

CAROLINA THEATRE OF DURHAM, NC

TECHNICAL INFORMATION PACKAGE

FOR FLETCHER HALL

As of February 15th, 2010

Thank you for considering the **Carolina Theatre of Durham** for your performances. This technical packet is meant to provide you with a basic overview of the equipment and services we can provide. Additional equipment is available in the market at competitive rates.

The Carolina Theatre of Durham is a full service performing arts center serving the Durham/Raleigh/Chapel Hill market. The renovated, historic theatre seats 1015 on the orchestra and two balconies. The professional technical staff can provide support for your event in all areas.

Contact:

Carolina Theatre of Durham, Inc
309 West Morgan Street,
Durham, NC 27701
Fax: 919.560.3065
Phone: 919.560.3040

Carl Wetter, Technical Manager

Phone: 919.560.3040 ext. 244
Email: carl@carolinatheatre.org.

LOADING DOCK

Truck access is provided by a single driveway off of Morgan Street leading to a one-bay loading dock. Trucks load directly into enclosed dock with concrete floor, which is 9' deep by 20' wide (Trucks are not under cover). Access from dock onto stage is by roll-up door in direct alignment with exterior dock door; door opens onto mid-stage left.

- Distance from dock bumpers to sidewalk = 40 feet.
- Distance from dock bumpers to street = 48 feet.
- Dock height above driveway = 36 inches.
- Door opening (roll-up) into loading dock = 11'-10" H x 9'-0" W.
- Door opening (roll-up) from dock onto stage = 11'-10" H x 9'-0" W.

DISTANCES AND MEASUREMENTS

Proscenium opening: 31'-6" wide

Height: 20'-0" from floor to fixed valance.

Depth: 30'-0" plaster line to back wall.

Apron measures 2'-5" from plaster line to the pit line.

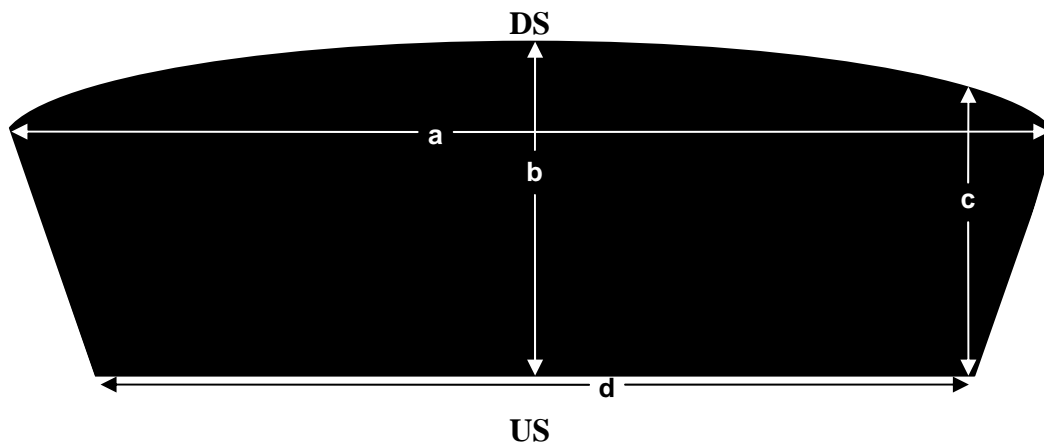
Wing Space:

16' wide SR; SR height restricted (9'-4") first 6' from wall.

16' wide SL; no height restrictions.

Offstage right, there is an anteroom that can be utilized as an extension of stage right. **PLEASE NOTE THIS SPACE IS SEVERELY HEIGHT RESTRICTED, ONLY 7'-4" HEIGHT!** Access from the stage right wing is via 2 roll-up doors, each 7'-4" H x 7'-6" W. This adds roughly an additional 400 sq. ft of storage or gathering space. Note: this space also serves as the only access from the dressing rooms and green room to the stage via a separate "man" door!

Orchestra Pit: Our orchestra pit is mobile vertically via hydraulic motorized screw jacks. It may be positioned at basement level, orchestra level or stage level. **The pit at stage level will create line of sight issues for the first two rows of seats.**



Measurements:

a- 33'-8"

b- 12' from apron, 14'-5" from plaster line

c- 10'-10" from apron, 12'-15" from plaster line

d- 22'-7"

Apron measures 2'-5" from plaster line to pit line (**d**).

Basement level shelf measures 5' from back wall to pit line (**d**).

Vertical Measurements:

{All vertical heights are plumb lines above finished floor. All angles and distance measurements are scaled from building blueprints. All measurements for the stage are scaled from the centerline of the building at the appropriate elevation lines on the floor at the proscenium opening.}

Measurements (average) from Deck to:

- Grid 48’-10”
- Pipe full out/working height 48’- 0”
- Pipe travel 44’- 0”
- Pipe at normal trim (goods) 24’- 0”
- Bottom soft goods full out 23’- 4”
- Electrics at normal trim 21’-10”
- Bottom of border at trim 18’- 0”
- Pipe all the way in 4’- 0”
- Bottom Fixed Valence 18’- 8”
- Bottom Main Curtain full out 20’- 8”

Lighting Instrument Throw: House positions (electrics) are available on the first and second balcony rails and the cove position.

Position	Distance to DC/ Plaster Line	Throw Angle	Distance to Front of Pit (Raised)	Height above Orchestra Floor
1 st Balcony	46’ – 0”	28 degree	32’ – 0”	13’ – 6”
2 nd Balcony	66’ – 0”	40 degree	55’ – 6”	33’ – 2”
FOH Cove	64’ – 0”	60 degree		51’ – 5”

Projection Throw: LCD Projector (1st Balcony) to House Screen: 49’ (4100 lumens long throw lens)

Projection Booth (35MM) to House Screen: 87’

Seating Distances:

Back of orchestra to stage is 72’.

Back of first balcony to stage is 82’.

Back of second balcony to stage is 117’.

HOUSE ELECTRIC'S

The Carolina has a house plot that can be adapted to your needs. Onstage are four electrics with a fifth for cyc lighting. A house plot is included in this package.

Lighting: The Control Booth is located in the rear of the orchestra level.

- ETC EOS console, and 2 Monitors.
- System is configured dimmer per circuit.
- House lights are operable by Viewpoint architectural system.

Circuit No.	Location	Rated	No. of Circuits
1 – 33	FOH ceiling cove	15-amp ea.	33
34 - 37	First Balcony rail (dimmable edisons/6-plexes)	20-amp ea. 50 amp	4
38 – 49	Second Balcony rail	20-amp ea.	12
98-124	First Electric	20-amp ea.	24
125-151	Second Electric	20-amp ea.	28
152-178	Third Electric	20-amp ea.	28
179-205	Fourth Electric	20-amp ea.	25
206-223, 265-267	Fifth Electric	20-amp ea.	12

Circuits:	location	# of	rated	
	Box Boom SR	12	20 amp each	
	Box Boom SL	12	20 amp each	
	SL Fly Gallery	50	20 amp	
	SR Fly Gallery	40	20 amp	
	SL Proscenium	4	20 amp	
	SR Proscenium	4	20 amp	
	US Right	6	20 amp	1-50 amp
	US Center	6	20 amp	1-50 amp
	US Left	6	20 amp	1-50 amp
	Orchestra Pit	2	20 amp	

Light Instruments:

(Normal house plot includes all in house instruments and cyc Strip lights.) Default plot configured to accommodate a two-color front, down and high side wash.

No.	Type of Unit	Brand	Watts	Lamp	Frame size
45	10 Degree ellipsoidal	Colortran	1000	FEL	10 x 10
24	15 Degree ellipsoidal	Colortran	1000	FEL	7.5 x 7.5
24	20 Degree ellipsoidal	Colortran	1000	FEL	7.5 x 7.5
48	6x9 axial ellipsoidal	Altman	575	FLK	7.5 x 7.5
16	6x12 axial ellipsoidal	Altman	575	FLK	7.5 x 7.5
40	PAR 64		1000		10 x 10
9	3 Circuit cyc strips, 2 cells per circuit	LEE Colortran	1000	FCM	10 x 14
6	4 Circuit cyc strips, 1 cell per circuit	LEE Colortran	1000	FCM	10 x 14

Two (2) - 2000 Watt Xenon Super Trouper Followspots – shoot from bubble in ceiling above 2nd balcony.

Miscellaneous Equipment:

- 24 12” Double side arms
- 10 10’ Booms and bases
- 8 Clip lights
- 2 50’ Stage pin cables
- 8 25’ Stage pin cables
- 10 10’ Stage pin jumpers

Power:

- (2x) 400A 3Y/208VAC disconnects located stage left adjoining each other. These are fed separately from the 100A & 200A power listed below, and are on the same power grid as the dimmers.
- (1x) 100A 3Y/208VAC disconnect located stage left, downstage of above. (On facility power grid)
- (1x) 200A 3Y/208VAC disconnect located outside near stage entrance and loading dock. (bus/truck shore power, on facility power grid)

There are also 2 220v/20amp single phase circuits on the 1st balcony. L620 connectors.

GOODS & RIGGING

- 37 double purchase line sets on T-Track.
- Locking rail is located SR, 12' above deck.
- Maximum working height of battens is 48' - 2"
- 42'-0" Battens (x29) rated for 1000 lbs. capacity with 5 lift lines.
- Arbors rated for 2000 lbs. each.
- 8 Battens are extended 2'-0" per side (46'-0" overall length).
- Pin Rail galleries SL and SR 29'- 6" above deck for spot rigging.
- Loading bridge SR 34' - 4" above deck.
- Main Curtain flies and travels.
- Midstage traveler permanently located LS 20, 16' upstage of the proscenium.
- Movie screen permanently located LS 2, 2'-8" upstage of the proscenium.
- See attached line schedule for details.

Movie Screen

There is one (1) permanent movie screen for Fletcher Hall; the actual screen is 15'-2" by 31'-6" stretched on a metal frame flown on lineset 2. The batten trims out at 22'-6". The screen has frame border surrounding it, visible portion is 15'-2"H by 31'-0"W. The bottom of screen sits 48½" above deck.

The top and bottom of the masking are fixed, details as follows are:

Type	Aspect Ratio	Height	Width	Comments
Maximum		15'- 2" fixed	31'- 0"	
Scope	2.35	15'- 2" fixed	27'- 6"	
Beta/Video		15'- 2" fixed	21'- 8"	LCD projector
Flat	1.85	15'- 2" fixed		
Academy	1.37	15'- 2" fixed	20'- 2"	
TV	1.33	15'- 2" fixed		
Minimum		15'- 2" fixed	19'- 0"	

Soft Goods:

Qty.	Description	Height	Width	Weight	Comments
1	Main Curtain	2 x 23'	26'		Flies & travels Majestic – burgundy
1	Midstage Traveller	2 x 25'	24'		
1	Blackout	24'	42'		
1	Black Scrim – Sharkstooth	24'	42'		
1	White Scrim – Sharkstooth	24'	42'		
1	Seamless Cyclorama	24'	42'		
1	Bounce	24'	42'		
5 pr.	Legs	23'	12'		
5	Borders	6'	42'		

Ladders

- 1 - 4' Fiberglass
- 1 - 6' Fiberglass
- 1 - 8' Fiberglass
- 1 - 12' wood
- 1 - 14' Fiberglass
- 1 - 25' Genie lift

SOUND SYSTEM

The sound system has five components:

- Sound reinforcement/playback
- Intercommunications
- Paging and signal
- RF listening assistance (Telex)
- Film.

Sound Reinforcement:

The sound reinforcement capability of our system is partially appropriate for amplified concerts. The sound booth is located in the rear of the orchestra.

Processing and Rack Gear:

- 1 Yamaha M7CL Digital Mixer, 48 inputs. (Input/ Output patch panels in sound booth)
- 1 third-octave graphic equalizers (Ashley Protea 4.24g in stereo)
- 1 dbx 1046 quad compressor/limiter
- 1 Lexicon MPX-100
- 3 Altec 1431a 31 band 1/3 octave eq, patchable
- 1 Denon dual cassette deck for playback
- 1 Denon CD player

Microphones:

- 1 Shure wireless lavalier microphones
- 1 Shure wireless handheld microphone
- 6 Shure SM57 cardioid microphones
- 2 Shure SM58 cardioid microphones
- 1 Shure Beta SM58A microphones
- 6 Shure SM63 omni-directional microphones
- 3 Shure SM102B condenser microphones
- 3 Shure MX202B condenser microphones
- 3 Crown PCC 160 floor-mounting microphones
- 3 Audio Technica Pro 37 condenser microphones
- 4 Whirlwind DI boxes

Microphone Stands:

- 9 Adjustable floor mic stands
- 4 tripod mic stands w/boom
- 4 tripod short mic stands w/boom
- 3 Table mic stands
- 26 mic inputs located on stage and in house

Speakers:

FOH:

Meyer M'elodie Line Array, 16 boxes, 8 per side, permanently hung
*2 Jbl 4725 2 way enclosures, 15inch woofer and 1.4inch compression driver
*2 18inch subwoofers

**These speakers are our ground stacked FOH system, run tri-amped.*

Monitors:

2 Altec monitor sidefills, flown
4 Yamaha S155h-II speakers (sidefill monitors)
Speakers are powered by QSC and Altec amplifiers

Road/production mixing position located rear of orchestra, house right, under balcony. This position cannot be moved. A decibel meter may be provided to ensure a level of 94db in house at mix position.

Intercom System

Telex US-2000 headset system w/8 belt packs and single muff headsets.

Paging and Program Feeds

Selectable to dressing rooms, lobbies and ballrooms

Assisted Listening

Telex Sound Mate AAT-2, on channel A

Film Projection has separate sound equipment.

Contact the Technical Manager if specs are needed.

WARDROBE

Dressing Rooms:

All dressing rooms have vanity mirrors, lights and Showers.

2 Principal/Star	1 - 4 people
1 Quad	4 - 6 people
2 Chorus	20 - 25 people

One Green Room with kitchenette is available for the company.

One wardrobe/costume room is available for the company.

Wardrobe Supplies:

2 Irons	2 Ironing boards
1 Steamer	1 Washer
	1 Dryer