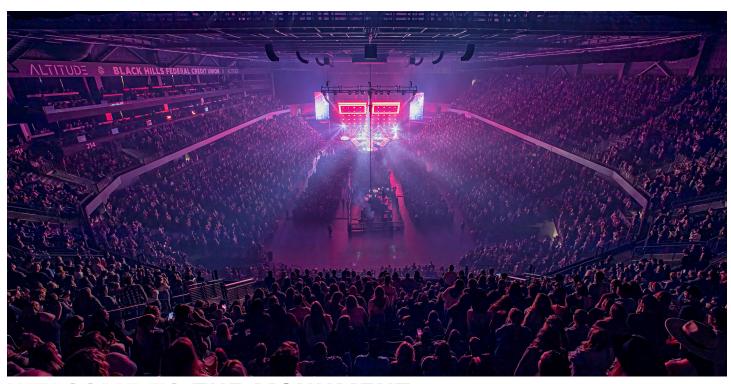
SUMMIT ARENA PRODUCTION GUIDE



WELCOME TO THE MONUMENT

HOME OF SUMMIT ARENA

The Monument C/O Production Department 444 Mt. Rushmore Road N. Rapid City, SD 57701

605.394.4115

themonument.live

Contacts:

JASON HOPE - Production Manager

E-mail

jasonh@themonument.live

Office Number

605.394.4115

Cell Phone Number

605.381.0233

Amy McClure - Lead Tech

E-mail

amym@themonument.live

Office Number

605.394.4115

Cell Phone Number

605.939.5992

SUMMIT ARENATable of Contents

3: Directions and Parking 4-6: Summit Arena Map Event Level Main Concourse Level

7: Venue Equipment

8: Beam Rigging

9-10: Grid Load Configurations

& Premium Levels

11-12: Rigging Bay Sectors

13: Building Sections

14: Summit Arena Power

15: House Curtain Plans and Elevation

16: LED Display and Scoring

17: Safety and Production

18: The Monument Complex Map

19-25: House Equipment



DIRECTIONS

FROM I-90 - Smaller Truck Route BLUE LINE

From I-90 (heading East or West) take Exit 57, the I-190 Byway heading South and take Exit 1C. Turn left onto North Street and proceed to the 4 Way Stop and continue straight to take a right on to 5th Street, proceed South. Head down to the light at New York Street and take a right. Continue to the building and follow the driveway North to the gate continue thru and Summit Arena Loading Docks 1-5 will be on left.

FROM I-90 - Larger Truck Route RED LINE

From I-90 (heading East or West) take Exit 57, the I-190 Byway heading South continue to street light and take a left on Omaha St. Continue in the left lane and take a left at the second light, 5th Steet. Head North to the light at New York Street and take a left. Continue to the building and follow the driveway North to the gate continue thru and Summit Arena Loading Docks 1-5 will be on left.

FROM AIRPORT - Approximately 20 minutes

Depart airport to SD-44 West/East Omaha St., continue straight for 9 miles. Turn right onto 5th Street proceeded by a left on New York Street into Lot E at The Monument. Continue to the building and follow the driveway North to the gate continue thru and Summit Arena Loading Docks 1-5 will be on left.



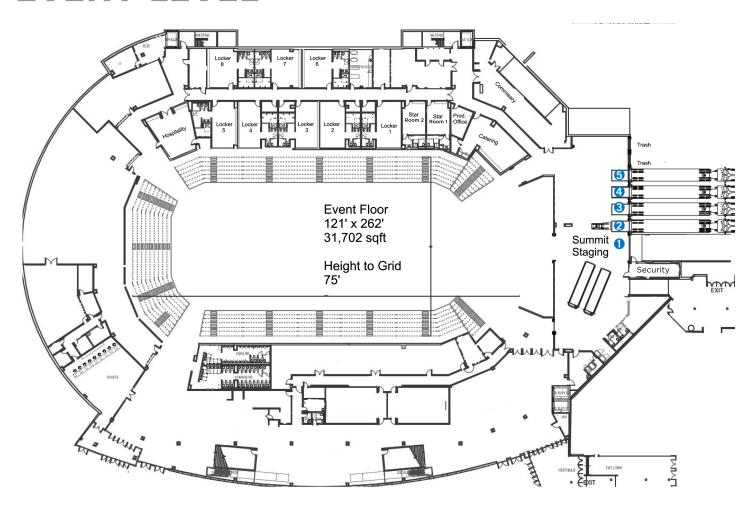
Click HERE for directions to The Monument

SHOW PARKING

Trucks can be queued in Lot E3 behind the hotel, East of loading docks 1-5. Buses can be located directly East of Loading docks, West of Lot E3. Shore power is available at the bus parking location. The security door entrance is also the stage door for access throughout the day.

SUMMIT ARENA

EVENT LEVEL



Back of House

- 8 Locker Rooms (main area with restrooms and showers)
- 2 Star Dressing Rooms (Green room with restroom and showers)
- 1 Dedicated Production Office
- 1 Catering Room
- 1 Hospitality Room
- 1 Laundry Room (Washer and Dryer)
- 1 Staging area (Loading docks, ramp, and stage power, two restrooms)

SUMMIT ARENA

EVENT LEVEL

Load In Access

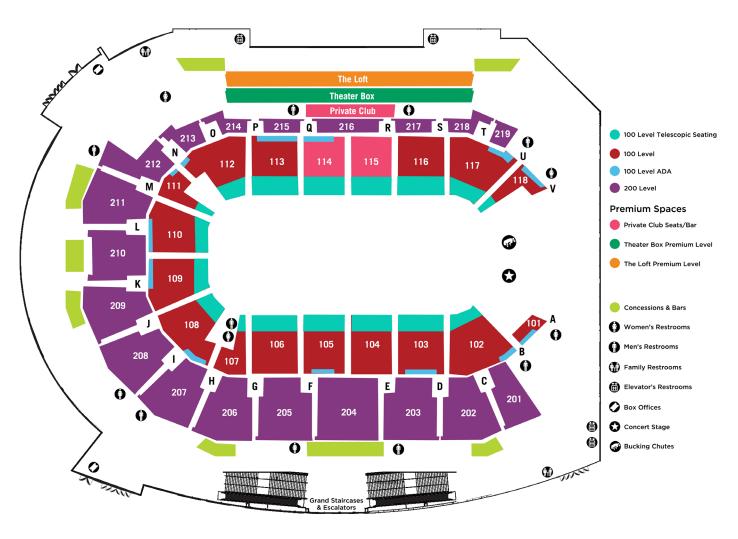
Loading Docks 2 - 5 with levelers and seals, and Loading Dock 1 is a ramp from street level to the staging area, are located on the East side of Summit Arena. The staging area has plenty of room for dead storage. The distance from dock doors to arena floor is 50'.





SUMMIT ARENA

CONCOURSE LEVEL & PREMIUM





VENUE EQUIPMENT

Venue Audio

The arena's distributed line array system consists primarily of JBL VRX932LA-1 elements with JBL ASB6128 Sub-woofers, powered by Crown DCI amplifiers, through a Dante network. The arena's back of house and premium areas are covered by JBL 70v ceiling systems. All of this is controlled from the AV room on the fourth level.

- Please note, we have premium level seating, located stage right, that requires audio attention to provide adequate sound.
 - First premium level seating is 40' from the floor
 - Second premium level is 60' from the floor.
 - Each level is 185' long from stage to the end of house.

Clear-Com

Video has a 4 channel comm system, and there is a separate 2 channel system throughout the arena for spotlights and FOH needs.

Venue Lighting

Dimmable LED sport and house light fixtures 6 - Gladiator 4 (4k)

Venue Video

The house video system is built around the Newtek TriCaster TC1 with the 2Stripe IP control panel, and uses 3P1 3Play for slow motion and replay, and SuperLogics for character generation.

- Cameras
 - 3 Ikegami HC-HD300

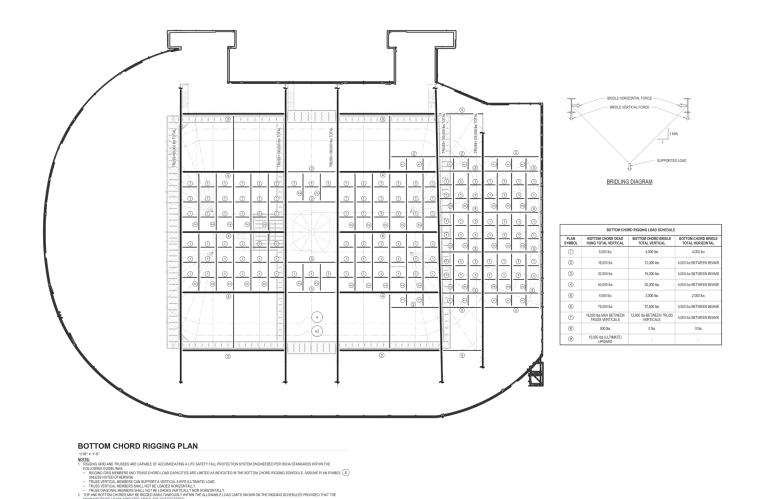
Broadcast Trucks

There are 4 - 200 amp disconnects for broadcast truck power. There is also a broadcast truck hookup with connection points throughout the arena.

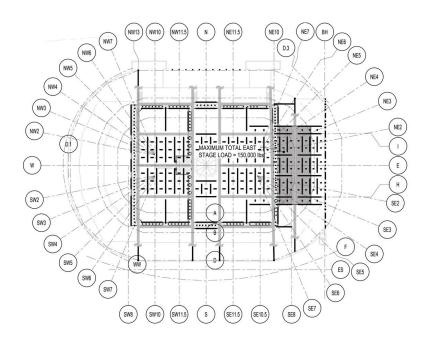
Maximum Beam Rigging Loads

The rigging grid covers the entire arena floor, with an expanded grid over the end house stage position. The grid has a height of 75' and has a 150,000 lbs. limit, depending on which zone is rigged in. There is a minimum 5,000 lbs. dead hang limit and a minimum 4,000 lbs. bridle limit, with additional capacity depending on grid location. See following diagrams for more information.

Only experienced riggers are permitted on the rigging steel. All riggers are required to use Fall Arrest Equipment while rigging.

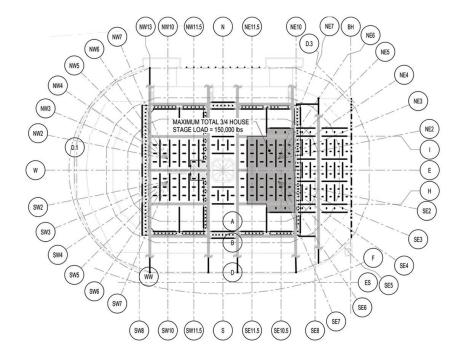


Maximum Grid Load Configurations



BOTTOM CHORD RIGGING PLAN - EAST STAGE LOAD PLAN

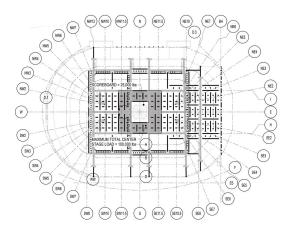
- NOTES:
 1. TOTAL LOAD SHALL BE DISTRIBUTED OVER SHADED REGION. TOTAL LOAD DISTRIBUTED OVER A SMALLER AREA RESULTING IN AN INCREASE IN RICGING LOAD DENSITY IS NOT ALLOWED.
 2. MAXIMUM CENTER STAGE, WEST STAGE, 3/4 HOUSE, AND END STAGE LOADS SHALL NOT OCCUR SIMULTANEOUSLY.



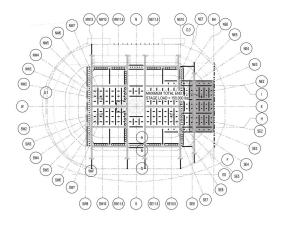
BOTTOM CHORD RIGGING PLAN - 3/4 HOUSE LOAD PLAN

- NOTES:
 1. TOTAL LOAD SHALL BE DISTRIBUTED OVER SHADED REGION. TOTAL LOAD DISTRIBUTED OVER A SMALLER AREA RESULTING IN AN INCREASE IN RIGGING LOAD DENSITY IS NOT ALLOWED.
 2. MAXIMUM CENTER STAGE, WEST STAGE, 34 HOUSE, AND END STAGE LOADS SHALL NOT OCCUR SIMULTANEOUSLY.

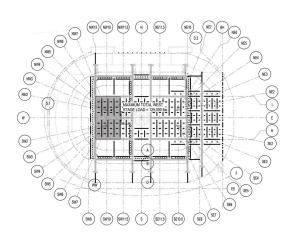
Maximum Grid Load Configurations



BOTTOM CHORD RIGGING PLAN - CENTER STAGE LOAD PLAN



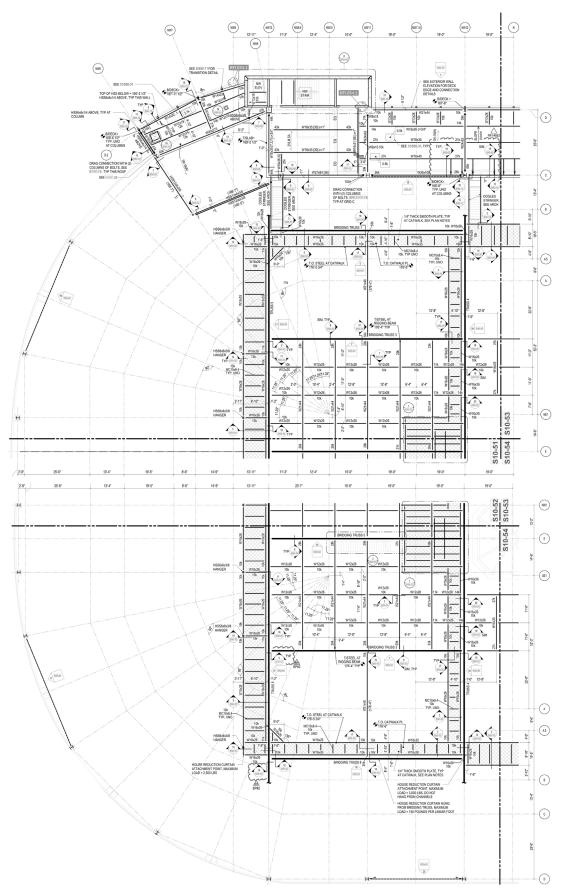
BOTTOM CHORD RIGGING PLAN - END STAGE LOAD PLAN



BOTTOM CHORD RIGGING PLAN - WEST STAGE LOAD PLAN

IBUTED OVER SHADED REGION. TOTAL LOAD DISTRIBUTED OVER A SMALLER AREA RESULTING OAD DENSITY IS NOT ALLOWED. EST STAGE, 314 HOUSE, AND END STAGE LOADS SHALL NOT OCCUR SIMULTANEOUSLY.

Rigging Bay - Sectors 1 & 2 (West Summit Arena)

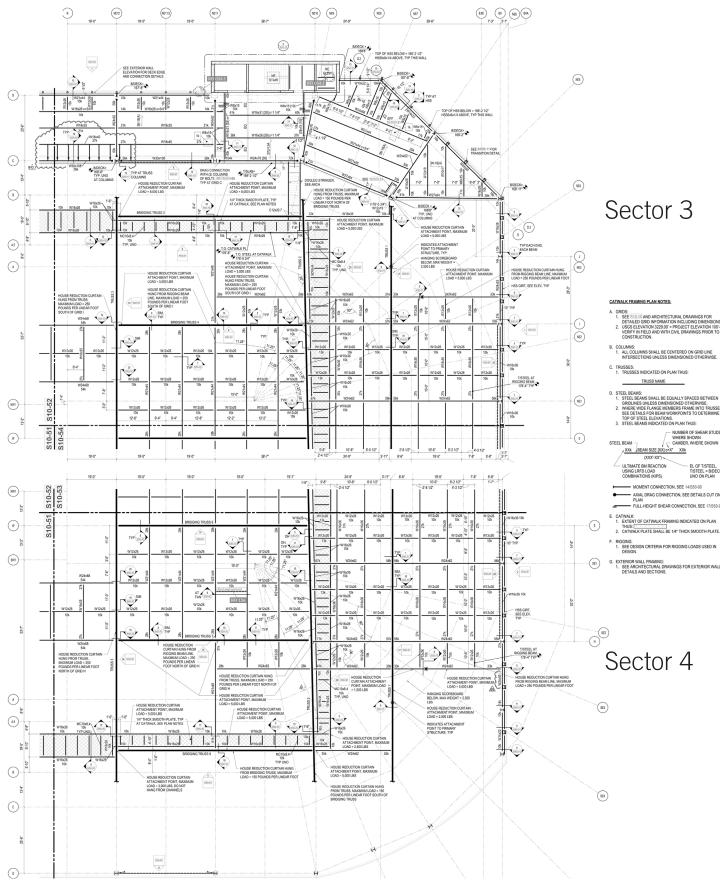


Sector 2

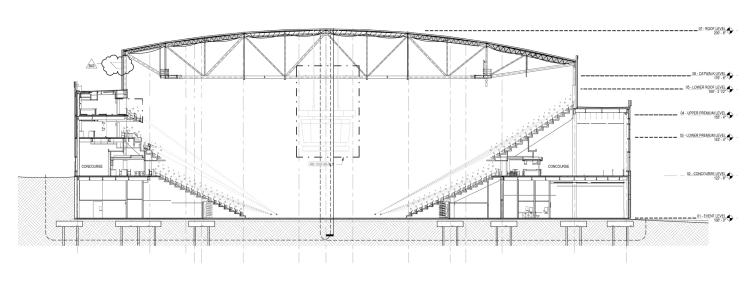


Sector 1

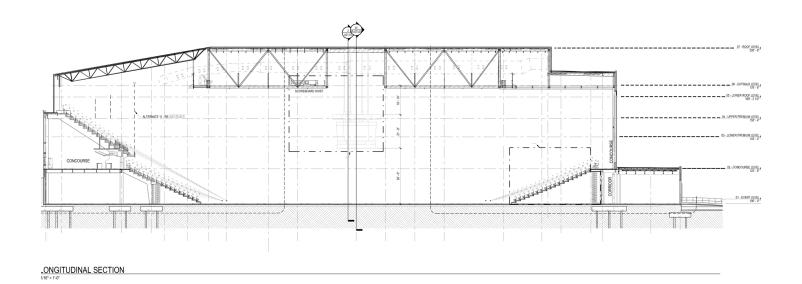
Rigging Bay - Sectors 3 & 4 (East Summit Arena)



Summit Arena Building Sections

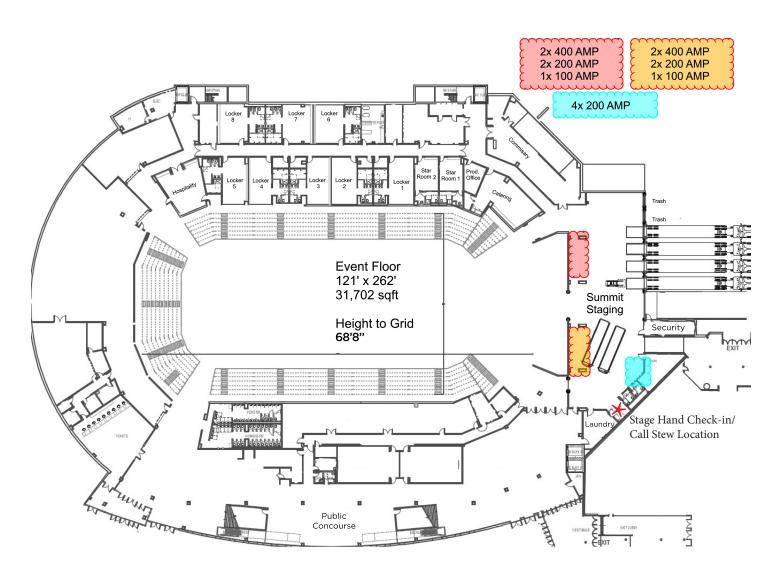


NSVERSE SECTION



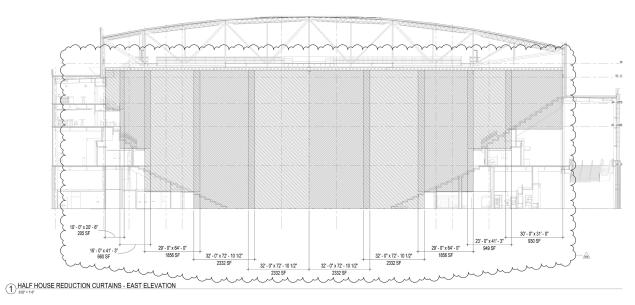
Summit Arena Power

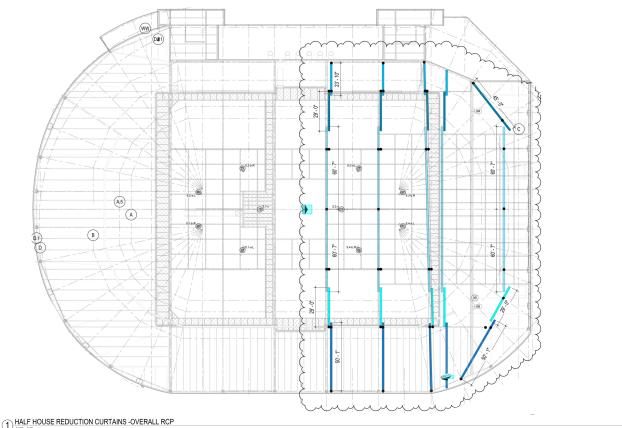
Show power is located within the staging areas, and consists of 4 - 400 AMP, 4 - 200 AMP, 2 - 100 AMP (cam-lok only) split between stage right and stage left. There are an additional 4 - 200 AMP (cam-lok only) located in the South East corner of staging for broadcast trucks. House does require the use of a licensed electrician for connects and disconnects. Shore power for buses and trucks can be found along the North wall of the Summit Arena's loading dock area. There are 6 - 50AMP plugs down the length of the retaining wall.



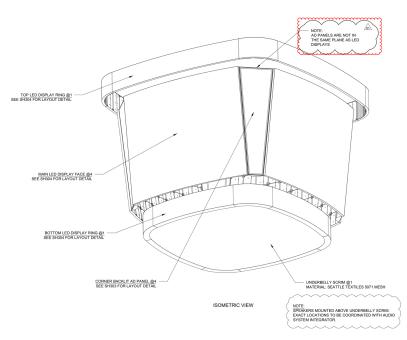
Half House Curtain Plans and Elevation

The Summit Arena is equipped with both half house and house reduction curtains. The half house curtains are used to reduce the floor and seating space visible from one end of the arena to the other. This system is composed of curtains hung off of several lengths of truss, flown with ½ ton CM Lodestar motors, and can be moved up stage and down stage in the arena for different setups (end house, ¾ house, ½ house). The house reduction curtains block off the upper bowl seating.





LED Display and Scoring



The house Daktronics
Center Hung consists of 4
main displays, a top ring,
and a bottom ring, all of
which can be raised entirely
into the grid, out of sight.
There is also a Ribbon that
wraps around the North,
West, and South sides, and
a package of scorers tables
for sporting events.

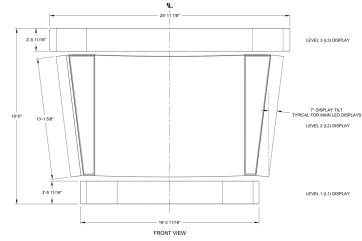
Main Display: 672 x 840

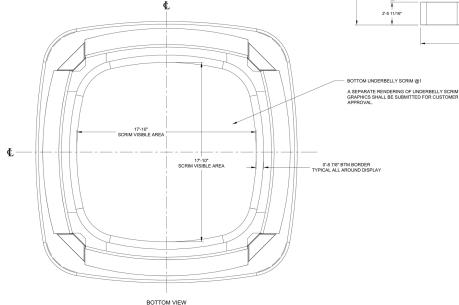
Top Ring: 126 x 4708

Bottom ring: 126 x 3364

Ribbon Display: 48 x 12320

(3) Scorers Tables: 64 x 288





SAFETY AND PRODUCTION

The Monument takes pride in ensuring the safety of all of its guests (both front and back of house). From fire lanes to pyrotechnic regulations, the following are some of the policies the building enforces to maintain a safe environment

EQUIPMENT/ FORK LIFTS

The use of the facility equipment, such as the forklifts, can only be operated by individuals certified by the facility to use that piece of equipment. All equipment should be operated and stored in a safe fashion.

FIRE REGULATIONS

For pyrotechnics, lasers, and open flames, an on-site inspection may be required. All pyrotechnicians will need to have proof of the proper licensing with the ATF. Related paperwork (pyrotechnics, fireproofing certificates, insurances etc.) should be available upon request. For more information or questions please contact the Rapid City Fire Prevention Department at 605.394.5233

CABLES AND CORDS

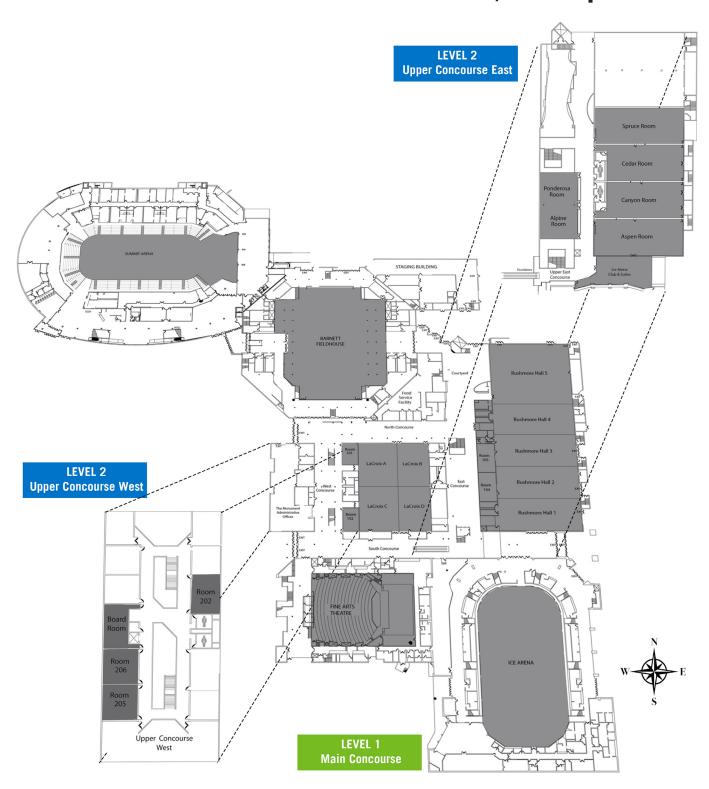
Any cable or cord that is in an area on the floor that is accessible to a guest, employee or member of a visiting tour must be covered by a cable ramp, or some kind of tape in order to minimize a tripping hazard.

LABOR

The Monument has a contract with IATSE Local 731. Calls and labor billing are both through the building. For production labor or equipment estimates, contact Jason Hope at (605) 381-0233 or JasonH@themonument.live

ALL UNDER ONE ROOF

Total of 480,000 square feet.



The Monument carries a large array of Stage Right equipment. To compliment these packages, we have several accessories, such as easy lift stairs, wheel chair ramps and lift, handrails and skirting.

Staging

- 49 ME-500 Stage Supports 48"-78"
- 20 ME-3750 Rolling Stage Supports 48"-78"
- 347- 4x8 Reversible Decks
- Z-800 portable stage support for riser packages

(No rolling risers)

47 – 16"-24" legs

37 - 24"-32" legs

- Stairs, ADA Ramps, Wheelchair lifts, guardrails, and skirting available
 - 4- Easy Lift stairs 48"-78"
 - 1- Ascension Virtuoso 5460P ADA Lift
 - 4 ADA Ramp Packages

Rigging

- 4 1T CM Lodestar Motor w/ Distro
 (80' of chain, Ice Arena and Summit Arena only)
- 5 1T CM Lodestar Motor w/ Distro
- (50' of chain, Ice Arena and Theatre Only)
- 2 1T CM Lodestar Motors Pickle Ran only
- (Theatre and Barnett Only)

Rigging cont.

- 10 10' sticks of 12" box truss
- Rigging Steel package

 (assortment of steel and spanset lengths, shackles, and burlap)

The Monument has several pieces of heavy equipment available to rent, including multiple forklifts of different capabilities, various aerial lifts, and scissor lifts.

Forklifts

- 1- Mitsubishi high lift mass that won't fit into Semis
- 2 Clarke 3k lb. capacity
- 1 Clarke 9k lb. capacity
- 1 Toyota 6k lb. capacity
- 2 sets of slide over fork extenders

Lifts

- 1 Genie Z-60 Boom
- 1 26' Scissor Lift
- 1 Genie 36' single person man lift
- 1 19' Scissor Lift
- 1 JLG 300A Lift

Portable Video Equipment

- Various sized LED screens on carts
- Projection
 - 6 Panasonic PTRZ570B 5,000 Lumen Laser Projector 19'x25' flown projection screen

Front and rear project, Theatre Only

9'x12' fast fold projection screen (4:3)

Front and rear skins available, bottom drape only

7'x12' fast fold projection screen (9:16)

Front and rear skins available, bottom drape only

8'x8' projection screen

Video Switching Consoles

Atem Television Studio HD Pro

Atem Mini Extreme Iso

SSD Recording Capabilities

Atem Mini Pro

- Dedicated Video Recording
 Black Magic Hyper Deck Studio HD Mini
- Laptops
- 2 dedicated Production Laptops for running content etc.
- Cameras
 - 2 Newtek PTZ1 NDI cameras
 - 3 Sony PXW-X160 w/ Tripod
 - 3 Sony PXW-X200 w/ Tripod

Portable Video Equipment cont.

- Elgato Cam Link 4k HDMI to USB capture device
- 5x Decimator DEC-MD-LX (HDMI/SDI bi-directional converter)
- 2x Dak 70
- 2x 4 channel SDI splitter
- Trip lite SDI to Network adapters (2 input, 3 output)
- 3 SDI to NDI adapters (2 netwek sparks, 1
- 1 20x20 SDI Router
- Cabling and adapters

We have, on hand, a large variety of cables including SDI, HDMI, VGA, and almost every adapter you could think of.

Portable Audio Equipment

Boards

Behringer X32 compact

Behringer X32 Producer

5 - Behringer Xenyx 1002 (5 Channel)

1- Behringer

• IO Box

Behringer S16 (16 channel digital snake)

2 - MOTU M4 4x4 usb-c audio interface

Portable Audio Equipment cont.

Microphones

QLXD G50 (beltpack/handheld combo)

Electro Voice RE15 Mic

Electro Voice RE16 Mic

Shure PZM-6LP Mic

Rode NT5 Mic

Shure SM53 Mic

Sennheiser MKH 416 Mic

Shure SM81 Mic

Shure Beta 87 Mic

Shure SM87 Mic

Sennheiser 421 Mic

Flectro Voice RF20 Mic

Crown PCC-160 Mic

Sennheiser K3N Mic

Shure SM58 Mic

Shure MX202B Mic

Shure SM57 Mic

Shure SM85 Mic

Shure 565SD Mic

Microphone Stands and Podiums

Assortment of straight and boom mic stands (Small, large, huge, etc)

- Microphone Stands and Podiums cont.
 - 2 double goose neck stands
 - 1 Black truss Podium (lectern)
 - 8 Golden oak podiums (lectern)
 - 5 Dark wood veneer podiums (lectern)
 - 1 Light wood laminated podium
 - 1 Double wide Gold Oak podium

Double step conductors podium

Single step conductors podium

50 - Music stands

RF Venue DISTRO4 w/ fin antenna

Clear Communication

Portable 1 channel comm station

Miscellaneous

10 channel xlr press box

Portable 1 channel clear comm station with beltpacks and muffs

Ground Lift Transformers

LTI – single channel passive 3.5mm direct box (laptops, ipods, phones, etc)

- 1 Portable Hard of Hearing System
- Cabling and adapters

We have, on hand, a large variety of audio cables and adapters for almost every situation.

The complex also carries an array of other equipment.

Pipe and Drape
2120' of 8' Black
120' of 8' White
469 - Silver Poles
55 - Black Poles

- US and SD State Flags in various sizes
- 232' of CC500 Barricade
 Plus 2 inside and 2 outside corners
- 697' of Bike Rack



MONUMENT

444 Mt. Rushmore Rd. N. Rapid City, SD 57701 605-394-4115 themonument.live

