

**Technical Facilities Specifications  
Gallagher Bluedorn Performing Arts Center  
8201 Dakota St.  
University of Northern Iowa  
Cedar Falls, IA 50614-0801**

**Updated: 3/7/2019**

**Contact Information**

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### Special Weight Restrictions:

Any out of weight situation over 150 lbs requires advance notification to us. Anything over 300 lbs requires the use of the in house motor assist. 60 lbs and under can be handle by personnel. Final determination rests with house Technical Director.  
Bull lines are not acceptable. No fly rail show calls can be run from our mid-rail. Stage deck only.

### Loading Dock

At stage level, 4' above roadway, on west side of building. 2 side-by-side bays to accommodate two trailers. Door openings are 7'10" w X 9'h. The truck bays access the interior loading dock, which is off stage left. Access to the stage is through two in-line doorways, 12' w X 12' h.

### Please Note:

One truck with tractor can park in the north bay and one trailer without the tractor and one bus in front of the trailer as close as possible can park in the south bay as long as the nose of the bus doesn't protrude out into the roadway. All other truck and bus parking is approximately a quarter of a mile from the building. No exceptions can be made even though there are other lots nearby. Please, immediately contact the technical department upon arrival to coordinate parking. If vehicles are incorrectly parked you will be required to move them even if that means calling the truck drivers back.

### Stage

#### Dimensions

Proscenium opening 55' w X 40' h.

The opening can be reduced by the "hard" portal and legs that can close the opening down to approximately 39' w X 22' h.

Stage depth, plaster line to upstage wall: 39' 10"

There is a 4' 6" w crossover behind the upstage wall.

Apron depth, plaster line to apron front, at center: 5'

Apron depth, with Lift #1 at stage level, at center: 14' 6"

Apron depth, with Lifts #1 and #2 at stage level, at center: 24' 6"

Stage width from wall to wall: 90'

Center Line to wall, SL: 45'; Center Line to wall, SR: 45' (41' to Locking Rail)

Stage house height from floor to bottom of grid: 71' 3"

Maximum Batten Travel: 65' (Battens are trimmed to 4' off of stage floor)

**Please Note;**

Linesets 10, 29, 49, and 68 are large orchestral ceilings with light fixtures attached to them. When stored these lighting enclosures protrude out from the panels from downstage to upstage at a depth of 8 inches. It is recommended that any moving pieces that are to be hung should be hung upstage at least 12 inches from those lineset to avoid any potential problems. **These panels are not removable!**

Orchestra Pit Depth: 8' 6" with continuously variable spiral lifts. With the pit lift down there is no direct access from the audience chamber to the stage.

## **Stage Floor**

Tongue-in-groove oak, painted black, on top of plywood subfloor, on top of sleepers, on top of 3/8" rubber resilient waffle pads, on top of concrete.

## **Pre-Show evacuation announcement**

Iowa Code;

In theaters, motion picture theaters, auditoriums and similar assembly occupancies used for non-continuous programs, an audible announcement shall be made not more than 10 minutes prior to the start of each program to notify the occupants of the location of the exits to be used in the event of a fire or other emergency.

## **Rigging**

### **Linesets**

46 Un-dedicated, single purchase linesets, 63' X 1 1/2" Schedule 80, 6 pick-up points, 1,700 Lbs capacity. With the exception of the house first electric which has a permanent raceway and has a 800 Lbs. capacity. See Lineset Schedule for placement.

There is approximately 25,000 Lbs of counterweight available for the undedicated linesets.

### **Grid**

The grid deck is capable of supporting 100,000 lbs. of chain hoist point loading, properly distributed across the gridiron. Uniform load capacity is 50 lbs. per square foot.

### **F.O.H.**

There are evenly spaced steel I-beams down stage of the proscenium arch with corresponding ceiling access holes for chain hoist points. See the theatre ground plan for exact locations.

## **Power**

3 Company Switches on upstage wall, off left. Each company switch is 400 amp, 3 phase, 4-wire plus ground. The switches have sequential posi-lock connectors, with internal lugs available for tie-ins.

There is 1 - 100 amp, 3 phase, 4-wire plus ground company switch at the loading dock.

There are 100 amp, 3 phase, 4-wire plus ground company switches at the following locations:

Down-stage left at the proscenium wall.

Down-stage right at the proscenium wall.

Up-stage left on the up-stage wall.

Up-stage right on the up-stage wall.

Under-stage storage room, near the orchestra pit.

There is 1 - 200 amp Audio company switch, located in the under-stage room. This company switch is part of the separate, isolated ground audio circuitry in the hall. This switch is 3 phase, 4-wire plus ground.

## **Soft Goods**

### **Main Curtain**

Permanently installed on line-set #2. Guillotine only, does not travel but can be paged.  
The main curtain and valance are velour, 75% fullness, color steel blue.

### **Masking**

Legs: 6 pair @ 12' w X 40' h

4 pair @ 8' w X 40' h

Borders: 1 @ 63' w X 18' h

5 @ 63' w X 10' h

Black-out: 1 set w/traveler track

Includes 2 panels @ 31'6" w X 35' h

All masking is black velour, 0% fullness.

### **Cyclorama**

Muslin, Seamless, 63' w X 40' h

### **Scrims**

1 Black sharkstooth @ 63' w X 35' h

1 White sharkstooth @ 63' w X 35' h

## **Lighting**

### **Control**

ETC Eos control console with latest software updates and fixture libraries.

The console can be operated from the Lighting control booth at the rear of the hall, at the audience sound board location, stage left, or stage right. There is a Remote Focus Unit.

Supports Data importation of USITT ASCII files. Eos is set up for control via network.

ETC Element control console with latest software updates and fixture libraries.

ETC Net 3 RVI located stage left.  
ETC Obsession II control console with 4.0 software.  
ETC Expression control console.

There are two separate lighting systems in this theatre, Concert and Stage. The Concert system is designed for events that use the orchestra shell. The Stage system is for other events. Each system has its own circuits, dimmers, instruments, and focus. The FOH hanging positions are double-piped to accommodate both systems simultaneously. The EOS controls both systems. The following specs are for the stage systems only.

Martin Aura XB fixtures are set up with smooth, S-curve dimming and smooth movement and in Extended/Extended mode.

Martin Quantum Profile fixtures are set up with smooth, S-Curve dimming and smooth movement and in Extended mode.

ETC D60 fixtures are set up in 10 channel Direct/Fan/Strobe mode.

The Colorblaze fixtures are set up in 72" 16bit RGBAW mode.

If any other mode is desired please let us know prior to your arrival and the fixtures can be set up correctly for your show.

### **Dimmers**

ETC Sensor, dimmer-per-circuit

372 @ 2.4kw

4 @ 6kw

### **Circuits**

#### **FOH**

Follow Spot Booth: 4 @ 2.4kw

Far Catwalk: 36 @ 2.4kw; 1 @ 6kw

Near Catwalk: 48 @ 2.4kw; 1 @ 6kw

Balcony Rail: 24 @ 2.4kw

Far Upper Box Booms: 12/side @ 2.4kw

Near Upper Box Booms: 6/side @ 2.4kw

#### **On Stage**

#1 Electric (Lineset # 7): 36 @ 2.4kw; 1 @ 6kw

26, 6 circuit drop boxes evenly dispersed down to up stage for remaining electric pipes, tab pipes, booms, etc. for a total of 156 circuits @ 2.4kw ea.

Downstage Left: 4 @ 2.4kw; 1 @ 6kw

Downstage Right: 4 @ 2.4kw; 1 @ 6kw

Upstage Left: 10 @ 2.4kw

Upstage Right: 10 @ 2.4kw

Orchestra Pit: 4 @ 2.4kw

### **Lighting Inventory**

#### **Lighting Units**

14 ETC 11" Selador Vivid-R LED Fixtures

32 ETC Desire D60 Vivid LED Fixtures

- 12 Martin MAC Aura XB Fixtures
  - 6 Martin Quantum Profile Fixtures
  - 5 Phillips Colorblaze TRX 72" fixtures
  - 6 ETC Source Four 5°
  - 28 ETC Source Four 10° (for concert use only)
  - 24 ETC Source Four 10 LENS BARRELS
  - 24 ETC Source Four 19° (for concert use only)
  - 24 ETC Source Four 19 LENS BARRELS
  - 120 ETC Source Four 26°
  - 54 ETC Source Four 36°
  - 6 ETC Source Four 50° LENS BARRELS
  - 6 ETC Source Four 50°
  - 24 ETC Source Four 15-30° Zoom
  - 60 ETC Source Four Par
  - 40 Par 64 (1kw Narrow or Medium available)
  - 9 3-cell Altman Sky Cyc w/ 1kw lamps
  - 9 6 section, 3 circuit Altman Ground Cyc w/1kw lamps
- Notes: All ETC Source Four units are lamped at 750w

### **Lighting Accessories**

- 24 Iris for Source Four Lekos
- 75 "A" size Template Holders for Source Four Lekos
- 10 Boom Base-50 lb.
- 40 Barn Doors for Source Four Pars
- 20 8" Barn Doors (PAR 64)
- 50 18" Side Arms
- 46 5" Top Hats
- 15 "B" size template holders for Source Four Lekos
- 14 Horizontal 30degree lenses for Selador Vivid-R
- 14 Vertical 30degree lenses for Selador Vivid-R
- 32 25degree lenses for Desire D60
- 6 100' 5-pin DMX
- 2 50' 5-pin DMX
- 5 25' 5-pin DMX
- 40 10' 5-pin DMX
- 10 5' 5-pin DMX
- 1 1 in 3 out Doug Fleenor DMX Splitter
- 1 1 in 5 out Doug Fleenor DMX Splitter
- 3 5-pin DMX Terminators

### **Follow Spots**

- 3 Super Trouper II, 2000 watt, xenon.

## **Sound System**

### **Consoles**

Yamaha CL5, Yamaha QL5, or LS9 32 digital consoles

The console can be operated from the control booth, located at the rear of the hall on ground level, or in the audience chamber, at ground level, at approximately 68' from the plaster line and is 12' 5" W x 11' 7" D. This in-house position is not under the balcony. There are 60 hard-wired mic channels and 41 line level channels that are split for patch-in at the control booth, the in-house position, and down-stage left. There are 8" conduits installed for pulling snakes, etc., from down-stage left to the in-house position, and from the in-house position to the control booth. 150' needed to reach from DSL to in-house.

### **House Speaker system**

Center Cluster:

D&B Ti line array

Right and Left Clusters:

D&B Qi line array

Ground Support:

2 EAW LA 460 Full Range Cabinets

Front Fill:

Consists of an array of 3 EAW UB22 cabinets that hang off the front of the stage apron.

Delay:

2 EAW MK2194 cabinets, located at the far catwalk.

Portable Sub-bass:

2 Bag End Quartz cabinets, with 2 dedicated QSC PL-6.0 amplifiers

### **Stage Monitor System**

Yamaha QL5 64 channel monitor console

Yamaha LS9 32 channel monitor console

5 QSC CX 902 Power Amplifiers

1 D&B D20 Amplifier

Monitor Wedges:

4 EAW SM200iH

2 EAW SM122

4 D&B M4

### **Additional Speakers**

2 EAW EP3 self powered, full range cabinets

2 Mackie SRM 450 self-powered, full range cabinets

## **Microphones and accessories**

Shure UHF-R wireless system:

- 6 U4RD Wireless receivers
- 12 UR2/SM 58 handheld wireless mic transmitters
- 10 UR1 wireless bodypacks
- 10 Countryman B3 lapel mics
- 2 BETA 58 Capsules
- 2 BETA 87 Capsules

- 3 Neumann KM184
- 5 Shure SM57
- 2 Shure SM58
- 3 Shure Beta58
- 3 Shure Beta87
- 6 Sennheiser MD421
- 1 AKG D112
- 2 EV RE20
- 2 AKG C414B
- 1 Crown LM300
- 3 Crown PCC160
- 2 Peluso CEMC-6
- 4 Countryman DT85 direct boxes
- 1 Earthworks Piano mic system
- 2 Peluso CEMC-6
- 1 Shure Beta 52A
- 4 Shure Beta 98A with drum mount



## **Stands**

12 A/S MS12CE (Straight Stick)  
3 A/S DMS7E (Short Stick)  
3 A/S DMS10E (Med. Stick)  
10 A/S TL34 (Tri-Pod Base)  
6 A/S 15E (34" Boom)  
16 A/S 21XE (Adjustable Telescoping Boom)  
3 A/S DS7E (Desk-Top Stand)

## **Intercom**

Clear-Com, 2 channel system  
HME BX200 Wireless Intercom System  
MS232 Main Station in Sound Booth  
BP200 Wireless Base Station Stage Left  
5 RS-502 Dual-channel belt packs  
8 RS-501 belt packs  
4 RS-601 belt packs  
9 RS-701 belt packs  
5 CC KB-211-PL Pro speaker stations  
6 CC HS6 handsets  
4 BP200 wireless belt packs

## **Props**

### **Pianos**

Steinway D (9 ft.) concert grand  
Steinway 6 ft. grand

### **Dance Floor**

Harlequin Cascade to cover 65' 7" w X 33' d. Color: Black

### **Orchestral/Choral**

120 Wenger Musician Chairs  
60 Wenger Roughneck Stands  
50 Wenger Music Stand Lights  
1 Conductors Double Podium with rail  
1 Conductors Music Stand  
1 Set of Wenger Choral Seater Risers to create 4 tiers at 8", 16", 24" and 32" This configuration will seat 104 chairs on the risers and 120 with a row on the floor.

# **Video System**

## **Screen**

Da-Lite Scenic Roller 30'W by 17'T

This screen is permanently hung downstage of the proscenium. Motorized. 1 minute deploy and retract time.

30'h x 40'w portable rear projection screen

12'h x 21'w portable projection screen with frame, front or rear projection

## **Projector**

Barco FLM HD20

## **Cameras**

4 Panasonic AW-HE120 PTZ HD Cameras

## **Switching**

Blackmagic ATEM 2 M/E Production Studio 4K

Blackmagic ATEM 1 M/E Broadcast Panel

Blackmagic Smart Videohub 40x40

## **Playback**

2 MAC Mini computers

1 Tascam Blu-ray player

1 Tascam DVD Player

## **Software**

Q-Lab 4

Resolume Arena 6

## Risers/Platforms

16, 3' X 8' Wenger Versalite decks that can be set at varying heights of 8" (8), 16" (16), 24" (9), and 32" (11).  
12, 4-step Wenger Signature Choral Risers

4-Step Signature

Group Capacity	Units Needed	Space Required
17-23	1	6'6in. w x 6'0in. d (2m x 1.8m)
34-46	2	12'10in. w x 6'11in. d (3.9m x 2.1m)
51-69	3	18'10in. w x 7'9in. d (5.7m x 2.4m)
68-92	4	24'3in. w x 9'1in. d (7.4m x 2.8m)
85-115	5	29'1in. w x 10'6in. d (8.9m x 3.2m)
102-138	6	33'1in. w x 12'4in. d (10.1m x 3.8m)
119-161	7	36'2in. w x 14'4in. d (11m x 4.4m)
136-184	8	38'4in. w x 16'6in. d (11.7m x 5m)

## Truss

- 4 8' straight stick Euro Box truss 12" X 12"
- 4 Euro Box truss 12" X 12" curved pieces(makes a full 10' diameter circle)
- 3 Euro Box truss 12" X 12" curved pieces(makes a 18' diameter half-circle)
- 3 Euro Box truss 12" X 12" corner pieces(in combination with straight sticks makes 14' triangle)
- 4 100 lb. bases for straight truss sticks

## Dressing Rooms

All rooms are uncarpeted tile floor. **There is no local control of heating and cooling**

## Star

4 dressing rooms located at stage level, in the back hallway, next to the Green Room. Each can accommodate 4 performers, and has a toilet and shower. All are accessible to people with disabilities.

## Chorus

2 dressing rooms located in the back hallway, across from the star dressing rooms. Each can accommodate 12-14 performers, and has 2 toilets and 3 showers. Both are accessible to people with disabilities.

## Wardrobe

The facility is equipped with 2 large-capacity washer and dryer. These are located in the loading dock area. There are also two steam irons, two ironing boards, and 2 Jiffy Steamers available. There are six double-sided wardrobe racks that can be distributed anywhere in the facility.

## Lineset Schedule

Lineset #	Description	Pipe Style/Notes	Distance from P.L.	Distance from Nearest DS Lineset
FC	Fire Curtain		5"	
1	Grand Valance	CAN NOT BE REMOVED	1' 2"	9"
2	Grand Curtain	CAN NOT BE REMOVED	1' 5"	3"
3	Hard Portal	CAN NOT BE REMOVED	2' 1"	8"
4	Hard Legs	CAN NOT BE REMOVED	2' 7"	8"
5		Pipe (Potential Obstruction with LS7)	3' 1"	6"
6		Pipe (Potential Obstruction with LS7)	3' 7"	6"
7	#1 Electric	Truss with Permanent Raceway	4' 1"	6"
8		Pipe (Potential Obstruction with LS7)	4' 7"	6"
10	Orchestra Ceiling #1	CAN NOT BE REMOVED	5' 8 3/4"	1' 1 3/4"
13		Pipe	7' 1"	6"
14		Pipe	7' 7"	6"
15		Pipe	8' 1"	6"
16		Truss	8' 7"	6"
17		Pipe	9' 1"	6"
20		Truss	10' 7"	1' 6"
21		Pipe	11' 1"	6"
22		Pipe	11' 7"	6"
23		Pipe	12' 1"	6"
24		Pipe	12' 7"	6"
26		Pipe	13' 7"	12"
27		Pipe	14' 1"	6"
28		Pipe	14' 7"	6"
29	Orchestra Ceiling #2	CAN NOT BE REMOVED	15' 5 1/4"	10 1/4"
33		Truss	17' 1"	1' 7 3/4"
34		Pipe	17' 7"	6"
35		Pipe	18' 1"	6"
36		Pipe	18' 7"	6"
37		Pipe	19' 1"	6"
40		Truss	20' 7"	1' 6"
41		Pipe	21' 1"	6"
42		Pipe	21' 7"	6"
43		Pipe	22' 1"	6"
44		Pipe	22' 7"	12"
45		Pipe	23' 1"	6"
46		Truss	23' 7"	6"
47		Truss	24' 1"	6"
49	Orchestra Ceiling #3	CAN NOT BE REMOVED	25' 1 3/4"	12 3/4"
52		Pipe	26' 7"	6"
53		Pipe	27' 1"	6"
55		Pipe	28' 1"	12"
56		Pipe	28' 7"	6"
57		Truss	29' 1"	6"
58		Pipe	29' 7"	6"
59		Pipe	30' 1"	6"
60		Pipe	30' 7"	6"
61		Pipe	31' 1"	6"
62		Pipe	31' 7"	6"
63		Pipe	32' 1"	6"
64		Truss	32' 7"	6"
66	Black Traveler	CAN NOT BE REMOVED	33' 7"	12"
68	Orchestra Ceiling #4	CAN NOT BE REMOVED	34' 10 1/4"	1' 3 1/4"
71		Pipe	36' 1"	1' 2 3/4"
72		Pipe	36' 7"	6"
73	Cyc	Pipe	37' 1"	6"
74	Black Out	Pipe	37' 7"	6"

## **Directions to the Gallagher Bluedorn Performing Arts Center**

### **From the North (Minneapolis):**

Interstate 35 South to Clear Lake/Mason City, Hwy 18, exit 194. Go east on Hwy 18.

At Charles City, follow Hwy 218 south to Cedar Falls.

At Cedar Falls, take Hwy 58 south to the University Avenue Exit (approx 3.5 miles)

At the bottom of the exit, go right (west) on University Avenue.

Proceed through two stop lights, and you will see the Performing Arts Center on the right. The first road after the Center is Ohio Street. Go right on Ohio Street. The Loading Dock/Stage Door is to the right, at the rear of the building.

### **From the West (Des Moines/Omaha)**

Interstate 35 North to Highway 20 (approx. 55.1 miles) exit 142 A, east toward Cedar Falls/ Waterloo

Take the Hudson Road exit, exit 224 (this exit is also the second Cedar Falls exit)

Turn left (North) onto Hudson Road going to Cedar Falls

After 3 miles, at the intersection of University Avenue (stop lights), go right (East) on University Avenue.

Take the first left, which is Ohio Street. The Performing Arts Center is to your right. The Loading Dock/Stage Door is to the right, at the rear of the building.

### **From the East (Chicago)**

Interstate 80 West to Iowa City. Take Interstate 380, exit 239, North toward Cedar Rapids.

Follow Interstate 380 to Waterloo.

Take Hwy 20, exit 71, West toward Cedar Falls.

Follow Hwy 20 for approximately 10 miles and exit on Hudson Road.

Take Hudson Road North to Cedar Falls.

After 3 miles, at the intersection of University Avenue (stop lights), go right (East) on University Avenue.

Take the first left, which is Ohio Street. The Performing Arts Center is to your right. The Loading Dock/Stage Door is to the right, at the rear of the building.

### **From the South East (St. Louis/Springfield)**

Interstate 74 North to the intersection of Interstate 80 near Davenport, IA.

Interstate 80 West to Iowa City. Take Interstate 380, exit 239, North toward Cedar Rapids.

Follow Interstate 380 to Waterloo.

Take Hwy 20, exit 71, West toward Cedar Falls.

Follow Hwy 20 for approximately 10 miles and exit on Hudson Road.

Take Hudson Road North to Cedar Falls.

After 3 miles, at the intersection of University Avenue (stop lights), go right (East) on University Avenue.

Take the first left, which is Ohio Street. The Performing Arts Center is to your right. The Loading Dock/Stage Door is to the right, at the rear of the building.

**From the South West (Kansas City)**

Interstate 35 to Des Moines.

Continue on through Des Moines on Interstate 35 North until you get to Highway 20 (approx 55.1 miles). This is exit 124A east toward Cedar Falls/Waterloo

Take the Hudson Road exit, exit 224 (this is the Highway 58 south exit)

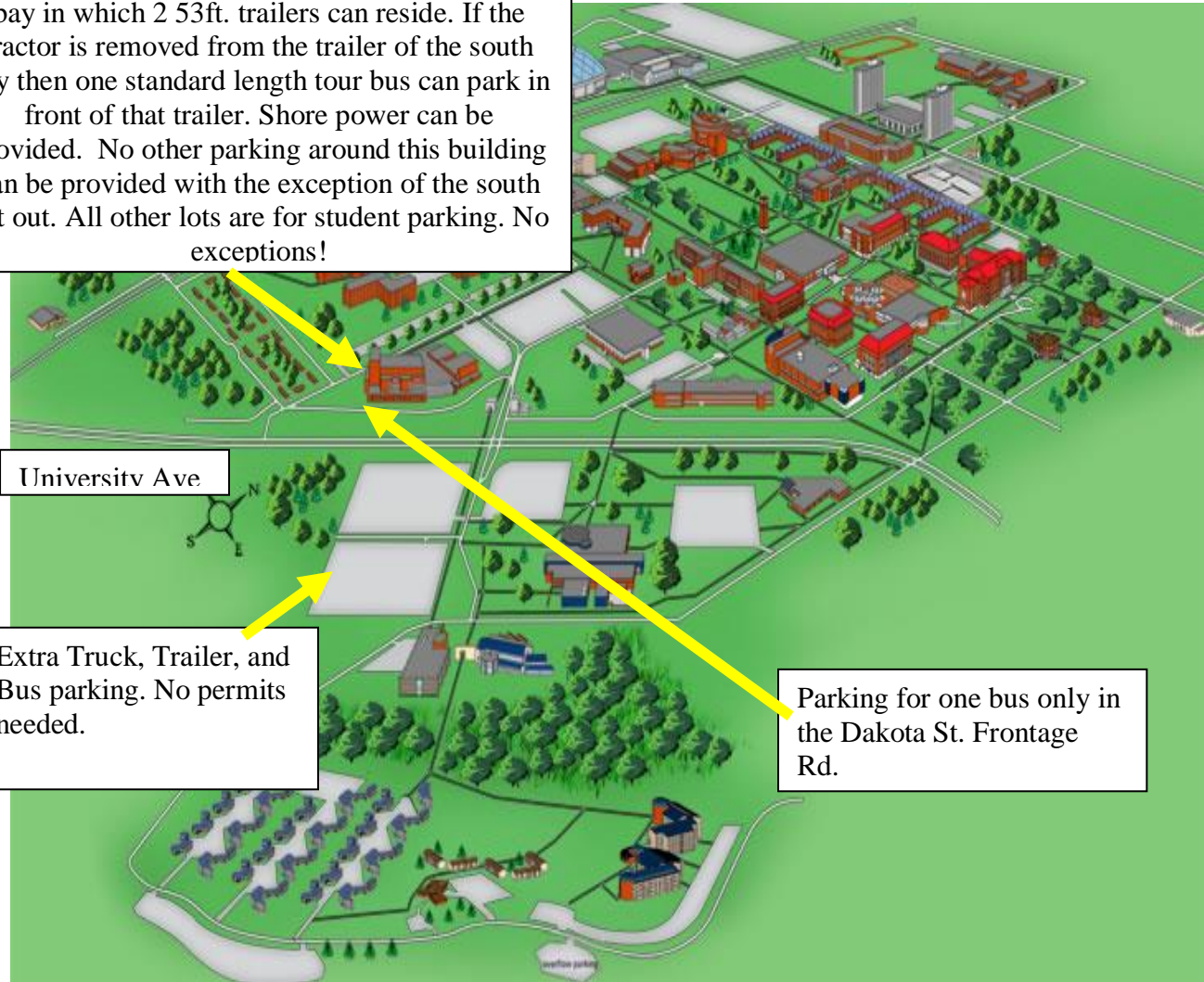
Turn left (North) onto Hudson Road going to Cedar Falls

After 3 miles, at the intersection of University Avenue (stop lights), turn right (East) on University Avenue.

Take the first left, which is Ohio Street. The Performing Arts Center is to your right. The Loading Dock/Stage Door is to the right, at the rear of the building.

**Gallagher Bluedorn PAC.**

Loading dock on west side of building. 2 dock bay in which 2 53ft. trailers can reside. If the tractor is removed from the trailer of the south bay then one standard length tour bus can park in front of that trailer. Shore power can be provided. No other parking around this building can be provided with the exception of the south cut out. All other lots are for student parking. No exceptions!



University Ave

Extra Truck, Trailer, and Bus parking. No permits needed.

Parking for one bus only in the Dakota St. Frontage Rd.