



ORPHEUM THEATRE

TECHNICAL INFORMATION PACKET

orpheus
omaha
performing
arts

1200 Douglas Street Omaha, NE 68102 402.345.0606
o-pa.org/

Note:

This Tech Packet contains numerous hyperlinks that will take you to other pages and/or websites.

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Orpheum

Location, Directions, and Loading Dock Information

Location: 409 South 16th Street, Omaha, NE 68102

Stage door is on 15th Harney St, Dock entrance is on 15th and Howard St.

Directions from I-29: Follow I-29 N (I-29 and I-80 merge in Council Bluffs) to the Left I-480 West/HWY 6 Exit 53B to Nebraska; Follow Exit 4 HWY 6/Dodge St. (Century Link/Eppley Airfield Exit); Continue on Dodge Street West to 14th St; Turn left onto 14th St. and continue Southbound 4 blocks to Howard Street; Turn Right (West) onto Howard St one block to 15th St. Stage door is on the corner of 15th and Harney and the loading doors are on the Southeast side of the building.

Directions from I-80 Eastbound: Follow I-80 East to the Right I-480 N Exit 452 toward Eppley Airfield; Continue on I-480 N and follow to I-480 East toward downtown; Continue on I-480 East to the Century Link Exit 3A on the Right; Follow the Century Link Exit straight on 14th Street; Continue Southbound 4 blocks to Howard Street; Turn Right (West) onto Howard St one block to 15th St; Stage door is on the corner of 15th and Harney and the loading doors are on the Southeast side of the building.

Directions from I-80 Westbound: Follow I-80 W until I-29 and I-80 merge in Council Bluffs; Follow I-29 N to the Left I-480 West/HWY 6 Exit 53B to Nebraska; Follow Exit 4 HWY 6/Dodge St. (Century Link/Eppley Airfield Exit); Continue on Dodge Street West to 14th St. Turn left onto 14th St. and continue Southbound 4 blocks to Howard Street; Turn Right (West) onto Howard St one block to 15th St; Stage door is on the corner of 15th and Harney and the loading doors are on the Southeast side of the bldg.

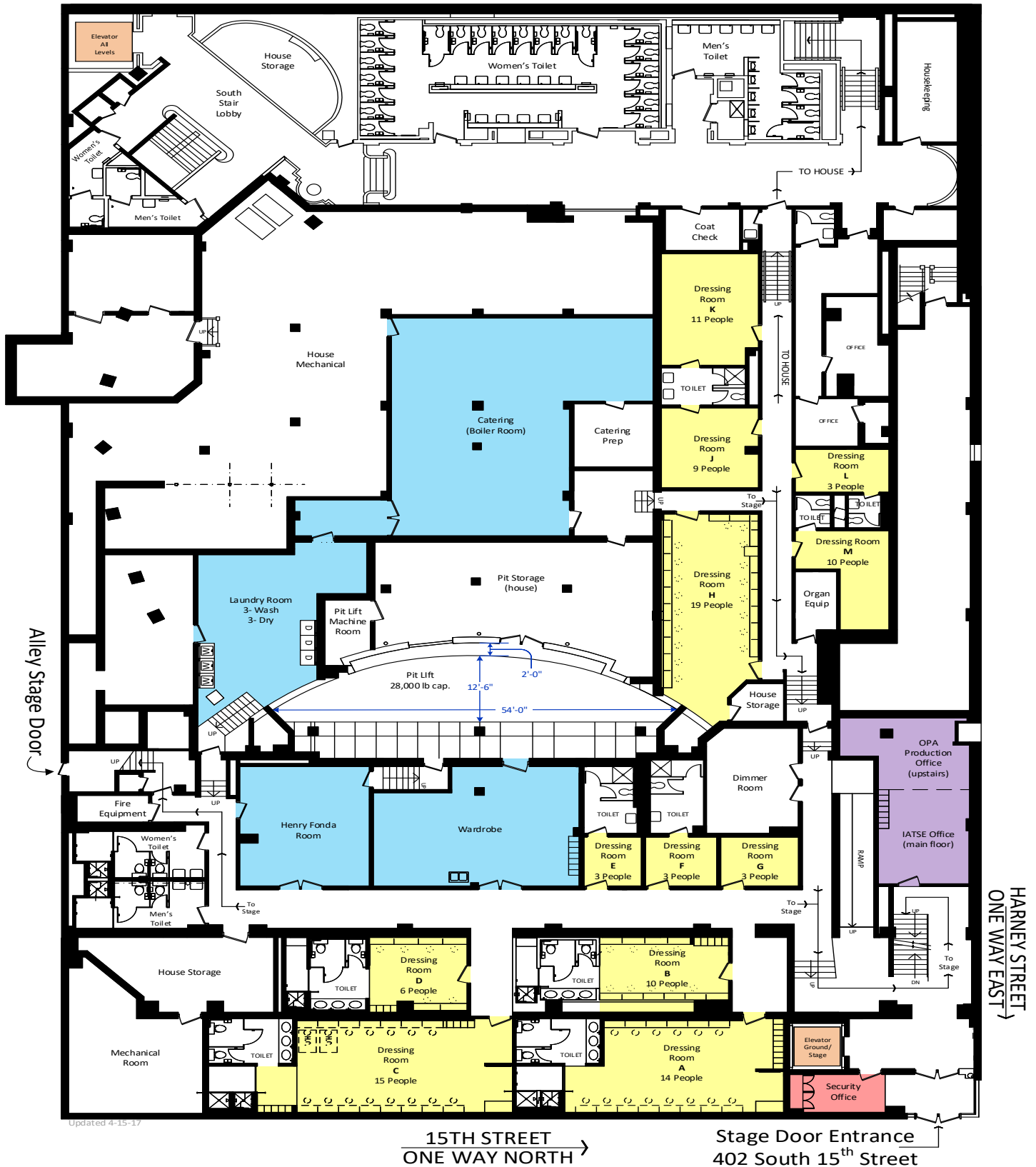


Loading Dock
View from
Corner of 15th and Howard St.
(Facing North)

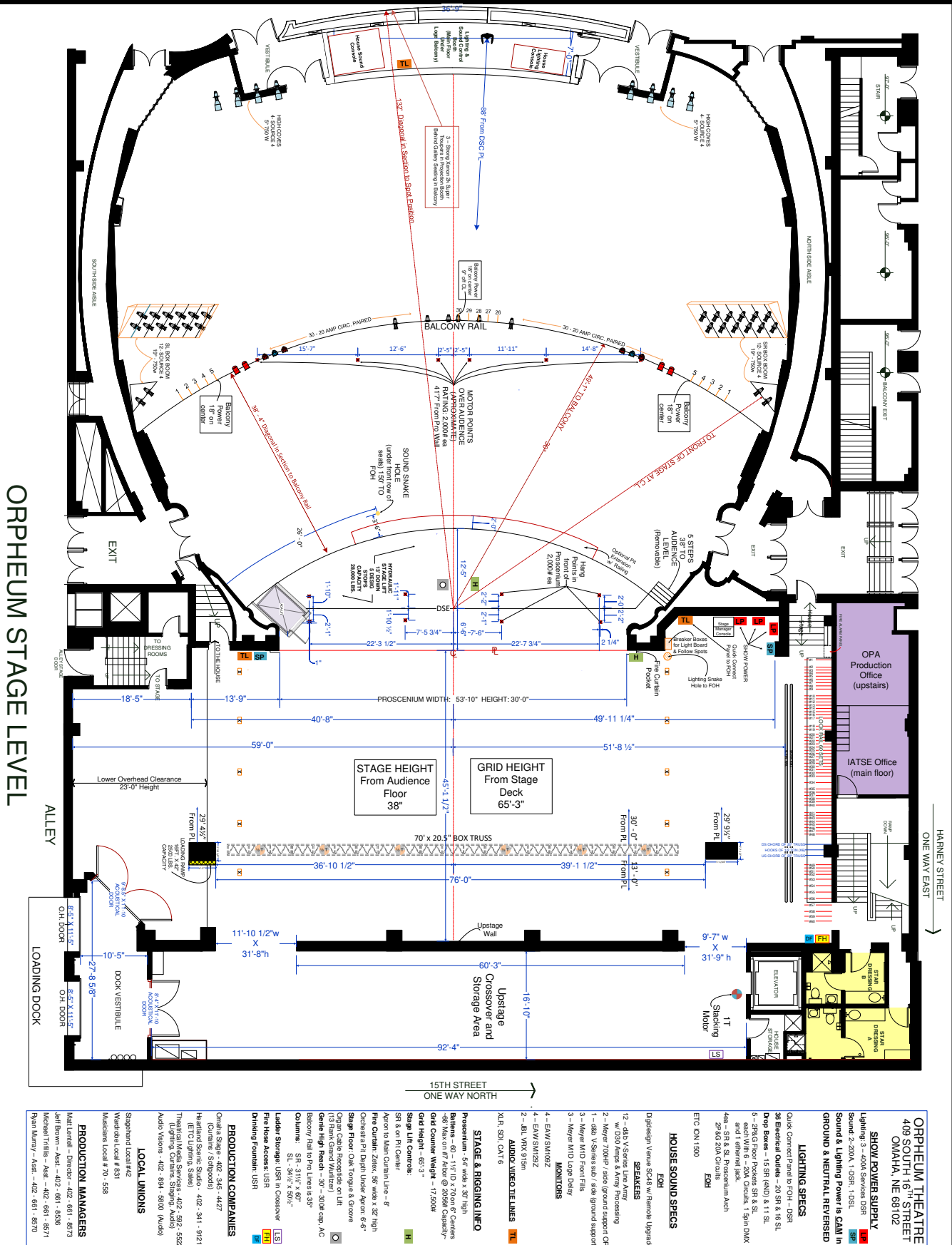
2 Adjacent Docks (Upstage Left)
West Door– 8' wide x 11'3" high
East Door - 8'6" wide x 11'3" high
4' elevation above pavement
Levelers on each dock
Both doors load directly onto stage

Orpheum Building Layout “Lower Level”

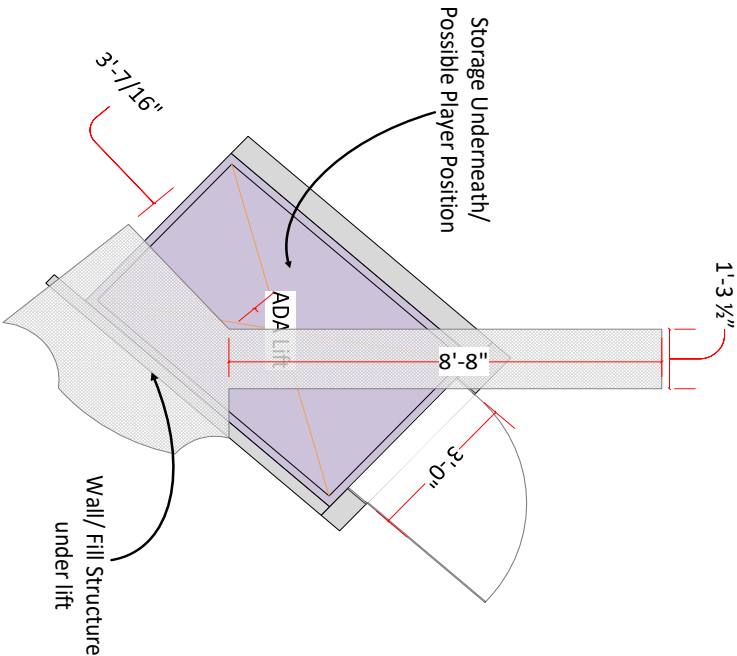
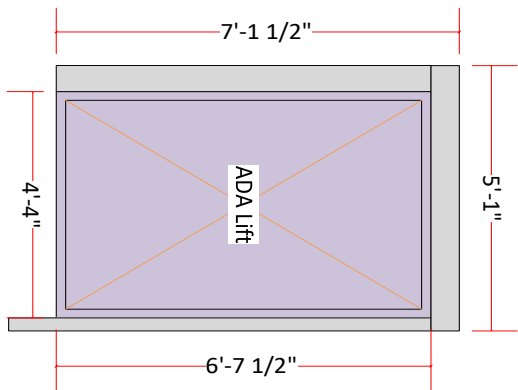
ORPHEUM BASEMENT LOWER LEVEL DRESSING ROOMS



Orpheum Building Layout "Orchestra Level"

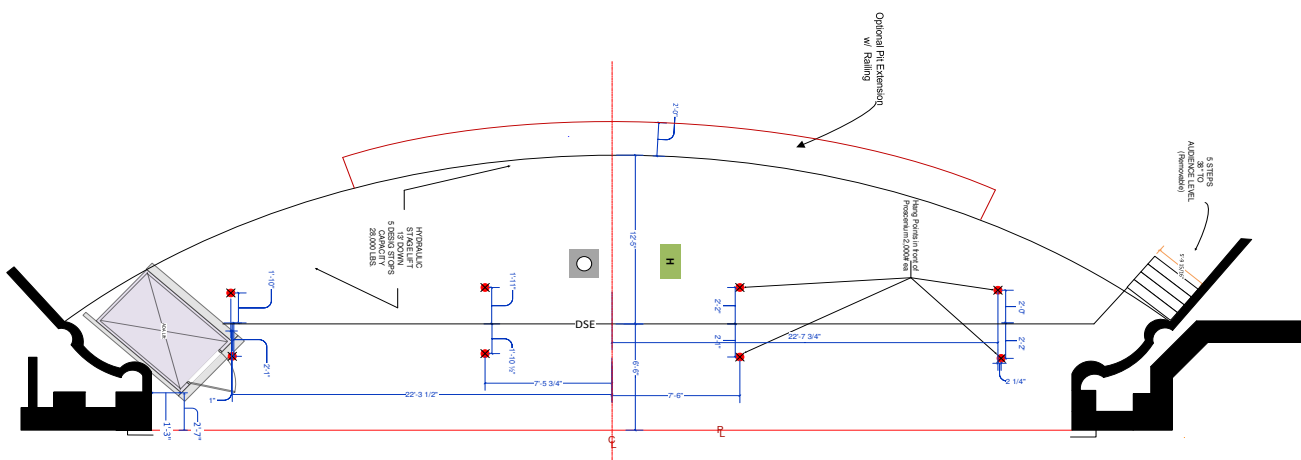


Orpheum Building Layout “Orchestra Level”



ADA Lift Expanded View

Drawing NOT TO SCALE



ORPHEUM THEATRE
409 SOUTH 16TH STREET
OMAHA, NE 68102

SHOW POWER SUPPLY

Lighting 3 – 400A Services USR
Sound 2-200A, 1-DSR, 1-DSL
Sound & Lighting Power is CAM in
GROUND & NEUTRAL REVERSED

LIGHTING SPECS

Quick Connect Panel to FOH – DSR
38 Electrical Outlets – 20 SR & 18 SL
Drop Boxes – 15 SR (AND) & 11 SL
5 – 2P&G Floor Pockets SR & SL
each With 6 – 20A Circuits, 1 5pin DMX
and 1 ethernet jack
4ss – SR & SL Precutium Arch
2P&G 20A Circuits

FOH

ETC IOX 1500

HOUSE SOUND SPECS

FOH

Digital Sign Venue SCALE w/ Remote Upgrade

SPEAKERS

- 12 – d80 V-Series Line Array w/ D30 Amps & Array Processing
- 2 – Meyer 700HP / side (ground support) OR 1 – d80 V-Series sub / side (ground support)
- 3 – Meyer W1 D Front Delay
- 3 – Meyer W1 D Loop Delay

MONITORS

- 4 – EAW SM100Z
- 4 – EAW SM120Z
- 2 – ABT VAX 915m

AUDIO VIDEO THE LINES

VIDEO

XEL, SD, CAT 6

STAGE & RIGGING INFO

Precutium - 54' wide x 30' high
Battens - 60' - 11' ID x 70' on 6' Centers
- 66' Max on 87' Arc @ 20500 Capacity
- 66' Counter Weight - 17500lb
- 66' Height - 66' 3"
- 66' 3"
Stage Lin Controls:

SR

SR & on PI Center
Apcon to Main Curtain Line - 8'
Fire Curtain, Zeele, 55' wide x 32' high
Orchestra Pit Depth Under Apron: 6'-6"

SR

Stage Floor Oak Tongue & Groove
Organ Cable Receptacle on Lin
(13 Rank Grand Winder)
Genie High Reach - 30' - 300' cap, MC
Beltway Rail to Pro Lines is 35'

SR

Columns: SL - 341/2" x 60"
Ladder Storage USR in Oriskany
Fire Hose Access USR
Drinking Fountain USR

SR

PRODUCTION COMPANIES

Orchestra Stage - 402 - 345 - 4427
(Orchestra) (Sofitpools)
Handmade Scene Studio - 402 - 341 - 9121
(ETC Lighting Sales)
Theatrical Media Services - 402 - 592 - 5522
(Lighting, Curtains, Stage Audio)
Audio Videos - 402 - 894 - 5800 (Audio)

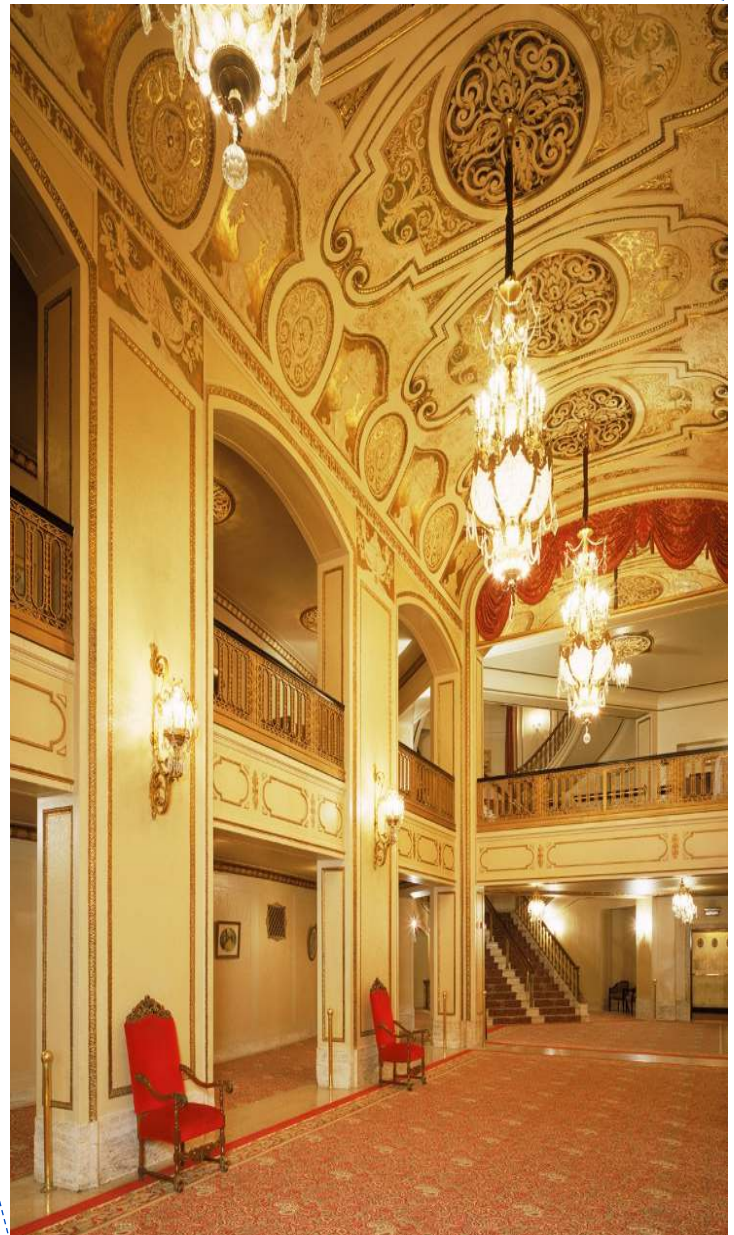
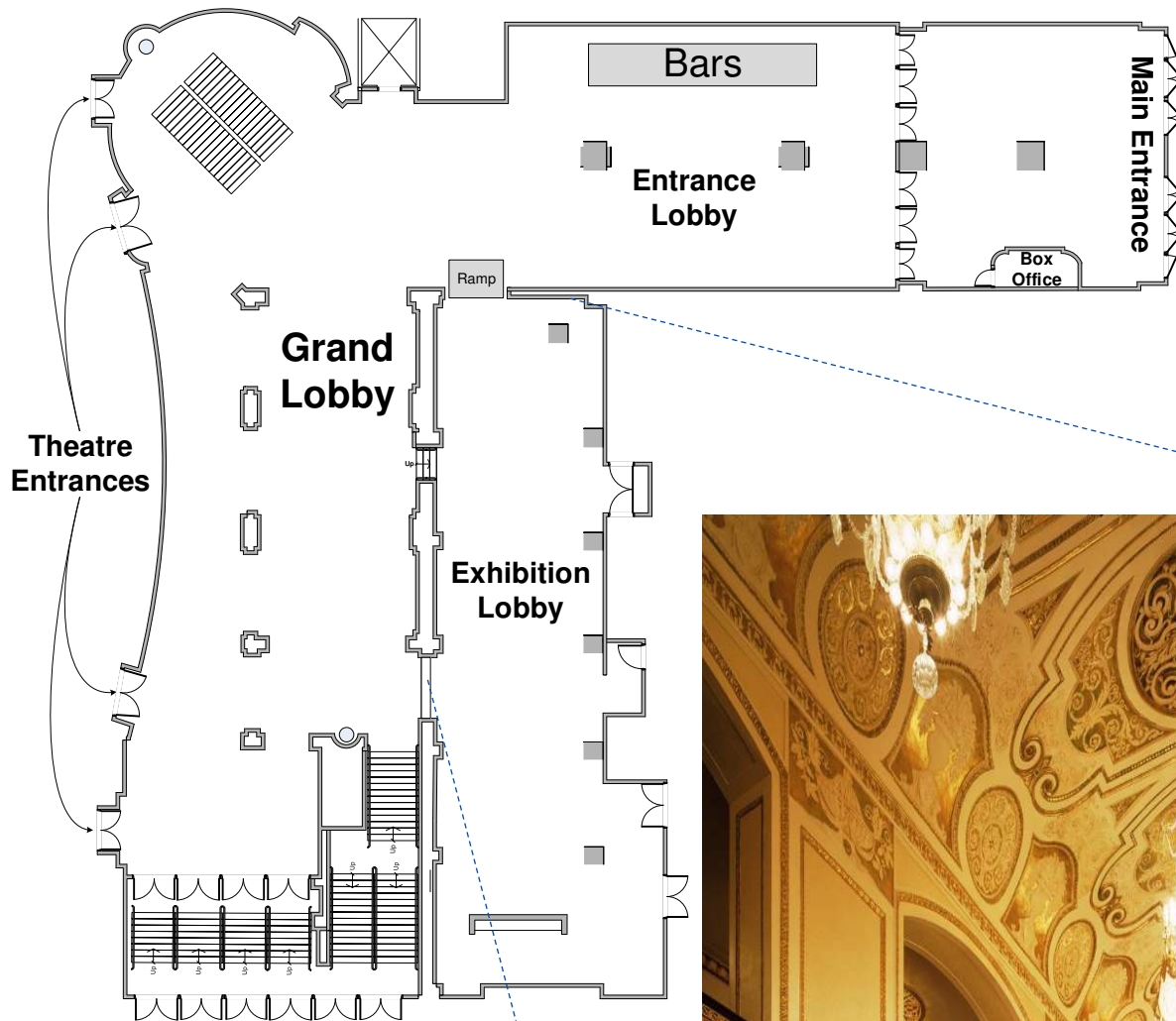
LOCAL UNIONS

Stagehand Local #42
Wichita Local # 831
Musicians Local # 70 - 558

PRODUCTION MANAGERS

Matt Lenzell - Director - 402 - 681 - 8573
Lett Brown - Asst. - 402 - 681 - 8536
Michael Trilles - Asst. - 402 - 681 - 8571
Ryan Murray - Asst. - 402 - 681 - 8570

Orpheum Lobby Information



Orpheum Rigging Information

Measurements

Fly Information:	See Lineset Schedule
Stage floor to grid:	64' 6"
Locking and pin rails:	Stage right (at stage level)
Counter weight house, single purchase.	60 pipes- 6" centers x 70' L
(All pipes operated stage right only)	

Arbor Capacity:	See Lineset Schedule
(House has 80% of total capacity for all arbors)	

Soft Goods

Main Curtain: 2— 30'W x 32'T	Red Velour (flies only)
Plum Curtain: 4— 15'W x 32'T	Velour (flies only)
Dark Blue: 4— 15'W x 32'T	Velour (flies only)
Black: 4— 15'W x 32'T	Velour (flies only)
Teaser Border: 60'W x 12'T	(flies only)
(6 Pairs) Legs:	18' wide x 32' high
(6 each) Borders:	60' wide x 12' high
Natural Cyclorama (flat):	70' wide x 32' high

Staging

12 — Wenger StageTek 4' x 8' Risers

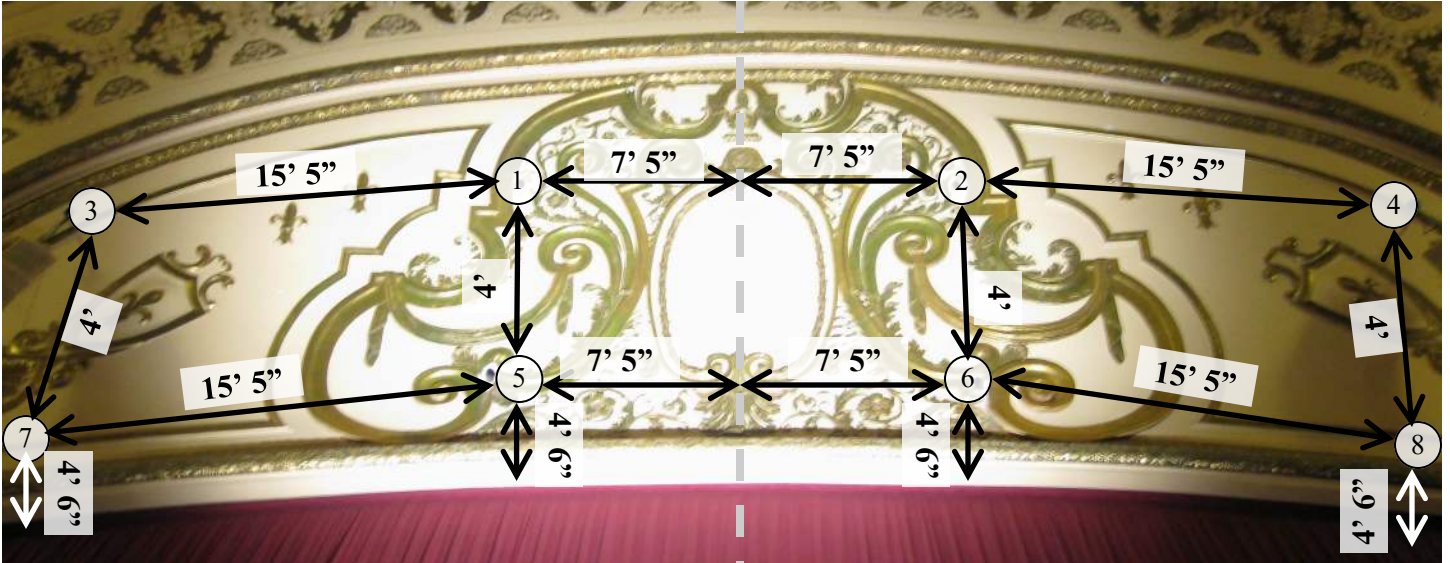
16 — 8" legs	16 — 12" legs	16 — 16" legs	36 — 24" legs
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Counter Weights 19,747 lbs.

Sand Bags Flyrail:	9 (50lbs/bag)
Sand Bags Flyrail:	5 (30lbs/bag)
Music Hall Weights Onstage:	43 (25lbs/weight)
Music Hall Weights Grid:	233 (25lbs/weight)
Music Hall Weights Lower Deck:	31 (25lbs/weight)
1/2 Weights Grid:	192 (15lbs/weight)
Lead Weights Onstage:	17 (30lbs/weight)
Lead Weights Grid:	279 (30lbs/weight)

Orpheum Rigging Information (cont.)

Downstage “Phantom” Hang Points on Proscenium



54' wide x 30' high

To up stage wall - 48'6"

To down stage edge of orchestra pit - 20'4"

Hang Points from Balcony



Orpheum

Rigging Information cont.

Set #	From PL	Notes	Head Block	House Set Item	Weight	Set Notes
1	1'-5½"	Welded	2'-1"	Main	23 Lead + 1 Half	Welded in place
2	2'-7½"	Max DS	2'-7"	Teaser Border	3.5 Steel	Cannot move DS due to obstructions
3	3'-0½"		3'-1"	Tormentor Legs	4 Steel	
4	3'-6"		3'-7"			
5	4'-0"		4'-1"			
6	4'-6"		4'-7"	Electric # 1	28 Lead	
7	5'-0"		5'-1"			
8	5'-6"		5'-7"			
9	6'-0"		6'-1"			
OBSTRUCTION: Structural, from 6'-3" to 6'-11"						
10	7'-0½"		7'-7"			Cannot move DS due to obstructions
11	7'-6"		8'-1"			
12	8'-0"		8'-7"			
13	8'-6"		9'-1"	# 1 Border	3.5 Steel	
OBSTRUCTION: Structural, from 8'-11" to 9'-3" on two extreme wells						
14	9'-0"		9'-7"	# 1 Legs	4 Steel	Offstage lift lines skewed US
15	9'-6"		10'-1"			
16	10'-0"		10'-7"	Electric # 2		
17	10'-6"		11'-1"			Can move US 2" max.
OBSTRUCTION: Electrical Chase, from 10'-10" to 11'-4"						
18	11'-9"		>11'-7"			Can move DS 4" max.
19	12'-3"		>12'-1"			
OBSTRUCTION: Structural, spreader plate in wells @12'-9"						
20	13'-0"		>12'-7"			
21	13'-6"		13'-11"			
22	14'-0"		14'-5"	Plum Curtain	16 Lead	
23	14'-6"		14'-11"	# 2 Border	3.5 Steel	
24	15'-0"		15'-5"	# 2 Legs	4 Steel	
25	15'-6"		15'-11"			
OBSTRUCTION: Structural, from 15'-9" to 16'-1" on two extreme wells						
26	16'-0"		16'-5"	Electric # 3		Offstage lift lines skewed US
27	16'-6"		16'-11"			
28	17'-0"		17'-5"			
29	17'-6"		17'-11"			
30	18'-0"		18'-5"			
31	18'-6"		18'-11"			Can move US 1" max.
OBSTRUCTION: Structural, spreader plate in wells @18'-9"						
32	19'-0"		19'-5"	# 3 Border	3.5 Steel	Can move DS 1" max.
33	19'-6"		19'-11"	# 3 Legs	4 Steel	
34	20'-6"		>20'-5"			
35	21'-6"		>20'-11"			
36	22'-0"		>21'-5"			
37	22'-6"		>21'-11"			
OBSTRUCTION: Structural, from 22'-8" to 23'-0" on two extreme wells						
38	23'-0"		>22'-5"			Offstage lift lines skewed US
39	23'-6"		>22'-11"			
40	24'-0"		>23'-5"			Can move US 4" max.
OBSTRUCTION: Structural, from 24'-5" to 25'-1"						
41	25'-2"	Max DS	25'-5"			Cannot move DS due to obstructions
42	25'-7"		25'-11"	# 4 Border	3.5 Steel	
43	26'-0"		26'-5"	# 4 Legs	4 Steel	
44	26'-6"		26'-11"			
45	27'-0"		27'-5"	Electric # 4		
46	27'-6"		27'-11"	Blue Curtain	16 Lead	
47	28'-0"		28'-5"			
48	28'-6"		28'-11"			Can move US 1½" max.
OBSTRUCTION: Structural, from 28'-8" (28'-11½") to 33'-1" (32'-10½")						
	30'-3"			DS Chord of 20" Truss / Electric # 5		
	31'-0"			Hooks of 1/2 Tons (x6)		
	31'-9"			US Chord of 20" Truss		
49	33'-3"		33'-5"	# 5 Border	3.5 Steel	Can move DS 2" max.
50	33'-9"		33'-11"	# 5 Legs	4 Steel	
51	34'-3"		34'-5"			
52	34'-9"		34'-11"			
53	35'-6"		>35'-5"			
54	36'-6"		>35'-11"	Far Cyc Lights	16 Lead	
55	37'-6"		>36'-5"			Can move US 7" max.
OBSTRUCTION: Structural, spreader plate in wells @38'-1"						
56	38'-6"		>36'-11"			Can move DS 4" max.
57	39'-6"		>37'-5"			
58	40'-6"		>37'-11"			
59	41'-3"		>38'-5"	Black Curtain	13 Steel	
60	42'-0"		>38'-11"	Cyclorama	5 Steel	

Fly System
Single Purchase Counterweight SECOA Installed 8/1/12
Rail Position
SR Deck level Pin Rail begins @ approx. 52' SR of CL Lock Rail @ approx. 56' SR of CL
Line Sets
60 line sets 70'-0" long, 1½" (Schedule 40) battens 7 lift lines, 1/4" 7x19 GAC Lift lines @ CL + 7', 21', 31'-6" from CL 8" loft blocks, 2' long x 4½" wide footprint
Heights
Grid Height 65'-3" (Top) Upper loading gallery @ ±63'-0" Lower loading gallery @ ±53'-3" Fly High Trim 62'-9" Fly Low Trim 4'-0"
Arbors
60 x 7'-0" long Pipe weight uses 7" 11" clearance needed Trailing Arbors: 3 x 3'-0"
Counterweight
Lead 6" wide x 13½" long (6" wides cannot run adjacent) 3/4" thick @23.37# 1" thick @31.16# (We average 30# each) 66" max. on 7' Arbor, @ 2056# capacity
Steel 5" wide x 13½" long 2" thick @35.76# 1" thick ("Half") @17.88# 66" max. on 7' Arbor, @ 1188# capacity 24" max. on 3' Arbor, @ 429#
Usable Weight on Gallery approx. 26,400# 11,850# Lead, 14,554# Steel
Rope Spot Blocks 115 (60 dedicated, 55 free) Various lengths 5/8" Stage Set X hand line 8" rope blocks, 2' long x 4½" wide footprint

Orpheum

Lighting/Electric Information

Power Information

Stage Right:

Three 400amp 3-phase
One 200amp 3-phase isolated sound power

Laundry Room (stage left, 1 flight down):

One 400amp 3-phase

Stage left:

One 200amp isolated sound power
One 100amp 3-phase motor power

Fixtures and Lenses

Source 4

Fixtures:	103 (HPL750x Lamps)
5° Lens Tube:	8 (FOH Cove)
19° Lens Tube:	42 (24 in Box Booms)
26° Lens Tube:	44 (Available)
36° Lens Tube:	46 (Available)
50° Lens Tube:	4 (Available)

Source 4 PAR

Fixtures:	12 (HPL750x Lamps)
XWFL:	12
WFL:	12
MFL:	12
NSP:	12
VNSP:	12

PAR 64

Fixtures:	56 (1K Lamps)
WFL	49 (FFS, Subject to Availability)
MFL	52 (FFR, Subject to Availability)
NSP	18 (FFP, Subject to Availability)
VNSP	2 (FFN, Subject to Availability)

Other

10" Fresnels	35 (1K Lamps, BVT)
Three Cell Altman Far Cys	12 (1K Lamps)
R40 Strips 4 Circuit	20 (1200W)
Stand Lights	39 (25W)
Strong Super Trouper Spots	3 (2K Lamps)

Orpheum

Lighting/Electric Information cont.

Miscellaneous

Control

ETC Ion 1500.....	1
ETC Nomad Puck	1
Monitors	2
DMX Node 1.....	1 (Rack Mount SR)
DMX Node 2.....	1 (Storage)
DMX Node 3.....	1 (Storage)

Gobos

Size A Source 4 Holder.....	65
Size B Source 4 Holder.....	28
Glass B Source 4 Holder.....	1
Drop in Iris Source 4.....	8

Floor Boom

5.5” Metal Floor Plate.....	3
9” Metal Floor Plate.....	4
10” Metal Floor Plate (6lbs.)	8
50lb Boom Base.....	8
Metal Trunyon	10
Wood Trunyon	2
Square Wood Base/Trunyon	28
Assorted Wood Base (Smaller).....	6
Sidearms.....	26
Boom Pipes (Assorted Lengths)	Various Quantities
Bottom Pipes (Assorted Lengths)	Various Quantities

Other

10” Barndoors	12
7.5” Barndoors	6
6” Top Hat.....	1
10” Top Hat.....	6
7.5” Top Hat.....	3

Orpheum Sound Information

Microphone List

AKG C414B-XLS/ST (2)
AKG C 568 B (2)
AKG D 9000 (3)
Barcus Berry 400XL (1)
Countryman E6 (3)
Crown PCC 160 (5)
Crown PZM-180 (1)
Crown PZM-185 (1)

Neumann KM 184PA (2)
Rode NT5 (2)
Sennheiser MD 421-II (2)
Sennheiser MKH 60 (2)
Shure KSM32/CG (1)
Shure SM81 (4)
Shure Beta 87A (6)

Shure Beta 52 (1)
Shure SM 57 (8)
Shure Beta 57A (4)
Shure SM 58 (6+2 switched)
Shure Beta 58 (4)
Shure Beta 91A (1)
Shure Beta 98AD/C (4)

Wireless Microphones

Shure ULX P4 Receivers (6)
Shure SM 87A (4)

Shure Beta 87C (2)
Shure ULX 1 662-698MHz (3)

Shure 185 lavalier (1)
Shure WL51 lavalier (1)

Direct Input Boxes, Etc.

Whirlwind IMP 2 (1)
ProCo CB-1 (2)

Radial J48 (2)
Radial Pro AV2 (1)

Radial Pro DI (1)

FOH

Avid Venue SC48 w/ Remote Upgrade
MacBook Pro w/ QLab

Whirlwind USB PC (1)
Fostex 6301 NE Near Field Monitor (2)

Cat 6 Tie Lines (2)
Tascam CD-200

Loudspeakers

d&b V8 (8) & V12 (4) Flown Per Side
d30 Amplifiers with Array Processing
d&b Vsub (2)

Meyer CQ-1 (2)
Meyer 700HP Subs (4)
Meyer MID Loge Delay (3)

Meyer MID Front Fill (3)
RCF ART 312-A (2)

Monitors

EAW SM 129zi (4)

EAW SM 109z (4)

JBL SRX712M (2)

Clear Com

PS 704 Power Supply (1)
1-ch Beltpack (22)
2-ch Beltpack (2)
Push to talk Phone (2)
Single Muff Headset (3)

Double Muff Headset (20)
Lightweight Headset (6)
KB 701 Station (2)
KB 111A Station (1)
PL Pro RM-440 (2) - (1 in SM Console)

WBS-670 Wireless Station (2)
WTR-670 Wireless Pack (8)
****Paging System Covers all Dressing
Rooms and Hallways Backstage**

Portable Lobby System

Yamaha MG124c Mixing Console
Klark-Teknik DN360 Graphic Equalizer
dbx 160X Compressor/Limiter

Yamaha SPX1000 Multi Effect Processor
Tascam CD-100
DBX 160x Compressor (1)

Video Support

FOH Camera feeds main lobby, Weaver Lounge, wall mounted monitors backstage & SM console

XLR, SDI & Cat 6 Tie Lines: Equipment room to FOH, DSL, DSR.