



Saint John's
UNIVERSITY

Stephen B. Humphrey Theater

TECHNICAL SPECIFICATIONS

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FINE ARTS PROGRAMMING

Revised 8/6/2019

College of Saint Benedict
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Saint John's University
P.O. Box 2000
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DIRECTIONS TO THE STEPHEN B. HUMPHREY THEATER

From the Minneapolis / St. Paul, MN Area and points east:

I-694 and I-494 are the main interstate highways in Minneapolis, which connect with I-94 West. I-94 West is the main interstate highway leading from Minneapolis and Saint Paul into the Saint Cloud area and to Saint John's University. Follow **I-94 West** to the St. John's University exit (**exit 156**), approximately 100 miles from Minneapolis and Saint Paul. Head **South** on **County Road #159**, which will lead you directly onto campus. Continue past the athletic complex to the loop in front of the Abbey Church (you will see the Abbey Bell Banner in front of you). The Stephen B. Humphrey Theater is located on the right side of the loop as you face the Abbey Church. Parking arrangements can be made upon arrival.

From the Minneapolis / Saint Paul International Airport (Charles Lindbergh Terminal):

Take **Highway #5** leaving the airport's main entrance. Highway #5 connects directly with Interstate 494. Once on I-494, follow the directions listed above.

From the Fargo, ND / Moorhead, MN Area and points west:

From the Fargo and Moorhead area, take **I-94 East**. The Saint John's University exit (**exit 156**) is approximately 165 miles from the Fargo / Moorhead area. Once at the Saint John's Exit, go **right** (south) on **County Road #159**, which will lead you directly to campus. Continue past the athletic complex to the loop in front of the Abbey Church (you will see the Abbey Bell Banner in front of you). The Stephen B. Humphrey Theater is located on the right side of the loop as you face the Abbey Church. Parking arrangements can be made upon arrival.

From the Fargo / Moorhead International Airport (Hector International):

From the main entrance of Hector International Airport, go **West** on **BR-81**. This highway will intersect with Interstate 29. Go **left** on **I-29** until you reach **Interstate 94**. Go **East** on **I-94**. This will take you out of the Fargo/Moorhead area and point you in the direction of Saint Cloud and Saint John's University. Once on I-94 East, follow the directions above.

MANAGEMENT

Production Room: None Available

Green Room: None Available

Stage Manager's Console: None Available

Rehearsal Rooms: None Available

Crews: Paid student staff.

Access: Wheelchair Entrance on south side of the building. Wheelchair seating available house left or right.

Policies: House opens ½ hour prior to curtain. Normal curtain is 7:30pm. The Stephen B. Humphrey building is a smoke free environment.

LOAD-IN AREA

Dimensions: Load in area consists of outside stairs 5'-0" total height and 8'-0" wide leading to outside double doors 7'-8" high x 5'-6" wide (9'-5" diagonal) then crosses a hallway to a garage door 9'-2" high x 6'-10" wide on stage left. Flats should be sized appropriately.

Notes:

- *SBH can provide ramp from truck to top of stairs.*

CARPENTRY

Seating: 515 permanent seats. 20 temporary seats can be added at back of house if necessary.

Stage Dimensions:

Proscenium: 29'-5" wide X 21'-0" high. Stage depth =24'-0". Apron=14'-11".

Wing Space:

- Stage Right = 11'-7" X 24'-0".
- Stage Left =14'-8" X 24'-0".

Grid Height: 44' 0"

Orchestra Pit: 14'-0" X 28'-0"

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CARPENTRY cont.

Stage Height: 2'-3"

Stage Flooring: ¾" Hardwood flooring over 3/8" Plywood. Floor is blonde in color and finished with high gloss polyurethane.

House Draperies (Goods):

House Curtain: Pewter colored IFR velour that can be drawn or flown is located on line set #2. Operation is manual.

House Valance: Pewter colored IFR velour that can be flown is located on line set #1. Operation is manual.

Legs: Two sets of black IFR velour legs at 20'-6" high x 9' wide, with fullness.

Borders: Three black IFR velour borders at 4', 6' and 8' high x 42' wide with fullness.

Traveller: Two black IFR velour drape at 20' high x 20'-6" wide. Operation is manual and track is permanently affixed to lineset #12

Full Stage: Is 4 Black IFR velour drapes at 20' high x 10' wide, w/fullness.

Cyclorama: One seamless white muslin cyc at 19" high x 36' wide.

Scrim: One black, seamless sharkstooth scrim 19' high x 36' wide

Rigging:

Lineset Schedule: See Appendix A

Battens:

- 27 Linesets: 1 ½" schedule 40 pipe truss battens. Pipes on 14" centers
- Linesets 1- through 24 are 42' 0" in length
- Linesets 25 through 27 are 40'-7" in length and off center 26" towards stage left
- All lines are single purchase, T-Track counterweight with three lift lines.

Arbor capacity: 1,000 lbs. (evenly distributed) per pipe.

Available weight: 1,250 lbs. free up to 2,500 lbs. available if all pipes are cleared.

Loading rail: Located on stage right at 35'-0" above the deck.

CARPENTRY cont.

Loading mid-rail: Located on stage right at 24'-0" above the deck.

Locking rail: Stage right at deck level.

Support Areas:

Crossover: Hallway directly behind stage, with access through doors downstage left, downstage right and upstage right.

Access: From front of house: located both house left and right through a 2'-10" wide door. Dressing rooms are located under the house.

Shop Area: None. Minimal tools available.

Storage: Minimal storage in hallway behind stage.

LIGHTING

Dimmers: Sensor 3 Racks with 90 dual dimmer modules (180 circuits) and 6 dual thru-power modules (12 circuits)

Control : ETC GIO 4000 with 2 external monitors, 1 universal 40 fader wing and iPad remote. ETC Net3 & single hard line DMX connections located at:

- Booth
- Down stage left,
- Middle of the house (row J)

Houselights: The Light Source LED RGBW fixtures (16) individually addressed. (Appendix B) Unison Paradigm Control System. Control locations:

- backstage right
- booth
- center of house (via portable)
- 2 Button On/Off Stations located at all house doors
- Console (DMX) controllable

Circuits:

54 FOH

136 Stage

2 Orchestra Down*

**power to permanently mounted ETC Desire D40 LUSTR+ LED fixtures*

Circuit Chart/DMX Addressing: See Appendix B

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LIGHTING cont.

Front of House Transfer: None available

Front of House Positions:

1st catwalk: 49' throw at 42°

2nd catwalk: 60' throw at 33°

HL/HR Box Booms: Located 1'-0" off of house walls 33' from plaster line. Positions from 11'-10" to 23'-6" above stage deck

Equipment Inventory:

Fixed Position Instruments:

4 ETC D40 LUSTR+ LEDs with 20°x40° lenses.

Located in front of the proscenium in the orchestra reflector. Focus is adjustable and lens can be changed to 25°

4 VL1100 TSD (lamped at 1000W).

Located FOH

Below 2nd catwalk between bay 1 & 2 and bay 3 & 4

1 on each box boom at 25'-6" above stage (27' from floor)

See Appendix B for Gobo List

Standard Light Plot Instruments:

4 Apollo Right Arms with Source Four 19° instruments

1 on each box boom at 23'-6" above stage with DMX iris (limits range of motion)

1 on each box boom at 20'-6" above stage (full motion)

2 ETC Source 4 Luster 2 with 26° Barrels on bottom of each box boom.

Front of House Instruments:

16 ETC Source Four 19°, 575w, stage pin connectors.

8 ETC Source Four 26°, 575w, stage pin connectors.

Stage Instruments:

20 ETC Source Four 36°, 575w, stage pin connectors.

19 ETC Source Four 26°, 575w, stage pin connectors.

24 ETC Source Four PAR-EA, 750w, wide lens, stage pin connectors.

24 Strand 6" Fresnels, 750w, stage pin connectors.

6 ETC Source Four LED series 2 LUSTR+ fixtures with cyc adapter.

Color cut size for 8" units is 10" square, ETC cuts are 6" square.

Follow spots: 2 – 575W 14° Source Fours on follow spot yolks that can be placed in the back of house Left/Right

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LIGHTING cont.

Misc:

- 4 - 10' booms
- 12 – 6" barn doors
- 4 – 50 degree lens tubes for Source Four instruments

Cable: 500' of 5', 10', and 25' of cable

Video Equipment: All equipment located in booth. A single VGA connection available downstage left

- Eiki HDT-1000 - 10,000 lumen HD projector
- Samsung Blu-Ray player with 7.1 analog audio out
- Panasonic DVD/VCR
- Barco PDS-902 3G video switcher
- 15" flat screen preview monitor

Notes:

• FOH lighting position can only be focused straight on, due to FOH opening. Overhead focus is done with a Genie personal lift system. All manufacturers' requirements will be adhered to when using the lift. (This means that the lift must return to the floor before moving)

SOUND

Power: No isolated grounds available

Control Locations: booth location at back of house.

Hearing Assist System: Listen Technologies FM auditory assistance system, with 20 receivers available.

Monitoring/Paging System: Dressing room paging system is integrated into Clear-Com (booth) base station & stage positions. Two overhead mics & board feed dressing room and makeup room audio monitors. Program input possible.

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Sound_{cont.}

Production Communications: Clear-Com, Dual channel base (Channel B paging system) 6 headsets, with station location as follows:

Ch A & B	Ch A only	Ch B only
1 Lighting Booth - SM base station	1 Center of house row J	1 Dressing Room
1 Sound Booth	1 Stage Downstage Right	
1 Light Booth	1 Downstage Left	
1 Downstage Right	1 Orchestra Pit	
1 Downstage Left		
1 Technical Director's Office		

Equipment Inventory:

Mixing Console: Yamaha CL5 with RIO 32-24 & TIO 16-08 racks.

FOH Speakers:

- 2 Renkus-Heinz ICONYX IC Live-series line arrays (triple stack). Flat output from 80 Hz to 20 kHz.
- 2 Renkus-Heinz CFX218S dual 18-inch subwoofers. Flat output from 32 Hz to 100 Hz.
- 2 Renkus-Heinz TRX81 point source speakers set on stage for front fills

Monitor Speakers:

- 4 JBL PRX800 speakers, 500 watts
- 2 JBL PRX612M speakers, 500 watts

Microphones: 6 Shure SM58 Omni-Directional mics

3 SM57 Directional mics

6 Shure wireless mics either SM58 Omni-Directional handheld or Shure wireless lapel (W93)

2 Shure WH30 headsets for wireless lapel system

Playback:

- Denon DN-C620 stereo CD player.
- Tascam CD-200SB stereo CD player.

Recording: Tascam SS-R250N memory recorder includes optional Dante (2x2) support card.

Cable: 500' of 10', 25', and 50' lengths of 3 pin XLR.

PROPS

Orchestra Pit: 14'-0" X 28'-0" X 6'-3" in height

Music:

Chairs: 18 Padded Wenger Musician Chairs.

Stands: Wenger and Manhasset stands. One (1) Wenger Conductors stand

Stand lights: 30 Wenger stand lights

Platforms: Available upon request.

Dance Floor: Stage Step- Bravo B to cover stage; black gaffers tape only

Lecterns: One (1) non-adjustable lectern with built in A/V wiring

WARDROBE

Dressing Rooms: One (1) make-up room with lighted mirrors, counter space and chairs for 16 people, two full-length mirrors. Dressing rooms are between makeup room and shower rooms. Each shower room contains one shower stall, two lavatories, and two sinks. Dressing rooms are located one level below the stage with direct access to either stage right or stage left.

Wardrobe Area: Make-up room.

Irons: 1 portable.

Ironing boards: 1 portable.

Steamers: 1 portable.

Washers/Dryers: Yes

Racks and Hangers: 2 rolling clothes racks available.

Quick Change Booths: As requested.

Appendix A

<u>Batten</u>	<u>Distance</u>	<u>Description</u>	<u>Trim Low/High</u>	<u>Weight</u>	<u>Notes</u>
	Plaster to center of pipe				
1	1'-2"	Valance	4'-8" / 38'-5"	50#	
2	1'-8"	House Curtain	9'-2" / 41'-6"	300#	Not moveable
3	3'-3"	1st Electric - (20 circuits)	4'-8" / 30'-7"		
4	5'-0"	Border	4'-8" / 38'-5"	85#	
5	6'-0"	Legs	4'-8" / 38'-5"	50#	
6	6'-6"		4'-8" / 38'-5"		
7	8'-3"	Border	4'-8" / 38'-5"	50#	
8	9'-9"	2nd Electric - (20 circuits)	4'-8" / 30'-7"		
9	10'-9"		4'-8" / 38'-5"		
10	11'-3"	Projection Screen	4'-8" / 38'-5"	175#	
11	11'-9"		4'-8" / 38'-5"		
12	12'-6"		4'-8" / 38'-5"		
13	13'-0"	Border	4'-8" / 38'-5"	50#	
14	13'-6"	Traveler (fixed location)	4'-8" / 38'-5"	335#	Not moveable
15	14'-0"		4'-8" / 38'-5"		
16	15'-3"	3rd Electric - (20 circuits)	4'-8" / 30'-7"		
17	16'-6"		4'-8" / 38'-5"		
18	17'-0"		4'-8" / 38'-5"		
19	17'-6"	Border	4'-8" / 38'-5"	50#	
20	18'-0"	Legs	4'-8" / 38'-5"	50#	
21	18'-6"		4'-8" / 38'-5"		
22	19'-0"		4'-8" / 38'-5"		
23	19'-6"	Full Stage Black	4'-8" / 38'-5"	175#	
24	20'-6"	4th Electric - (18 circuits)	4'-8" / 30'-7"		
25	21'-9"		4'-8" / 38'-5"		
26	22'-9"	Scrim	4'-8" / 38'-5"	45#	
27	23'-3"	Cyc	4'-8" / 38'-5"	55#	
	24'-0"	Back wall of Stagehouse			

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Appendix B: LIGHTING

Circuit Schedule

From ETC SENSOR RACKS

Dimmers		<i>Unison layout not included</i>	
Start	End	Location	Total # of Circuits
1	15	2nd Cat HL to HR	15
16	30	1st Cat HL to HR	15
31	36	HL Box Boom Top – Socapex Connector #1	6
37	42	HL Box Boom Middle – Socapex Connector #2	6
43	48	HR Box Boom Top – Socapex Connector #3	6
49	54	HL Box Boom Middle – Socapex Connector #4	6
55	74	1st Elec SR to SL	20
75	94	2nd Elec SR to SL	20
95	114	3rd Elec SR to SL	20
115	132	4th Elec SR to SL	18
133	135	DSR Floor Pocket	3
136	138	USR Floor Pocket	3
139	142	USR Wall Box	4
143	145	DSL Floor Pocket	3
146	148	USL Floor Pocket	3
149	152	USL Wall Box	4
153	153	Back of Theater HL	1
154	154	Back of Theater HR	1
155	156	Orchestra Downs (Pairs to Right/Left)	2
157	162	#5 Socapex Connector Lower Loading Bridge	6
163	168	#6 Socapex Connector Lower Loading Bridge	6
169	174	#7 Socapex Connector Lower Loading Bridge	6
175	180	#8 Socapex Connector Lower Loading Bridge	6
181	186	#9 Socapex Connector DSR	6
187	192	#10 Socapex Connector DSL	6

Appendix B: LIGHTING

DMX Addressing

SBH DMX Addressing

House light map by address				Apollo Right Arms w/19 Degree Source 4			
(Unit)/Address							
Stage							
(101) / 428	(102) / 433	(103) / 438	(104) / 443	HL Top		HR Top	
(105) / 448	(106) / 453	(107) / 458	(108) / 463	M2 412	Part 1	M2 415	Profile Type: Right Arm M2
(109) / 468	(110) / 473	(111) / 478	(112) / 483	iris 414	Part 2	iris 417	Profile Type: DMX Iris
(113) / 488	(114) / 493	(115) / 498	(116) / 503	Lamp 33	Part 3	Lamp 45	Profile Type: Dimmer
Booth							
VL 1100s - Profile Type: VL1000 TSD				D40 Lustr+ LEADS Profile Type: QS Stage			
HL Boom 304		HR Boom 331		HL to HR	248 - 262 - 276 - 290		
Center HL 358		Center HR 385		Source 4 LED Cyc Units Profile Type: QS Stage			
Elation sixpar 200 Profile Type: 8 Channel				Typical Addressing (Adjustable via RDM)			
CH 95 2nd 1	CH 96 2nd 2	CH 97 2nd 3	CH 98 2nd 4	(Unit)/Address			
ADD 2.57	ADD 2.49	ADD 2.41	ADD 2.33	(S4.Cyc.1)	(S4.Cyc.3)	(S4.Cyc.5)	
CH 91 1st 1	CH 92 1st 2	CH 93 1st 3	CH 94 1st 4	(S4.Cyc.2)	(S4.Cyc.4)	(S4.Cyc.6)	
ADD 2.25	ADD 2.17	ADD 2.9	ADD 2.1	Source 4 LED Box Boom Profile Type: QS Stage			
				Typical Addressing (Adjustable via RDM)			
				(Unit)/Address			
				BB HL/121		130	
Thru Power Dimming Modules - PLEASE DO NOT PATCH (Switched Power)							
7/8 > Catwalk #2- VL1100				31/32> HL Boom- VL1100/ Right Arms			
43/44> HR Boom-VL1100/ Right Arms				155/156>Orchestra Down- LEDs (Always On)			

Appendix B: LIGHTING

VL1100 6 position Gobo Wheel

Gobo is a custom glass size framed in an aluminum blank (Varilite VL1000 TSD sizing)

The following gobos are available:

- All Instruments
 - Slot 1 – Varilite #4006 Pinhole
 - Slot 2 – Varilite #6502 Hexagon Wheel
 - Slot 3 – See Below
 - Slot 4 – See Below
 - Slot 5 – Empty
 - Slot 6 – Open Position
- Other Gobos by Position
 - House Left & House Right Box Boom Units
 - Slot 3 – 5604 Concentric Explosion
 - Slot 4 – 5012 Stars
 - House Left Center
 - Slot 3 – 4305 Pinwheel
 - Slot 4 – 5006 Moon
 - House Right Center
 - Slot 3 – 4305 Pinwheel
 - Slot 4 – 4511 Skyline