

# CARLSON FAMILY STAGE TECHNICAL & PRODUCTION SPECS

Last Updated Aug 18, 2022

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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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Minneapolis, MN 55455

Facebook, Twitter, Social

Instagram, YouTube: @northropumn

**Northrop Loading Dock Delivery Address** 

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#### **TICKET OFFICE**

**Ticketing** Eli Halterman

**Box Office Manager** 

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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 Jackie LeMay **Catering Manager** 612-248-5676

lemay091@umn.edu

**UNIVERSITY CONTACTS** 

First Aid **EMS** 

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

**Motorist Assistance** 

Program (MAP)

612-626-7275

**Campus Security** 

612-624-WALK

**Monitor Escort Service** 

University Parking and 612-626-7275 **Transportation Services** umn.edu/pts

parking@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:

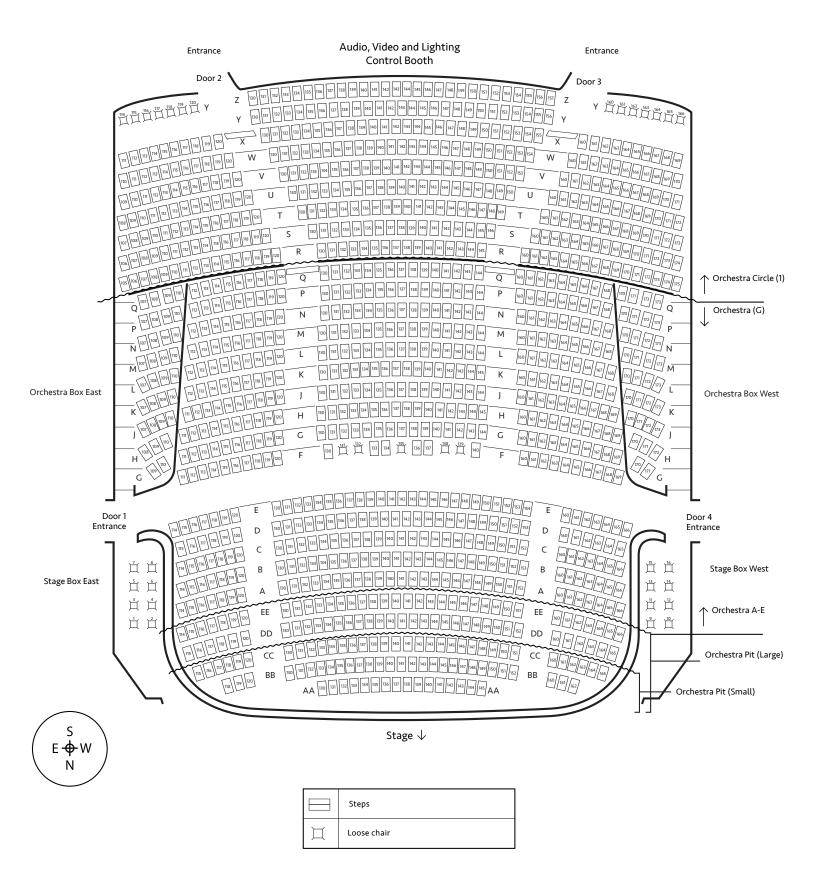
Orchestra Pit (Large/Full)	Accommodates up to 68 musicians	150 seats
Orchestra Pit (Small)	Accommodates up to 36 musicians	79 seats

#### **Mixing/Sound Position**

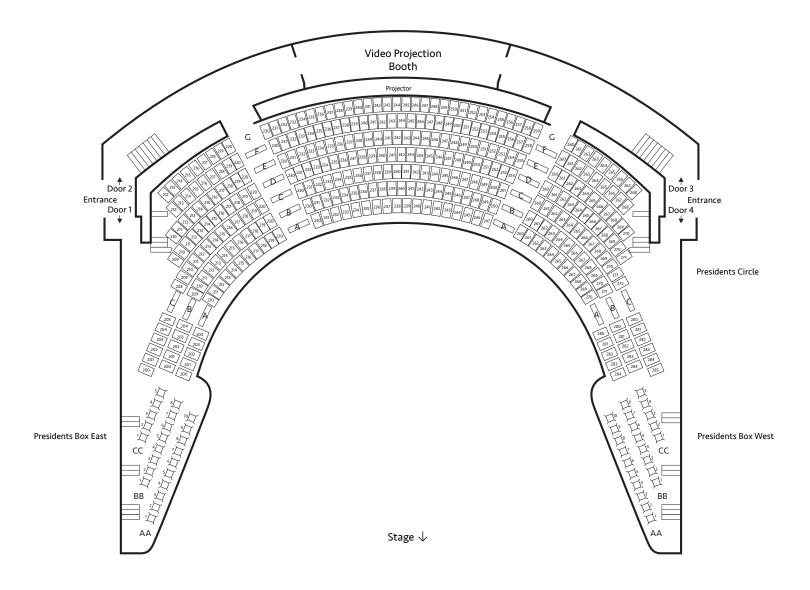
30-40 seats

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)**



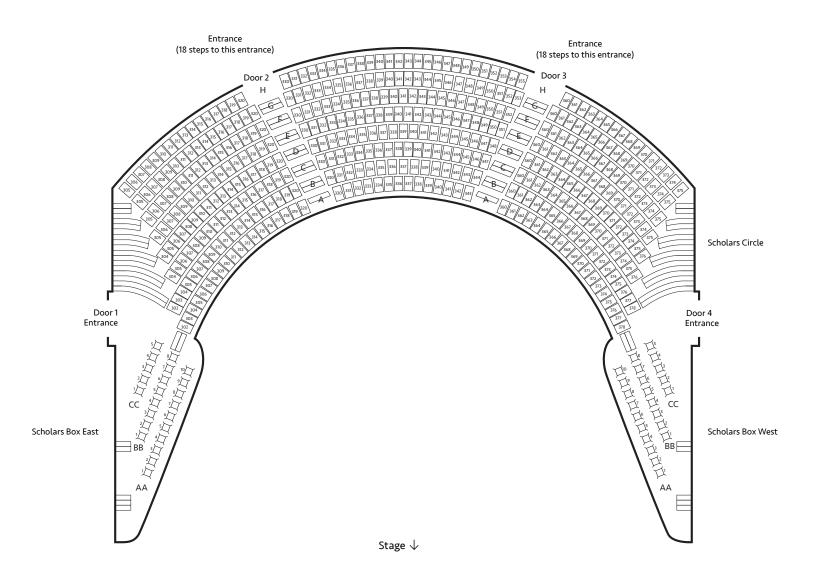
# **PRESIDENTS CIRCLE (2)**





	Steps
Д	Loose chair

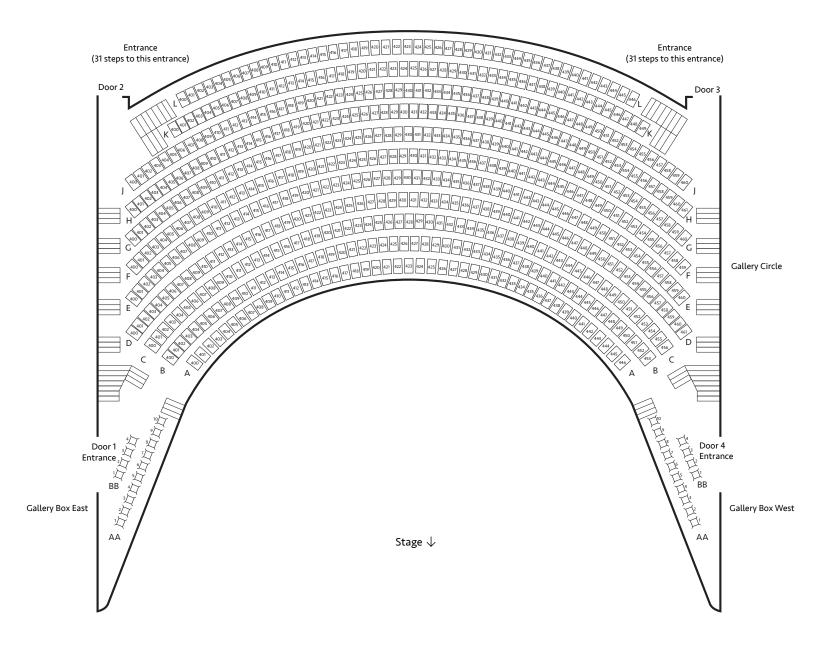
# **SCHOLARS CIRCLE (3)**





	Steps
Д	Loose chair

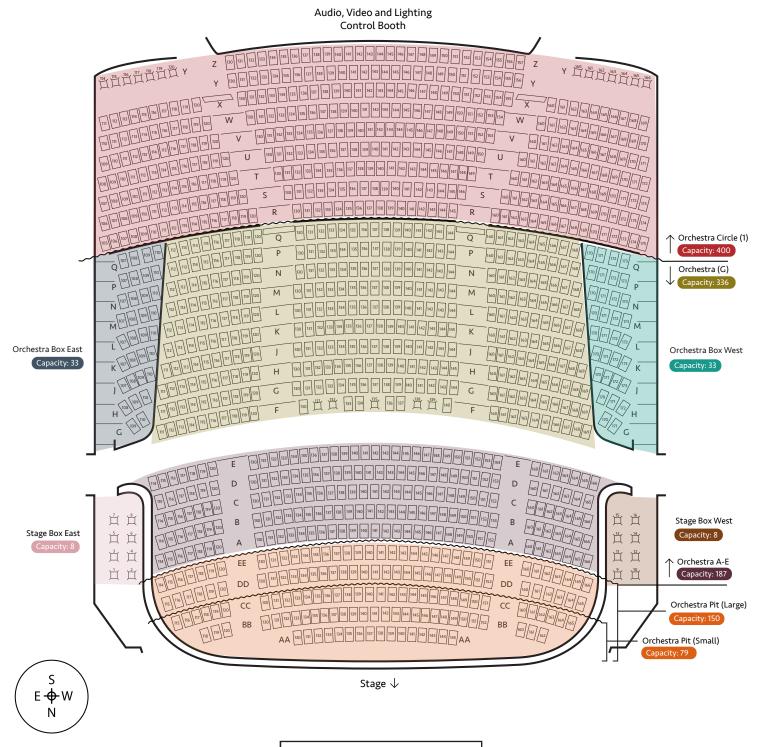
# **GALLERY CIRCLE (4)**





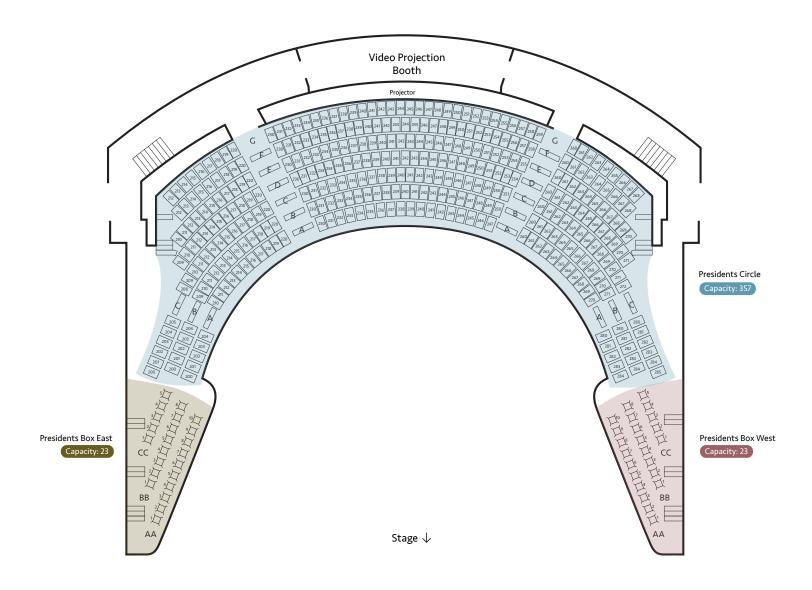
	Steps
Д	Loose chair

# **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

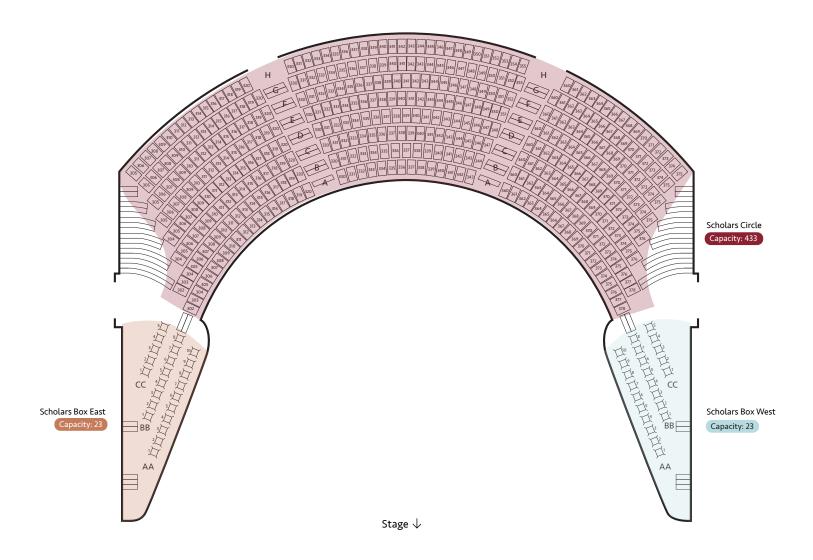
# **PRESIDENTS CIRCLE (2)**





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

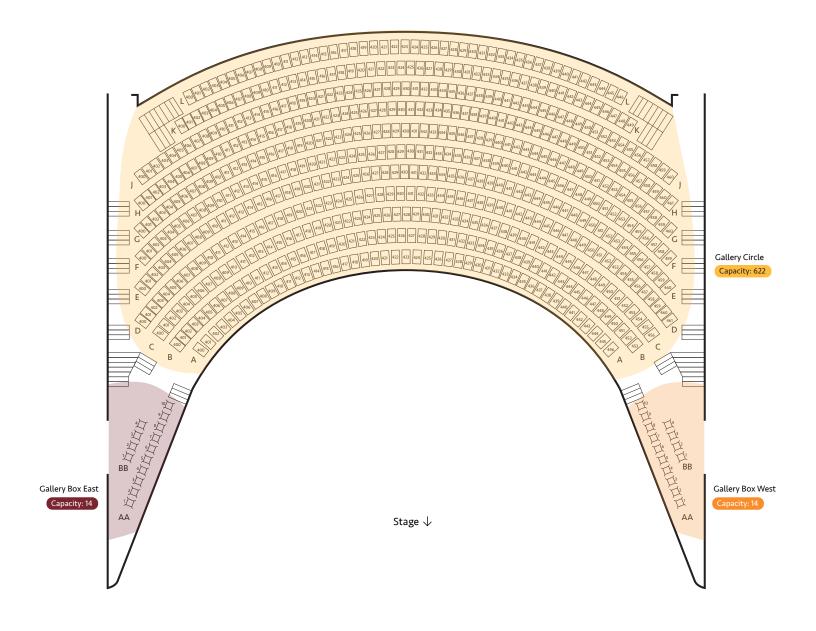
# **SCHOLARS CIRCLE (3)**





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

# **BACKSTAGE SPECIFICATIONS**

#### **DANCE FLOOR**

(for Stage and Rehearsal Room)

Harlequin Liberty Latchloc Sprung Floor System

Harlequin Reversible Marley Floor

#### **PODIUMS**

Large 41" h, 56" w, 24.5" d (104 cm h, 142 cm w, 62 cm d)

Small 45" h, 26.5" w, 21" d (114 cm h, 67 cm w, 53 cm d)

#### **PIANOS**

Essex Upright 1
Steinway Grand 1

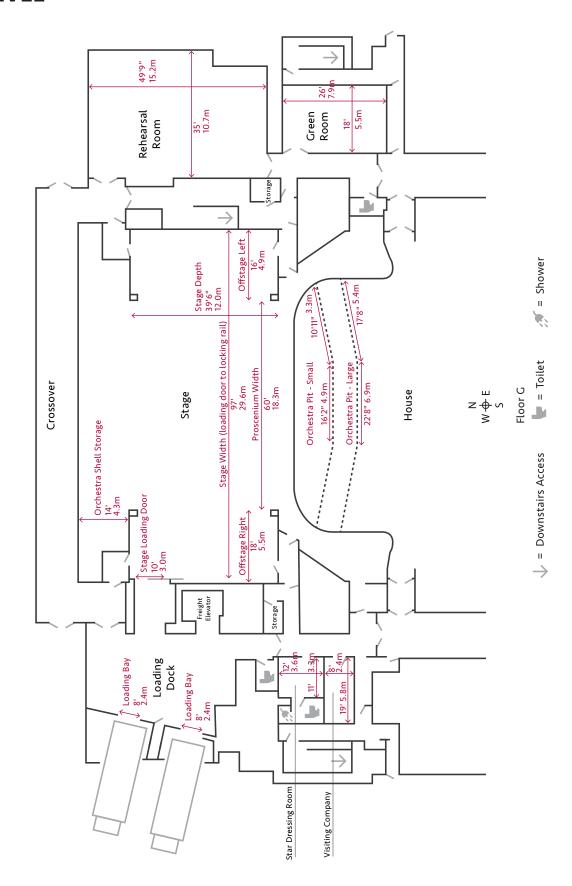
Model D

#### **LAUNDRY**

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

# **NORTHROP BACKSTAGE**

### **GROUND LEVEL**



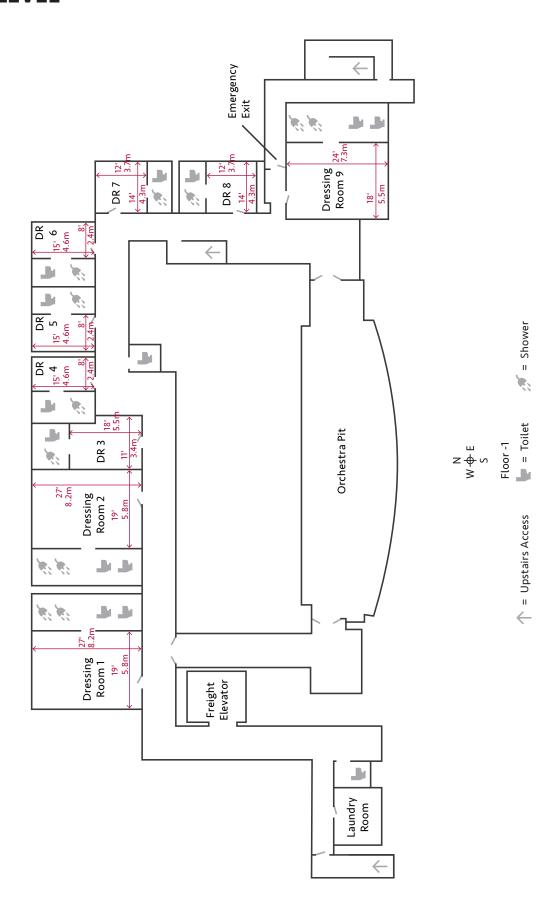
# **BACKSTAGE ARTIST FACILITIES**

#### **GROUND LEVEL**

	Dimensions		<b>Makeup Stations</b>	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				
<b>Dressing Rooms</b>				
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**

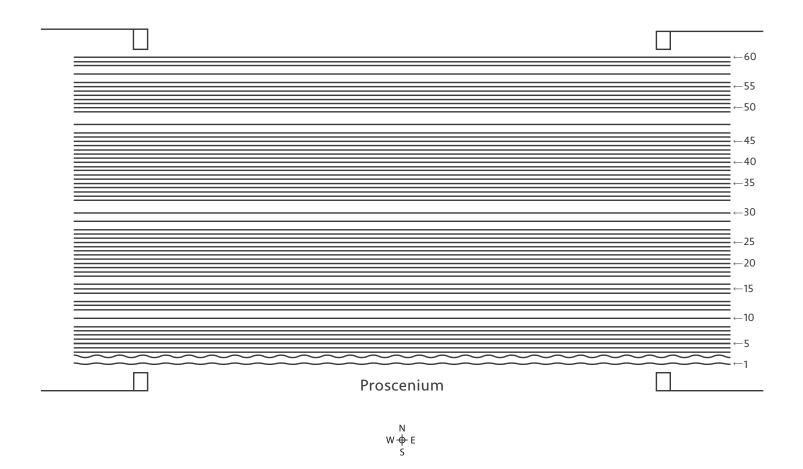
### **LOWER LEVEL**



# **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	Сар		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	200 amp
(isolated ground)	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** 100 amp

208 volt (shore power isolated ground)

3 phase

**Loading Dock** 100 amp

208 volt (shore power isolated ground)

3 phase

**Upper Forestage Grid** 100 amp

208 volt (isolated ground)

3 phase

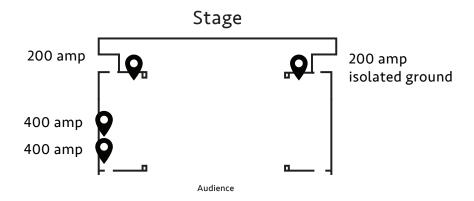
**Upper Forestage Grid** 100 amp

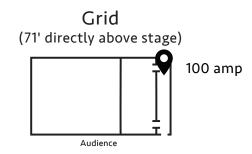
> 208 volt 3 phase

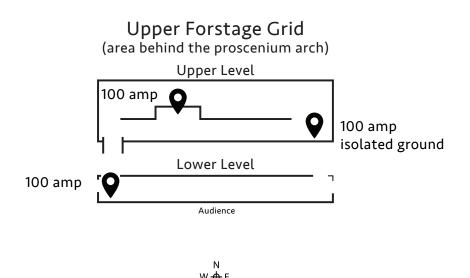
Grid 100 amp

> 208 volt 3 phase

# **DISCONNECT LOCATIONS**

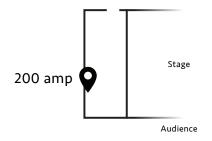




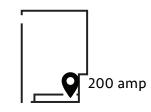


# **DISCONNECT LOCATIONS**

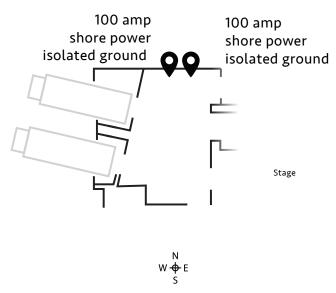
Stage Right Gallery (above stage right)



#### Rehearsal Room



### **Loading Dock**



# **LIGHTING**

#### **CONSOLE**

• ETC Eos Ti – 4000 Channel (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.

ТҮРЕ	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
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
Followspots (3K Lycian)	4

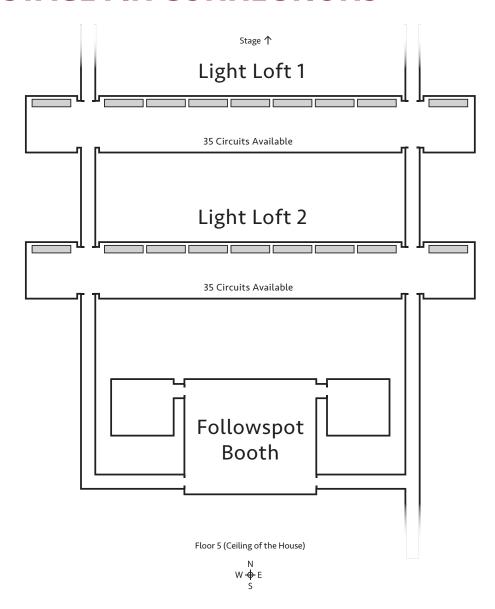
#### **ACCESSORIES**

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)**

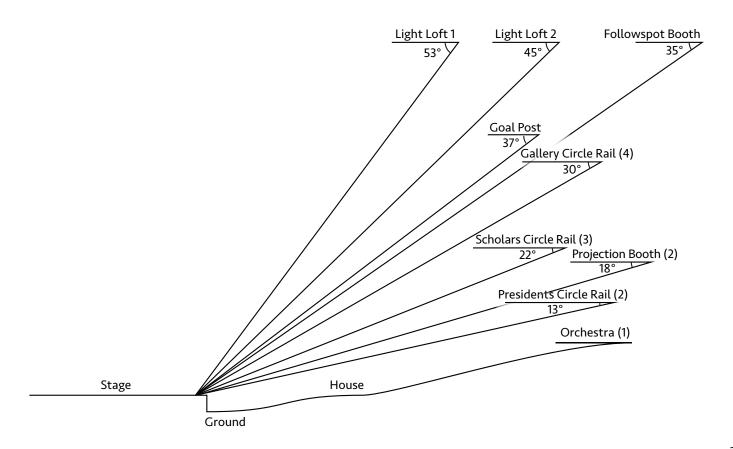
18 circuits available

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**

#### FRONT OF HOUSE SOUND CONSOLE

Digico SD9

#### **LOUDSPEAKER SYSTEM**

#### Type Quantity

D&B Audiotechnik Vi8D&B Audiotechnik Vi1220 (10 per side)4 (2 per side)

**D&B Audiotechnik V Subs** 8 (4 per side, flown)

**D&B SL-GSUB** 4 (2 per side)

**D&B Yi12** 8

(Center Array)

Meyer UPQ-2P 4

(Side fill)

**D&B Audiotechnik E5** 8

(main floor front fill)

#### **AMPLIFIERS, PROCESSING, CONTROL**

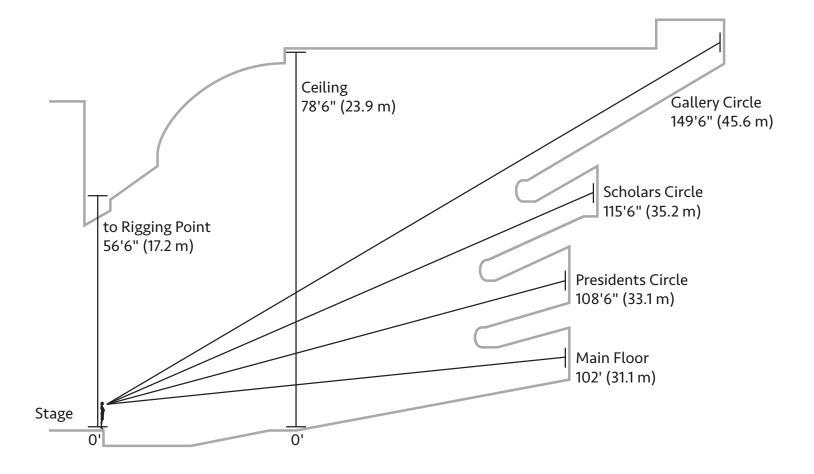
Type Quantity

D&B Audiotechnik D20 9
D&B Audiotechnik D80 4

**Clear Com 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	39'6"	12.0 m
(plaster line to back wall)		
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**

Denth

Берин		3.3 111	
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		

11'

3 3 m

### **ORCHESTRA SHELL**

Tower Count 10

 Tower Depth
 5'
 1.5 m

 Tower Width
 12'4"
 3.8 m

(open)

Tower Width 6'8" 2.0 m

(closed)

**Tower Height** 25'9" to 43'6" (7.8 m x 13.3 m)

**Storage** Upstage Left & Upstage Right

Orchestra Ceiling Count 3

Orchestra Ceiling Depth 10'10" 3.3 m

**Orchestra Ceiling Length** 41'6" to 58'1" (12.6 m x 17.7 m)

