



**COLORADO CONVENTION CENTER
BELLCO THEATRE
TECHNICAL SPECIFICATIONS
REVISED AS OF 4/11/2017**

BELLCO SQUARE FOOTAGE

39,626 sq. ft.

LOADING DOCK (LOWER LEVEL DOCKS D & E)

Two end-load bays; one also has side loading capability
Distance from stage is approximately 100' (level, concrete surface)

PERMANENT STAGE DIMENSIONS

Width	100'
Depth	48'10"
Height	34'6" (to low steel, attachment is at 41'3")

STAGING (THRUST)

20 - 6'x8'x36" (stage level) risers available for thrust

MEASUREMENTS AT THE PROSCENIUM

Grand Teaser Opening	76' 0"
Stage floor to bottom of Grand Teaser	25' 0"
Stage floor to proscenium arch	32' 6"
Stage floor to bottom of tension grid	34'7"
Stage lip/plaster line to FOH	125'

DRAPES AND MASKING

INCLUDED WITH RENTAL OF SPACE

Front Curtain, Gray Motorized (Control is DSL)
Front Teaser, Gray
Mid-Stage Traveler, Black
4 Sets of Legs, Black
4 Borders, Black

ADDITIONAL SOFT GOODS

1 - Cyc, White Leno – 30'x60'
1 - Scrim, Black
1 - FOH Upper Level Curtain, Black (Fixed position, cuts house down to approx. 3,700)

AIRWALLS

2 - Air walls (Fixed position; cuts house down to approx. section 1 – 1,300, section 2 – 2,300, section 3 – 1,300)

RIGGING

TROLLEY BEAMS

FOUR POINTS SPACED OVER THE STAGE
4000 POUND POINT LOAD OR 500 POUNDS PSF UNIFORM LOAD

ROOF TRUSSES

MAXIMUM OF SEVEN 3000 POUND POINT LOADS AT DEFINED HANGING POINT LOCATIONS ON GRIDIRON

MAXIMUM OF THREE 1000 POUND POINT LOADS LOCATED AS FOLLOWS:

- A. 3'- 0" FROM TRUSS PANEL POINT
- B. SPACED AT 15'- 0" ON CENTER (MINIMUM DISTANCE).

ROOF BEAMS

MAXIMUM OF ONE POINT LOAD PER BEAM MEETING THE FOLLOWING:

- A. 300 POUND POINT LOAD (MAX) AT ANY LOCATION ALONG BEAM
- B. 500 POUND POINT LOAD (MAX) LOCATED WITHIN 5'- 0" FROM END OF THE BEAM

W18 BEAMS

EACH W18 CAN SUPPORT ANY ONE OF THE FOLLOWING LOAD COMBINATIONS:

- A. 50 PSF
- B. 1000 POUND POINT LOADS SPACED AT 5'- 0" ON CENTER (MIN)
- C. A SINGLE 5000 POUND POINT LOAD ON BEAM

W10 IN-FILL BEAMS

EACH W10 CAN SUPPORT ANY ONE OF THE FOLLOWING LOAD COMBINATIONS:

- A. 50 PSF
- B. A SINGLE 1000 POUND POINT LOAD ON BEAM

"...Point loads of 1000 lbs or less suspended from the major roof beams are acceptable. As a guide, assume W24s can support 1000lbs, W18s can support 750lbs, W16s can support 500lbs; these loads can be placed at each end or one in the middle. The trusses can support 2000lbs from panel points."

TRUSS

- 33 – Thomas 20 ½" HD Triangle in 10' Sections (joins with pins)
- 4 – Thomas 12" GP Box in 8' Sections (bolted)
- 4 – Thomas 12" HD Box in 8" Sections (bolted)

CHAIN HOISTS

All 50' motor cable:

- 3 - 2 Ton (440v – 4 additional for house use)
- 16 - 1 Ton (440v)
- 2 - 1/2 Ton (110v – 3 additional for house use)
- 8 - 1/4 Ton (440v)

LIGHTING

LAMP FIXTURES

- 130 - ETC Source 4 19° 750W Ellipsoidal
- 45 - ETC Source 4 10° 750W Ellipsoidal
- 10 - ETC Source 4 5° 750W Ellipsoidal
- 24 - ETC Source 4 750W Parnel
- 26 - Altman 1000W MFL Par 64 Cans
- 30 - Coemar iSpot 575W Moving Lights
- 22 - Chroma Q Color Force 72 RGBA LED Strip Lights

LAMP ACCESSORIES

- 50 - Wybron CXI Color Changers
 - 50 - Backplates for Source 4 Ellipsoidal
 - 30 - Backplates for Source 4 Parnel
 - 8 - Color Changer power supply (each powers 8 color changers)
- 16 - 'A' pattern holders
- 5 - 'B' pattern holders

DIMMERS

- ETC Sensor Dimmers (480 Dimmers, 30 Non-Dims)

LIGHTING CONTROL

- 1 - Grand MA-2/Full
- 1 - ETC ION 2000 (W/ 2x20 Fader Wing)

FOLLOW SPOTS

- 4 - Xenon Super Troupers 2000W
 - Located in ceiling/booth approx. 120' from front center stage
 - Movable from center to varying positions, out to approx. 60 degrees left or right

AUDIO

REINFORCEMENT

For Talking Head Scenario

L'-ACOUSTICS LINE ARRAY; Two arrays S/R and S/L, total equipment consisting of:
12 dv-DOSC Loudspeakers, 2 SB28 Subwoofers, 4 8XT Speakers

For Dynamic Presentation/Entertainment

L'-ACOUSTICS LINE ARRAY; Two arrays S/R and S/L, total equipment consisting of:
24 dv-DOSC Loudspeakers, 6 dv-SUB Subwoofers, 4 SB28 Subwoofers, 8 8XT Speakers, 4 ARCS II Speakers, 8 LA8 Integrated Amplifier/Controllers, 1 Midas XL88 Matrix Mixer

Additional Speakers

4 - JBL MP412 Monitor Wedges

6 - L-Acoustics 112P Self-powered Coaxial Speakers

NOTE: You will need to provide your own "personal monitors" (i.e., video village monitors)

INPUTS

1 - 300' 42x16 snake from FOH

AUDIO CONTROL

1 - Yamaha PM5D v2 with Dugan-My16 Auto Mixing Controller Card

WIRELESS MICS

5 - Shure UR4D 2-channel receivers (10 channels; 638-698 MHz frequency range)

10 - Shure UR2 handheld transmitters with either SM58 or Beta87A Capsule

10 - Shure UR1 transmitters with Shure 185 Lavs

12 - Channels of Shure ULX4D (Frequency Band G50 - 470-534MHz) Handheld and beltpack

12 - Shure WL184 Supercardioid Lavalier microphones

3 - Countryman E6 Flex Directional EarSets

WIRED MICS

10+ - EV 757 Handheld

10 - Countryman Isomax 4RF Hypercardioid 18" gooseneck

2 - DPA 4081 Miniature Cardioid

8 - AKG-CK47 Mic Capsules (with HM1000 hanging modules)

10 - Shure SM58-LC

7 - Shure SM81-LC

INTERCOM

1 - Clear-Com 2-Channel (A or B) Hardwired

15 - Belt Packs

15 - Head Sets

Plug-in Locations: DSL, DSR, USL, USR, Spot Booth, FOH Control Position,
3 in Audience, Green Room

MISCELLANEOUS AUDIO

2 - CD Players

24 - Assistive Listening Devices

1 - Press Feed Multibox

10- Shure CVD-B Desktop Base

VIDEO

SCREENS (fixed positions)

5 - 15' high X 20' wide

One center of house over pit

One each side of center over pit (2 total)

One on each proscenium wall near stage (2 total)

PROJECTORS (fixed positions)

2 – Side Projectors Hitachi CP-X8160 LCD, 6000 Lumens (positioned for proscenium wall screens)

1 – Center Projector Christie X3 HD, 4500 Lumens (positioned for center screen)

VIDEO FEED

Feeds needed to tie into house screens and projectors

- VGA - Front of House Position

- 5 Wire - Down Stage Left and Right

Flat screens are located in green room and all dressing rooms. A composite output is required to run video to back of house.

MISCELLANEOUS VIDEO

1 – DVD Player

NOTE: You will need to provide your own “personal monitors” (i.e., video village monitors)

TEMPORARY POWER/COMPANY SWITCHES

NOTE: Provide male Cam-Loc connectors at each panel for all 5 legs.

SW #	Location	Voltage	Amp	Phase	Wire
1	On Dock Side of USR Rolldoor - Stage level	208	400	3	5
2	On Dock Side of USR Rolldoor - Stage level	208	400	3	5
3	On Dock Side of USR Rolldoor - Stage level	208	400	3	5
4	On Dock Side of USR Rolldoor - Stage level	208	225	3	5
5	USL - Stage level	208	400	3	5
6	USL - Stage level	208	225	3	5
7	On Dock Side of SR Access Door-Grid level	208	400	3	5
8	On Dock Side of SR Access Door-Grid level	208	400	3	5
9	DSR at Catwalk #1 - Grid level	208	225	3	5
10	FOH above Door #5	208	400	3	5

POWER DISTRIBUTION

2 - MLI 200A BUSS with the following outlets:
6 x L6-30, 3 x L14-30, 6 x Standard convenience outlets

SHOREPOWER

FOR BUS/MOTOR COACH

Capacity to service three busses/motor coaches with 50amp 120/208v 1p each
NEMA 9450, standard 4pin straight blade that matches busses/motor coaches

LIFTS/MECHANIZED EQUIPMENT

Please ask for availability:
Electric Scissor Lift
30' Genie Lift
24' Genie Lift
Forklift
Pallet Jack

MISCELLANEOUS EQUIPMENT

3 - Oak Wood Lecterns
1 - 6' Kimball Grand Piano
1 - Baldwin Upright Piano
6 - Sections of 5'x7' scaffolding
20 - Cable Ramps
4 - Fire Extinguishers
3 - Smoke Detectors
4 - US Flags
3 - Colorado Flags
2 - Denver Flags