

Carlson Family Stage Technical & Production Specs

Touring Version

Last Updated October 20, 2025

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Carlson Family Stage at Northrop

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Contacts

Northrop

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Director of Northrop

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Production & Stage Justin Burke

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Audience Services David Russell

Audience Services Manager

612-301-1960 dwrussel@umn.edu

Business Development & Customer Support

Cari Hatcher

Director of Business

Development and Customer

Support 612-625-6003 chatcher@umn.edu

Artistic & Community

Programs

Kristen Brogdon

Director of Artistic and Community Programs

612-626-8711

kbrogdon@umn.edu

Phone Email Web

Mailing Address

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northrop@umn.edu northrop.umn.edu 84 Church Street SE

Suite 90

Minneapolis, MN 55455

Social Facebook, Twitter,

Instagram, YouTube: @northropumn

Northrop Loading Dock Delivery Address

73 Pleasant Street SE Minneapolis, MN 55455

Ticket Office

Ticketing Eli Halterman

Box Office Manager

612-301-1962 halte033@umn.edu

Box Office Phone

Fax Email 612-624-2345 612-625-4008 umntix@umn.edu

Food Service

Sky Lakes Catering at Northrop, The Bistro

at Northrop, & Concessions 612-625-4884 Skylakes@umn.edu

University Contacts

First Aid EMS

612-626-1312 umems@umn.edu dem.umn.edu/umems

Motorist Assistance

Program (MAP)

612-626-7275

612-624-WALK

Campus Security

Monitor Escort Service

University Parking and 612-626-7275

Transportation Services umn.edu/pts

parking@umn.edu

Info at a Glance

Venue Info

Name Northrop

University of Minnesota

Phone 612-625-5000 **Address** 84 Church St SE

Suite 90

Minneapolis, MN 55455

Technical Director Justin Burke

612-626-8245

burke018@umn.edu

Catering Contact Referral on request

Venue Details

Total Capacity 2,692 **Balconies** 3 8 **Boxes Sound Wings** No **Barricades** No

Stage Size 60' wide, 69'9" tall, 39'6" deep

(18.3 m wide, 21.3 m tall, 12 m deep)

Fire Curtain Yes **Sound Restriction** No **Smoke Detectors** Yes

House Light Location Front of House Sound &

Light Desk Location

Control Booth and Stage Right

Rows M, N, P, Q

Front Curtain Color Maroon

Production Office Yes

Production Phone 612-301-7153

612-301-7154

Dressing Rooms 10 **Toilets** 13 **Showers** 13

Hospitality Area Yes - Green Room

Kitchen No **Gas Cooking Permitted** No

Hot & Cold Running Water Standard sink

Kitchen Power Nο Load-in Entrance

Loading dock with machine door. **Details**

Door is 10' wide by 20' tall. (3 m wide by 6.1 m tall)

Distance to Stage 38' (11.6 m) **Parking Trucks** Max 2 on site

Parking Buses 2 to 3 depending on number

of trucks

Shore Power 2-100 amp, 208 volt, 3 phase

Parking Permits Provided upon arrival

Elevator

Elevator Dimensions 10'6" wide, 8' deep, 7'6" tall

(3.2 m wide, 2.4 m deep, 2.3 m tall)

Elevator Distance to Stage 28' (8.5 m)

Merchandise Area

Contact

Yes — located in Atrium

Laura McKenna

Food and Beverage Manager

Bistro at Northrop 612-625-0993 lmckenna@umn.edu

Seating

Carlson Family Stage at Northrop can seat a maximum total of 2,687 people.

Orchestra (G)	734 fixed + 21 loose (10 possible wheelchair)	755 seats
Orchestra Circle (1)	386 fixed + 14 loose (14 possible wheelchair)	400 seats
Presidents Circle (2)	357 fixed + 46 loose (O possible wheelchair)	403 seats
Scholars Circle (3)	433 fixed + 46 loose (10 possible wheelchair)	479 seats
Gallery Circle (4)	622 fixed + 28 loose (8 possible wheelchair)	650 seats

The following features would require seats to be removed from the Orchestra Level:

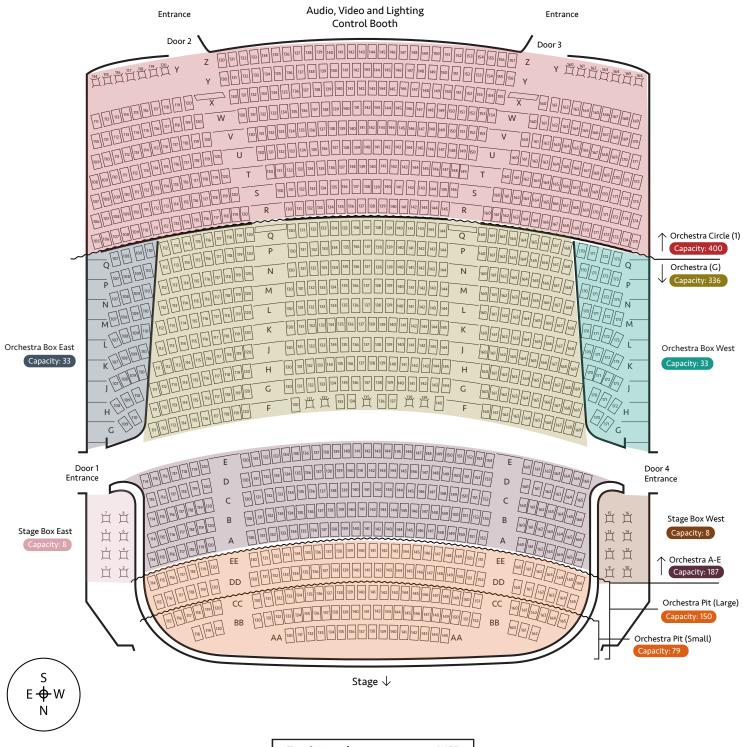
Orchestra Pit (Large/Full)	Accommodates up to 68 musicians	150 seats
Orchestra Pit (Small)	Accommodates up to 36 musicians	79 seats

Mixing/Sound Position

30-40 seats

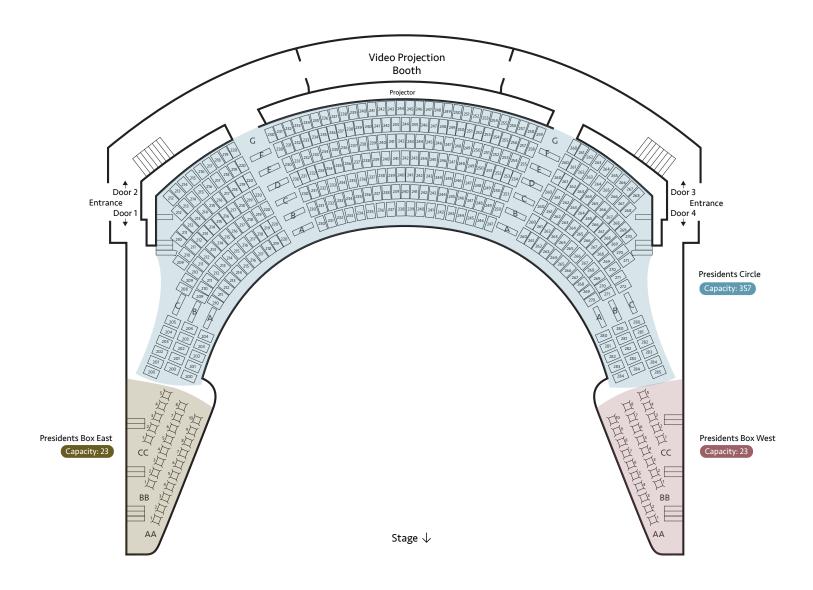
Mix Position seating will need to be removed before or during Load In labor calls. Approximate time to remove is 45 minutes with 4 stagehands.

Orchestra (G) & Orchestra Circle (1)



Total Capacity:	1,155
Orchestra Circle R-Z	400
Orchestra F-Q	336
Orchestra Box East	33
Orchestra Box West	33
Orchestra A-E	187
Pit (Large)	150
Pit (Small) (Part of Large Pit)	79
Stage Box East	8
Stage Box West	8

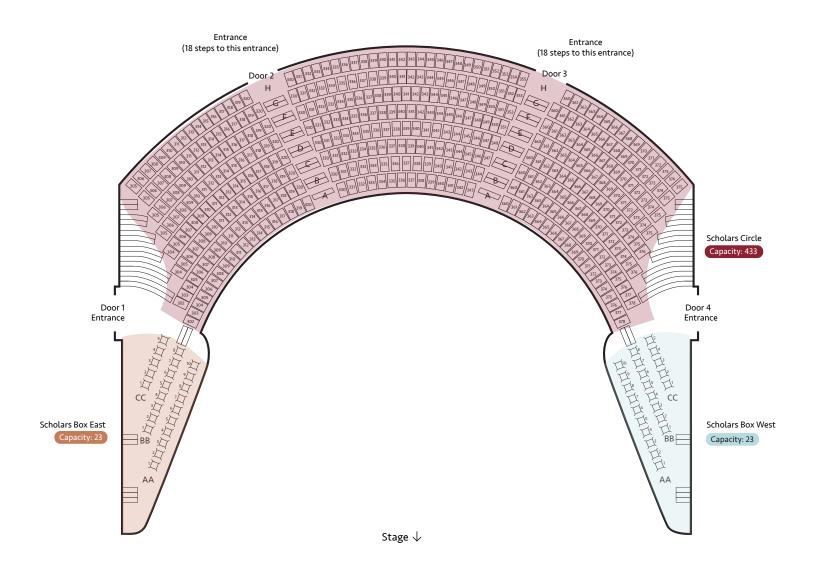
Presidents Circle (2)





Total Capacity:	403
Presidents Circle	357
Presidents Circle Box East	23
Presidents Circle Box West	23

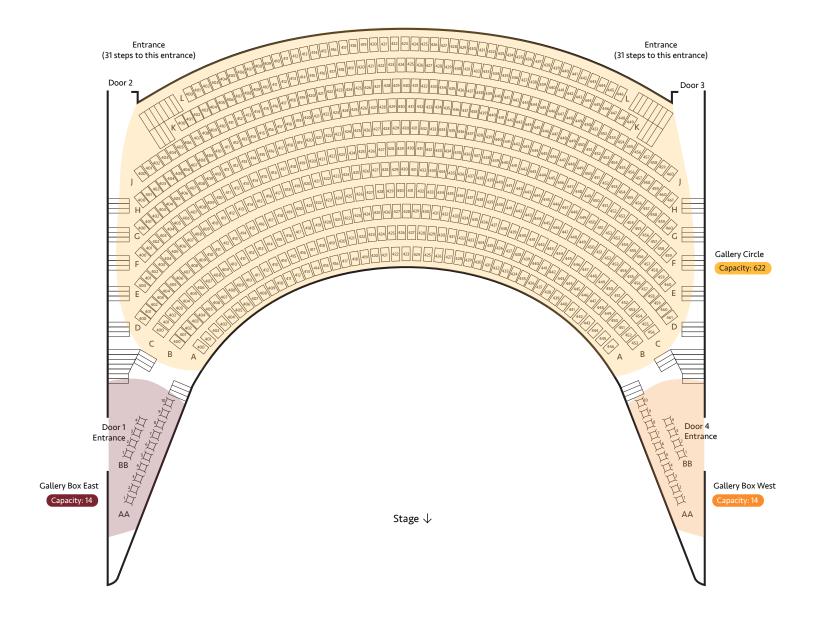
Scholars Circle (3)





Total Capacity:	479
Scholars Circle	433
Scholars Circle Box East	23
Scholars Circle Box West	23

Gallery Circle (4)





Total Capacity:	650
Gallery Circle	622
Gallery Circle Box East	14
Gallery Circle Box West	14

Stage Specifications

Stage & Proscenium		
Stage Depth (Plaster line to back wall)	39'6"	12.0 m
Additional Upstage Deadhang Space	17'3"	5.3 m
Stage Width (Loading door to locking rail)	97'	29.6 m
Proscenium Width	60'	18.3 m
Proscenium Height (Maximum)	43'5"	13.2 m
Proscenium Height (Minimum)	33'5"	10.2 m
Orchestra Pit (Small)		
Length	68'	20.7 m
Width on Center	16'2"	4.9 m
Width at Ends	10'11"	3.3 m
Pit Floor to Stage	7'9"	2.4 m
Square Footage	971'	296.0 m
Orchestra Pit (Large)		
Length	72'3"	22.0 m
Width on Center	22'8"	6.9 m
Width at Ends	17'8"	5.4 m
Pit Floor to Stage	7'9"	2.4 m
Square Footage	1,430'	435.9 m

Loading Dock

Truck Access 2 bays with levelers & seals

at stage level

(Nominal 40' travel distance to stage door, 90' to center of stage)

Stage Loading Door 10' (3.0 m) Width

20' (6.1 m) Height

MIX POSITION

 Width
 17'9"
 5.41 m

 Length
 9'
 2.74 m

Backstage Specifications

Dance Floor

(for Stage and Rehearsal Room)

Harlequin Liberty Latchloc Sprung Floor System

1

Harlequin Reversible Marley Floor

Podiums

41" h, 56" w, 24.5" d (104 cm h, 142 cm w, 62 cm d) Large 45" h, 26.5" w, 21" d (114 cm h, 67 cm w, 53 cm d) Small

Pianos

Essex Upright 1 **Steinway Grand**

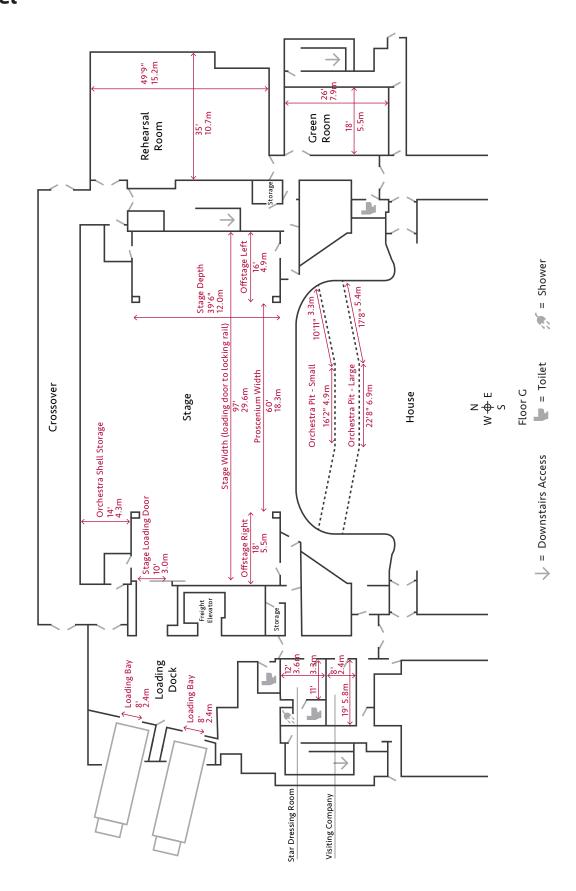
Model D

Laundry

Washers 2 2 **Dryers Garment Racks** 12 Steamers 2 **Irons** 4 **Ironing Boards** 4

Northrop Backstage

Ground Level



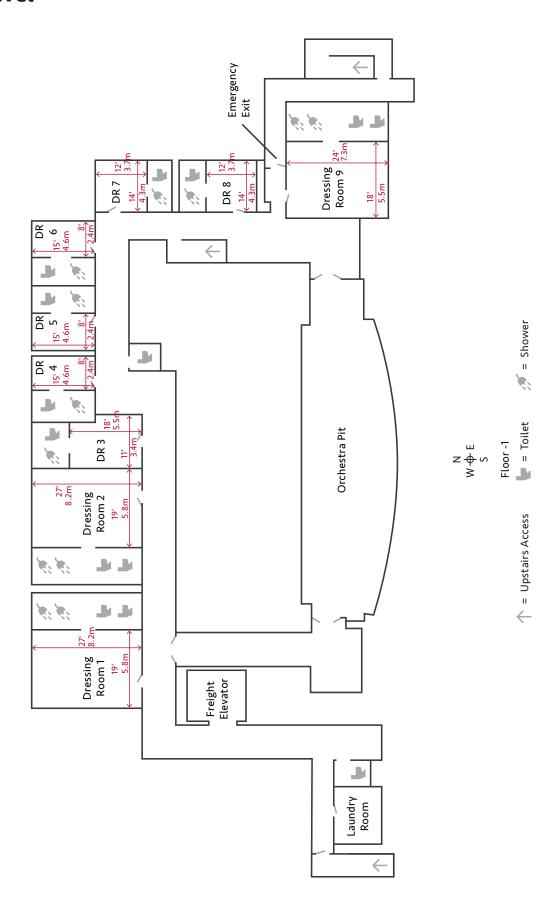
Backstage Artist Facilities

Ground level

	Dimensions		Makeup Stations	Showers
Rehearsal Room	49'9" x 35'	15.2 m x 10.7 m	-	-
Green Room	26' x 18'	7.9 m x 5.5 m	-	-
Star Dressing Room	12' x 11'	3.7 m x 3.4 m	1	1
Lower Level				
Dressing Rooms				
1	27' x 19'	8.2 m x 5.8 m	18	2
2	27' x 19'	8.2 m x 5.8 m	19	2
3	18' x 11'	5.5 m x 3.4 m	1	1
4	15' x 8'	4.6 m x 2.4 m	4	1
5	15' x 8'	4.6 m x 2.4 m	4	1
6	15' x 8'	4.6 m x 2.4 m	4	1
7	14' x 12'	4.3 m x 3.7 m	2	1
8	14' x 12'	4.3 m x 3.7 m	2	1
9	24' x 18'	7.3 m x 5.5 m	18	2

Northrop Backstage

Lower Level



Backstage Internet Access

Campus WIFI

(Open Access)

SSID

UofMGuest

A splash page will pop up requiring acceptance of the Terms and Conditions.

Wired Access

(Available in Production Office*)

Open access is available through a Northrop router via DHCP. All touring company equipment will gain access through the Northrop router.

To connect to the wired internet:

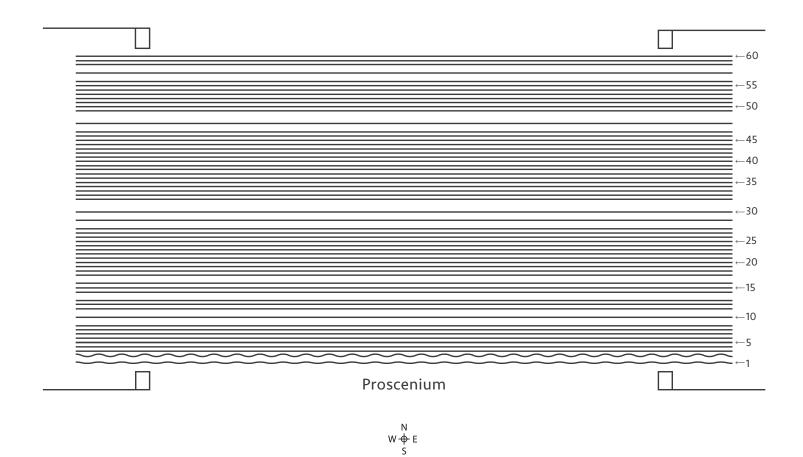
- Plug Ethernet cable into a LAN port on the Northrop router
- Plug the other end of the Ethernet cable into the internet port of your router or device (LAN ports will not work on most routers)
- Enabling DHCP is recommended, please check to make sure your device is set to acquire its IP address using DHCP
- DO NOT plug your router/device directly into the wall jack

*Wired network access in other rooms is available upon request

Lineset Schedule

	40'	12.19 m	Back Wall	26	17'4"	5.28 m	
60	38'10"	11.83 m		25	16'10"	5.13 m	
59	38'4"	11.68 m		24	16'4"	4.97 m	
58	37'10"	11.63 m		23	15'10"	4.82 m	
57	36'10"	11.22 m		22	15'4"	4.67 m	
56	35'10"	10.92 m		21	14'10"	4.52 m	
55	35'4"	10.76 m		20	14'4"	4.36 m	
54	34'10"	10.61 m		19	13'10"	4.21 m	
53	34'4"	10.46 m		18	13'4"	4.06 m	
52	33'10"	10.31 m		17	12'10"	3.91 m	
51	33'4"	10.16 m		16	11'10"	3.60 m	
50	32'10"	10.00 m		15	11'4"	3.45 m	
49	32'4"	9.85 m		14	10'10"	3.30 m	
48	30'10"	9.39 m	Orch. Ceiling N/A	13	9'10"	2.99 m	
47	29'10"	9.09 m		12	9'4"	2.84 m	
46	29'4"	8.94 m		11	8'10"	2.69 m	
45	28'10"	8.78 m		10	7'10"	2.38 m	Orch. Ceiling N/A
44	28'4"	8.63 m		9	6'10"	2.08 m	
43	27'10"	8.48 m		8	6'4"	1.93 m	
42	27'4"	8.33 m		7	5'10"	1.77 m	
41	26'10"	8.17 m		6	5'4"	1.63 m	
40	26'4"	8.02 m		5	4'10"	1.47 m	
39	25'10"	7.87 m		4	4'4"	1.32 m	
38	25'4"	7.72 m		3	3'10"	1.16 m	1st G.P. Lineset (limited use)
37	24'10"	7.56 m		2	3'4"	1.01 m	Main Curtain
36	24'4"	7.41 m	Mid-Stage Traveler N/A	1	2'4"	0.71 m	Teaser
35	23'10"	7.26 m					Fire Curtain
34	23'4"	7.11 m		0	0'	0 m	Plaster Line
33	22'10"	6.95 m					
32	22'4"	6.80 m	Projection Screen (moveable)				
31	21'10"	6.65 m	Screen Surround (moveable)				
30	20'4"	6.19 m		Prosc	enium Op	ening	60' (18.3 m)
29	19'4"	5.89 m	Orch. Ceiling N/A	High '	Trim		68'7" (20.9 m)
28	18'4"	5.58 m		Arbo	r Cap		2,070 lbs (939 kg)
27	17'10"	5.43 m		Pipe l	ength_		78' (23.7 m)

Lineset Schedule



Soft Goods

	Quantity	Width x Height	
House Curtain (Maroon)	1 pair	40' x 33'2"	12.2 m x 10.1 m
Valance (Maroon)	1	78' x 26'2"	23.8 m x 8.0 m
Legs	5 pairs	20' x 30'	6.1 m x 9.1 m
Borders	6	78' x 12'	23.8 m x 3.7 m
Scrim (Black & White)	2	78' x 25'	23.8 m x 7.6 m
Mid-Stage Traveler	1 pair	78' x 24'5"	23.8 m x 7.4 m
Side Tabs (Stage Right)	4	12' x 20'	3.7 m x 6.1 m
Side Tabs (Stage Left)	4	12' x 30'	3.7 m x 9.1 m
Plastic Cyc	1	78' x 25'	23.8 m x 7.6 m
Fabric Cyc	1	78' x 25'	23.8 m x 7.6 m
Full Blackout	1	78' x 30'	23.8 m x 9.1 m
Split Blackout	1	78' x 30'	23.8 m x 9.1 m

Rigging

Battens	58 (Ladder battens)	
Batten Length	78'	23.77 m
In Trim	3'10"	1.17 m
Out Trim	68'7"	20.90 m
Batten Locations	75 (17 obstructed/not installed)	
Clearance between Battens	6"	0.15 m
Lineset Live Capacity	2,070 lbs	938.94 kg
Grid Height (From Stage)	71'	21.64 m

Rear stage allows for dead hang rigging from 6 rigging beams 10' (3.05 m) on center. Rear stage rigging height is 32' (9.75 m) and depth of 14' (4.3 m).

Proscenium Arch

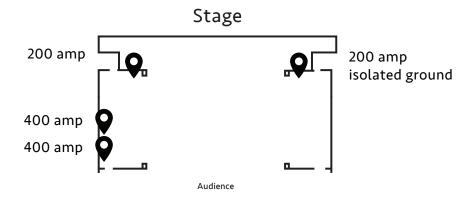
There are 25 rigging points, each 35-38.5 inches (88.9-97.8 cm) apart.

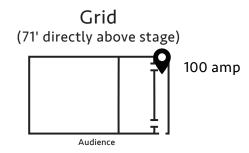


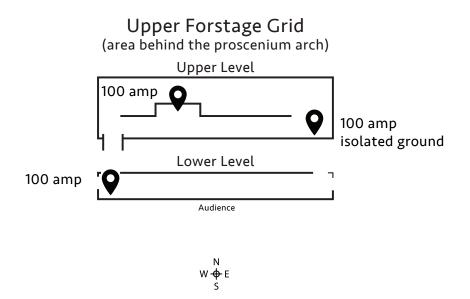
Disconnects

Upstage Left (isolated ground)	200 amp 208 volt 3 phase
Upstage Right	200 amp 208 volt 3 phase
Downstage Right	400 amp 208 volt 3 phase
Downstage Right	400 amp 208 volt 3 phase
Stage Left Gallery	200 amp 208 volt 3 phase
Rehearsal Room	200 amp 208 volt 3 phase
Loading Dock (shore power isolated ground)	100 amp 208 volt 3 phase
Loading Dock (shore power isolated ground)	100 amp 208 volt 3 phase
Upper Forestage Grid (isolated ground)	100 amp 208 volt 3 phase
Upper Forestage Grid	100 amp 208 volt 3 phase
Grid	100 amp 208 volt 3 phase

Disconnect Locations

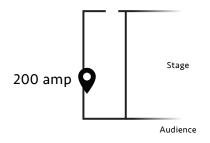






Disconnect Locations

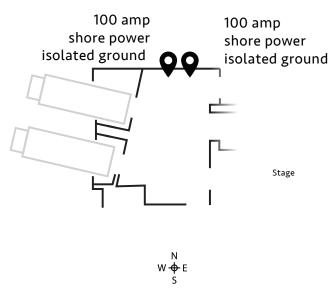
Stage Right Gallery (above stage right)



Rehearsal Room



Loading Dock



Lighting

Console

• ETC Apex 10 (Capable of Mid-House Tech Table)

Control/DMX

- ETC Net3
- 12 Two Port Gateways (DMX in or out)
- In-House Power on Universes 1 and 2

Dimmers

(ETC Sensor)

Туре	Quantity
2.4k Performance	506
6.0k Performance	16
120v Non-Dim	48
208v Non-Dim	48

Lighting inventory

Some additional Source Four barrels available upon request.

Туре	Quantity
Source Four 5° 750 Watt	36
Source Four 10° 750 Watt	36
Source Four 14° 750 Watt	6
Source Four 19° 750 Watt	84
Source Four 26° 750 Watt	92
Source Four 36° 750 Watt	82
Source Four 50° 750 Watt	27
Source Four PAR 575 Watt	8
Birdies	12
Chroma Q Color Force 2, 72 inch	16
Cyc Lights, 1 cell (Focusing, 1000 or 1500 watts)	16
Cyc Lights, 3 cell (Aurora, 1000 watts per cell)	12
Ground Row, 3 cell (Aurora, 1000 watts per cell)	12
8" Selecon Fresnel 2KW	42
PAR 64 1k (75 lamps each of VNSP, NSP, MFL, and WFL)	80
MAC Encore Performance, CLD (Fixed installation mid balcony rail)	8
Elation Fuze Profile (Fixed installation)	2
Elation Area Zoom Pars	28
Followspots (3K Lycian)	4

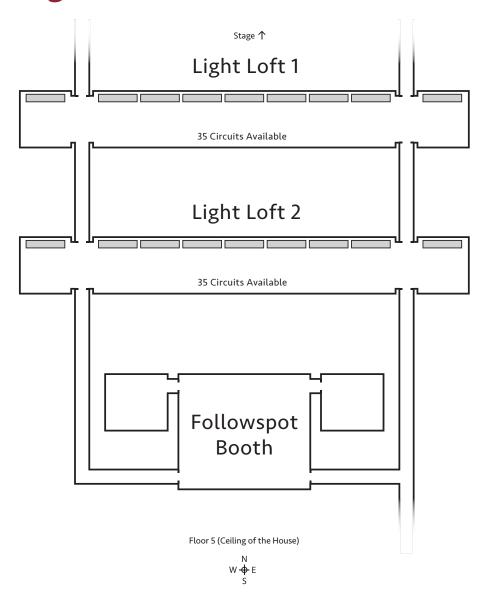
Accessories

Top Hats, half hats, barn doors, drop-in irises, and donuts available upon request.

Booms

- 10 10ft threaded schedule 40 pipe with base
- 10 20ft threaded schedule 40 pipe with base and top pick

Stage Pin Connections



Presidents Circle Balcony (2)

18 circuits available

Scholars Circle Balcony (3)

18 circuits available

Gallery Circle Balcony (4)

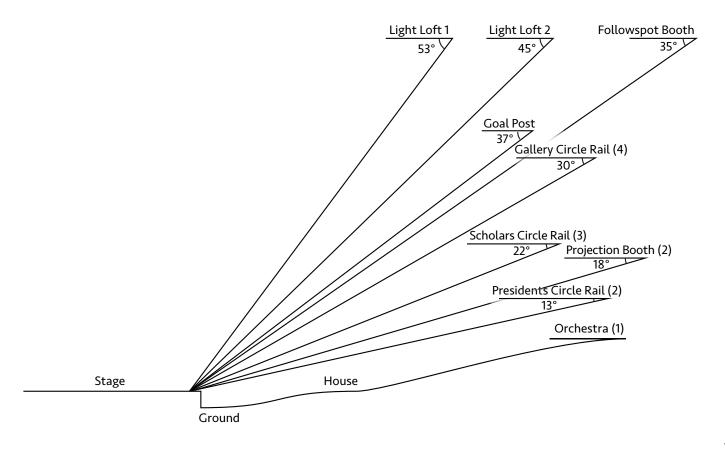
18 circuits available

12 circuits per Goal Post

Lighting Angles & Distance To Stage

Distance to Stage

Light Loft 1	98'	29.9 m
Light Loft 2	113'	34.4 m
Spot Booth	138'	42.0 m
Goal Post (4)	82'	25.0 m
Gallery Circle Rail (4)	104'	31.7 m
Scholars Circle Rail (3)	89'	27.1 m
Presidents Circle Rail (2)	84'	25.6 m
Projection Booth (2)	107′	32.61 m



Sound

Racks And Stacks Rental Package

Туре	Quantity
D&B Audiotechnik Vi8	20 (10 per side)
D&B Audiotechnik Vi12	4 (2 per side)
D&B Audiotechnik V Subs	8 (4 per side, flown)
D&B Audiotechnik SL-GSUB	4 (2 per side)
D&B Audiotechnik Yi12 (Center Array)	8
Meyer UPQ-2P (2 per side, side fill)	4
D&B Audiotechnik E5 (main floor front fill)	8

Amplifiers, Processing, Control

Туре	Quantity
D&B Audiotechnik D20	9
D&B Audiotechnik D80	4
Clear Com System	

^{*}House does not provide consoles or split snakes, monitor package or mic package.

Touring Sound Options

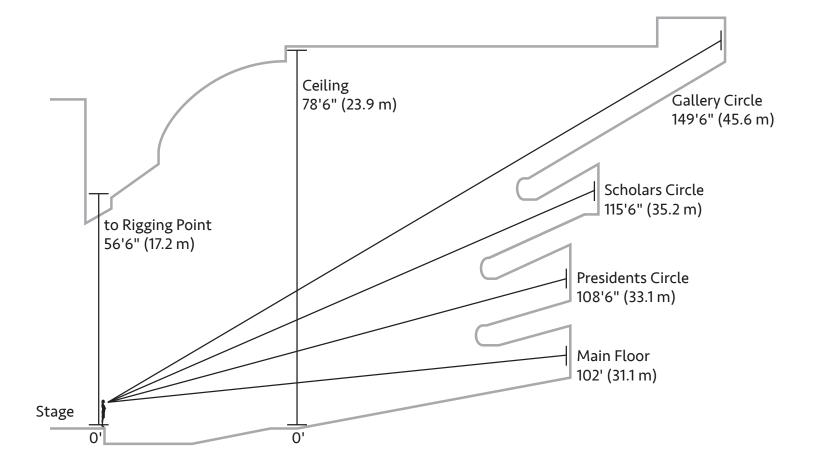
Racks and Stacks Rental \$1000

*Northrop does not remove the installed D&B rig. If the tour needs to hang their own system. They will need to hang it next to our system.



Sound

Throw Distances



Video & Streaming

Projection

Barco HDX-W20 Flex 20,000 Lumen WUXGA DLP Projector
Barco TLD+ (1.2-1.6: 1), TLD+ (2.8-4.5: 1), and TLD+ (4.5-7.5: 1) Zoom Lenses
The Screen Works 12' x 21.25' Truss Frame Front or Rear Projection

Control

Barco PDS-902 3G Presentation Switcher/Scaler

Camera, Recorder, Signal Routing

Sony BRCH700 HD 3CCDs P/T/Z Camera (FOH Position)

Sony RMBR300 Remote Control Unit

Sound Devices PIX270i Production Video/Audio Recorder

4x Decimator MD-HX, 1x Decimator MD-Cross Converters

BNC/HD-SDI, CAT5, and LC/Opticom Fiber connectivity in patch panels throughout the venue

Presentation Control

2x Macbook Pro Laptops, Keynote, and QLab 4

Perfect Cue Micro Slide Advance Remote

2x USB-C and 2x Thunderbolt/Mini-display HDMI Display Adapters

Camera / Video Services

We can arrange for an outside vendor to provide camera(s) and switchers for projection onto Northrop's screen or for livestreaming. Rates are quoted at the time of booking.

Livestream Format

https://z.umn.edu/northrop

The details section contains viewer info and the event schedule.

Northrop will not livestream to other platforms.

Recording

A recording of the livestream is available.

When livestream services are not being used, an archival recording using the house camera is available.

The livestream or archival footage is sent via Google drive within one day of the event.

Miscellaneous Services

Captioning

We can arrange for an outside vendor to provide captioning services.

Rates are quoted at the time of booking.

ASL (American Sign Language)

We can arrange for an ASL interpreter. This service is usually booked through the Interpreting Captioning Unit of the UMN Disability Resource Center (DRC).

We place the interpreters in Row BB in seats 007, 008 and 009 (East Side) close to the stage on the Orchestra Level floor.

Students or guests using this service need to be seated within that sightline.

We provide a special light that illuminates the interpreter.

If an ASL interpreter is being provided for a student, there is no charge. For general audience requests (non-UMN student requests), the service will be quoted at the time of booking.

House Features

Stage & Proscenium

Stage Depth (plaster line to back wall)	39'6"	12.0 m
Upstage Extension Depth	17'3"	5.3 m

House Mix Position

Depth	9'6"	2.9 m
Width	18'10"	5.7 m
Distance to Proscenium	68'	20.7 m
Cable Pass to control booth only		

Control Booth

Depth	9'7"	2.9 m
Width	37'	11.2 m
Height	9'	2.7 m
Throw Distance	105'	32.0 m

Projection Booth

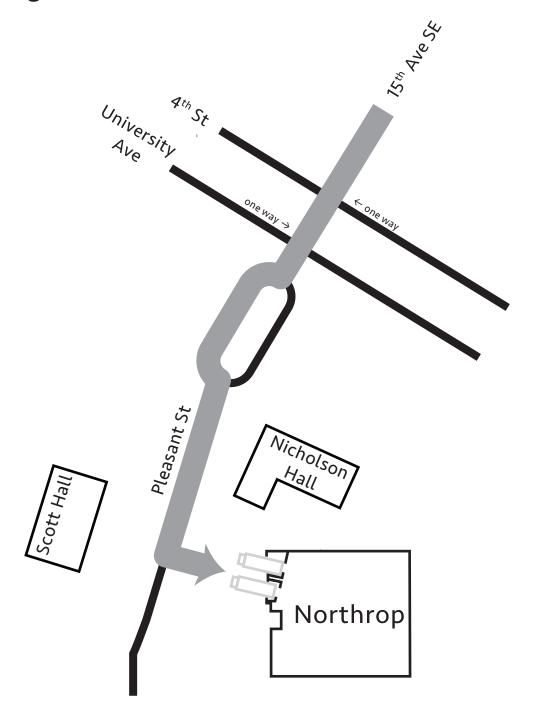
Depth	6'10"	2.1 m
Width	31'	9.4 m
Height	9'3"	2.8 m
Throw Distance	110'	33.5 m

Follow Spot Booth

Depth	11'	3.3 m
Width	25' (7.6 m) window, 35' (10.7 m) room	
Height	8′11″	2.7 m
Throw Distance	140'	42.7 m
Follow Spots	4	

Truck Directions

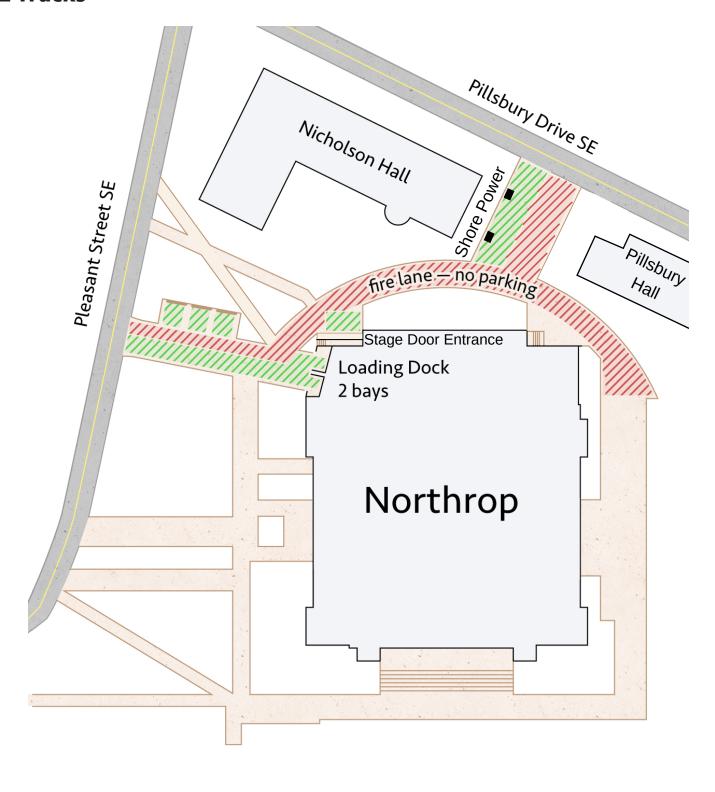
To Loading Dock



Trucks must enter on 15th Ave SE. 15th Ave SE turns into Pleasant St.

Typical Large Vehicle Parking Plan

2 Trucks



Offsite Parking Directions

