

**WORTHAM THEATER CENTER
CULLEN THEATER
HOUSTON, TEXAS**



**BACKSTAGE
TECHNICAL
INFORMATION
PACKET**

WORTHAM CENTER OPERATING COMPANY

“A non profit organization founded to support backstage operations.”



WORTHAM CENTER OPERATING COMPANY

RULES AND REGULATIONS FOR USERS

The WCOC is a non-profit organization founded for the purpose of maintaining and operating the backstage equipment at the Wortham Theater Center. Our normal house crew consists of a House Carpenter, House Electrician, House Soundman and House Propman. The fiscal year 2009/2010 crew rate charge is \$34.34/per hour/per man, which includes all employer related expenses such as taxes, insurance and benefits.

1. Crew estimates (total labor charges + 10%) must be paid in full a minimum of thirty (30) days prior to your event. Special circumstances may reduce this minimum to ten (10) days at the discretion of the Director of Backstage Operations. Any funds not used will be refunded in a timely fashion following your event.
2. A lamp replacement fee of \$50.00 per day will be charged to the User for each day the theater is leased.
3. Unless prior arrangements have been made with WCOC, the User shall be responsible for issuing the call for backstage crew (other than House Crew) involved in the event. Labor charges for any additional crew are billed by another organization and are not reflected in the WCOC House Crew estimate. Depending upon the additional crew requirements, WCOC can estimate these labor charges and handle payment but only in the capacity of a payroll agent not as an employer.
4. Labor conditions such as overtime, meal penalties, recording fees, etc., will be charged on the same basis as in other professional venues within the City of Houston. Dependent upon the extent of equipment used and the size of the User's backstage crew, the hours charged on a daily basis for the WCOC crew may reflect an additional half-hour of time over and above the hours charged by the User's stage crew. This half-hour increment reflects any time, prior to the call, during meal breaks and after the call that the WCOC crew is performing opening and closing procedures to the theater.
5. There shall be absolutely no food, drink or smoking on-stage unless it is part of the event. The User is responsible for notification of this policy to their performers, employees, etc.
6. WCOC is not responsible for the cost or procurement of expendables that may be necessary for your event; including but not limited to, tape, tie line, lighting gel, lumber, hardware or other theatrical paraphernalia. ***Piano tuning is the responsibility of the User, not WCOC***
7. On-stage activity before or after the WCOC crew call, or while the WCOC crew are on meal break, is strictly forbidden.

WORTHAM CENTER OPERATING COMPANY

HOUSE CREW WAGES & CONDITIONS

This information sheet is designed to assist performing arts organizations in the planning of their theatrical productions in order to control time and labor costs in the theater.

As per written agreement between the WCOC and the City of Houston, the WCOC will supply a maximum of four (4) House Crew technicians to staff your production. Each member of the House Crew is hired for their specific expertise in the four theatrical departments and will act as House Carpenter, House Electrician, House Soundman and House Propman on behalf of the WCOC. Each member of the House Crew is responsible for the proper and safe operation of the WCOC equipment associated with his position. All members of the House Crew are charged with the responsibility of maintaining a safe working environment in the theater and have the authority to correct any unsafe condition that may exist. Also by agreement with the City, the House Crew shall be the first called and the last to leave the theater for any crew call. The current all inclusive crew rate is \$34.34/hour per man and is effective through June 30, 2010. Hourly conditions shall follow the local agreements used at this and other professional venues in the City of Houston.

Organizations that utilize large stagehand crews have the option of using the WCOC house crew as their heads of department. We strongly recommend this for those organizations, which do not have full-time staff members to act as their department heads. The WCOC House Crew is generally the most experienced and the most qualified members of the stagehand crew to act in this capacity. If the House Crew is not utilized as the department heads either in part or in whole then guidelines are presented below on their required use in the theater.

House Crew usage requirements:

Front of Curtain:

Front of curtain activities such as small ensembles, corporate meetings, graduations, etc. will require a minimum of three (3) House Crew technicians.

Work Calls:

Normal conditions require the use of the entire House Crew, however, some circumstances may dictate as few as two (2) members of the House Crew depending upon the use of the main stage. The number of departments (Carps, Elect, Sound, Props) that are required to perform the work call will determine the actual number of House Crew needed. If the work call does not involve use of the main stage (i.e., reh. room, props) then only that member of the House Crew associated with the department utilized in the work call will be necessary.

Rehearsals:

Normal rehearsals require the use of the entire House Crew, however, worklight rehearsals may dictate as few as two (2) members of the House Crew. The number of departments that are required for a worklight rehearsal is the determining factor in calculating the number of House Crew technicians that are needed. As an example: a worklight rehearsal will require the House Carpenter plus the House Soundman if communications or amplification is needed and/or the House Propman if an orchestra or props is utilized. Or: a lighting rehearsal will require the House Carpenter plus the House Electrician and if communications is needed the House Soundman. If any of the Wortham rehearsal rooms are utilized, then no House Crew member is necessary unless WCOC equipment is utilized.

**WORTHAM THEATER CENTER
LILLIE AND ROY CULLEN THEATER
STAGE AND HOUSE INFORMATION**

Description	Information
Seating Capacity	approx. 1100
Proscenium Width	38'
Proscenium Height	24'
Stage depth (plaster line to back wall)	48' 3"
Apron depth (plaster line to apron edge)	4'
Stage width (center line to stage left rail)	35'
Stage width (center line to stage right wall)	43'
Floor to Grid (subway grating - 3/4" opening)	69'
Clearance under Gallery	35'
Centerline to Sound Mix position	78'
Centerline to Light Booth	84'
Centerline to Balcony Rail	62'
Centerline to Followspot Booth	108'
Fly Rail (combo hemp & synthetic - 7/8")	Stage Left
Counterweight System (loft blocks overhead - subway grating floor)	93 sets (6" centers)
Arbor Capacity	1500 lbs
System Pipe length #1 & #2 (1-1/2" sch40)	52'
System Pipe length #3 - #93 (1-1/2" sch40)	48' (56' 6" w/ Extensions)
System Pipe trims	High 66' - Low 4'
Counterweight	100,000 lbs. 35's & 17.5's
Forestage System Pipes (3 - Motorized)	36' / 2,000 lbs. cap.
Stage Floor (black)	200 lbs./sf. cap. - 1/4" Masonite
Stage Access from House	Enclosed Stairs - SL & SR of Pit
Stage Manager's Console	Stage Right
Communication System	ClearCom
Video Camera views	Stage & Conductor
Sound Mix position	Center - Under balcony
Light Booth (sealed)	Center - behind Mix position
Orchestra Pit (Bayreuth style w/ concealed porch area)	Hydraulic
Power (up & off stage right - 43' from center line)	3 - 400 amp 3 ph disconnects
Power - Sound - Conditioned (usr rear wall)	1 - 60 amp 3 ph disconnects
Power (loading dock)	2 - 200 amp 3 ph disconnects
Freight Elevator	12' x 28' x 13'
Cullen Theater Dock Door	20' x 20'
Exterior Dock Door (enclosed loading dock)	13' 10" h x 39' w
Loading Dock	Shared 25' x 40' space w/ Brown Theater
Loading Dock capacity (42" h w/ levelers)	Two semi's

**WORTHAM THEATER CENTER
LILLIE AND ROY CULLEN THEATER**

LIGHTING INVENTORY

QUANTITY	FIXTURE	MANUFACTURER	LAMP - WATTAGE	GEL FRAME
*8	Source Four 5 deg	ETC 405-750	HPL - 750w	14" x 14"
*24	Source Four 10 deg	ETC 410-750	HPL - 750w	12" x 12"
*32/10	Source Four 19 deg	ETC 419-750	HPL - 750w/575w	6.25" x 6.25"
*51/19	Source Four 26 deg	ETC 426-750	HPL - 750w/575w	6.25" x 6.25"
*95/5	Source Four 36 deg	ETC 436-750	HPL - 750w/575w	6.25" x 6.25"
1	Source Four 50 deg	ETC 450-750	HPL - 575w	6.25" x 6.25"
*24	Source Four Zoom 15 - 30 deg	ETC 41530	HPL - 750w	7.5" x 7.5"
*32/16	Source Four Par (all lenses)	ETC PAR-EA	HPL - 575w	7.5" x 7.5"
*24/16	8" Fresnel	Strand #3480	BVW - 2000w	10" x 10"
*18	R-40 Striplight (3 cir./5 lamp)	Altman	R40 - 300w	5.625" x 5.625"
*7/7	3 Light Molefar Cyc-strip	Mole-Richardson #2841	FDB - 1500w	15.5" x 18.375"
12	3 Light Pallas Groundrow	Strand #5923	FHM - 1000w	10.5" x 11.75"
*3	Xenon Super Trouper	Strong	2000w	
10	Par 64 Can	Strand #4755	FEL - 1000w	10" x 10"
10	Drop-in Iris Unit	ETC 400RS		
30	Pattern Holder (A-size)	ETC 400PH-A		
15	Pattern Holder (B-size)	ETC 400PH-B		
8	14" Top Hats (5 deg)	ETC 405TH		
24	12" Top Hats (10 deg)	ETC 410TH		
75	6-1/4" Top Hats (19-50 deg)	ETC 400TH		
30	6-1/4" Half Hats (19-50 deg)	ETC 400HH		
5	14" Donuts (5 deg)	ETC 405DN		
5	12" Donuts (10 deg)	ETC 410DN		
50	6-1/4" Donuts (19-50 deg)	ETC 400DN		
6	Castered Adjustable Stand, 5' - 9'			
*8	Castered 20' Boom			
32	Side Arms			
2	50 lb. Boom Bases			
65	10' 12/3 S Cables			
50	25' 12/3 S Cables			
10	50' 12/3 S Cables			
*40/40	36" Two-fers			
1	Obsession I (3000 channels)	ETC		software v2.4.3
1	Designers Remote	ETC		
3	Remote Interface	ETC		
1	Remote Focus Unit	ETC		
1	Laser Printer	HP		
555 / 10	Dimmers - 2.4k / 6.0k	Strand CD80		

*Fixed Front-of-House and Repertory light fixtures and accessories.

**WORTHAM THEATER CENTER
LILLIE AND ROY CULLEN THEATER
CIRCUIT CHART**

Stage Left	COVE #3	Stage Right
1 3 5 7 9 11	(24 - 2.4kw circuits)	13 15 17 19 21 23
2 4 6 8 10 12	24 - ETC 10 deg	14 16 18 20 22 24
	8 - ETC 5 deg (circ#1,#2,#23,#24)	
547* (6.0kw)	*Duplicated in Light Booth	549* (6.0kw)

Stage Left	COVE #2	Stage Right
25 27 29 31 33 35	(24 - 2.4kw circuits)	37 39 41 43 45 47
26 28 30 32 34 36	24 - ETC 19 deg	38 40 42 44 46 48

Stage Left	COVE #1	Stage Right
49 51 53 55 57	(20 - 2.4kw circuits)	59 61 63 65 67
<i>flags pod works</i>	8 - ETC 19 deg (circ#52,#56-61,#65)	<i>pod ctr steps</i>
50 52 54 56 58	2 - ETC Zooms (cir #49 & #68)	60 62 64 66 68
<i>steps pod ctr</i>		<i>works pod flags</i>

Stage Left	FORESTAGE GRID	Stage Right
103 105 107 109 111 113	(24 - 2.4kw circuits)	115 117 119 121 123 125
104 106 108 110 112 114		116 118 120 122 124 126

Stage Left	BOX BOOM	Stage Right
69* 71 73 75 77 79	(24 - 2.4kw circuits)	81* 83 85 87 89 91
70 72 74 76 78 80	*Unused	82 84 86 88 90 92
	22 - ETC Zooms	

LIGHT BOOTH		
97 98 99	(6 - 2.4kw circuits)	100 101 102
	(2 - 6.0kw circuits)	
547* (6.0kw)	*Duplicated in Cove #3	549* (6.0kw)

FOLLOWSPOT BOOTH		
93 94	(4 - 2.4kw circuits)	95 96
<i>curtain warmers</i>		<i>curtain warmers</i>
551 (6.0kw)	(2 - 6.0kw circuits)	553 (6.0kw)

WORTHAM THEATER CENTER LILLIE AND ROY CULLEN THEATER CIRCUIT CHART

REAR PROJECTION PLATFORM

529 530 531	(6 - 2.4kw circuits)	532 533 534
561 (6.0kw)	(3 - 6.0kw circuits)	563 (6.0kw) 565

Stage Left Stage Right LIGHT GALLERIES

521 522 523 524	(8 - 2.4kw circuits)	525 526 527 528
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DownStage Left DownStage Right GRID DROP BOX #1

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380	384	388																								
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Stage Left Stage Right GRID DROP BOX #2

391 392 393 394 395 396	(12 - 2.4kw circuits)	415 416 417 418 419 420
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Stage Left Stage Right GRID DROP BOX #3

397 398 399 400 401 402	(12 - 2.4kw circuits)	421 422 423 424 425 426
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Stage Left Stage Right GRID DROP BOX #4

403 404 405 406 407 408	(12 - 2.4kw circuits)	427 428 429 430 431 432
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Stage Left Stage Right GRID DROP BOX #5

409 410 411 412 413 414	(12 - 2.4kw circuits)	433 434 435 436 437 438
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WORTHAM THEATER CENTER LILLIE AND ROY CULLEN THEATER CIRCUIT CHART

Stage Left	#1 ELECTRIC (I.S.#4)	Stage Right
135 137 139 141 143 145	(24 - 2.4kw circuits)	147 149 151 153 155 157
136 138 140 142 144 146	(see rep hang)	148 150 152 154 156 158

Stage Left	#1A ELECTRIC (I.S.#6)	Stage Right
159 161 163 165 167 169	(24 - 2.4kw circuits)	171 173 175 177 179 181
160 162 164 166 168 170	(6 - 300w 3cir R40 striplights)	172 174 176 178 180 182

Stage Left	#2 ELECTRIC (I.S.#17)	Stage Right
183 185 187 189 191 193	(24 - 2.4kw circuits)	195 197 199 201 203 205
184 186 188 190 192 194	(see rep hang)	196 198 200 202 204 206

Stage Left	#2A ELECTRIC (I.S.#20)	Stage Right
207 209 211 213 215	(20 - 2.4kw circuits)	217 219 221 223 225
208 210 212 214 216	(6 - 300w 3cir R40 striplights)	218 220 222 224 226

Stage Left	#3 ELECTRIC (I.S.#31)	Stage Right
227 229 231 233 235 237	(24 - 2.4kw circuits)	239 241 243 245 247 249
228 230 232 234 236 238	(see rep hang)	240 242 244 246 248 250

Stage Left	#3A ELECTRIC (I.S.#34)	Stage Right
251 253 255 257 259	(20 - 2.4kw circuits)	261 263 265 267 269
252 254 256 258 260	(6 - 300w 3cir R40 striplights)	262 264 266 268 270

Stage Left	#4 ELECTRIC (I.S.#49)	Stage Right
271 273 275 277 279 281	(24 - 2.4kw circuits)	283 285 287 289 291 293
272 274 276 278 280 282	(see rep hang)	284 286 288 290 292 294

Stage Left	#5 ELECTRIC (I.S.#64)	Stage Right
295 297 299 301 303 305	(24 - 2.4kw circuits)	307 309 311 313 315 317
296 298 300 302 304 306	(see rep hang)	308 310 312 314 316 318

Stage Left	#6 ELECTRIC (I.S.#75)	Stage Right
319 321 323 325 327 329	(24 - 2.4kw circuits)	331 333 335 337 339 341
320 322 324 326 328 330	(7 - 3 cir 1000w MoleRch FarCycs)	332 334 336 338 340 342

Stage Left	#7 ELECTRIC (I.S.#85)	Stage Right
343 345 347 349 351 353	(24 - 2.4kw circuits)	355 357 359 361 363 365
344 346 348 350 352 354		356 358 360 362 364 366

WORTHAM THEATER CENTER LILLIE AND ROY CULLEN THEATER CIRCUIT CHART

Stage Left	ORCHESTRA PIT								Stage Right	
511 512 513 514	(12 - 2.4kw circuits)				127 129 131 133					
					128 130 132 134					
					(2 - 6.0kw circuits)		555 (6.0kw)	557 (6.0kw)		

Stage Left	#1 FLOOR POCKETS						Stage Right
439 441 443	(12 - 2.4kw circuits)						463 465 467
440 442 444							464 466 468

Stage Left	#2 FLOOR POCKETS						Stage Right
445 447 449	(12 - 2.4kw circuits)						469 471 473
446 448 450							470 472 474

Stage Left	#3 FLOOR POCKETS						Stage Right
451 453 455	(12 - 2.4kw circuits)						475 477 479
452 454 456							476 478 480

Stage Left	#4 FLOOR POCKETS						Stage Right
457 459 461	(12 - 2.4kw circuits)						481 483 485
458 460 462							482 484 486

Stage Left	UPSTAGE FLOOR POCKETS								Stage Right	
#1	#2		(24 - 2.4kw circuits)				#3		#4	
487 490	493 496						499 502		505 508	
488 491	494 497						500 503		506 509	
489 492	495 498						501 504		507 510	

TRAP ROOM										
515 516 517	(6 - 2.4kw circuits)				518 519 520					
					(1 - 6.0kw circuits)		559 (6.0kw)			

CULLEN THEATER SCROLLER CHANNELS

Location & Unit Number	Scroller Channel	Address	Location & Unit Number	Scroller Channel	Address
PIPE ENDS			PIPE ENDS		
1E. 1/3 + 22/24	1025	001	1E. 2/4 + 21/23	1030	006
2E. 1/3 + 22/24	1026	002	2E. 2/4 + 21/23	1031	007
3E. 1/3 + 22/24	1027	003	3E. 2/4 + 21/23	1032	008
4E. 1/3 + 22/24	1028	004	4E. 2/4 + 21/23	1033	009
5E. 1/3 + 22/24	1029	005	5E. 2/4 + 21/23	1034	010
FRESNELS					
1E. 6,10,14,18	1035	011			
2E. 6,10,14,18	1036	012			
3E. 6,10,14,18	1037	013			
4E. 6,10,14,18	1038	014			
5E. 6,10,14,18	1039	015			
SL BOOMS 1 & 3			SR BOOMS 1 & 3		
SLB-1. 1/3	1045	021	SRB-1. 1/3	1041	017
SLB-2. 1/3	1046	022	SRB-2. 1/3	1042	018
SLB-3. 1/3	1047	023	SRB-3. 1/3	1043	019
SLB-4. 1/3	1048	024	SRB-4. 1/3	1044	020
SL BOOMS 2 & 4			SR BOOMS 2 & 4		
SLB-1. 2/4	1053	029	SRB-1. 2/4	1049	025
SLB-2. 2/4	1054	030	SRB-2. 2/4	1050	026
SLB-3. 2/4	1055	031	SRB-3. 2/4	1051	027
SLB-4. 2/4	1056	032	SRB-4. 2/4	1052	028
Addenda					
1. All scrollers are patched as "independent" (in patch by channel (S8)					
2. In system set (1) "default back/go to cue" is set at (4.) not to go lower than (3.)					
3. Go to Q - zero will take only lamps out (leaving scrolls in selected color channel)					
4. Go to Q "out" kills lamps and scrolls					
Groups					
1. Groups 901-940 are shortcuts to existing groups (example: group 911 equals grps 31>39)					
2. There are <u>no</u> scrollers in groups					

CULLEN THEATER

SCROLLER GEL STRINGS

		8 Booms (32)		Pipe Ends (40)		Fresnel (20)	
Color		Wybron - Forerunner		Wybron - Forerunner		Wybron - Forerunner	
Position		Model #4540 - 4"		Model #4540 - 4"		Model #7140 - 7"	
&		Units		Units		Units	
Channel		1/3, 2/4		1/3, 2/4, 21/23, 22/24		6, 10, 14, 18	
%		Ch. 1041-1056		Ch. 1025-1034		Ch. 1035-1039	
0.	00	NC		NC		NC	
1.	07	L161	Blue	L161	Blue	L161	Blue
2.	14	L161	Blue	L161	Blue	L161	Blue
3.	21	R33	Pink	R33	Pink	R33	Pink
4.	28	R33	Pink	R33	Pink	R33	Pink
5.	34	R02	Lt. Amb	R02	Lt. Amb	R02	Lt. Amb
6.	42	R03	Dk. Amb	R03	Dk. Amb	R03	Dk. Amb
7.	48	L110	Dk. Pnk	L110	Dk. Pnk	L110	Dk. Pnk
8.	55	R68	Blue	R68	Blue	R68	Blue
9.	61	R37	Pink	R44	Mag	R26	Red
10.	68	L147	Dk. Amb	L158	Dk. Amb	L158	Dk. Amb
11.	75	R17	Lt. Amb	R17	Lt. Amb	R17	Lt. Amb
12.	80	R54	Lav	R54	Lav	R57	Lav
13.	88	L144	Blue	L144	Blue	R80	Dk. Blue
14.	94	L201	NC Blue	L201	NC Blue	L201	NC Blue
15.	Full	L152	Amber	L152	Amber	R21	Dk. Amb

WORTHAM THEATER CENTER ALICE AND ROY CULLEN THEATER

SOUND INVENTORY

SOUND SYSTEM	MONITOR MIX SYSTEM
<p>The main PA system consists of a center cluster, left & right, upper & lower stacks, front fills and sub woofers. The system was designed to be highly flexible to accommodate a variety of events from corporate meetings to classical ensembles to jazz concerts.</p> <p>CONSOLE</p> <p>1 Yamaha PM5D 40 Channel</p> <p>CENTER CLUSTER</p> <p>8 JBL Low Frequency Woofers 2 JBL Horns/Drivers 4 Renkus Heinz Horns/Drivers</p> <p>SIDE STACKS</p> <p>4 Meyer CQ-1 Powered Speakers</p> <p>SUB WOOFERS</p> <p>4 JBL 18" Sub-Bass Speakers</p> <p>FRONT FILLS</p> <p>4 EAW JF80z</p> <p>STAGE MONITORS see Monitor Mix</p> <p>HEAD END</p> <p>2 XTA DP226 Digital Processor 4 Dbx 1066V Compressor/Limiter/Gate 3 Klark Teknik DN360 1/3 Octave Equalizer 1 Klark Teknik D6000V Spectrum Analyzer 1 Lexicon MPX-500 Digital Effects Processor 1 Yamaha SPX 2000 Digital Effects Processor 1 Yamaha REV100 Digital Reverb 1 Panasonic SV3800 DAT recorder 1 Tascam CDRW-750 CD recorder 1 Denon DN-C680 CD player 1 Denon DN-600F CD player</p>	<p>This system is configured to support most events in need of an onstage monitor mix. The console is capable of mixing up to forty microphones independently to eight separate outputs. The freq. response of each output can be precisely adjusted. Use of this system requires an additional WCOC approved sound technician.</p> <p>CONSOLE</p> <p>1 Yamaha M-3000</p> <p>SUPPORT EQUIPMENT</p> <p>4 Klark-Teknik DN360 1/3 Octave Equalizers 4 Dbx 233XL Active Crossovers 8 QSC PLX-2402 Power Amplifiers 1 JBL 5234A Active Crossover</p> <p>MONITORS</p> <p>4 EAW SM-200iH wedge speakers 8 EAW SM-500iV speakers</p>
	<p style="text-align: center;">MICROPHONES</p> <p>4 Beyer M-500 2 Crown PZM-6RB 6 Crown PCC-160 3 Sennheuser 421-U 4 Sennheuser 441-U 3 AKG C-414B/XLS 3 AKG C-460/CK-61 6 Shure SM-57 8 Shure SM-58 4 Shure SM 81 2 Electro-Voice RE-20</p> <p>6 BSS Audio AR133 Active DI Box 3 Countryman 85 Active DI Box</p>
STAGE MANAGER CONSOLE	WIRELESS MICROPHONE SYSTEM
<p>The stage manager's console is equipped with a variety of independent systems that allow voice & visual communication throughout the backstage & control room areas to stagehands, artists, musicians, wardrobe personnel etc. It is the responsibility of the User Group to provide a stage manager for their event.</p> <p>Clearcom Intercom System (20+ stations) HME UHF Wireless Comm. System (4 belt packs) Conductor & FOH Closed Circuit Video Monitors Dressing Room Paging System Live Show Feed System Cue Light System</p>	<p>This system is a "state-of-the-art" system with flexible frequency ranges which can be quickly adjusted in the event of interference problems. Use of any portion of this system requires an additional WCOC approved sound technician.</p> <p>16 Shure UA4-D UHF Receivers 16 Shure U1-UA BodyPack Transmitters 16 DPA 4061 Lavalier Microphones 8 Shure U2-UA Handheld Shure Beta58 Microphones 2 Shure UA845-US Antenna Distribution Systems 2 Shure UA888 Network Interface System</p>

The sound equipment listed above, specifically the Monitor Mix & Wireless Microphone Systems, may not be available depending on their use in the Brown Theater. Due to the close proximity of the Brown Theater, Cullen Theater and the Grand Foyer, a sound decibel level of 97 DB is strictly enforced by WCOC and by City of Houston Ordinance.

**WORTHAM THEATER CENTER
LILLIE AND ROY CULLEN THEATER**

MISC. EQUIPMENT LIST

Equipment	Manufacturer	Model No / Size	Qty
Grand Piano - 6' 3" (w/ bench)	Yamaha	C-3	1
Orchestra Shell	Wenger	see dwg detail	1
Orchestra Shell (portable walls)	Custom	18' h x 5' 6" w	6
Musician Chair (black)	Wenger	0920000	40
Music Stand	Wenger	037B001	40
Music Stand Light	Wenger	1090001	40
Pit Snakes	Custom	20'	4
String Bass Chair (black)	Wenger	157C077	2
Cello Chair (black)	Wenger	0940000	4
Conductors Base Podium - 6" H	Wenger	158D002	1
Conductors Upper Podium - 6" H	Wenger	158D001	1
Conductors Stand	Wenger	159C002	1
Conductors Chair (gray)	Wenger	157C077	1
Bar Stool (no back)	Misc	Black	2
Chorale Riser (3-step)	Wenger - Tourmaster	024F806	9
Chorale Riser (4th-step)	Wenger - Tourmaster	024F707	9
Chorale Riser (back rail)	Wenger - Tourmaster	024F778	9
Staging (4' 0" x 4' 0")	Wenger - Versalite	Gray Carpet	8
Staging (4' 0" x 8' 0") - City Rental	Wenger - Versalite	Gray Carpet	18
Staging (8" / 16" leg sets) - City Rental	Wenger - Versalite	Leg Sets (six)	9 / 10
Staging (24" / 32" leg sets) - City Rental	Wenger - Versalite	Leg Sets (six)	12 / 8
Staging (8", 16", 24", 32" skirting) - City Rental	Wenger - Versalite	Black & Maroon	na
Staging (Step units)	Wenger - Versalite	16" h (2-step)	2
Quick Change Booth (2-fold)	Custom	7' 0" h x 8' 0" w x 5' 0" d	4
Portable Dressing Table (w/ mirror)	Custom	na	1
Folding Tables	na	3' x 6'	6
Designer's FOH Table	Custom	2' 6" d x 8' 0" w	1
Electric Man-Lift (w/ outriggers)	Upright	40' h	1
Step Ladder	Werner	12' h	1
Step Ladder	Werner	10' h	1
Step Ladder	Werner	8' h	1
Step Ladder	Werner	6' h	2
Marley Dance Floor (full stage)	Rosco	Black/Gray	na
Expandble Safety Gate	VersaGuard	3' h x 10' w	2
Dollies	Custom	24" x 32"	6
Castered Platform (black)	Custom	6" h x 4' 0" d x 4' 0" w	6

The quantities listed above are true to the best of our knowledge!

**WORTHAM THEATER CENTER
LILLIE AND ROY CULLEN THEATER**

Lineset #	Position	Description	Lineset #	Position	Description
FW #1	-- 13' 6"	Forestage Winch #1	44	23' 9"	
FW #2	-- 10' 9"	Forestage Winch #2	45	24' 3"	
FW #3	-- 5' 0"	Forestage Winch #3	46	24' 9"	
	0' 0"	Plaster Line	47	25' 3"	
	0' 5"	Fire Curtain (U.S. Side)	48	25' 9"	
	0' 9 1/2"	Smoke Pocket	49	26' 3"	#4 Electric
	1' 3"	House Curtain	50	26' 9"	
1	2' 3'	Teaser	51	27' 3"	
2	2' 9'		52	27' 9"	
3	3' 2 1/2"	Hard Legs	53	28' 3"	
4	3' 9'		54	28' 9"	
5	4' 2 1/2"	#1 Electric	55	29' 3"	#4 Border (9'h x 52'w)
6	4' 9"	shell pick-up	56	29' 9"	#4 Legs (12'w x 32'h)
7	5' 3"	#1a Electric (R40 striplights)	57	30' 3"	mid-stage cyclights
8	5' 9 1/2"		58	30' 9"	
9	6' 3"		59	31' 3"	
10	6' 9"		60	31' 9"	
11	7' 3"		61	32' 3"	
12	7' 9"		62	32' 9"	
13	8' 3"	#1 Border (9'h x 52'w)	63	33' 3"	
14	8' 9"	#1 Legs (12'w x 32'h)	64	33' 9"	
15	9' 3"		65	34' 3"	#5 Electric
16	9' 9"		66	34' 9"	
17	10' 3"	#2 Electric	67	35' 3"	
18	10' 9"		68	35' 9"	
19	11' 3"		69	36' 3"	
20	11' 9"	#2a Electric (R40 striplights)	70	36' 9"	#5 Border (9'h x 52'w)
21	12' 3"		71	37' 3"	#5 Legs (12'w x 32'h)
22	12' 9"	shell pick-up	72	37' 9"	
23	13' 3"		73	38' 3"	
24	13' 9"		74	38' 9"	
25	14' 3"	#2 Border (9'h x 52'w)	75	39' 3"	# 6 Electric (Cyclights)
26	14' 9"	#2 Legs (12'w x 32'h)	76	39' 9"	
27	15' 3"		77	40' 3"	
28	15' 9"		78	40' 9"	
29	16' 3"		79	41' 3"	
30	16' 9"		80	41' 9"	
31	17' 3"	#3 Electric	81	42' 3"	
32	17' 9"		82	42' 9"	
33	18' 3"		83	43' 3"	
34	18' 9"	#3a Electric (R40 striplights)	84	43' 9"	
35	19' 3"		85	44' 3"	#7 Electric (blank raceway)
36	19' 9"		86	44' 9"	
37	20' 3"		87	45' 3"	Muslin Bounce (32'h x 52'w)
38	20' 9"		88	45' 9"	Blackout Drop (32'h x 52'w)
39	21' 3"		89	46' 3"	
40	21' 9"	#3 Border (9'h x 52'w)	90	46' 9"	
41	22' 3"	#3 Legs (12'w x 32'h)	91	47' 3"	
42	22' 9"		92	47' 9"	
43	23' 3"		93	48' 3"	