

JOHN S. UMBLE CENTER

TECHNICAL SPECIFICATIONS - JUNE 2011

created by Jerry Peters, version 11.06.29

I. SHOW MANAGEMENT

Production Room:

The theater conference room (UC200) is available (by prior arrangement) to serve as a production office. It is accessed through the USL door, up one flight. It is equipped with: 1 networked computer, 1 networked laser printer, 1 campus phone, 1 small (4' x 3') conference table, several chairs, 1 paper cutter, 1 three-hole punch. Wireless access is available. Dimensions are 12'-7" x 14'-0".

Green Room (UC 132):

Located adjacent to SL. It is accessible from dressing rooms, USL door and HR (south) lobby.

Stage Manager's Console:

Main console is located in the lighting control booth (UC 300) at rear of house (ROH), above the balcony. Access to this location is through the house. Auxiliary panel is located SR, US of proscenium. Both are equipped with 2 channel production communication system (Clear-Com). Video monitor is available at ROH location only.

Closed-circuit video:

In house video monitoring system monitors are located in the control booth (UC300), green room (UC 132), TD's office (UC 204) and dimmer rack room (UC 007). The camera (mounted at ROH) has a full view of the stage and partial view of the front of the house.

Rehearsal Rooms:

Dedicated rehearsal room is not available. Green room may be used.

Crews:

Paid student staff.

Handicapped Access:

Yes. Wheelchairs can access stage, dressing rooms, green room, audience seating area (house), public restrooms.

Policies:

House typically opens 30 minutes prior to curtain. For theater department events curtain is 3:00pm (matinees) or 8:00pm.

The John S. Umble Center and the Goshen College campus are smoke free environments.

II. LOAD-IN AREA

Dimensions:

Loading dock is 8'-0" wide. Its elevation is 0'-0" (same as stage). The truck ramp is -2'-8" (below) the loading dock. One truck can be accommodated at a time. Loading dock door (hinged double doors) is 8'-0"H x 8'-0"W, opens to scene shop area (43'-0"L x 23'-6"W) which opens to a door (12'H x 12'W) in the SR wall. Set pieces and gear should be sized appropriately.

III. CARPENTRY (pg 1 of 2)

Seating:

Total:	417 seats
Orchestra:	67 permanent seats (rows A-C) surrounding the stage thrust (orchestra pit). These are below stage level. 7 of these seats can be removed to install a bridge connecting the stage to the vom (house center) entrance.
Main:	242 permanent seats (rows D-L, row I does not exist) raked from stage level (0'-0") to balcony (+10'-8"). 4 of these seats (in row D only) can be removed for wheelchairs.
Balcony:	108 removable seats (rows M & N) (no wheelchair access)
Pit:	When the pit cover is at floor level (-2'-0") ~26 seats can be added. (these are not included in the normal seat count)

Stage Dimensions:

Proscenium:	Width is adjustable from 36'-0" to 50'-0" x 22'-0"H.
Stage depth:	Total: 37'-11" w/ pit cover installed. 28'-11" w/ pit uncovered. Thrust: 9'-0" (orchestra pit) Apron: 4'-3" Proscenium to US wall: 24'-8"
Stage width:	SL lock rail to SR wall is 60"-9". Masonite covered stage proper is 40'-0".
Wing Space:	SR - 11'-6" wide. SL - 8'-3" wide. Wing space floor is concrete.
Grid Height:	48'-6"
Orchestra Pit:	DS area (stage thrust): Trapezoid shaped. 13'-8" wide @ DS edge 31'-4" wide @ US edge 9'-0" deep @ center line Manually raised and lowered (about 30 person-hours of labor). US area (-10'-0") (below stage deck): 31'-0" wide x 19'-2" deep
Stage Height:	0'-0". All vertical measurements in this document are referenced to stage elevation. The main house aisle is the same elevation as the stage.
Stage Floor:	Most of the stage (except the US 9') is covered by 1/8" masonite panels. The entire stage (except wing space) is painted flat black.

Rigging:

Line Plot Data:	See attachment "X" (to be created)
Battens:	20 - 47'-6" battens, 1 1/2" sch. 40 pipe, 5 lift lines. 4 - 50'-6" battens, 1 1/2" sch. 40 pipe, 5 lift lines. 2 - 55'-0" battens, 1 1/2" sch. 40 pipe, 5 lift lines.
Type:	All line-sets are single purchase, T-Track counterweight, 6' arbors.
Arbor capacity:	841 lbs. (evenly distributed) per pipe.
Available weight:	lots. 4" wide pig iron.
Loading gallery:	Located at stage left at 40'-0" above the deck.
Locking rail:	Located at stage left at deck level.
Trim heights:	High trim: 47'-0" above the deck. Low trim: 4'-0" above the deck.

III. CARPENTRY (pg 2 of 2)

House Draperies (Soft Goods):

- Grand Drape:** Line set #1. Not moveable. Pewter-colored, velour that can be drawn or flown.
- Legs:** Line set #: 4, 9, 15, 19, 24. Five sets of black 22 oz. encore legs at 28' high x 10' wide, w/no fullness.
- Teasers:** Line set #: 2, 8, 14, 19. Three black 22 oz. encore borders at 12' high x 48' wide, w/no fullness. Teaser #2 (line set #8) is 20'H x 48'W.
- Traveller:** Line set #18: Not moveable. One black 22 oz. encore traveler at 28' high x 40' wide, w/no fullness. Can be drawn or flown.
- Black drop:** Line set #13: One black 22 oz. encore drop at 26'H x 50'W, w/no fullness.
- Cyclorama:** Line set #26: One seamless white muslin cyc at 30' high x 48' wide.
- Acoustical:** 6 pewter-colored, velour draperies hang around the perimeter (rear and sides) of the house. Normally stored, they can be deployed to dampen the natural reverb in the house. Operation is manual.

Support Areas:

- Crossover:** Hallway behind the US wall, at stage level accessed by doors on either side of the stage. These doors also lead to the dressing rooms located US of the stage. This area can become very congested.
- Dressing Rooms:** Located upstage through doors at either side of the stage. There are two dressing rooms which accommodate (depending on how cozy they want to get) ~4-6 actors each. There is no 'star' dressing room.
- Green Room:** Located adjacent to SL. Access is from the USL door or from the HR (south) lobby. (25'-10"NS x 23'-6"WE)
- Scene Shop:** Located SR through a double bi-fold door 12'-0"H x 12'-0"W. All major woodworking tools are available. (43'-0"L x 23'-6"W)
- Storage:** Scene shop (dimensions above). Small personal items can be secured in the Technical Director's office (UC204) one floor above the dressing room area.

IV. LIGHTING (1 of 2)

- Dimmers:** 3 - ETC Sensor+ 48 dual module (96 circuit) racks
111 - ETC Sensor D20 2.4kW (20A) x 2 (dual) dimmers.
2 - ETC R20AF non-dim modules
31 - ETC AFM air flow modules
- Control:** ETC Express 48/96 control board w/ RFU.
- Architectural:** ETC Unison control for house, aisle and work lights.
Architectural control is at 3 locations:
Lighting control booth (UC 300) - located at ROH above the balcony
Stage right - Stage manager panel
Stage left - small auxiliary panel
House lights can additionally be operated from buttons located at USL and USR doors.
- Circuits:** All lighting circuits are 2.4kw (20A), L5-20R twist-lock.
- 1 - 22 Electric 1 (22 circuits)
 - 23 - 40 Electric 2 (18 cts)
 - 41 - 58 Electric 3 (18 cts)
 - 59 - 74 Electric 4 (16 cts)
 - 75 - 96 FOH 2 (22 cts)
 - 97 - 112 FOH 3 (16 cts)
 - 113 - 118 HL boom box (6 cts) (currently supplying FOH 1)
 - 119 - 124 HR boom box (6 cts) (currently supplying FOH 1)
 - 125 - 130 HL balcony railing (6 cts)
 - 131 - 134 ? (4 cts) (check outdoor balcony and Yost balcony)
 - 135 - 140 HR balcony railing (6 cts)
 - 141 - 172 Stage deck floor pockets (32 cts)
 - 173 - 174 Orchestra pit US wall (2 cts)
 - 175 - 176 HL on stage apron wall (2 cts)
 - 177 - 178 HR on stage apron wall (2 cts)
 - 179 - 180 HC in vom entrance (2 cts)
 - 181 - 204 FOH 3 pigtail boxes (24 cts) (185-188 and 197-200 currently supplying FOH 1)
 - 205 - 215 House lighting (11 cts)
 - 216 aisle lights
 - 217 stage work lights
 - 218 FOH work lights
 - 219 catwalk work lights
 - 220 stagehouse grid lights
- Circuit Chart:** See (some document that has yet to be created)
- FOH Transfer:** None available.
- FOH Positions:**
- FOH 1: xx'-xx" from plaster line, XX' throw at XX° (no catwalk access)
 - FOH 2: xx'-xx" from plaster line, XX' throw at XX°
 - FOH 3: xx'-xx" from plaster line, XX' throw at XX°
 - Box booms: xx'-xx" from plaster line, XX' throw at XX°
 - Elec 1: xx'-xx" from plaster line
 - Elec 2: xx'-xx" from plaster line
 - Elec 3: xx'-xx" from plaster line
 - Elec 4: xx'-xx" from plaster line

IV. LIGHTING (2 of 2)

Equipment Inventory: All instruments are L5-20R twist-lock. All ETC and Strand instruments are equipped with 575W lamps unless specified. Altman 6" instruments are equipped with 750W lamps.

Rep Plot:

FOH: **FOH 1:** 10 - ETC S4 26°. 10 - ETC S4 36°.
FOH 2: 6 - ETC S4 26°. 8 - ETC S4 36°. 9 - Strand SL 26°.
FOH 3: 2 - ETC S4 19°, 750W. 8 - Strand SL 19°. 1 - Strand SL 26°. 20 - ETC S4 26°.
Stage: **Elec 1:** 14 - ETC S4 26°. 5 - ETC S4 50°. 5 - PAR 64 WFL, 1kw.
Elec 2: 4 - ETC S4 50°. 6 - Altman 360Q 6x12, 750w. 4 - PAR 64 WFL, 1kw.
Elec 3: 3 - ETC S4 50°. 6 - Altman 360Q 6x12, 750w. 3 - PAR 64 WFL, 1kw.
Elec 4: 4 - Altman 4-cell Sky Cyc lights, 1kw.

More fixtures: 12 Altman 6" fresnels, 500 & 750w. 8 - ETC S4 19°. 1 - ETC S4 26°. 5 - ETC S4 36°. 4 - ETC S4 50°. 2 - Strand SL 19°. 10 - Altman zooms 19°-50°, 750w. 6 - Altman 154 16" scoops, 1kw. 8 - Altman R-40 8' border lights, (4 circuits x 4 cells), 150w. 6 - American DJ PL-1001 ETL pin spots, par 36, 30W, edison.

Accessories:

2 - Rosco I-Cue intelligent mirrors
1 - Rosco PSU-50W power supply (for I-Cues).
1 - Wybron Coloram II 19060 6-way power supply
1 - Wybron Coloram II 19012 12-way power supply
8 - Wybron CXI color scrollers
1 - Gray DMX Dart

Hardware:

2 - 12" side arms, 8 - 50# boom bases, 8 - 10' boom pipes
Pattern holders: 16 - ETC S4 (size A), 10 Strand SL (size B), 14 - Altman (size B),
3 - universal iris slot holders
Irises: 7 - ETC S4, 2 - Strand SL

28 - ETC top hats, 4 - ETC half hats, 6 - Altman top hats
12 - 90° cheeseborough clamps, 6 - crossover clamps

Cable:

15A and 20A electrical: lots available in 5, 10, 20, 25, 30, 35 and 40 ft lengths.
20 - two-fers. A variety of adapters available, L5-20R twist-lock to Edison, M & F.
Control (4-pin XLR): 2 - 25', 10 - 10'
DMX (5-pin XLR): 3 - 75', 2 - 25', 1 - 10'

Follow spots:

None available.

Color cut size for: **ETC & Strand** = 6" square.
Altman 6" = 7½" square.
Par fixtures = 10" square.
Cyc fixtures = 15¾" square.
Scoops = 16" square.
Borderlights = 5¾" x 6¾"

Notes: FOH #1 lighting position can only be focused with a personnel lift. All manufacturers' requirements will be adhered to when using the lift, e.g. all outriggers must be in place and screwed down tight to the floor before use.

-The lift will not be moved with the bucket in the air!!!

V. AUDIO (1 of 2)

Power:	No shore power available.
Control Location:	Located at the rear of house, center, at the balcony level.
Hearing Assist System:	Listen LT-803 FM assistive listening system, with 10 Listen LR-500 receivers available. Receivers are stored at the Music Center. Permission must be procured to use them. Umble Center has 4 headsets and 2 T-coil neck loops. Additional headsets can be obtained from the Music Center.
Monitoring/Paging:	Bogen MCP 35A. Access to dressing rooms, green room, TD office, scene shop, costume shop, theater house, orchestra pit, dept. chair's office, USR storage room. Bogen head unit is located in the control booth in the rear of the house (directly above the audio console). Program input possible.
Production Communications:	Clear-Com MS-232 , 2 channel wired base; 9 headsets, 8 wired belt packs, Patch point locations as follows: Channel A & B: base unit in control booth, light console, audio console, SL @ fly rail, SR @ SM panel, house center under seat D17, in USR light trap, TD office Channel A only: balcony HL, balcony HR, UC206 (lighting storage), catwalk (center, above thrust), under seats D6 & D26, south lobby, kitchen, orchestra pit, UC007 (dimmer rack room).
Equipment Inventory:	
Mixing Console:	1 - Allen & Heath GL4000-840.
Inputs:	32 mic/line and 8 stereo line inputs.
Outputs:	8 sub master and LCR master output. 10 AUX sends with masters. 11x4 Matrix, 8 mute groups, 4-band parametric EQ
Wired Mics:	2 - AT4041 condenser, 1 - Shure SM58.
Wireless Mics:	2 - Shure (wireless) SM58 handhelds, 2 - Shure ULX (wireless) belt packs, 2 - Shure lavaliers, 4 - ATM73 headsets, 1 - Countryman B6 , 1 - Shure beta 53 headset.
Wireless Receivers:	2 - Shure ULXP4.
Playback:	1 - Sony MDLP minidisc. 1 - Stanton C.402 stereo CD player w/pitch control. 1 - Pioneer DV588-A DVD player. 1 - JVC HR-S3901U VHS player.
Playback software:	1 - Windows PC installed w/ iTunes, Media Player, Show Cue System® (8 useable channels) connected via FireWire to 1 - Audiofire12 multi-channel digital audio interface.
Signal Processing:	1 - tc electronic M-one dual signal processor, 1 - Presonus 8-channel compressor/limiter, 1 - dbx ? driverack. 3 - dbx 2231 - dual channel, 31 band graphic equalizers.
Amplifiers:	House Mains: located in control booth. L-R highs: 1 - Crown K1 L-R mids: 1 - Crown K2 L lows: 1 - Crown K1 , (bridged) R lows: 1 - Crown K1 , (bridged) C highs: 1 - Crown K1 C lows: 1 - Crown K1 Stage Monitors: located in US cross-over near stage right. 2 - Crown K1 Auxiliary amps: located in control booth. 3 - Crown D60 , 35 watts/channel.

V. AUDIO (2 of 2)

Equipment Inventory: (cont'd)

Fixed Speakers: Left-Right mains (stereo): 2 - **JBL VS3215-9** cabinets.
Center mains (mono): 2 - **JBL SP215-9** cabinets.

Monitor Speakers: 5 - **JBL MP412** wedge monitors.

Cable: **Mic:** XLR (3-pin) M to F
1 - 50'. 3 - 30'. 6 - 20'. 6 - 10'.
A variety of adapters is available.

Speak-on: M to M

4 - long. 5 - short.

Snakes: [\(more detail here\)](#)

Mic stands: 5 - **Proel ALV110BK** stackable iron-cast base

8 - **Proel PRO200BK** tripod base w/ boom

4 - **Proel PRO281BK** low-level tripod base w/ boom

Direct boxes: 5 - **Proel DBA1CH** active

1 - **Proel DB1CH** passive

VI. VIDEO

Control Location: Located at the audio console, ROH, center, at the balcony level.

Playback gear: (also listed under audio playback devices)
1 - **Pioneer DV588-A** DVD player.
1 - **JVC HR-S3901U** VHS player.
(note - There is no computer available for video or powerpoint playback as standard equipment in Umble Center.)

Projector: 1 - **Panasonic PT-F100**, 3200 lumen. (mounted at house center, below audio console)

Inputs: S-video, video, computer 1, computer 2, component, audio, computer audio

Outputs: variable audio

Data: serial, remote, Lan (RJ-45)
Throw distance to projection screen: 46'-7"

Accessories: 1 - **City Theatrical 4160** dowser.
1 - **Phihong PSC30R** 50W power supply (for dowser).

Projection screen: 30'W x 12'H
Located on line-set 6

Closed circuit system: 2 - infrared emitters
1 - **Elmo** PZT camera

CC monitor locations: Stage manager station in the control booth (UC 300)
Green room (UC 132)
Technical director's office (UC 204)

VII. PROPS

Music Stands:	6 Wenger (black). No conductor's stand. (see note below)
Stand lights:	None available in Umble. (see note below)
Orchestra Shell:	None available.
Platforms:	None available in Umble. (see note below)
Dance Floor:	None available.
Lecterns:	2 - non-adjustable (classroom style). 1 - oak. 1 - pine.
Bridge:	Provides a level connection from the DS edge of the thrust to the vom (house center) entrance. 9'-6"L x 3'-7"W. To install the bridge seven (7) house seats must be removed. (2 man-hours labor)
Thrust extension:	Extends the thrust down-stage by 3'-10". Elevation is -0'-6". To install the thrust extension six (6) house seats must be removed. (2 man-hours labor)
House-stage steps:	Enables easy access from the two radial aisles to the DS corners of the stage. When these are installed audience may not use seats A7 - A12. (no charge)

Note: Additional stands, stand lights, **Wenger** orchestra chairs, and **Wenger** platforms are available from other departments by prior (at least 14 days) arrangement.

VIII. WARDROBE

Dressing Rooms:	2 dressing rooms with lighted mirrors, counter space and stools for 4-6 people each. Each dressing room is equipped with a full-length mirror. Each of the dressing rooms is adjoined by a small restroom. The restrooms each contain one shower stall, one lavatory, and one sink with a vanity mirror.
Guest Dressing Room:	None available. Dressing rooms are located upstage and on the same level as the stage with direct access to either stage right or stage left.
Wardrobe Area:	(Costume shop) One level below the dressing rooms. Accessible from stage left.
Irons:	2
Ironing boards:	1
Steamers:	None available in Umble. May be procured with prior arrangement.
Washers/Dryers:	1 set, Speed Queen , no fee. (in costume shop)
Racks and hangers:	Several rolling clothes racks available.
Quick Change Booths:	None available.

IX. ATTACHMENTS

- A:** Map of local area.
- B:** Map of Goshen College campus.
- C:** Line Schedule: see website. <http://www.goshen.edu/xxx>
- D:** Circuit Plan: see website. <http://www.goshen.edu/xxx>
- E:** Ground Plan: see website. <http://www.goshen.edu/xxx>
- F:** Section thru CL: see website. <http://www.goshen.edu/xxx>