

IRVING
ARTS
CENTER

Theater Technical Manual



Quick Reference Information

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Facilities Managed By:

Irving Arts Center,
City of Irving Department of Arts & Culture

Architect:

F&S Partners, Inc.

Rental Fees:

For more information, visit www.irvingartscenter.com

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SECTION ONE: CARPENTER HALL SPECIFICATIONS



HOUSE

Seating Capacity

Total seating	711	
	637	Main floor
	40	Balcony
	28	Box seats (7 per box)
	6	Wheelchair seating main floor: 4 back of house, 2 HL
Farthest seat from plaster	74' 4"	
Farthest seat from pit	55' 8"	
Nearest seat from plaster	21' 9"	
Nearest seat from pit	4' 1"	

STAGE

Proscenium

30' high X 60' wide
 Depth: Proscenium to back wall 49' 1"
 Depth: Front of stage to back wall 53' 0"

Centerline

To stage right wall 44' 4"
 To stage left wall 44' 4"

Wing Space

To SR Arbor cage 7' 0"
 To SL wall 11' 6"

Stage Floor

Tempered Masonite over plywood over wood sleepers. Floor is painted eggshell black. Stage screws and self-tapping screws are acceptable. NO NAILS PLEASE. Floors may be painted by user with only LATEX based paint (NO oil or enamel-based paint). However, it will be the responsibility of the USER to restore it to black IMMEDIATELY after strike, unless previous arrangements have been made with IAC staff (*Paint to be specified by Theatre Operations*). Vinyl dance floor is available upon request for an additional charge. Use of rosin may incur an additional cleaning charge.

SOFT GOODS INVENTORY

Main curtain and Valance, burgundy velour
 Main – 2 panels, 32'H X 37'W with vertical rise from fly floor located stage right.
 Traveler opens from stage floor located stage right.
 Valance – 12H x 68'W, adjustable trim

Material	Type	Qty	Size	Color
Velour	Main curtain	1 (2 panels)	32'H X 37'W	Burgundy
Velour	Valance	1	12'H X 70'W	Burgundy
Velour	Border	4	12'H X 70'W	Black
Velour	Legs	4 pair	32'H X 20'W	Black
Velour	Traveler	2 (2 panels ea.)	32'H X 37'W	Black
Muslin	Cyc	1	30'H X 60'W	Natural

FLYING

Fly System - Single purchase counterweight system with 36 line sets as follows:

17 House goods
 7 Electrics
 12 Empty
 Grid height 67' 10"
 Fly floor 11' 10" from stage left floor.
 First available Line Set from plaster 8' 10" (line 9)
 Last available Line Set from plaster 35' 2" (line 36)
 Cyclorama 40' 5" from plaster
 Cyc is constructed of seamless bleached muslin measuring 30' high X 60' wide.

LIGHTING

Road Box

- Stage left plug-in
- One 600A 3-phase, 5 wire disconnect box with Cam Loc (SL)
- One 100A 3-phase, 5 wire disconnect box (distributed for lighting or audio)
- One lighting transfer box (can interface with circuits 1-44, 20A, booth, catwalk, & side)

Light Console (Located HL at rear of house)

- ETC EOS Apex 20 with 10 fader motorized wing
- Computerized patch provides for the assignment of any combination of dimmers to a desired control channel.

Dimmers

- 276 2.4K 20A Stage pin/Edison circuit
- 1 6K 50A Stage pin/Edison circuit

Lighting Positions

On Stage:

1st Aux Electric (line 4)	4	2.4K	20A Circuits (drop box)
1st Electric (line 5)	48	2.4K	20A Circuits
2nd Electric (line 15)	44	2.4K	20A Circuits
2nd Aux Electric (line 17)	4	2.4K	20A Circuits (drop box)
3rd Electric (line 23)	40	2.4K	20A Circuits
4th Electric (line 29)	36	2.4K	20A Circuits
5th Electric (line 37)	12	2.4K	20A Circuits

4 Floor pockets each side	4	2.4K	20A Circuits (each)
4 Drop boxes each side	4	2.4K	20A Circuits (each)
Proscenium wall	3	2.4K	20A Circuits (each side)
Upstage wall	3	2.4K	20A Circuits (each side)
	1	6K	50A Circuits (each side)
Orchestra pit	3	2.4K	20A Circuits
	1	6K	50A Circuits

House:

Spot Booth	8	2.4K	20A Circuits
Catwalk	24	2.4K	20A Circuits
	1	6K	50A Circuits
Side fills	12	2.4K	20A Circuits

Note:

1. All circuits used for the house lighting system are relay modules
2. Drop box and floor pocket circuits are duplicated

Followspots

- Two (2) – Canto Astro 600 LED 3200K follow spots located inside the control booth.

LIGHTING INVENTORY

NOTE: House has some 3-pin connectors (stage pin). All others are Standard Edison.

INSTRUMENT	Wattage	Quantity
ETC Source 4 LED Series 3 Lustr X8 XDLT 19°	307 W	30
ETC ColorSource Spot V 19°	199 W	2
ETC ColorSource Spot V 26°	199 W	57
ETC ColorSource Spot V 36°	199 W	23
ETC ColorSource PAR Medium Oval	90 W	7
ETC ColorSource PAR Narrow Round	90 W	14
Vari-Lite VL800 Event Wash	230 W	36
Vari-Lite Coda Cyc LED	223 W	7
Elation Artiste Mondrian	1500 W	15

AUDIO

Sound Board: (Located rear of house @ center)

Yamaha CL5 Digital Console – Patching through Dante Controller

- 64 Digital mono inputs, 8 analog mono inputs
- 8 Stereo inputs
- 24 Mix buses
- 8 Matrix channels
- 16 DCAs
- Virtual effects and EQ rack: up to 8 simultaneous multi-effect processors; up to 16 simultaneous graphic EQ's.
- Dual power, internal and external supplies, with a battery backup.

4 On-stage monitor sends from sound board.

32 on-stage microphone inputs with an optional (up to) 32 more portable inputs via spare Yamaha RiO stage box.

Portable Yamaha Ri8/Ro8 IO combo.

Mac computer loaded with Q-Lab.

Tascam CD/multimedia player/recorder.

Marantz CD/multimedia player/recorder.

2 Martin Audio iKON iK81 – Eight-channel 10,000W Class D Power Performance Amplifiers with internal VU-NET processing and Dante

1 Martin Audio iKON iK42 – Four-channel 20,000W Class D Power Performance Amplifiers with internal VU-NET processing and Dante

Cerwin-Vega Prostag speakers for the house. Dual 15" 3-way Full Range 700 watts each. (2 per side)

2 Cerwin-Vega Prostag sub-woofers for the house. Ported 15" Subs 500 watts each.

6 Stacked JBL Vertec VT4887A (Bi-Amp) center array speakers 4000/900 watts each, with 1 VT4881A (passive) subwoofer 2000 watts flown above.

Powered hot spots downstage left and downstage right for program monitoring.

Video from FOH to stage left and stage right video monitors.

20 channels Shure ULXD wireless UHF microphones (stick or pack) in – G50 & H50 Bands Clear-Com system with wired units at each station as well as 5 wireless units

BACKSTAGE COMMUNICATIONS

The stage manager's console operates from stage left. It provides intercom communication from console to dressing rooms, rehearsal hall, greenroom, wardrobe room, and technical director's office. Headset communications link the control booth, fly rail, follow spot positions, and the director/designer stations in house. There are 24 locations in all and 5 wireless available.

DRESSING FACILITIES

- All dressing facilities are in the basement, one flight down via stage left stairway or backstage elevator.
- Two Chorus dressing rooms accommodate approximately 33 people each.
- Four private dressing rooms are scheduled upon availability.
- All dressing rooms include mirrors, make-up lights, overhead lighting, chairs, sinks, overhead cabinets, stage monitors, toilets, and showers.
- Rolling wardrobe racks are available upon request.
- Wardrobe room located in basement is equipped with washer, dryer, utility sink, and storage cabinets (shared by Dupree theater)
- Carpenter greenroom is in the basement with couches, chairs, adjustable lighting, and stage monitors.

ORCHESTRA FACILITIES

- Orchestra pit measures 55' wide X 13' 6" deep
- Programmed stops at 3' 6", 7' 0", & 12' 0" below stage level
- Accommodates up to 60 musicians depending on instrumentation
- Music stands, clip-on lights, and orchestra chairs are available as needed
- Orchestral Shell



FRONT OF HOUSE

- Lobby with concession area, benches, chairs, and box office.
- All areas are totally accessible to people with disabilities. These include entrances, seating, restrooms, water fountains, backstage, and basement (via elevator).
- Headset receivers, or personal PA receiver systems, are available upon request from the IAC house manager to assist individual audience members with hearing impairments.

HANG SCHEDULE

Line Set #	Use	To Plaster	Notes
FC	Fire Curtain	0' 3"	Pull Ring Activated
1	Valance	1' 4"	Adjustable
2	House Main	2' 2"	Guillotine or Travels
3	Portal Legs/Screen	2' 10"	¼ Track Pipe (adjustable)
4	1 st Aux Electric	3' 7"	Pipe Trim 24'
5	1 st Electric	4' 4"	Truss Trim 24'
7	Shell	6' 7"	
8	Legs	8' 2"	¼ Track Pipe (adjustable)
9	Empty	8' 10"	
10	Empty	9' 7"	
11	Empty	10' 4"	
13	Border	11' 10"	
14	Legs	12' 8"	¼ Track Pipe (adjustable)
15	2 nd Electric	13' 5"	Truss Trim 27'
17	2 nd Aux Electric	14' 10"	Pipe Trim 27'
18	Shell	17' 2"	
19	Empty	17' 10"	
21	Border	19' 5"	
22	Traveler	20' 1"	Full Track Pipe
23	3 rd Electric	20' 10"	Truss Trim 27'
24	Empty	22' 4"	
25	Empty	23' 1"	
26	Empty	23' 10"	
27	Border	26' 1"	
28	Shell	26' 10"	
29	4 th Electric	28' 4"	Ladder Trim 27'
30	Legs	29' 10"	
31	Empty	30' 7"	
32	Empty	31' 4"	
33	Empty	32' 2"	
35	Empty	34' 4"	
36	Empty	35' 2"	
37	5 th Electric	35' 10"	Ladder Trim 32'
38	Star Curtain	37' 4"	
39	Traveler	38' 10"	Full Track Pipe
40	Cyclorama	40' 5"	

Note: Standard battens are approximately 68' long.

ALL FLYING AND LOADING MUST BE PERFORMED BY PROPERLY QUALIFIED PERSONNEL.

SECTION TWO: DUPREE THEATER SPECIFICATIONS



HOUSE

Seating Capacity

Total seating	255	
	251	Continental seating
	6	Wheelchair seating: 2 each, mid house right and left
Farthest seat from plaster	47' 0"	
Farthest seat from pit	35' 6"	
Nearest seat from plaster	15' 0"	
Nearest seat from pit	3' 0"	

STAGE

Proscenium

25' high X 39' wide	
Depth: Proscenium to back wall	40' 6"
Depth: Front of stage to back wall	44' 10"

Centerline

To stage right wall	40' 10"
To stage left wall	37' 8"

Wing Space

To stage right wall	18' 10"
To stage left wall	13' 8"

Stage Floor

Tempered Masonite over plywood over wood sleepers. Floor is painted eggshell black. Stage screws and self-tapping screws are acceptable. NO NAILS PLEASE. Floors may be painted by user with only LATEX based paint (NO oil or enamel-based paint). However, it will be the responsibility of the USER to restore it to black IMMEDIATELY after strike, unless previous arrangements have been made with IAC staff (*Paint to be specified by Theatre Operations*). Vinyl dance floor is available upon request for an additional charge. Use of rosin may incur an additional cleaning charge.

SOFT GOODS INVENTORY

Main curtain and Valance, banker's grey velour
 Main – 2 panels, 27'H X 29'W with vertical rise from fly floor located stage left.
 Traveler opens from stage floor located stage left.
 Valance – 12'H x 52'W, adjustable trim

Material	Type	Qty	Size	Color
Velour	Main curtain	1 (2 panels)	32'H X 32'W	Banker's Grey
Velour	Valance	1	12'H X 60'W	Banker's Grey
Velour	Border	5	12'H X 70'W	Black
Velour	Legs	3 pair	32'H X 20'W	Black
Velour	Traveler	2 (2panels ea.)	32'H X 32'W	Black
Muslin	Cyc	1	30'H X 60'W	Natural

FLYING

Fly System - Single purchase counterweight system with 31 line sets as follows:

11	House goods
7	Electrics
13	Empty
Grid height	60' 0"
Fly floor	11' 5" from stage left floor.
First available Line Set from plaster	3' 7" (line 4)
Last available Line Set from plaster	31' 4" (line 33)
Cyclorama	34' 4" from plaster

Cyc is constructed of seamless bleached muslin measuring 30' high X 60' wide.

LIGHTING

Road Box

Stage right plug-in
 One 200A 3-phase, 5 wire disconnect box With Cam Loc (SR)

Light Console (Located in control booth above rear of house)

ETC EOS Apex 20 with 10 fader motorized wing
 Computerized patch provides for the assignment of any combination of dimmers to a desired control channel.

Dimmers

206 2.4K 20A Stage/Edison pin circuit
 1 6K 50A Stage/Edison pin circuit

Lighting Positions

On Stage:

1st Electric (line 5)	33	2.4K	20A Circuits
1st Aux Electric (line 6)	4	2.4K	20A Circuits (drop box)
2nd Electric (line 14)	31	2.4K	20A Circuits
2nd Aux Electric (line 15)	4	2.4K	20A Circuits (drop box)
3rd Electric (line 22)	27	2.4K	20A Circuits
3rd Aux Electric (line 23)	4	2.4K	20A Circuits (drop box)
4th Electric (line 28)	30	2.4K	20A Circuits

3 Floor pockets each side	4	2.4K	20A Circuits (each)
3 Drop boxes each side	4	2.4K	20A Circuits (each)
Proscenium wall	3	2.4K	20A Circuits
Upstage wall	3	2.4K	20A Circuits
	1	6K	50A Circuits
Orchestra pit	3	2.4K	20A Circuits
	1	6K	50A Circuits

House:

Spot Booth	4	2.4K	20A Circuits
Catwalk	24	2.4K	20A Circuits
	1	6K	50A Circuits
Side fills	12	2.4K	20A Circuits

Note:

1. All circuits used for the house lighting system are relay modules
2. Drop box and floor pocket circuits are duplicated

Followspots

Two (2) – Canto Astro 600 LED 3200K follow spots located inside the control booth.

LIGHTING INVENTORY

NOTE: House has some 3-pin connectors (stage pin). All others are Standard Edison.

INSTRUMENT	Wattage	Quantity
ETC ColorSource Spot V 19°	199 W	22
ETC ColorSource Spot V 26°	199 W	55
ETC ColorSource Spot V 36°	199 W	23
ETC ColorSource PAR Medium Round	90 W	6
ETC ColorSource PAR Narrow Oval	90 W	12
Vari-Lite VL800 Event Wash	230 W	23
Vari-Lite Coda Cyc LED	223 W	5
Elation Artiste Mondrian	1500 W	15

AUDIO

Sound Board: (Located in the control booth above the rear of the house)

Yamaha CL5 Digital Console – Patching through Dante Controller

- 64 Digital mono inputs, 8 analog mono inputs
- 8 Stereo inputs
- 24 Mix buses
- 8 Matrix channels
- 16 DCAs
- Virtual effects and EQ rack: up to 8 simultaneous multi-effect processors; up to 16 simultaneous graphic EQ's.
- Dual power, internal and external supplies, with a battery backup.

4 On-stage monitor sends from sound board, powered by a Martin Audio VIA5004 Four-Channel 5000W Class D Amplifier.

32 on-stage microphone inputs with an optional (up to) 32 more portable inputs via spare Yamaha RiO stage box.

Portable Yamaha Ri8/Ro8 IO combo.

Mac computer loaded with Q-Lab.

Tascam CD/multimedia player/recorder.

Marantz CD/multimedia player/recorder.

Martin Audio iKON iK81 - Eight-channel 10,000W Class D Power Performance Amplifier with internal VU-NET processing and Dante

4 Martin Audio Blackline X15 – 15” High-Power Passive 2-Way Speakers (2 per side)

2 Martin Audio X118 – 18” High Performance Subwoofers (1 per side)

Powered hot spots downstage left and downstage right for program monitoring.

Video from FOH to stage left and stage right video monitors.

20 channels Shure ULXD wireless UHF microphones (stick or pack) in – G50 & H50 Bands Clear-Com system with wired units at each station as well as 5 wireless units

BACKSTAGE COMMUNICATIONS

The stage manager's console operates from stage right. It provides intercom communication from console to dressing rooms, rehearsal hall, greenroom, wardrobe room, and technical director's office. Headset communications link the control booth, fly rail, follow spot positions, and the director/designer stations in house. There are 24 locations in all and 4 wireless available.

DRESSING FACILITIES

- All dressing facilities are in the basement, one flight down via stage left stairway or backstage elevator.
- Two Chorus dressing rooms accommodate approximately 12 people each.
- Four private dressing rooms are scheduled upon availability.
- All dressing rooms include mirrors, make-up lights, overhead lighting, chairs, sinks, overhead cabinets, stage monitors, toilets, and showers.
- Rolling wardrobe racks are available upon request.
- Wardrobe room located in basement is equipped with washer, dryer, utility sink, and storage cabinets (shared by Carpenter Hall)
- Dupree greenroom is in the basement with couches, chairs, adjustable lighting, and stage monitors.

ORCHESTRA FACILITIES

- Orchestra pit measures 34' wide X 7' deep
- Programmed stops at 3' 6", 7' 0", & 12' 0" below stage level
- Accommodates up to 20 musicians depending on instrumentation
- Music stands, clip-on lights, and orchestra chairs are available as needed.

FRONT OF HOUSE

- Lobby with concession area, benches, chairs, and box office.
- All areas are totally accessible to people with disabilities. These include entrances, seating, restrooms, water fountains, backstage, and basement (via elevator).
- Headset receivers, or personal PA receiver systems, are available upon request from the IAC house manager to assist individual audience members with hearing impairments.

HANG SCHEDULE

Line Set #	Use	To Plaster	Notes
FC	Fire Curtain	0' 3"	Pull Ring Activated
1	Valance	1' 4"	Adjustable
2	House Main	2' 1"	Guillotine or Travels
4	Empty/screen	3' 7"	
5	1 st Electric	4' 4"	Truss Trim 24'
6	1 st Aux Electric	6' 7"	Pipe Trim 24'
8	Legs	8' 1"	
9	Empty	8' 10"	
10	Empty	9' 7"	
11	Empty	10' 4"	
12	Border	11' 1"	
13	Legs	11' 10"	
14	2 nd Electric	12' 7"	Truss Trim 27'
15	2 nd Aux Electric	14' 1"	Pipe Trim 27'
16	Empty	14' 10"	
17	Empty	16' 4"	
18	Empty	17' 1"	
19	Border	17' 10"	
20	Traveler	18' 7"	
22	3 rd Electric	20' 1"	Truss Trim 27'
23	3 rd Aux Electric	21' 7"	Pipe Trim 27'
24	Empty	22' 4"	
25	Empty	23' 1"	
26	Border	24' 7"	
27	Legs	25' 4"	
28	4 th Electric	26' 1"	Ladder Trim 27'
30	Empty	28' 4"	
31	Empty	29' 10"	
33	Empty	31' 4"	
35	Border	32' 10"	
36	Traveler	33' 7"	Full track Pipe
37	Cyclorama	33' 4"	

Note: Standard battens are approximately 60' long.

ALL FLYING AND LOADING MUST BE PERFORMED BY PROPERLY QUALIFIED PERSONNEL.

SECTION THREE: SHARED EQUIPMENT & FACILITIES

REHEARSAL HALL

- Located at stage level, accessible from backstage or lobbies
- Size: 69' x 39' (approximately). Suitable for orchestra or dance rehearsals.
- Equipped with cushioned floor, full length mirrors, and dimmable lighting.
- Upright, baby grand, and concert grand pianos available upon request.
 - Sojin Upright
 - 5' Steinway Model O
 - 7' Baldwin
 - 9' Steinway Model D
- Audio/Video stage monitor (local input also available)



SCENE SHOP

- Located backstage and easily accessible to both stages via automated WON doors measuring 16' high X 12' wide.
- Modestly equipped with stationary and hand power tools as well as an assortment of manual hand tools and equipment.
- Scheduling of the scene shop should be made well in advance through the IAC technical theater staff.



Loading Dock

- Access via Coker Street just east of Finley on the northwest corner of the building.
- Dock is equipped with one 50A service outlet, cable bay with pre-run cable to video positions in both theaters, lights, and dock plate.
- Shore Power available upon request (cables not provided).
- Loading door measurements – 10' high X 12' wide
- Dock height above ground level – 3' 8"
- Distance to Carpenter stage – 60'
- Distance to Dupree Stage – 70'



COMMON EQUIPMENT

Lighting Equipment

- Socapex cables in assorted lengths
- 5-pin DMX cables in assorted lengths
- 7 – ETC Source 4 LED Series 3 Lustr X8 XDLT 19°
- 6 – ETC XDLT Series 3 Barrel 14°
- 7 – ETC XDLT Series 3 Barrel 19°
- 10 – ETC XDLT Series 3 Barrel 26°
- 5 – ETC XDLT Series 3 Barrel 36°
- 49 – ETC ColorSource Spot V
- 8 – ETC EDLT Barrel 19°
- 12 – ETC EDLT Barrel 26°
- 91 – ETC EDLT Barrel 36°
- 10 – ETC Source 4 Barrel 10°
- 17 – ETC Source 4 Barrel 19°
- 29 – ETC Source 4 Barrel 26°
- 31 – ETC Source 4 Barrel 36°
- 9 – ETC Source 4 Barrel 50°
- 7 – ETC ColorSource PAR (various lenses)
- 19 – Vari-Lite VL800 Event Wash
- 8 – Elation Artiste Mondrian
- 7 – Vari-Lite Coda Cyc LED
- 17 – Vari-Lite Aurora LED 12 (with lens Kit)

Lighting Accessories

- 11 – GOBO Size A holder (Source 4)
- 16 – GOBO Size B holder (Source 4)
- 2 – Glass GOBO holder (Source 4)
- 2 – Dual Rosco GOBO rotator
- 18 – Iris (Source 4)
- 8 – 10' Lighting boom W/50lbs base
- 4 – 12' Lighting boom W/50lbs base
- 4 – 5' Lighting ladder with mega clamp
- 10 – 8' Lighting ladder with mega clamp

Miscellaneous Equipment

- 36 – Altman Scenery bumpers
- 4 – MDG MAX 5000 water based fog generator
- 2 – MDG Atmospheres water based haze generator
- 2 – Chauvet DJ Cumulus low-lying fog generator
- 1 – Portable ETC Sensor 3 racks with 48 dimmers each
- 8'H x 10'W pipe and drape – (260 linear feet available)
- 2 – Vinyl dance floors
- 4 – Bi-fold quick change walls with mirror
- 2 – Lecterns (Not Matching)
- 8 – 4'x8' Risers with skirting (optional 8" or 16" rise OR 3 risers capable of a 24" rise)
- 1 – NEC PA550W Digital projector – 5500 lumens (includes short and long throw lens)
- 1 – NEC PA571W Digital Projector – 5700 lumens (includes short and long throw lens)
- 1 – Optoma ZU920T Digital Projector – 9800 lumens (1.25:1 – 2:1 zoom lens)
- 1 – Optoma ZU920TST Digital Projector – 9800 lumens (.65:1 – .75:1 zoom lens)
- 1 – Vivitek DU9800Z Laser Projector – 18000 lumens (includes short and long throw lenses)
- 1 – 7.5' x 10' projection screen (front/rear projection)
- 2 – 19' x 12' projection screens (front/rear projection)
- 2 – 60' x 30' white sharks-tooth scrim
- 2 – 60' x 30' black sharks-tooth scrim
- 8 – 10'L 12"x12" box truss w/ bases
- 8 – CM Lodestar 1/2-ton rigging motors
- 2 – Samsung 75" HDTV monitors
- 8 – Natural finish wooden stools
- 2 – Black wooden stools

Percussion Equipment

- 1ea – Vibraphone
- 1ea – Xylophone
- 1ea – Glockenspiel on Stand
- 1ea - Orchestra Bells (Chimes) – Musser
- 1ea - Orchestra Bells (Chimes) – Degan
- 2ea - 23" Tympani (Yamaha)
- 2ea - 26" Tympani (Yamaha)
- 2ea - 29" Tympani (Yamaha)
- 2ea - 32" Tympani (Yamaha)
- 2ea - 36" Bass Drum w/ stand (Pearl)
- 1ea - 36" Tam
- 1ea - 28" Tam
- 2pr - 18" Crash Cymbals

Pianos

- 9' Steinway Concert Grand Model "D"
- 7' Baldwin Grand
- 5'6" Steinway Model "O" (Baby Grand)
- Conover Cable – Upright
- Sojin – Upright



****Rental & Tuning Fees Apply***

Audio equipment

- 6 – Apogee SSM front fill speakers. 8” speakers with horn full range (passive 200w each)
- 6 – JBL SRX712m monitor wedges (bi-amp/passive 800w each)
- 16 – JBL STX812m monitor wedges (bi-amp/passive 800w each)
- 4 – QSC CP12 Multipurpose Powered Loudspeakers
- 2 – Yamaha BR15m monitor wedges (passive 400w each)
- 8 – Whirlwind passive direct boxes
- 8 – Behringer active direct boxes
- 4 – Galaxy passive hot spots
- 1 – Galaxy active hot spot
- 3 – Behringer active hot spots
- 1 – Earthworks PM-40 dual piano microphone
- 1 – CAD drum mic kit
- 2 – Shure Beta 52A kick mic
- 9 – Shure Beta 98Amp clip on tom mics
- 10 – Shure SM 58 dynamic wired microphones
- 10 – Shure SM 57 dynamic wired microphones
- 4 – Shure Beta 87A condenser vocal microphone
- Countryman B3 lavalier microphones (Standard and Low sens) – Beige, Black, Tan and Cocoa available
- 10 – KSM137 condenser microphones
- 4 – Shure Beta 181 condenser microphones (omni, bi-directional, cardioid, and super-cardioid heads)
- 12 – Shure PGA181 condenser microphones
- 4 – Sennheiser – MD421 II cardioid microphones
- 2 – Electrovoice – EV RE20 cardioid microphone
- 2 – Shure Beta 91A boundary microphones
- 8 – Audio Technica – U851R boundary microphones
- 4 – Audio Technica – AT871R boundary microphones
- 3 – Crown – PCC-160 boundary microphones
- 2 – 6’ drum shields
- 1 – Martin Audio BlacklineX XP118 18" Powered Portable Subwoofer

Portable Audio Rack

- Allen & Heath SQ5 Digital Console with Dante I/O Card
 - 48 Input Channels
 - 16 Onboard Preamps
 - 12 Stereo Mixes + L/R
 - 3 Stereo Matrix
 - 8 Stereo FX + Dedicated Returns
 - 32 x 32 USB Audio Interface
- 24 Channels Shure ULXD wireless microphones in bands G50 and H50 (stick and pack)

Monitor Rig

Yamaha CL5 Digital Console – Patching through Dante Controller

- 64 Digital mono inputs, 8 analog mono inputs
- 8 Stereo inputs
- 24 Mix buses
- 8 Matrix channels
- 16 DCAs
- Virtual effects and EQ rack: up to 8 simultaneous multi-effect processors; up to 16 simultaneous graphic EQ's.
- Dual power, internal and external supplies, with a battery backup.

4 Crown DCi 4|1250DA amplifiers (16 channels)

In-Ear Monitor Rack

4 – Shure P10T Dual Wireless Transmitters

8 – Shure P10R+ Wireless Receivers

1 – Tascam ML-16D 16-channel Analog/Dante Converter

All equipment is available on a first come first serve basis and is scheduled through the Event Information Form and the Use Agreement.

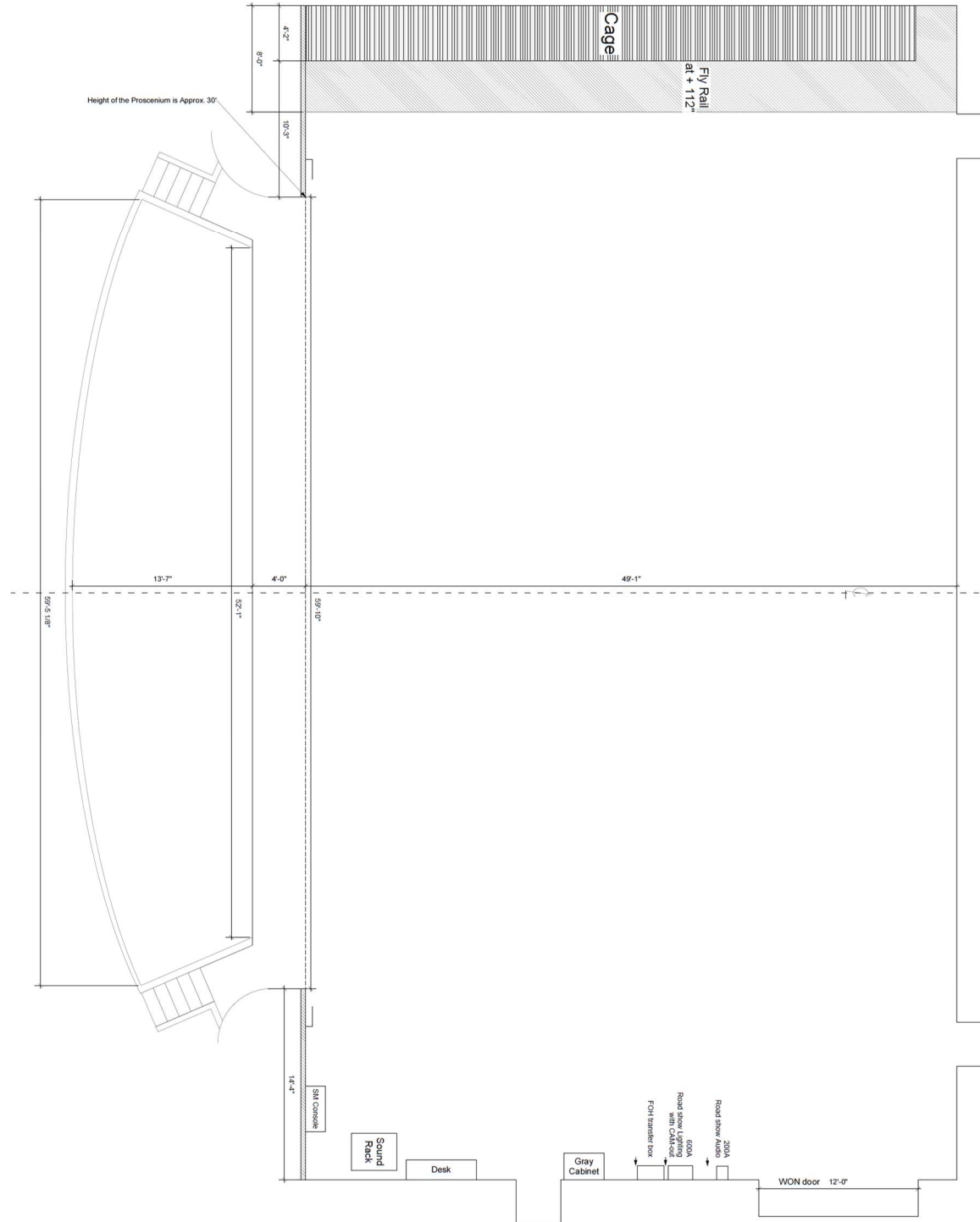
Internet Access

- WiFi Coverage throughout facility Network Name: “CityofIrving-Guest”
- Wired public internet available in select locations

SECTION FOUR: GROUND PLANS

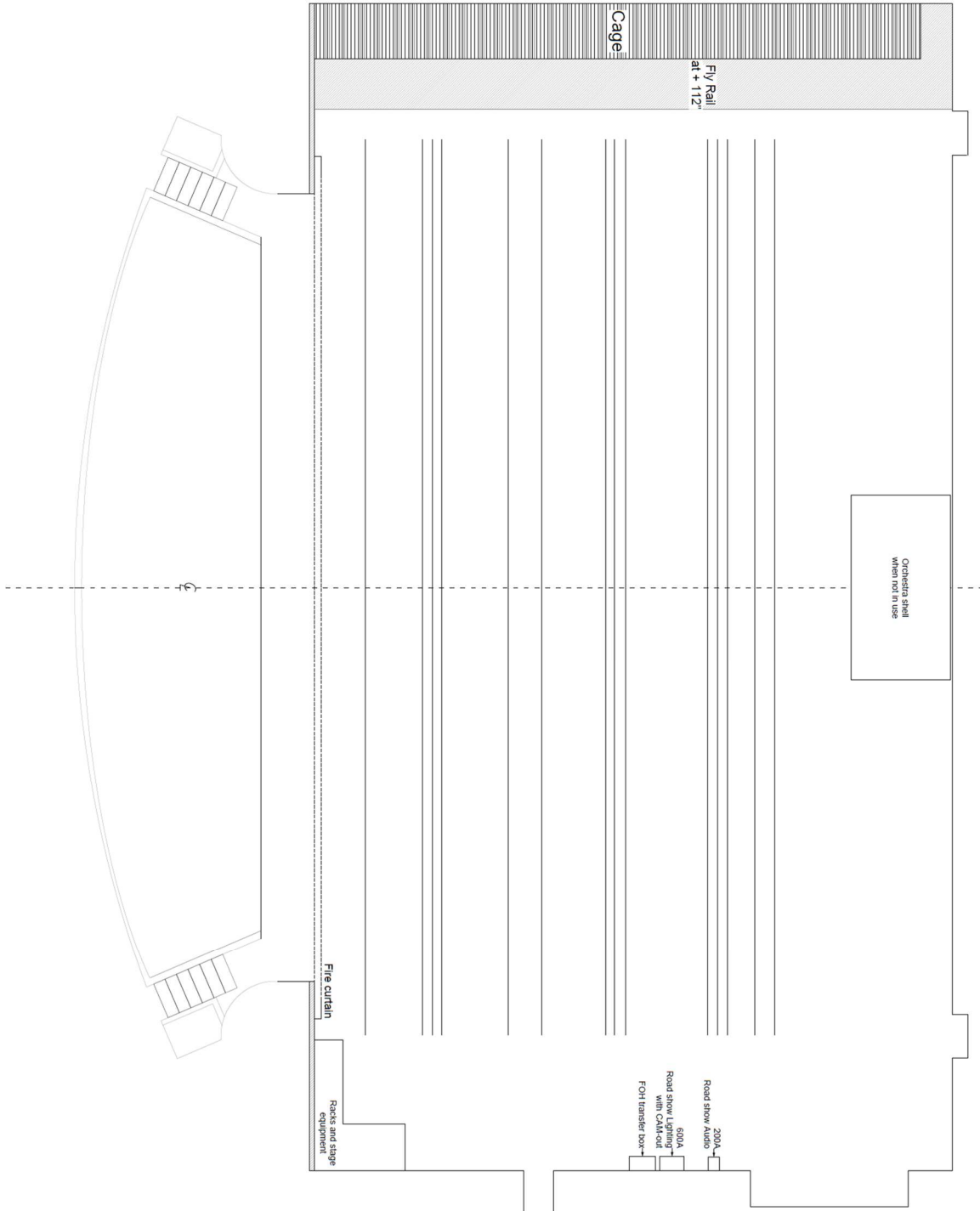
CARPENTER STAGE

Stage Dimensions



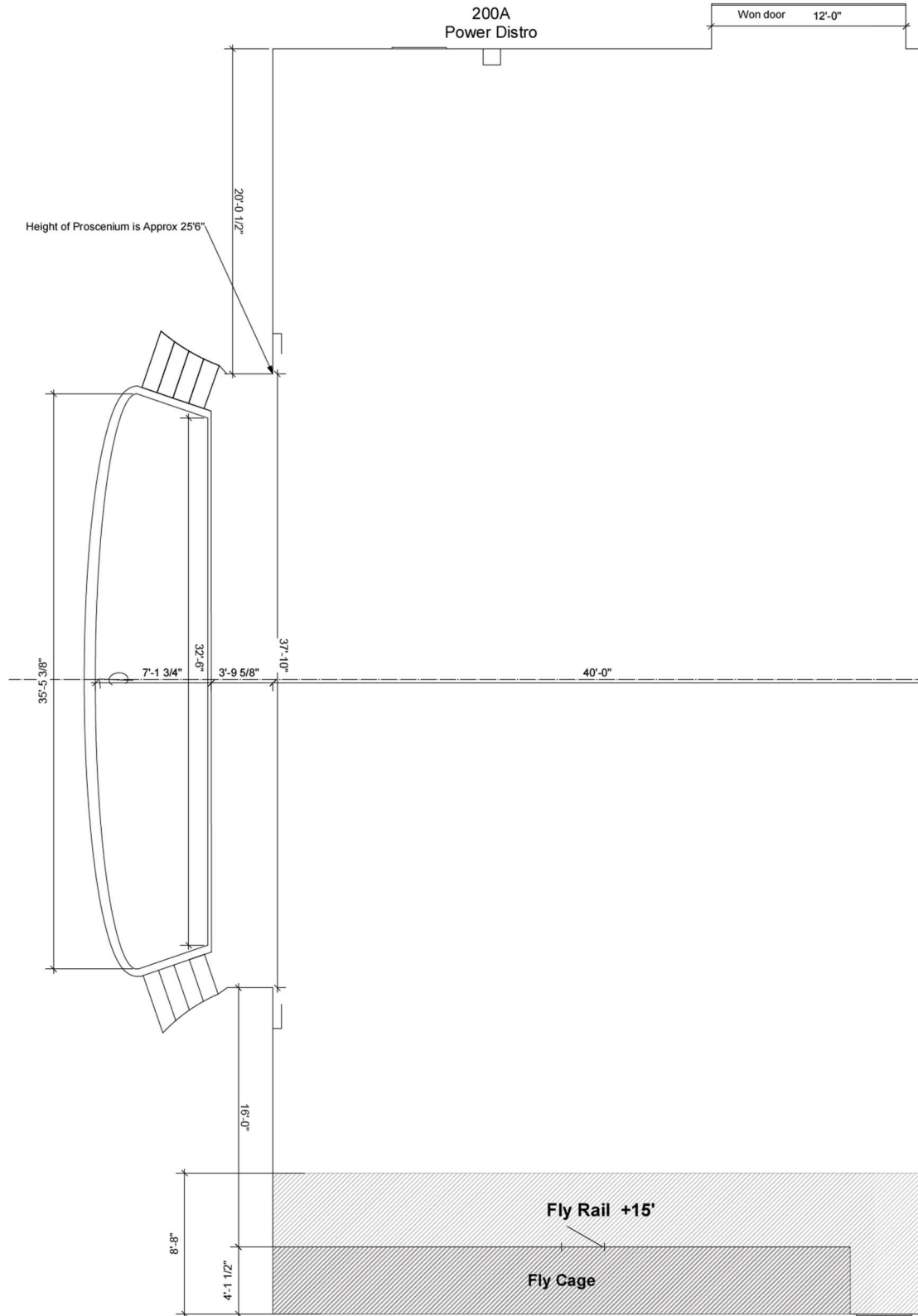
Carpenter Stage Empty Lines List

- 405'-Line set #40 Cycdrama
- 38'-10"-Line set #39 Rear Traver
- 37'-4"-Line set #38 Star Curtain
- 35'-10"-Line set #37 5th EL
- 34'-11"-Line set #36 Empty
- 33'-5"-Line set #35 Empty
- 31'-1"-Line set #33 Empty
- 29'-7"-Line set #32 Empty
- 29'-11"-Line set #31 Legs
- 28'-3"-Line set #29 4th EL Under
- 26'-9"-Line set #28 Shell
- 25'-9"-Line set #27 Border
- 23'-7"-Line set #26 Empty
- 22'-9"-Line set #25 Empty
- 22'-1"-Line set #24 Empty
- 20'-8"-Line set #23 3rd EL Truss
- 19'-5"-Line set #22 1st EL Truss
- 19'-5"-Line set #21 Border
- 17'-3"-Line set #19 Empty
- 16'-9"-Line set #18 Shell
- 14'-8"-Line set #17 Empty
- 13'-0"-Line set #15 2nd EL Truss
- 12'-1"-Line set #14 Legs
- 11'-3"-Line set #13 Border
- 9'-8"-Line set #11 Empty
- 8'-11"-Line set #10 Empty
- 7'-8"-Line set #8 Legs
- 6'-2"-Line set #7 Shell
- 4'-0"-Line set #5 1st EL Truss
- 3'-10"-Line set #4 Empty
- 2'-10"-Line set #3 Portal legs
- 2'-2"-Line set #2 House Main
- 1'-4"-Line set #1 Vanance
- 3'-Fire Curtain

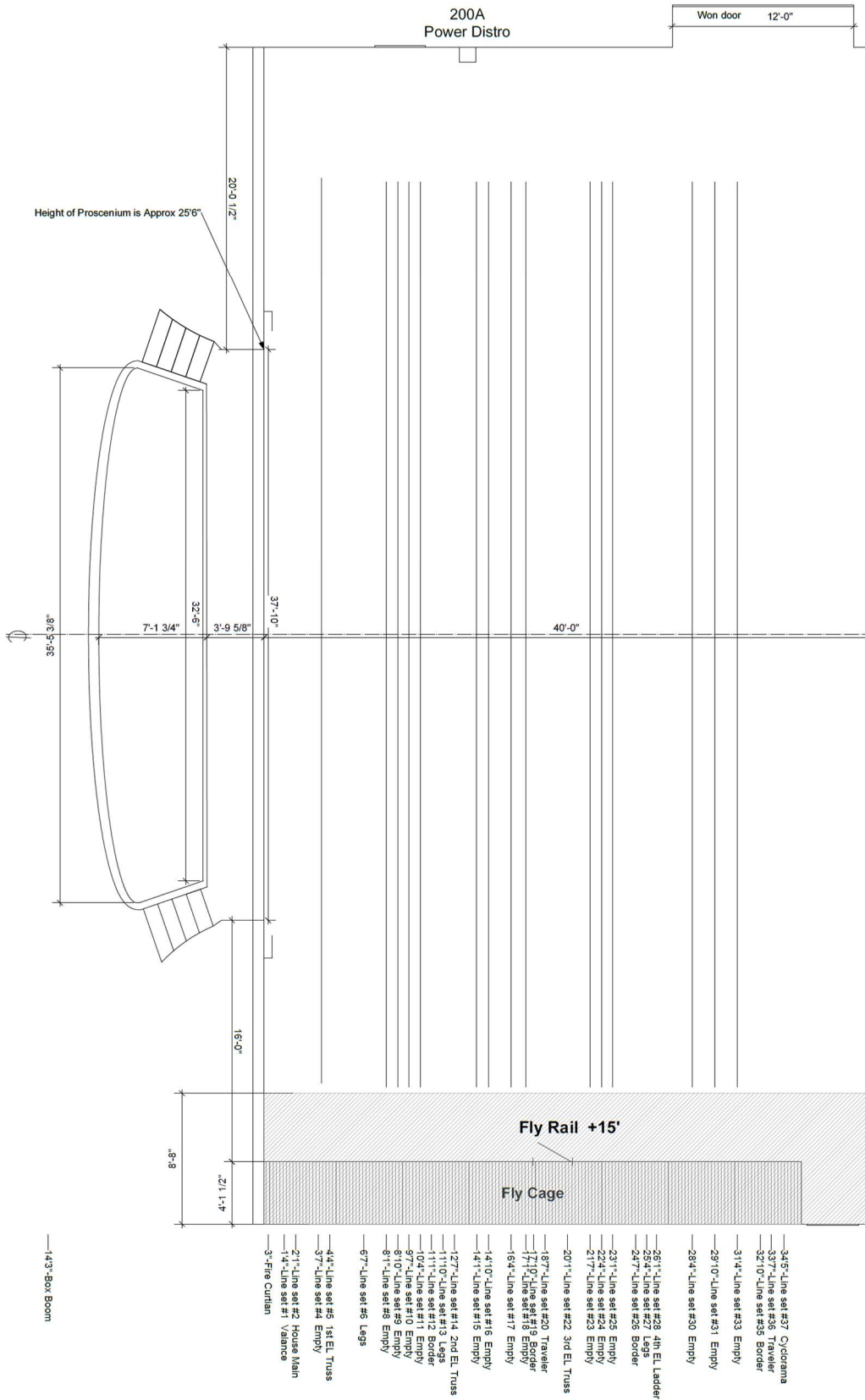


DUPREE THEATER

Stage Dimensions

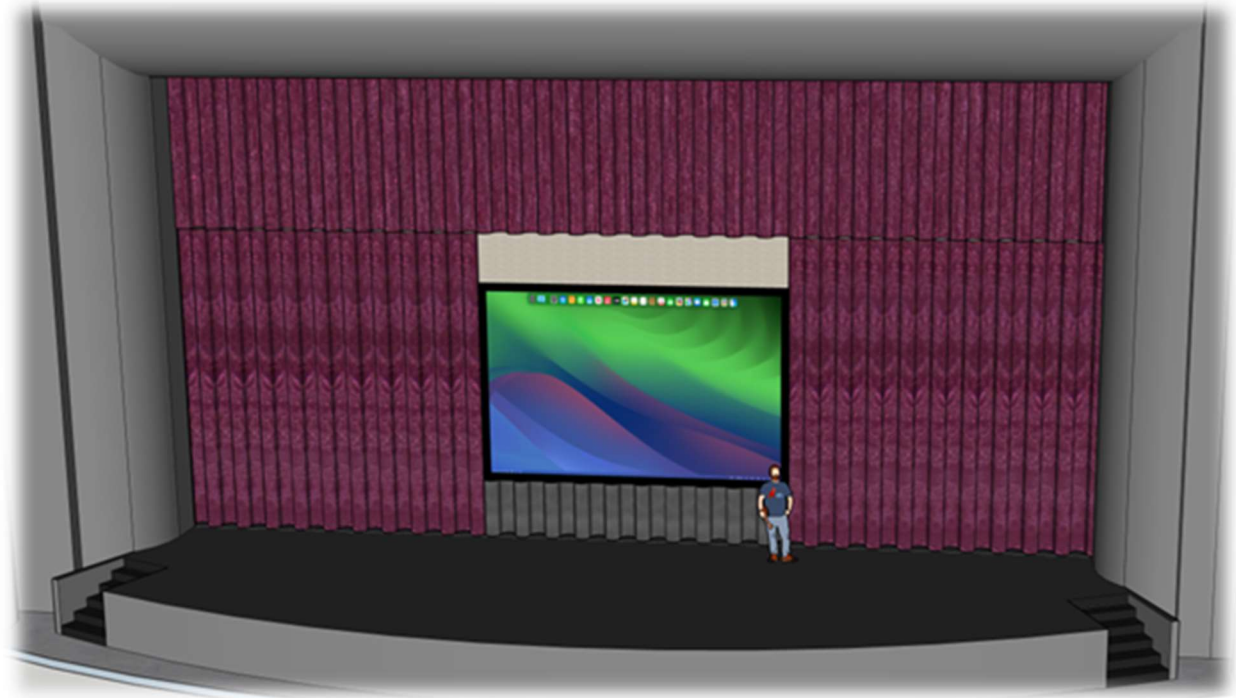


Dupree Stage Empty Lines List



SECTION FIVE: PROJECTOR OPTIONS

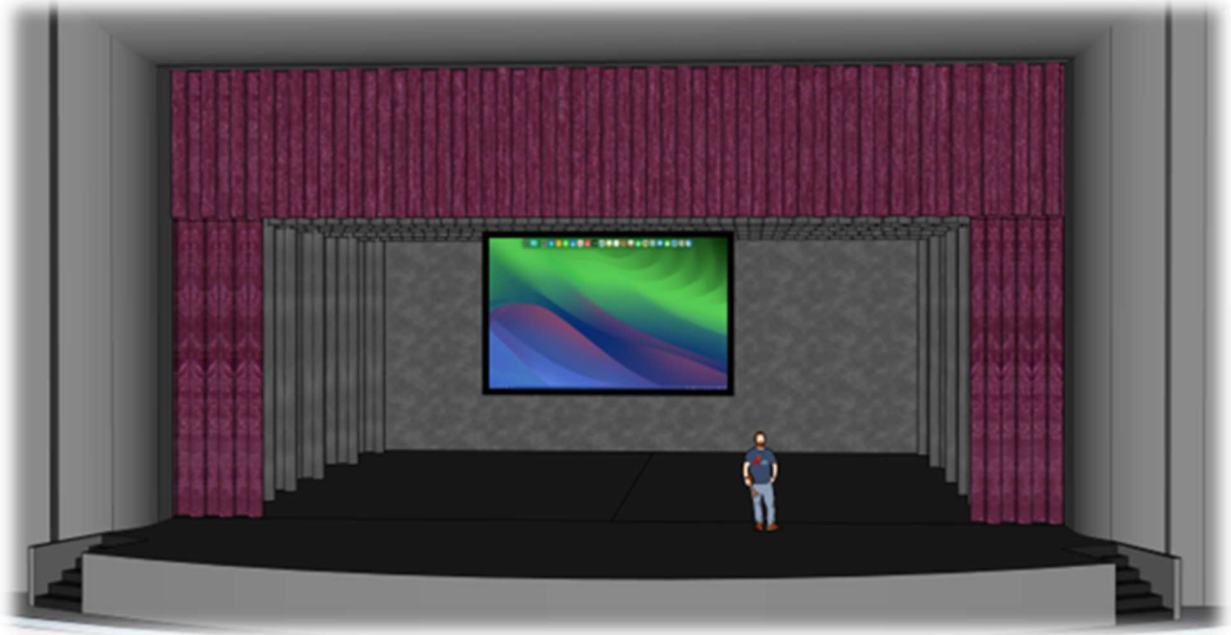
SCREEN AT MAIN CURTAIN



The screen can be hung at the main and projected from either the front or rear of the screen with any of our projector options. This works for events where everything will happen in front of the main curtain and for pre-show videos for larger events. Requires 1 hour of set up and 2 crew. Compatible projectors.

- NEC 5600/5700 lumens
- Optoma 9800 lumens
- Vivitek 18000 lumens

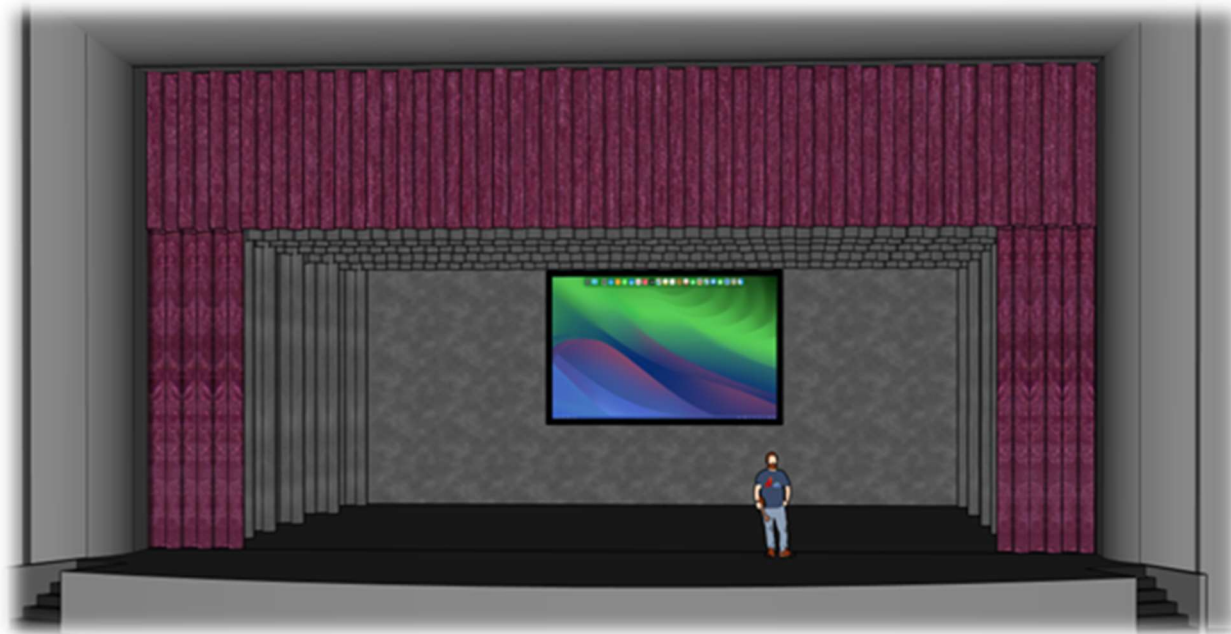
SCREEN AT MID-STAGE (ANY AVAILABLE BATTEN)



The screen can be hung at the mid-traveler (or other available batten) and projected from either the front or rear of the screen. Choice of screen hang location may impact whether projection can be from the front or the back. This works for events where everything will happen toward the front half of the stage. Requires 1 hour of set up and 2 crew. Compatible projectors.

- NEC 5600/5700 lumens (NOTE: Image brightness competes with stage lighting)
- Optoma 9800 lumens
- Vivitek 18000 lumens

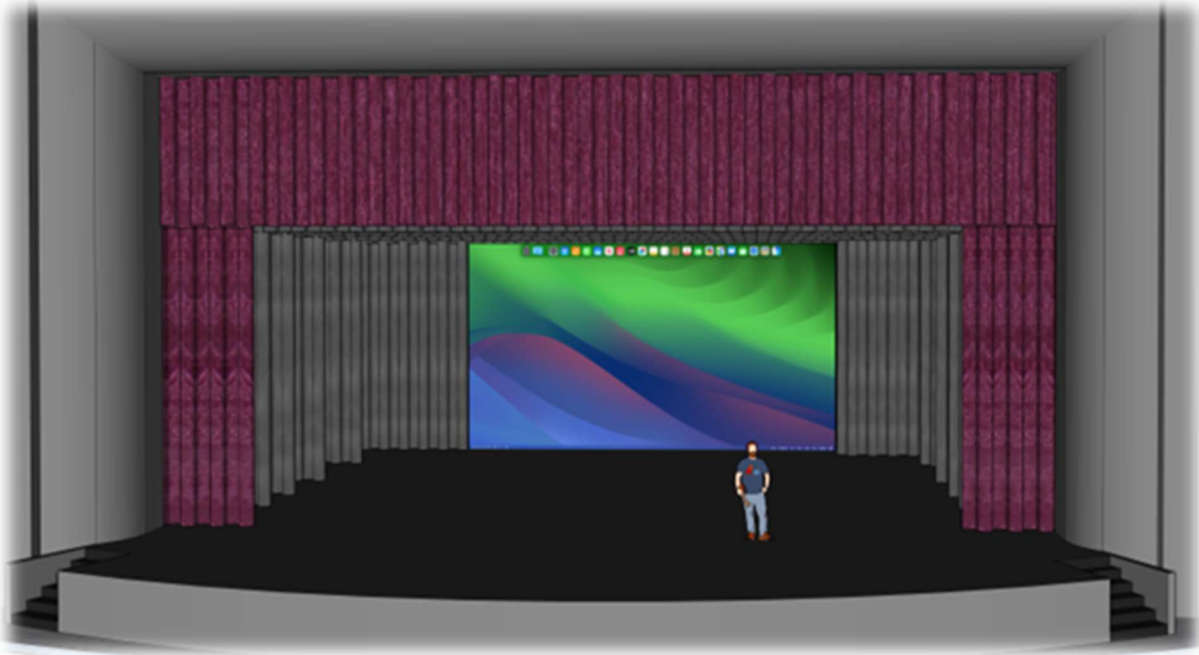
SCREEN AT REAR OF STAGE



The screen can be hung at the last available batten (Lineset 36) and projected from the front. This works for most larger events that will be utilizing the entirety of the stage. Behind the screen you have the option of the white cyclorama, the black traveler, or the fiberoptic star curtain (Carpenter only). Requires 1 hour of set up and 2 crew. Compatible projectors.

- NEC 5600/5700 lumens (NOTE: Image brightness competes with stage lighting)
- Optoma 9800 lumens long throw (ZU920T Only)
- Vivitek 18000 lumens

PROJECTION ON FULL CYC CURTAIN



The image is projected as large as possible onto the white cyclorama at the rear of the stage using front projection. Requires 1 hour of set up and 2 crew. Compatible projectors.

- NEC 5600/5700 lumens (NOTE: Image brightness competes with stage lighting)
 - Carpenter – Maximum Image 35' to 45' depending on hang location
 - Dupree – Maximum Image 30' to 37' depending on hang location
- Optoma 9800 lumens short throw (ZU920TST Only)
 - Carpenter – Maximum Image 40' to 50' depending on hang location
 - Dupree – Maximum Image 38' to 4' depending on hang location
- Vivitek 18000 lumens
 - Carpenter – Maximum Image 34' to 40' depending on hang location
 - Dupree – Maximum Image 27' to 33' depending on hang location

SECTION SIX: PYROTECHNICS & SPECIAL EFFECTS

PYROTECHNICS

The use of any pyrotechnics on stage must be permitted by the City of Irving Fire Marshal. Permit form is available from the Fire Marshals' Office. No open flame is allowed on stage. All candles must be in votives or glass hurricanes. The use of candles other than those listed will require the Fire Marshal's approval.

Permission shall be obtained from the Irving Arts Center Technical and Operations Managers before any on stage use of fire or explosives. This includes smoking materials on stage and pyrotechnics effects.

A Texas State Licensed Pyro Technician shall be present to supervise the handling, loading, use, and storage of such materials. Credentials must be verified by Arts Center staff prior to load-in. A City of Irving Fire Marshal will be present whenever fire is used (client is responsible for booking and any associated costs).

A stagehand with the proper fire extinguisher shall be in the wings, extinguisher in hand, during the entire time fire is present. The stagehand may not have any other duties while performing their pyrotechnics tasks. Example: you cannot detonate a flash pot and pull the curtain or move scenery. Their attention must remain on the fire.

An appropriate receiver shall be provided for extinguishing the material when it comes off stage. The receiver should also include a road case or other credited holder to go into. Examples would be a metal container with a tight-fitting lid or a covered ashtray for smoking...

The client must demonstrate and rehearse the effect before the show to the satisfaction of the Irving Arts Center Staff.

The permission to use the effect can be terminated at any time the Arts Center Staff finds the situation dangerous.

FOG & HAZE

Fog Machines

Fog machines produce a thick, visible fog that can add a spooky or mysterious atmosphere to any event. They work by heating up a special fluid, which then vaporizes into a cloud of fog when it comes into contact with the air. The fog is usually white or grey and can be seen floating through the air, creating a dramatic effect.

One of the biggest advantages of fog machines is their versatility. Fog machines can create an immersive atmosphere that transports the audience to another world. They can also be used to create a sense of mystery or suspense.

However, fog machines can also have some disadvantages. For one thing, the fog can be quite thick, which can make it difficult for performers or audience members to see what's going on.



Haze Machines

Haze machines, on the other hand, produce a much finer mist that is almost invisible to the naked eye. They work by forcing a fluid through a heating element, which then vaporizes into a cloud of tiny particles that hang in the air. The haze is usually white or translucent and can create a soft, dreamy atmosphere.

One of the biggest advantages of haze machines is their subtlety. Because the haze is so fine, it can create a sense of depth and dimensionality without being overpowering. Haze machines are often used in concerts or other live events to enhance the lighting effects, creating a soft glow that highlights the performers or stage.

However, haze machines also have some disadvantages. Because the haze is so fine, it can be difficult to control the spread of the mist. This can make it difficult to create a consistent effect throughout a large space. Additionally, haze machines are not as versatile as fog machines and may not be appropriate for certain types of events.

Low-Lying Fog Machines

Low foggers are a subsection of fog machines that use cooling methods instead of heating to create their effect. So instead of rising, the fog hugs the ground. This can create a carpet of fog and is great for specific effects.



FIREARMS

- Only non-firing replicas and blank-firing replicas (blank guns) are permitted.
- No firearm replica may be used that is capable of firing projectiles in any form.
- There will be no use of blanks, caps, or any other explosive device.
- Any and all gunshots must be accomplished through the use of sound effects.
- If sound effects are used, notice must be given to the IAC Box Office prior to tickets being placed on sale and a notice placed in the program, lobby, at box office and on the website.
- Weapon replicas must be locked away at all times between performances by the Stage manager who will control the key.
- A professional armorer with credentials approved by IAC must inspect the weapon prior to each rehearsal and performance during which the prop weapon is in use.
- While the prop weapon is in use, the user should never point the prop weapon at anyone or themselves. While staging, never aim a weapon directly at the face, head, or body of a performer or directly at audience members.

SECTION SIX: FACILITY MAP

