@clcillinois.edu

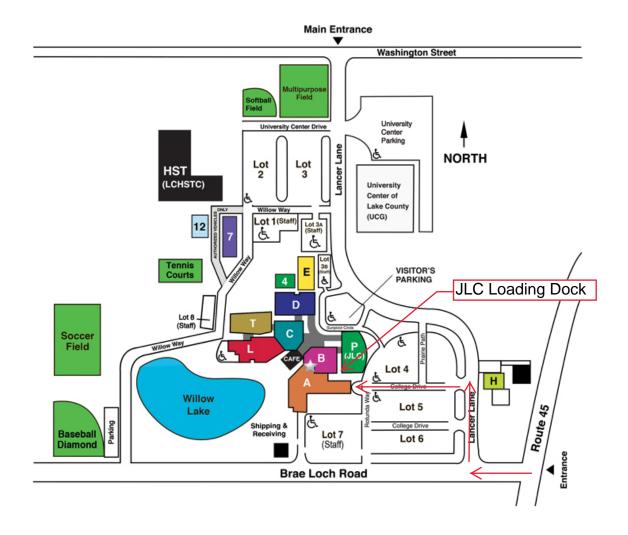
Transportation, Lodging, Hospitality Contact:

J. Avers-Office Manager (847) 543-2678 javers@clcillinois.edu

Technical Coordinator: 847-543-2687









<u>Directions to James</u> <u>Lumber Center Loading</u> Dock

- -Access Road is 1-Way only
- -Shore Power Available for 1 bus in dock.
- -Staff may enter through the service door (labeled P3)

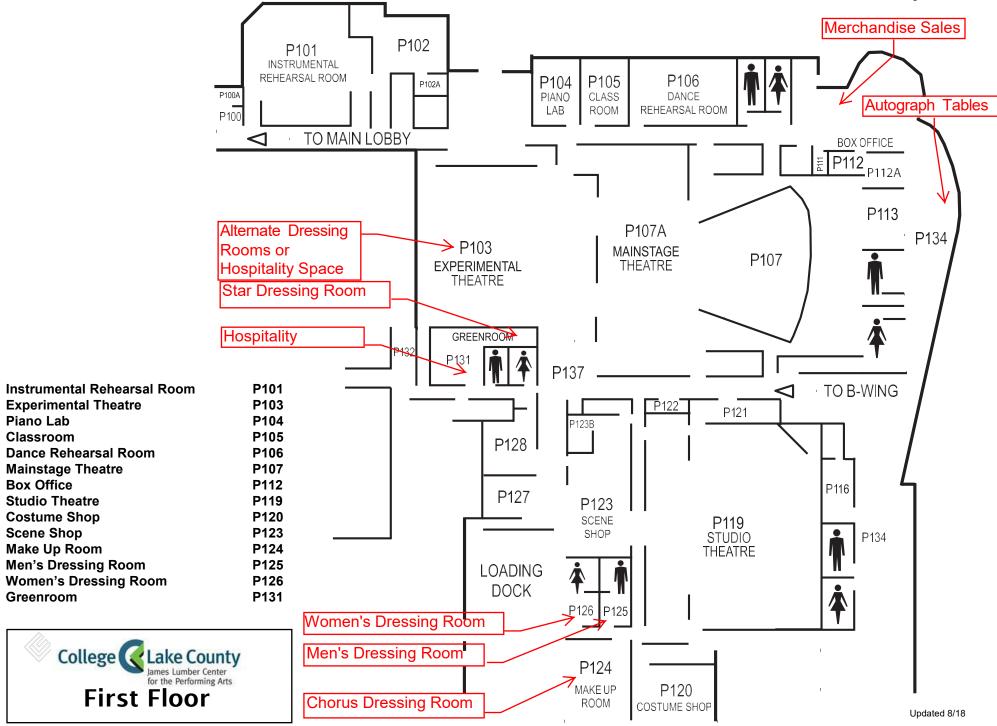




View of JL Center Loading Dock Door Dimension: 11'-11" Wide by 11'11" High 100 amp shore power available



View of USR Loading Doors to Mainstage Theater Dimensions: 10' Wide by 16' High





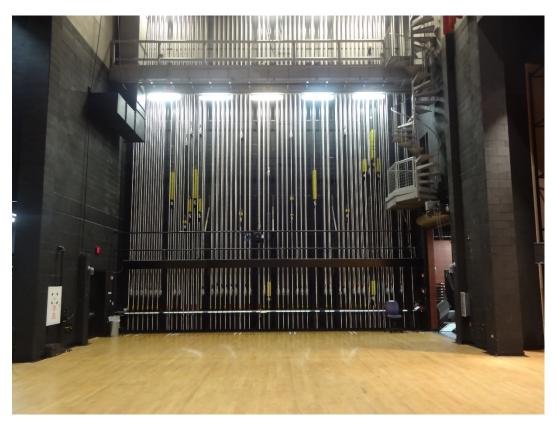


View of Audience from Upstage Center

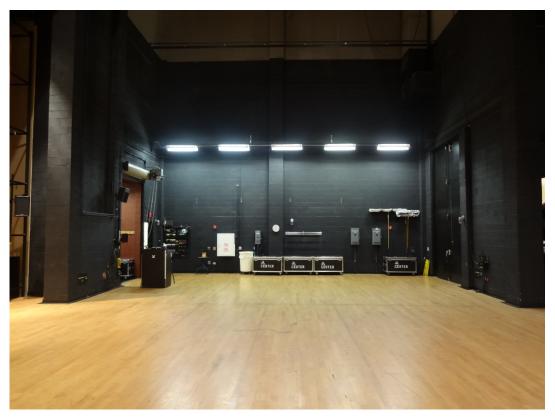


View of Stage from Back of House



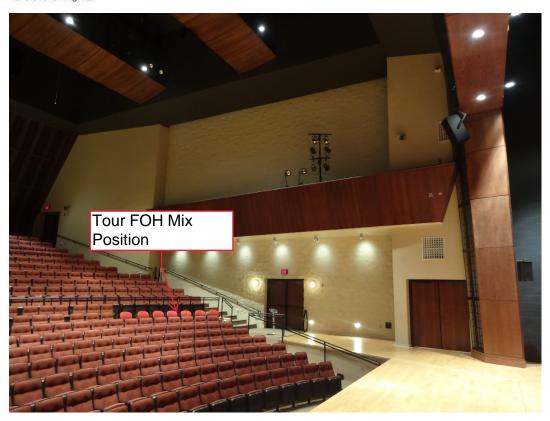


Stage Left

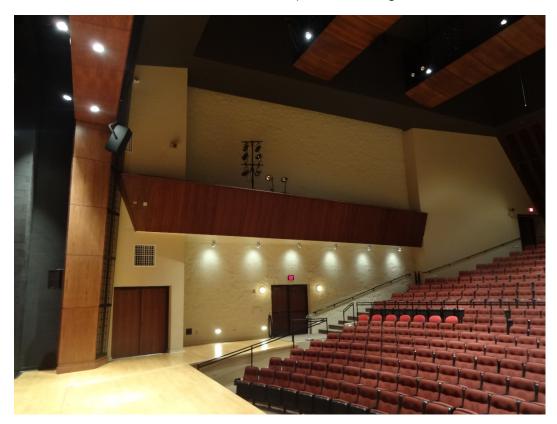


Stage Right





House Left Tech Balcony and Side Stage



House Right Tech Balcony and Side Stage



Stage Specifications for Mainstage Theater

Stage Dimensions:

Proscenium: 47'-10" W by 28'-0" H

False Proscenium: 46'-5" W by 23'- 2 1/2" H

Plaster Line to Back Wall: 36'-0" Stage Right Wing: 23'-6" W Stage Left Wing: 20'-2" W

Apron (including Orchestra Lift): 16'-0"

Orchestra Lift: Shaped like a trapezoid, 9'-9" D by 42'-10" W on the long (downstage) side

and 35'-0" on the short (upstage) side. Lift drops to a maximum depth of 8'-1".

Back Wall of Theater to Back Wall of House: 125'

Back Row of Seats is 15' above stage level

Floor Surface: Maple tongue and groove sprung floor with satin finish.

Crossover: Hallway located directly behind back wall of theater.

Fly System:

- -Single purchase manual counterweight system
- -51 total linesets
- -5 sets of black masking legs and 4 black borders
- -Grand Drape is Cherry Red and can both travel and guillotine.
- -Grand Teasor (1st border) is Cherry red and can guillotine only.
- -Black Mid Stage Travelor that can also guillotine.
- -White Cyclorama (64' W by 32' H)
- -Black Sharkstooth Scrim (60' W by 32' H)
- -Full Stage Black (flexible placement)

Hanging Positions:

FOH

- -Catwalk 1: (in false proscenium): 26'-0" H 28'-8" Pipe Height with 24 circuits
- -Catwalk 2: 31'-0" from curtain line, 38'-0" H 40'-8" Pipe Height with 24 circuits
- -Catwalk 3: 51'-8" from curtain line, 38'-0" H 40'-8" Pipe Height with 16 circuits
- -Tech Balconies: Located along both house right and house left walls, they run 46' long and Pipe Height is 19'-0" with 8 circuits apiece

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Hanging Positions (cont.)

On-stage:

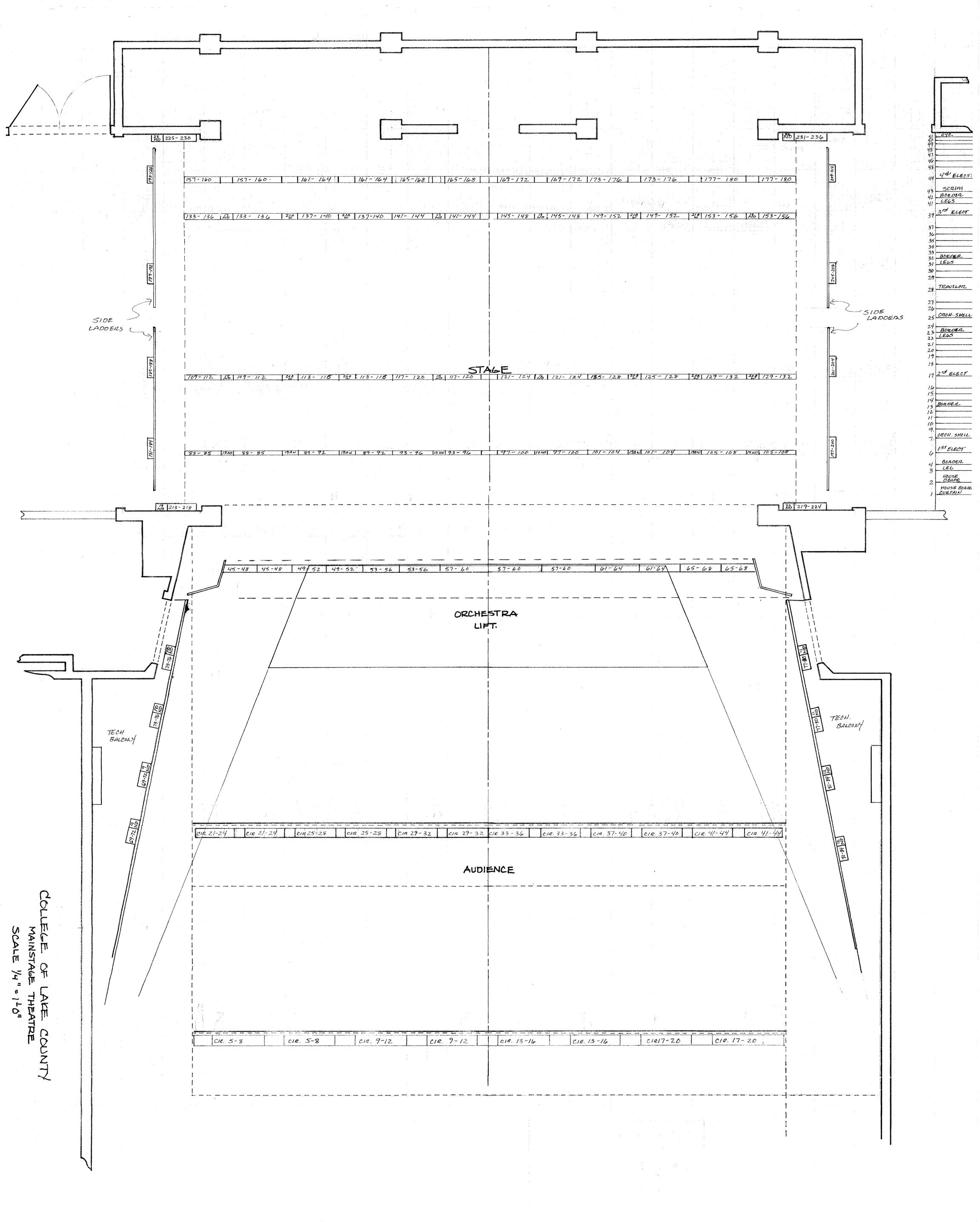
- -4 dedicated electrics with 24 circuits apiece
- -1 electric (3rd) that has been electrified by using (4) 4-circuit drop boxes taken from the downstage light ladders.
- -4 light ladders (2 stage right and 2 stage left). The down stage ladders draw their circuits from cable run to wall pockets (3 to 6 circuits each). The upstage ladders have (2) 4 circuit drop boxes each.

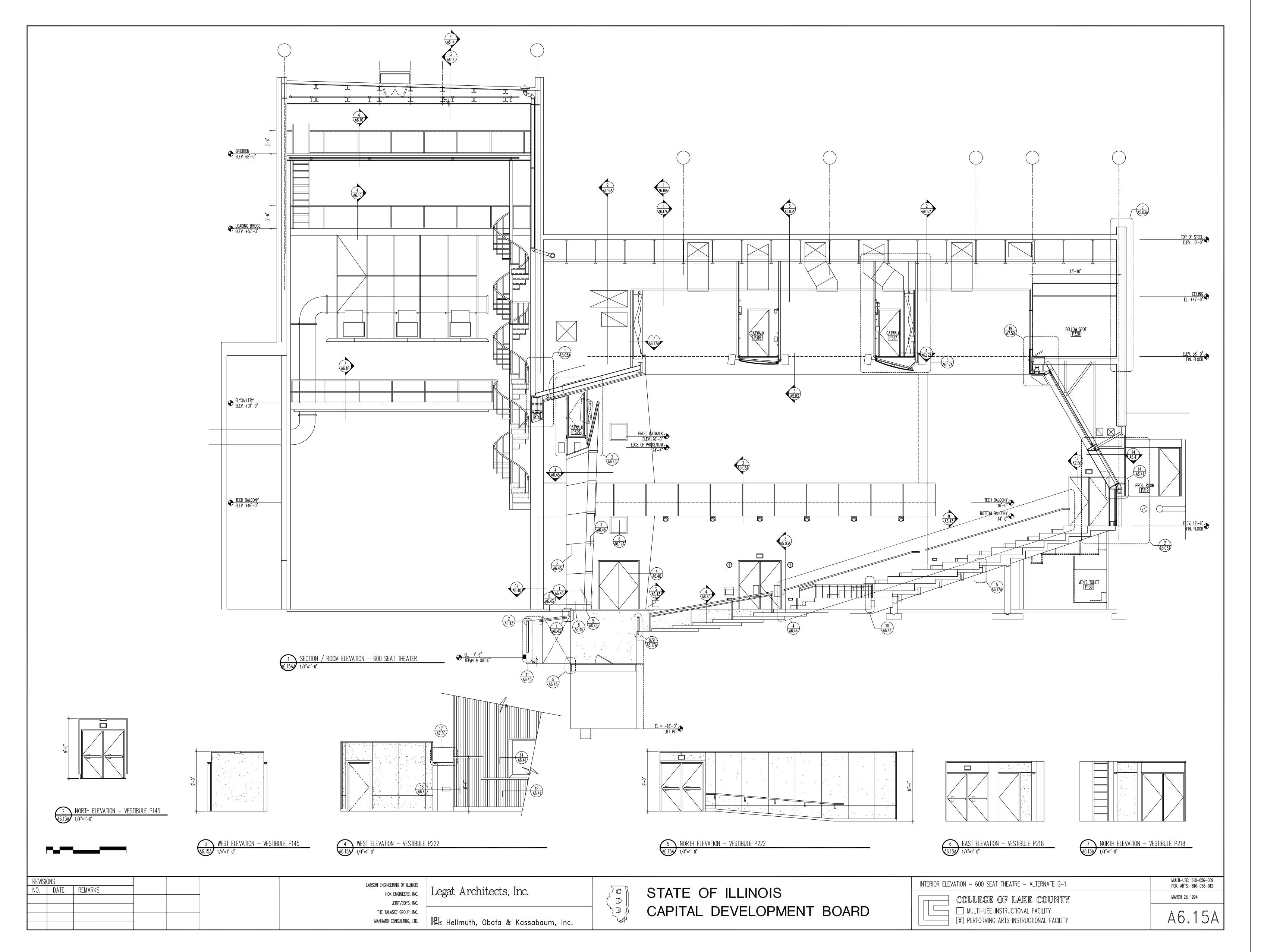
Power Distribution:

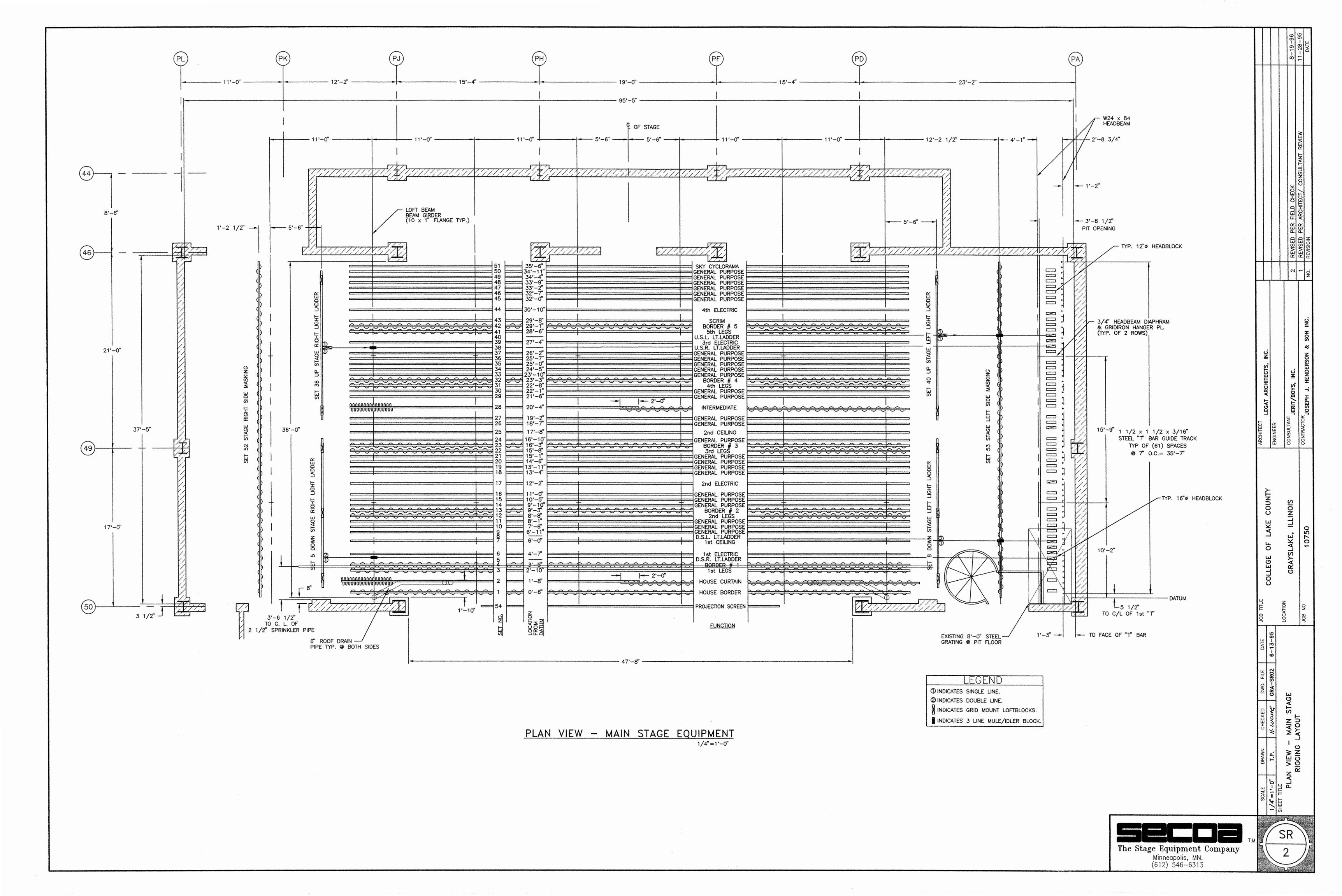
- -284 Dimmers (236 for stage use and 48 for architectural use) rated at 2.4kW
- -(1) 100 amp 3 phase disconnect located Stage Right for tour sound tie-in.
- -(2) 200 amp 3 phase disconnects located Stage Right for tour lighting tie-in.
- -(1) 100amp 3 phase disconnect in a weatherproof box located in the loading dock for shore power.

<u>Seating:</u>

- -575 permanent seats (Max Capacity-645 w/pit seated and companion chairs used)
- -Continental style, stadium seating configuration
- -Wheelchair seating located lower house right, upper house right and upper house left.









Mainstage Line-Set Schedule

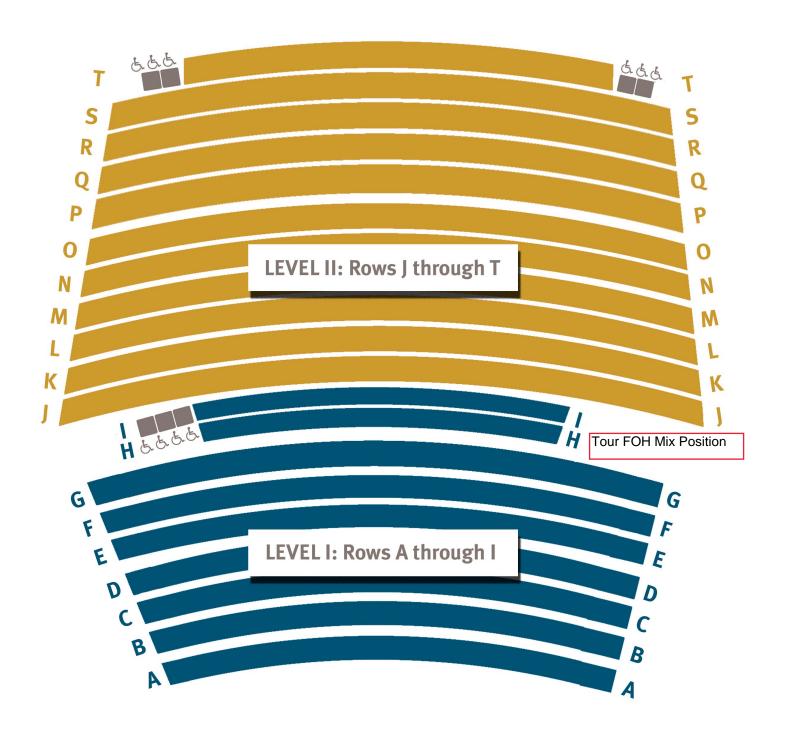
Line-Set # and Content	Distance From
	Proscenium
1: Grand Teasor	0'-6"
2: Grand Drape	1'-8"
3: Legs #1	2'-10"
4: Open	3'-5"
5: DSR Light Ladder	
6: 1st Electric	4'-7"
7: Downstage Orchestra Ceiling	6'-0''
8: DSL Light Ladder	
9: Open-Unusable due to Orchestra	6'-11"
Ceiling	
10: Open	7'-6''
11: Border #2	8'-1"
12: Legs #2	8'-8"
13: Open	9'-3"
14: Open	9'-10"
15: Full Stage Black	10'-5"
16: Open	11'-0"
17: 2 nd Electric	12'-2"
18: Open	13'-4"
19: Open	13'-11"
20: Open	14'-6''
21: Border #3	15'-1''
22: Legs #3	15'-8''
23: Open	16'-3"
24: Open	16'-10"
25: Upstage Orchestra Ceiling	17'-8''
26: Open-Unusable due to Orchestra	18'-7"
Ceiling	
27: 3 rd Electric-Circuits pulled from DS	19'-2"
Light Ladders	
28: Mid-stage Travelor	20'-4''
29: Open	21'-6"
30: Border #4	22'-1"
31: Legs #4	22'-8"
32: Open	23'-3"
33: Open	23'-10"
34: Open	24'-5"
35: Open	25'-0''
36: Open	25'-7"



37: Open	26'-2"
38: USR Light Ladder	
39: 4 th Electric	27'-4"
40: USL Light Ladder	
41: Border #5	28'-6"
42: Legs #5	29'-1"
43: Scrim	29'-8"
44: 5 th Electric	30'-10"
45: Open	32'-0"
46: Open	32'-7"
47: Full Stage Black	33'-2"
48: Open	33'-9"
49: Open	34'-4"
50: Cyclorama	34'-11"
51: Open	35'-6"



Mainstage Seating Plan





Lighting, Effects, and Projection Inventory for James Lumber Center

Note: All instrumentation has 3 pin stage connectors unless otherwise noted.

Intelligent Fixtures

(2) Rosco I-Cues-uses (1) shared power supply

Ellipsoidals

--ETC Source 4 750's (only 575w HPL lamps are available)

(6)- 5 degree (10x23)

(8)-10 degree (8x13)

(45)- 14 degree (6x22)

(64)- 19 degree (6x16)-blue lens barrel

(69)- 26 degree (6x12)-white lens barrel

(84)- 36 degree (6x9)-yellow lens barrel: 4 of these are the older style and can only be lamped up to 575w

(4)- 50 degree (4.5x6)-red lens barrel

(2)- 50 degree lens train

Fresnels

--Strand Series

(11)- 6" fresnel (1kW BTR lamps)

(24)-8" fresnel (2kW BVW lamps)

--Altman Series

(8)-3" inky fresnel (100w lamps) 4 w/Edison connectors and 4 w/stage pin connectors

PAR cans

--ETC Series

(120)- Source 4 EA PARs w/all 4 lenses (HPL 750w lamps)

Cyc Lights

--Strand Iris 4 Series

(20)- 4-circuit cyc lights (1kW FFT lamps)

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Strip Lights

--Altman R40 Series (12)- 4 circuit strips (250w flood lamps) --Altman ZS-4 Zip Strips (6)- 4 circuit strips (75w EYC lamps)

Follow Spots

(2)- Robert Juliat Korrigan's (1200w HMI Lamps) Mainstage Only

Accessories

- (4) City Theatrical ShowBaby 5 DMX Transceivers (5 pin DMX)
- (1) Doug Fleenor Design DMX Iso-Splitter (1 in, 5 out, 5 pin DMX)
- (1) Bakerwood Lite Industries DMX Controllable Projector Dowser
- (13) Source 4 drop in irises
- (32) 6-1/2" stacker top hats
- (12) 7-1/4" top hats
- (12) 10" top hats
- (28) 7-1/4" barn doors w/color slot- 4 way
- (14) 7-1/4" barn doors w/o color slot- 4 way
- (4) 7-1/4" barn doors w/ color slot- 2 way
- (12) 10" barn doors w/o color slot- 4 way-for 8" fresnels only
- (53) 6-1/2" donuts for Source 4 ellipsoidal
- (8) 7-1/4" donuts Source 4 14 degrees
- (10) 50lb round base stand for light booms
- (4) 50lb square base stand for light booms
- (2) 6'-3" boom pipe
- (4) 7'-0" boom pipe
- (8) 11'-0" boom pipe (2 are mounted in Mainstage Tech Balconies)
- (10) 10'-6" boom pipe
- (24) 15" sidearms with one tee
- (18) 18" sidearms with one tee
- (8) 24" sidearms with two tee's

Technical Coordinator: 847-543-2687



Cable

-Various lengths of #12/3 SO cable with a variety of adapters, two-fers, and three-fers

Lighting Boards

- -- The Mainstage Theater uses the ETC Ion XE20 console with 1024 channels and 1024 outputs. It has two 22" touch screen monitors, mouse and keyboard. The console is connected via sACN to lighting system with a 7" Unison Touchscreen available for architectural lighting control.
- -- The Studio Theater uses the ETC Ion XE20 console with 1024 channels and 1024 outputs. It has two 24" touch screen monitors, mouse and keyboard. The console is connected via sACN to lighting system with a 7" Unison Touchscreen available for architectural lighting control.
- --Laptop with ETC Nomad widget and dongle and separate 19" screen monitor are available for use at designer table at FOH

Effects

- (1) Ultratec Radiance Hazer-DMX controllable
- (2) 8" Mirror Balls w/single speed motors
- (4) American DJ Egg Strobes w/rate control

Please note that Village of Grayslake Ordinance prohibits the use of pyrotechnics in the James Lumber Center

Projection

All video playback via PowerPoint and/or Q-Lab Software

- (1) Sony VPL-FH2700L WUXGA (1920x1200) Laser Projector-7000 ANSI Lumens. Has lens shift, corner and edge correction and image warping. Has a zoomable lens that is interchangeable (2.02:1 2.67:1. Has inputs for HDMI, DVI, SDI, and VGA.
- (1) Christie LW555 WXGA (1280 x800) LCD Projector-5500 ANSI Lumens. Has a zoomable lens that is interchangeable (1.70:1 2.89:1). Has input for HDMI, DVI, Composite, and VGA
- (1) NEC NP401W WXGA (1280x800) LCD Projector-4000 ANSI Lumens. Has a zoomable lens that is not interchangeable (1.36:1 2.26:1). Has inputs for HDMI, S-Video, Composite, and VGA
- (1) HP 15" ProBook Laptop (I7 dual core w/16GB RAM and 120GB SSD) w/ Windows 10 and Office 2016, DVD/RW drive and display port output
- (1) 20' High by 29' wide Da-Lite Motorized Projection Screen. This is permanently mounted in soffit in proscenium. Control panel is mounted on DSR wall ***Mainstage Only!***

19351 West Washington Street, Grayslake, IL 60030



Circuit Schedule for Mainstage Theater

Stage Lights

Projection/Follow Spot Booth: 1-4

Catwalk Three: 5-20 Catwalk Two: 21-44 Catwalk One: 45-68

House Left Balcony: 69-76 House Right Balcony: 77-84 First Electric (Line 6): 85-108

Second Electric (Line17): 109-132

Third Electric (Line 27): *See DSL and DSR Light Ladder circuits

Fourth Electric (Line 39): 133-156 Fifth Electric (Line 44): 157-180

DSR Light Ladder (Line 5): 181-184, 185-188 *These two drop boxes can be moved to line 27

to create the Third Electric

USR Light Ladder (Line 38): 189-192, 193-196

DSL Light Ladder (Line 8): 197-200, 201-204 *These two drop boxes can be moved to line 27 to

create the Third Electric.

USL Light Ladder (Line 40): 205-208, 209-212

DSR Wall Panel: 213-218 DSL Wall Panel: 219-224 USR Wall Panel: 225-230 USL Wall Panel: 231-236

Cyc Light Circuits (5th electric):

* 2 Units per circuit

Blue (R 80)- 157, 161, 165, 169, 173, 177 Red (R 27)- 158, 162, 166, 170, 174, 178 Green (R 90)- 159, 163, 167, 171, 175, 179 Amber (R 127)- 160, 164, 168, 172, 176, 180



Architectural Lights

House Lights: 237-247

Platform Lights (false proscenium): 255-260 Circulation Lights (vestibules): 251-252

Decorative Lights (sconces): 249-250 (globes): 253

Lecture Lights: 263-270 Orchestra Lights: 271-284

Non-Dims (289-310):

289 ND1 Followspot/Proj. Booth	300 ND 12 HR Tech Balcony
290 ND2 Orchestra Pit	301 ND 13 1st Electric SR
291 ND 3 Catwalk 3	302 ND 14 1st Electric SL
292 ND 4 Catwalk 3	303 ND 15 2 nd Electric SR
293 ND 5 Catwalk 2	304 ND 16 2 nd Electric SL
294 ND 6 Catwalk 2	305 ND 17 4 th Electric SR
295 ND 7 Catwalk 1	306 ND 18 4 th Electric SL
296 ND 8 Catwalk 1	307 ND 19 DSR Wall Panel
297 ND 9 HL Tech Balcony	308 ND 20 DSL Wall Panel
298 ND 10 HL Tech Balcony	309 ND 21 USR Wall Panel
299 ND 11 HR Tech Balcony	310 ND 22 USL Wall Panel

Work Lights [Non-Dimmable] (311-342):

311 WL 1 Aisle Lights	327 WL 17 Loading Bridge
312 WL 2 Running Blue Lights	328 WL 18a Gridiron
313 WL 3 Perf. In Progress Signs	329 WL 18b Gridiron
314 WL 4 Lighting/Proj. Booth	330 WL 19a 1st Electric
315 WL 5 Sound Booth	331 WL 19b 1st Electric
316 WL 6 Follow Spot Booth	332 WL 20a 2 nd Electric
317 WL 7 Catwalk 1	333 WL 20b 2 nd Electric
318 WL 8 Catwalk 2	334 WL 21a 4 th Electric
319 WL 9 Catwalk 3	335 WL 21b 4th Electric
320 WL 10 North Catwalk	336 WL 22 SR Wing
321 WL 11 SR Side Stage Lo	337 WL 23 SL Wing
322 WL 12 SR Side Stage High	338 WL 24 Shell Storage
323 WL 13 SL Side Stage Lo	339 WL 25 Orchestra Pit
324 WL 14 SL Side Stage High	340 WL 26 Rigging Pit
325 WL 15 Spare	341 WL 27 Tech Balconies
326 WL 16 Fly Gallery	342 WL 29 Orchestra Pit



MAINSTAGE AUDIO SYSTEM

- 1) Mains- (2) D&B 24S Subs- (2) D&B 21S
 - a) System frequency response at -5dB point 33Hz-18kHz
 - b) Power and processing by D&B 30D 4ch amps with R1 software control
 - i) D&B DS10 audio network bridge for Dante to AES conversion
 - ii) System input can be analog, AES, or Dante
 - c) Delays- (2) D&B 10S suspended from the rear of the 2nd house catwalk
 - d) Front Fills- (4) D&B E6 100 degrees horizontal by 55 degrees vertical dispersion, frequency response at -5dB 85Hz-20kHz
 - e) Mains flown below false proscenium catwalk
 - f) Subs are in cove between false proscenium and proscenium on each side of the stage
- 2) Midas Verona 480 (Booth console)
 - a) 48 channels
 - b) 8 stereo channels
 - c) 8 groups
 - d) 8 Aux's
 - e) 4 Matrix
 - f) 4 Band Sweepable EQ
- 3) Allen & Heath Avantis (House Console)
 - a) 64 input channels
 - b) 42 output busses freely assignable (Aux's, Groups, Matrix)
 - c) 12 analog inputs and outputs on surface
 - d) Stage rack GX4816
 - i) 48 analog inputs
 - ii) 16 analog outputs
 - e) 1 Dante card installed 64 in 64out
 - f) USB recorder/player
- 4) Yamaha LS9-32 w/ 16X16 Dante Card (Monitor/aux console)
- 5) Effects Playback Speaker System
 - a) 3 PAS PI-152P Loudspeakers flown in back of House
- 6) 8 Mix Monitor System with Nexo monitors driven by Nexo amps
 - a) 8 Nexo PS10R2 Wedges with 1" Asymmetrical Horn Driver and 10" Woofer passively crossed over at 2000 Hz
 - b) 6 channels of Klark Teknik 1/3 octave EQ
 - c) Powered by 2 Nexo 4x1 amplifiers with Dante cards installed (limited DSP included within amp)



Audio Equipment Inventory

Generic Name	Brand & Model Number	Total
Condenser Microphone	AKG C414 B-ULS	4
Condenser Microphone	AKG C535 EB	2
	Audio-Technica	
Dynamic Microphone	ATM41HE	4
Ribbon Microphone	Beyerdynamic M160 NC	3
Dynamic Microphone	Beyerdynamic M88	1
Boundary Microphone	Crown PZM-6D	4
Dynamic Microphone	EV RE11	1
Dynamic Microphone	EV RE16	2
Dynamic Microphone	EV RE27	2
Dynamic Microphone	Sennheiser MD 42111	4
Dynamic Microphone	Sennheiser MD 43111	4
Dynamic Microphone	Sennheiser MD 441-U	2
Dynamic Microphone	Sennheiser 835-S	3
Dynamic Microphone	Sennheiser E604	3
	Shure Microflex podium	
Condenser Microphone	mic (MX418)	2
Dynamic Microphone	Shure SM57-LC	6
Dynamic Microphone	Shure SM58-LC	6
Condenser Microphone	Shure SM81-LC	6
Condenser Microphone	Shure SM87-LC	2
Condenser Microphone	Shure Beta 91a	1
Condenser Microphone	Shure KSM 27	2
Condenser Microphone	Behringer ECM-8000	1
Boundary Microphone	Crown PCC-160	5
Hanging Mic (Cardiod or Hypercardiod)	Audio-Technica U853R	4
Shure Wireless	ULXD2 G50 (470-	4
Transmitter	534 MHz)	
Handheld	B58's	
Shure Wireless	ULXD1 G50 (470-	4
Transmitter Beltpack	534 MHz)	
Shure Wireless	ULX P J1 Band	5
Transmitter	(554-590 MHz)	
Handheld	SM58's	
Shure Wireless	ULX P J1 Band	7
Transmitter Beltpack	(554-590 MHz)	
Shure Wireless	ULXD4Q G50Band	
Receiver	(470-534 MHz)	1



Performing Arts		
Shure wireless	ULX P J1 Band (554-590	7
Receivers	MHz)	
Antenna Splitter/Power		
Distro	Shure UA844SWB	4
Directional Antenna		
Paddle	Shure UA870USTV	4
Countryman lav mic	B6W5FF05LSL	14
Countryman headset		
mic	E6XOW5T1SL	2
Shure lav mic	WL50	1
Shure lav mic	WL93	3
Playback Computer	2017 iMac 21.5" w/ Qlab	2
Audio interface	RME Fireface UC	1
Audio interface	PreSonus Studio 26	1
		-
Passive DI Box	Whirlwind PC DI	2
Passive DI Box	Whirlwind IMP 2	1
Passive DI Box	Whirlwind Director	4
Passive DI Box	Radial Pro D2	2
Active DI Box	Radial JDV-MK3	1
Passive DI Box	Radial JDI-MK3	2
Active DI Box	Countryman 85	1
/ Clive Bi Box	Coorniyinan 65	'
Sound Console	Midas Verona 480	1
Sound Console	LS9-32	1
Sound Console	LS9-16	1
CD Player	Denon DN-C680	1
CD Player	Denon DN-C640	1
CD Recorder	HHB BurnIT Plus	1
EFX Unit	Lexicon MPX 1	1
Delay Unit	T.C. electronic D-Two	1
Compressor	dbx 1046	2
Headphones	Sony MDR 7506	1
Equalizer	Klark Teknik DN360	3
LYOUIZOI	NGIN TONIIN DINOU	J
Stage Monitors	Yamaha Nexo P\$10R2	8
Fills	EAW JF60z	2
	D&B E6	4
Front Fills (Mainstage Only)	D&D E0	4
	Ultimate telelock TS-90B	
Speaker Stands	black	4
Speaker Stands	Ultimate	2
Heavy Duty Mic. Stand	K&M GS	2



Short Tripod Mic. Stand		
w/ boom	AKG\K&M	12
Tall Tripod Mic. Stand w/		
boom	AKG\K&M	16
Table Top Mic. Stand	Atlas	4
Tall Round Base Mic.		
Stand	Atlas	6
Tall Round Base	K&M	3
Clutch Mic. Stand		

	Whirlwind 150' 32/10	
Snake	Channel	1
	Whirlwind 100' 16/4	
Snake	Channel	1
Snake	Whirlwind 50' 16ch	1
Snake	Whirlwind 50' 12ch	1
Snake	Whirlwind 50' 6ch mini	1

Intercom Base Station	Clear-Com MS222	3
Intercom Speaker		
Station	Clear-Com PL Pro RM220	2
	Clear-Com gooseneck	
Basestation Microphones	mics	5
Intercom Beltpack	Clear-Com RS501	18
Intercom Headset	Clear-Com CC85	18
Wireless Intercom	Pliant Technologies	
Base Station	Crewcom 900 Mhz	1
Wireless Intercom	Pliant Technologies	6
Beltpack	Crewcom 900 Mhz 2 ch	
	packs	

Drum Shield	Clear Sonic AR5-5	1
5'x2' Acoustic absorber	Clear Sonic S5-2	2
4'x2' Acoustic absorber	Clear Sonic S4-2	2
2'x2' Acoustic absorber	Clear Sonic S-2	4

9' Concert Grand Piano	Steinway	1
5'-9" Baby Grand Piano	Howard (by Kawai)	1

^{**}Tunings must be arranged in advance!**



Dressing Rooms

- -Men's, Women's, and Chorus Dressing Rooms are located approximately 100 feet from stage right of the Mainstage
- -Star Dressing/Green Room is located 35 feet from up stage right of the Mainstage Theater
- -All Dressing Rooms have selectable program feed and paging capabilities
- -Men's, Women's, and Star Dressing rooms are equipped with costume racks, make-up mirrors/lights, showers (one per space), sinks, and toilets. Men's and Women's also have lockers available for storage. (User must provide their own lock)
- -Green Room has lockable cabinet available to store and secure personal items if needed
- -Chorus Dressing Room is equipped with costume racks, makeup mirrors/lights, and sink
- -Additional Dressing Room space can be added in Experimental Theater (when available) by using portable partitions, tables, chairs, and mirrors. The Experimental Theater is located behind the Mainstage Theater.

Men's Dressing Room:



-Makeup stations for 4 persons. Can comfortably hold 6 to 8 persons

Women's Dressing Room



-Makeup stations for 4 persons. Can comfortably hold 8 to 10 persons

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Chorus Dressing Room



-Make up stations for 20 persons. Can comfortably hold 26 to 30 persons

Star Dressing Room



-Makeup stations for 2 persons. Can comfortably hold 3 persons.



Hospitality Spaces

- -Green room is equipped with sofas, chairs, and conference table with chairs for 10, telephone, sink, microwave, and refrigerator.
- -Lockable cabinet available for secure storage of personal items if desired
- -Wi-Fi is available in all Theaters, Lobby, and Backstage Spaces



Green Room (Star Dressing is attached)



Experimental Theater-Can be used as alternate hospitality or dressing room space. For dressing room usage, partitions, tables, chairs, mirrors, and rugs are available.