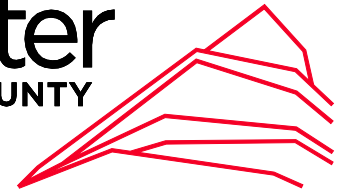


Adrienne Arsht Center

FOR THE PERFORMING ARTS OF MIAMI-DADE COUNTY

Rev.03.24.11



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KNIGHT CONCERT HALL

Technical Specifications



Telephone Information

Main:	786-468-2000
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Production

Director of Production:	Daniel Alzuri	786-468-2302
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Technical Directors:	Andres J. Puigbo	786-468-2308
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	Michael Matthews	786-468-2291
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Assistant Technical Director:	Melissa Santiago	786-468-2301
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Production Fax:		786-468-2004

Technical Staff

Head Carpenter:	Fred Schwendel	786-468-2411
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Head Electrician:	Tony Tur	786-468-2412
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Head Audio:	Michael Feldman	786-468-2413
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KNIGHT CONCERT HALL

The Knight Concert Hall was designed to be a room within a room, within a building. This design, along with isolation channels throughout the building assures the hall is completely isolated from ambient sound and vibration. The Hall is closed off from the outer reverb chamber by large doors which can be adjusted to control the dynamics of the room.

The stage is in the shape of a shallow half circle with a mean radius of 44'. There are two lifts. The inner, the piano lift, is an 18' wide by 9' deep ellipse evenly inset between the stage and the outer pit. The area of the outer Orchestra Pit measures 63'-10" wide by 8'-1" deep at center and increases to 13' deep offstage.

Please reference: [Concert Hall Ground Plan](#) or the image on page 1.

Suspended above the stage is an acoustical canopy in three parts. Each section moves independently to further tune the hall. The preset positions are designed for the specific nature of the performance. The canopy also houses 152 VL1000T and 18 VL1000TI which comprise the vast majority of the hall's concert lighting.

Loading Dock

The loading dock is located on [N.E. 13th street between Biscayne Blvd. and N. Bayshore Drive](#). The dock has two bays and can accommodate two full size trailers. Dock loads-in off stage left, deck level. Backstage head clearance is 6'-9". Anything going onto the concert hall stage must clear 6'-9" standing or laying.

Seating

The Knight Concert Hall will have a seating capacity of 2,166 distributed among an orchestra level and three tiers; including 200 choral bench seats located up-stage that may be used for patron seating.

Knights Hall Seating Breakdown

95	Orchestra Pit (if not in use)
24	Full Sound Mix Pos. (If not in use)
	Reduced Sound mix position (16 seats)
426	Orchestra
16	Orchestra Boxes Left and Right
432	Orchestra Circle
56	First Tier Boxes
94	First Tier Gallery
256	Second Tier Fixed Seats
78	Second Tier
441	Third Tier Fixed Seats
48	Third Tier
1966	Total
138	Fixed Choral seats
72	Choral Wagon seating
2166	Grand Total

Knight Concert Hall Other Spaces

Concert Hall Event Space	Sq. Ft.	Capacity
Joyce and M. Anthony Burns Green Room	850	89
Ryder System, Inc. Upper & Lower Lobby	3,165	330
Mrs. Paul J. Cejas Patrons Salon	1,326	140
1 st Tier Lobby	2,330	250

Concert Hall Green Room:

Dimensions: 25' 0" D x 34' 0" W (estimate based on irregular walls)

Square footage: 850

Concert Hall Donor Lounge:

Dimensions: 39' 0" D x 34' 0" W (estimate based on irregular walls)

Square footage: 1,326

Knight Concert Hall Dressing Rooms

Please refer to [Dressing Room](#) Schedule for assignment

- 1- Conductor dressing room with private sink, toilet and shower.
- 5 - Soloist dressing rooms with private sink, toilet and shower.
- 2 - Large Men's dressing rooms with sinks, toilets and showers.
- 2 - Large Women's dressing rooms with sinks, toilets and showers.
 - 1- Performers lounge.
 - 2- Visiting Orchestra office.

Knight Concert Hall Stage information

The Knight Concert Hall stage has two staging elements that can be configured to provide the best use of space and acoustic reinforcement. The first is an [Orchestra Riser Palette](#) which can be deployed to create a multi tiered playing space, adjustable to a variety of configurations according to the needs of the orchestra. The second is a removable [Choral Wagon](#) ([detail drawing](#)) positioned along the back curvature of the stage to create a more intimate playing area. Both architectural elements are time and labor intensive to reconfigure. **Any changes to the positioning or configuration of these elements must be discussed ahead of time and taken into consideration in both production schedule and budget.**

*NOTE: All measurements are approximate until actual survey.
Auditorium is symmetrical about centerline.*

Stage depth:	44' -6"
Stage width:	79'
Piano Lift:	18W'x9'D (elliptical)
Pit size large configuration	63'13" W x 13'D
DCS to Follow Spot Booth:	117'
DCS to Projection Booth:	100'
DCS to Sound and Light Booth	104'4"
DCS to FOH lighting Cove at center	97'10"
DCS to FOH lighting Cove near	88'10"
Stage elevation from orchestra floor	3'6"
House mix positions to stage:	66'6"
Backstage Clearance	6'9"

Knight Concert Hall Audio Information

Mix Positions:

- House Mix Position: The FOH sound mix position is 8'3" deep x 16' wide (8'3" d X 8'6" reduced) and located 66'-6" from plaster line.

Sound Control Room

Acoustically isolated room containing recording, playback, audio console, loudspeaker array signal processing equipment, patching equipment for routing microphone and line level lines and a microphone signal splitting system. Large window will be capable of opening.

Knight Concert Hall Sound Specification (04/25/08)

Front of House:

Yamaha PM5D-RH digital mixing console
 2x Yamaha DME64N DSP (system controller)
 1 Rosendahl Nanosync word clock
 2 Avalon 737sp tube channel strip
 TC 6000 Reverb
 Tascam CD1P CD player
 1 HHB "Burnit" CD player/ recorder
 Tascam DA1000 Digital Recorder

Left and Right PA:

Center Cluster:	3 Meyer MSL4	Each side:	1 Meyer MSL 4
	3 Meyer CQ2		2 Meyer CQ1
	2 Meyer CQ1		
	4 Meyer 700 subs		

Also: a mess o' Delay (Meyer)/ Balcony (Tannoy) / Front Fill (Meyer) speakers

Monitors:

1 Yamaha PM5D-RH digital console	8 Crown 2402 Power Amps
12 - Eaw SM200 Passive Biamp wedge monitor	4 EAW NT 26 active speaker
1 - Yamaha DME 64N (8 ch active x-over)	5 meyer UPA-1P active speaker

SPLIT

Whirlwind 48 ch 3 way split

MICS/ DI

1 Schertler DYN-GP-SET (of 2) piano transducers	5 Crown PCC160
18 DPA 4066c Omni headset mics	1 Shure KSM 9
9 countryman B6 lav mics	2 shure Beta 57
18 lectrosonics LMA lav packs	1 shure Beta 91
3 lectrosonics Venue wireless receivers (18 ch)	3 Shure Beta 98D/S
10 Astatic VP1700P variable pattern condenser	2 shure KSM 44
2 DPA 3552 omni condenser mics	14 Shure Beta 58
1 earthworks DK25L drum mic kit	4 Shure SM 58
2 earthworks SR30 MP (matched pair)	4 Shure SM 57
1 earthworks TC20 MP omni (matched pair)	2 Shure UR124D/Beta 58 (capsule) wireless (4 channels)
1 earthworks SR20	4 AKG 414 condenser mics (2 matched pairs)
3 Sennheiser MD 421 II	4 BSS AC133 active DI
1 Neumann KMS 105	1 Radial JD6 6-channel passive DI
	Stands/cables/subsnakes
2 Clearsonic A5-5 (A5 panels are 2'W x 5.5'H) 5 panel Plexiglas drum baffle	
2 Clearsonic A2-4 (A2 panel is 1'W x 2'H) 4 panel Plexiglas baffle	

Knight Concert Hall Electrical Information

Power Distribution:

Loading Dock:	1- 400amp, 1- 200amp and 1-100amp disconnects
Stage Left:	1- 60amp Isolated for sound
Upstage Left:	1- 100amp
Back wall:	1- 400amp
Stage Right:	1-100amp
Basement:	1- 200amp Isolated for sound

Lighting Information:

Overhead lighting plot consists of approximately 143 automated fixtures arranged in concentric half circles radiating upstage from the center speaker cluster. Plot must be used as hung. Due to rigging limitations it is cost prohibitive to alter the hang on the overhead acoustical canopy. We will have extensive focus, color, and effects palettes built. **Please specify if additional time is needed for show specific cueing of the VLs.**

Additionally, there are a number of conventional units to be used from the FOH cove and balcony hanging positions.

Please Reference: [Knight Concert Hall Section](#), [Light Plot](#) and [Light Write](#) File

Lighting Equipment:

Console: High [End Systems Wholehog III](#). With Expansion Wing running WYSIWYG

Lighting Fixtures

Quantity	Description	Manufacture	Wattage	Lamp Type
16	10 deg ellipsoidal	ETC #410	750W	HPL 750/115
24	15-30 deg ellipsoidal zoom	ETC #41530	750W	HPL 750/115
16	25-50 deg ellipsoidal zoom	ETC #42550	750W	HPL 750/115
2	HMI Followspot	Lycian Supar Star #1275	1200W	1.2kw HMI
12	VL500	Vari Lite	1000W	Philips Tungsten
120	VL1000 T ERS	Vari Lite	1000W	Philips Tungsten
11	VL1000 TI ERS	Vari Lite	1000W	Philips Tungsten