



The Grand Theatre
218 PRINCESS STREET,
KINGSTON, ONTARIO, K7L 1B2

TECHNICAL AND PRODUCTION INFORMATION

Updated Feb 2009

REGINA ROSEN AUDITORIUM

SEATING CAPACITY:

ORCHESTRA LEVEL	398
BALCONY	341
BOX SEATS	12
TOTAL	751
ORCHESTRA LIFT (IF USED)	25
GRAND TOTAL WITH ORCHESTRA LIFT SEATS	776

UNION AFFILIATION: **Technical staff** are members of and operate under the jurisdiction of IATSE Local 471
Front of house staff operate under the jurisdiction of CUPE Local 109

STAGE DIMENSIONS

WIDTH

	IMPERIAL	METRIC
PROSCENIUM ARCH	40'6"	12.34 metres
STAGE RIGHT WING (TO ARBOR PIT FENCE)	7'6"	2.29
STAGE LEFT WING	9'6"	2.9
TOTAL- STAGE LEFT WALL TO ARBOR PIT FENCE.	57'6"	17.53

DEPTH

	IMPERIAL	METRIC
USABLE DEPTH FROM STAGE LIP TO CYCLORAMA	30'5"	9.3 metres
STAGE LIP TO PLASTER LINE	2'1"	.64
PLASTER LINE TO CYCLORAMA	28'4"	8.64
CYCLORAMA TO BACK WALL (CROSSOVER)	3'0"	.91
TOTAL DEPTH STAGE LIP TO BACK WALL	33'5"	10.21
PLASTER LINE TO BACK WALL OF ORCHESTRA SHELL	27'8"	8.44
FRONT OF FORESTAGE TO STAGE LIP AT CENTRE	9'6"	2.9
FRONT OF FORESTAGE TO STAGE LIP AT ENDS	6'10"	2.1
STAGE LIP TO BACK WALL OF AUDITORIUM	54'0"	16.46
STAGE LIP TO FIRST FOH ELECTRIC	48'0"	14.63
STAGE LIP TO SECOND FOH ELECTRIC	60'0"	18.29
STAGE LIP TO BACK WALL OF AUDITORIUM-BALCONY LEVEL	72'0"	21.95

HEIGHT

	IMPERIAL	METRIC
PROSCENIUM ARCH	22'0"	15.01 metres
TO GRID	49'3"	15.01
TO FLY FLOOR (STAGE RIGHT)	23'2"	7.04
TO LOADING GALLERY (STAGE RIGHT)	43'1"	13.11
ABOVE FIRST ROW OF SEATS	3'6"	1.07
ABOVE ORCHESTRA PIT FLOOR	8'6"	2.59

ORCHESTRA PIT DIMENSIONS

	IMPERIAL	METRIC
WIDTH	36'	10.97
FRONT TO BACK	18'6"	5.64
DEPTH BELOW STAGE	8'6"	2.59
DEPTH BELOW FIRST ROW OF SEATS	5'0"	1.52
OVERHEAD CLEARANCE UNDER LIP	7'0"	2.13

LOADING DOOR

	IMPERIAL	METRIC
WIDTH	7'6"	2.29 metres
HEIGHT	9'8"	2.94
ELEVATION ABOVE GRADE	2'9" variable	0.84

The loading door is located off Opera Lane and is accessible from Montreal Street or Brock Street

It will be necessary for larger trucks to back in from Brock Street

PARKING

The Grand has no dedicated parking areas.

Offsite parking for trucks and tour busses can generally be arranged by contacting the production department in advance.

Cars can be parked in the neighbouring Chown Parking Garage. Standard fees will apply.

STAGE DOOR LOCATION

-At rear of Building. Enter from Opera Lane off Montreal Street

STAGE FLOOR

-Masonite on two layers of ¾" plywood. The plywood sits on 2x4 sleepers separated from the concrete subfloor by ¼" rubber pads

-Standard colour Black

-Cable trough- Removable floor panels allow audio cables to be routed along front of stage to stage left and right.

ARTIST ACCOMODATIONS

-Are located on the second and third floors of the backstage area and in the basement.

-One solo dressing room (accommodates two persons)

-Two group dressing rooms (maximum legal capacity 30 persons each)

-Green Room located in the basement can be subdivided with curtains to provide a variety of dressing room configurations and/or a catering area for performers.

Maximum legal capacity 90 persons

-Washrooms are located in the basement and on the second and third floors.

-Showers- Three showers are available

-Washer and Dryer are located adjacent to the Green Room.

-Road company office location is available in the Green Room.

LIGHTING

Mounting Positions: Standard positions are as follows:

FOH 1- Near catwalk
FOH 2- Far catwalk
Box Booms left and right
Balcony Rail
Forestage truss
Onstage pipes 4/14/26/36

Circuits- Dimmer per circuit system with 218 20-amp twist lock receptacles available for stage lighting. Please see circuit layout table for detailed information

Dimmers 232 2.4 KW ETC Dimmers

Non Dims: 8

Control: ETC Ion

Located: Back of balcony

Alternate control: Ethernet allows console to be operated from stage left, stage right, house mix position.

Programmed

Touch Pad: Can be located stage left, stage right, mix position to allow house light control and basic lighting setups for lectures, concerts, etc

Lighting

Network: Ethernet connectivity is available throughout performance area.

Work lights: Located on FOH catwalk 2 and pipes 4,36
Control is located throughout performance area

Disconnect for

Road Boards: 400-amp 3 phase 208 volt, located upstage right.

CIRCUIT LAYOUT- Regina Rosen Auditorium

CIRCUIT NUMBERS	QTY	LOCATION	NOTES
1-18	18	SECOND FOH CATWALK (FAR)	PIG TAILS, EVENLY DISTRIBUTED ALONG RAIL
19-44	26	FIRST FOH CATWALK (NEAR)	PIG TAILS, EVENLY DISTRIBUTED ALONG RAIL
45-56	12	STAGE LEFT BOX BOOM	SOCAPEX FROM CATWALK
57-68	12	STAGE RIGHT BOX BOOM	SOCAPEX FROM CATWALK
69-86	18	FORESTAGE TRUSS	SOCAPEX FROM CATWALK
87-92	6	BALCONY RAIL	TWO THREE GANG BOXES
93-94	2	BOX SEAT STAGE LEFT	TWO GANG BOX
95-96	2	BOX SEAT STAGE RIGHT	TWO GANG BOX
97-100	4	ORCHESTRA PIT	FOUR GANG BOX
101-122	24	FIRST ELECTRIC	PIG TAILS EVENLY DISTRIBUTED
127-150	24	SECOND ELECTRIC***	SOCAPEX FROM GRID
151-162	12	STAGE LEFT***	SOCAPEX FROM GRID
163-180	18	THIRD ELECTRIC***	SOCAPEX FROM GRID
181-192	12	FOURTH ELECTRIC***	SOCAPEX FROM GRID
193-204	12	STAGE RIGHT***	SOCAPEX FROM PINRAIL
205-207	3	STAGE LEFT PROSCENIUM WALL	3 GANG BOX
208-215	8	UPSTAGE CENTRE	8 GANG BOX
216-218	3	STAGE RIGHT PROSCENIUM WALL	3 GANG BOX

***CIRCUITS 127-204 ARE FED VIA SIX WAY SOCAPEX FANOUTS.

AVAILABLE LIGHTING INSTRUMENTS July 2008

QTY	INSTRUMENT	MANUFAC TURER	LAMP	NOTES
20	SHAKESPEARE 15-35° ZOOM	ALTMAN	750W HX755	1
6	SOURCE FOUR ZOOMS	ETC	750W HPL	1
4	ZOOM ELLIPSE	COLORTRAN	1 KW FEL	1
20	SOURCE FOUR 26 & 36°	ETC	575W HPL	4
12	30° ELLIPSOIDS	COLORTRAN	1 KW FEL	1
12	30° 5/50 SERIES ELLIPSOIDALS	COLORTRAN	1 KW FEL	2
24	40° 5/50 SERIES ELLIPSOIDALS	COLORTRAN	1 KW FEL	2
6	6X12 360Q ELLIPSOIDALS	ALTMAN	750W EHG	3
22	6" FRESNELS	STRAND &COLORTRAN	1 KW BTR	2
6	3 CIRCUIT STRIPLIGHT	AMPRO	2 500W LAMPS/UNIT	4TH ELECTRIC
5	3 CIRCUIT MR16 MINI STRIPS (W FLOOR TRUNIONS)	MC LIGHTS	75WX30 EYC	3
2	COMET FOLLOW SPOTS	ALTMAN	360W ENX	

NOTES: 1 NORMAL LOCATION FOH

2 NORMAL LOCATION STAGE AND SPARE

3 NORMAL CONDITION- SPARE

4 SOURCE 4 LENS BARRELS AVAILABLE: 10 of 26°, 20 of 36°

ACCESSORIES

- 8 -Booms (10-12' high)
- 20 -6" Barn doors
- Gobo holders for Source Fours, Shakespeares, and Colortrans
- Approx 800 ft 14/3 TLG cable (5', 10', 25' lengths)
- Twofers
- Adaptors Male TLG to female U ground

COLOUR MEDIA- Please note that the house carries
a **LIMITED STOCK OF LEE and ROSCO COLOUR.**

FLY SYSTEM

The Grand is equipped with a single purchase steel counterweight system. Operation is from the Fly Floor, Stage right

Safe working Load 25lb/lineal foot	SWL on dedicated lighting pipes (4,14,26,36) 30lb/lineal foot
Number manual linesets 25	Number motorized sets (Dedicated to orchestra shell) 4
Length of Trusses 44'0"	

LINE SET LOCATIONS

DISTANCE FROM PLASTER LINE	SET	DESCRIPTION	NOTE
2'0" Downstage of		LIGHTING/AUDIO TRUSS	MOTORIZED
0'3" Upstage of		<i>FIRE CURTAIN</i>	
1'0"	1	HOUSE CURTAIN	
1'8"	2	BORDER 1	
2'4"	3	FREE PIPE 1	
3'0"	4	ELECTRIC	
3'8"	5	<i>FUTURE</i>	
4'4"	6	LEG	
5'0"	7	ORCHESTRA SHELL	MOTORIZED
5'8"	XX	OBSTRUCTED	
6'4"	9	FREE PIPE 2	
7'0"	10	<i>FUTURE</i>	
7'8"	11	FREE PIPE 3	
8'4"	12	BORDER 2	
9'0"	13	LEG 2	
9'8"	14	ELECTRIC 2	
10'4"	15	<i>FUTURE</i>	
11'0"	16	FREE PIPE 4	
11'8"	17	<i>FUTURE</i>	
12'4"	18	MID STAGE TRAVELLER	
13'0"	19	FREE PIPE 5	
13'11"	20	ORCHESTRA SHELL	MOTORIZED
14'4"	XX	OBSTRUCTED	
15'0"	XX	OBSTRUCTED	
15'8"	23	FREE PIPE 6	
16'4"	24	BORDER 3	
17'0"	25	LEG 3	
17'8"	26	ELECTRIC 3	
18'4"	27	<i>FUTURE</i>	
19'0"	28	FREE PIPE 7	
19'8"	29	<i>FUTURE</i>	
20'4"	30	<i>FUTURE</i>	
21'0"	31	<i>FUTURE</i>	
21'8"	32	BORDER 4	
22'4"	33	LEG 4	
23'0"	34	ORCHESTRA SHELL	MOTORIZED
23'8"	XX	OBSTRUCTED	
24'4"	36	ELECTRIC 4	
25'0"	37	<i>FUTURE</i>	
25'8"	38	US TRAVELLER	
26'4"	39	FREE PIPE 8	
27'8"	40	ORCH SHELL WALL	
28'4"	41	CYCLORAMA	
	42	SHELL TOWER STORAGE	MOTORIZED

SOFT GOODS

QTY	ITEM	HEIGHT	WIDTH	FULLNESS	COLOUR	NORMAL LOCATION
1	HOUSE CURTAIN	25'0'	EACH PANEL 24'6"	50%		LINE 1 OPERABLE AS A TRAVELLER
2	TRAVELLERS	24'0'	EACH PANEL 24'6"	50%	BLACK	LINES 18, 38
4 SETS	LEGS	24'0"	9'0"	0%	BLACK	LINES 6, 13, 17, 33
4	BORDERS	12'0"	46'0"	0%	BLACK	LINES 2,12,24,32
1	CYCLORAMA	24'0"	44'0"	0%	WHITE	LINE 41
2	SCRIM	22'0"	44'0"	0%	BLACK	NOT HUNG

ORCHESTRA SHELL

The Grand is equipped with an acoustical shell consisting of

3 roof pieces- Adjustable angle, acoustically reflective surface, built in concert lighting fixtures
-Permanently hung on motorized pipes 7, 20, 34,

Back wall -Permanently hung on counterweight pipe 40

6 Rolling sidewall towers Stored on motorized pipe 42

Performance area with shell in standard position

Measured from plaster line: width 40'6" (12.34 m) x depth 27'8" (8.44 m)

Measured from front of forestage at centre stage width 40' (m) x depth 39'8" ()m

A hard surface acoustic reflector hangs in front of and above the proscenium

ORCHESTRA PIT LIFT

Dimensions: Width 36'6" (10.97 m) **Depth at centre stage** 9'6" (2.9 m)

Depth stage left and right 6'10" (2.1 m)

The lift can be stopped where required, including at

-**Stage level** to provide a forestage area.

-**Audience level** to provide space for 25 additional seats

-**Pit level** 8'6" below stage

-**Basement level-** to facilitate storage of heavy equipment in under-stage area

ORCHESTRA PIT NET

Is provided for protection of stage performers and musicians

ORCHESTRA PIT EQUIPMENT

The theatre does not music stands or music lights.

RISERS

The theatre does not own risers.

PIANOS: 1 Yamaha Upright

1 Yamaha seven foot grand

There is a rental charge for the use of pianos. Tuning, if required, will be charged to the user. Pianos are shared between the main stage and Baby Grand. Please check with production department for availability

COMMUNICATION

The house is equipped with clearcom stations located:

- Downstage left and right
- Upstage Left and Right
- Orchestra Pit
- Green Room
- Mix Position
- Balcony Rail
- Lighting Booth
- Two spotlight positions
- Fly floor
- Loading Gallery
- Service Catwalk
- Lighting catwalks one and two

Number of headsets/beltpacks available: 8

Program sound/paging is available to:

- Green Room
- Dressing Rooms

FM hearing assist system is available

AUDIO

Equipment Inventory-

FOH Console: Yamaha PM5D RH – 48 Channel digital console

Monitor Console: Allen and Heath – GL2800-840 - 40 channel console capable of 10 mixes

Monitor Speakers: 8 x EAW Micro wedges (MW12) with QSC amplifiers

FOH Speakers: Powered Meyer System controlled through a Galileo processor

Note: Speaker positioning is permanently fixed

Centre Cluster:	4 x CQ-1s (focused 2 at balcony, 2 at orchestra)
Pros Left and Right:	4 x CQ-1s (one pair L&R focused at balcony, one pair L&R at orchestra)
Subs:	2 x HP700 - suspended in ceiling at proscenium
Front fills:	8 x MM4-XP
Balcony Fills:	7 x UPM-2P
Box Seat Fills:	2 x UPM-1P

Microphones: 4 x Shure ULX Series Wireless transmitters/receivers w/ countryman B3 or Beta 87a mics

Note: the theatre does not own any wired microphones

Microphone Stands: -4 K&M short telescopic boom tripod stands
6 K&M tall telescopic boom tripod stands

Audio connection points are located as follows

Location	No. Mic Lines	No. Tie Lines	No. Speaker Lines	No video Lines	Technical power
Downstage right	12	4	2	2	Yes
Downstage left	12	4	2	2	Yes
Upstage right	4	4	2	2	Yes
Upstage left	4	4	2	2	Yes
Orchestra Pit	12	8	4	2	Yes
Green Room	xx	4	2	2	
Stage Hub	xx	67	36	xx	Yes
Mix Position		12	2	2	Yes
Balcony Rail	2	2	2	2	Yes
FOH Service catwalk	6	12	12	6	Yes
FOH Mid Catwalk	2	2	1		Yes
FOH Far Catwalk	2	2	1	2	Yes
Lighting Booth Interface Box	xx	2 to FOH 4 to STAGE	2	2 to FOH 2 to STAGE	Yes

Pull Pipes

In addition to the permanent lines listed above, two eight inch diameter pull pipes are available to route user snake from stage to mix position

Pass through for broadcast trucks- Two eight inch pass throughs located beside the loading door allow cables to pass to the outside.

Technical Power Disconnect- In addition to the 20 amp technical power outlets listed above, there is a 100 Amp, 208 volt, 3 phase disconnect located down stage left

Mix Position is located at back of house Stage left of centre.

VIDEO

Video connection points are located throughout auditorium, dressing rooms, greenroom, lobbies



THE GRAND THEATRE

GENERAL INFORMATION

Updated Feb 2009

CURRENT CONTACTS:

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