

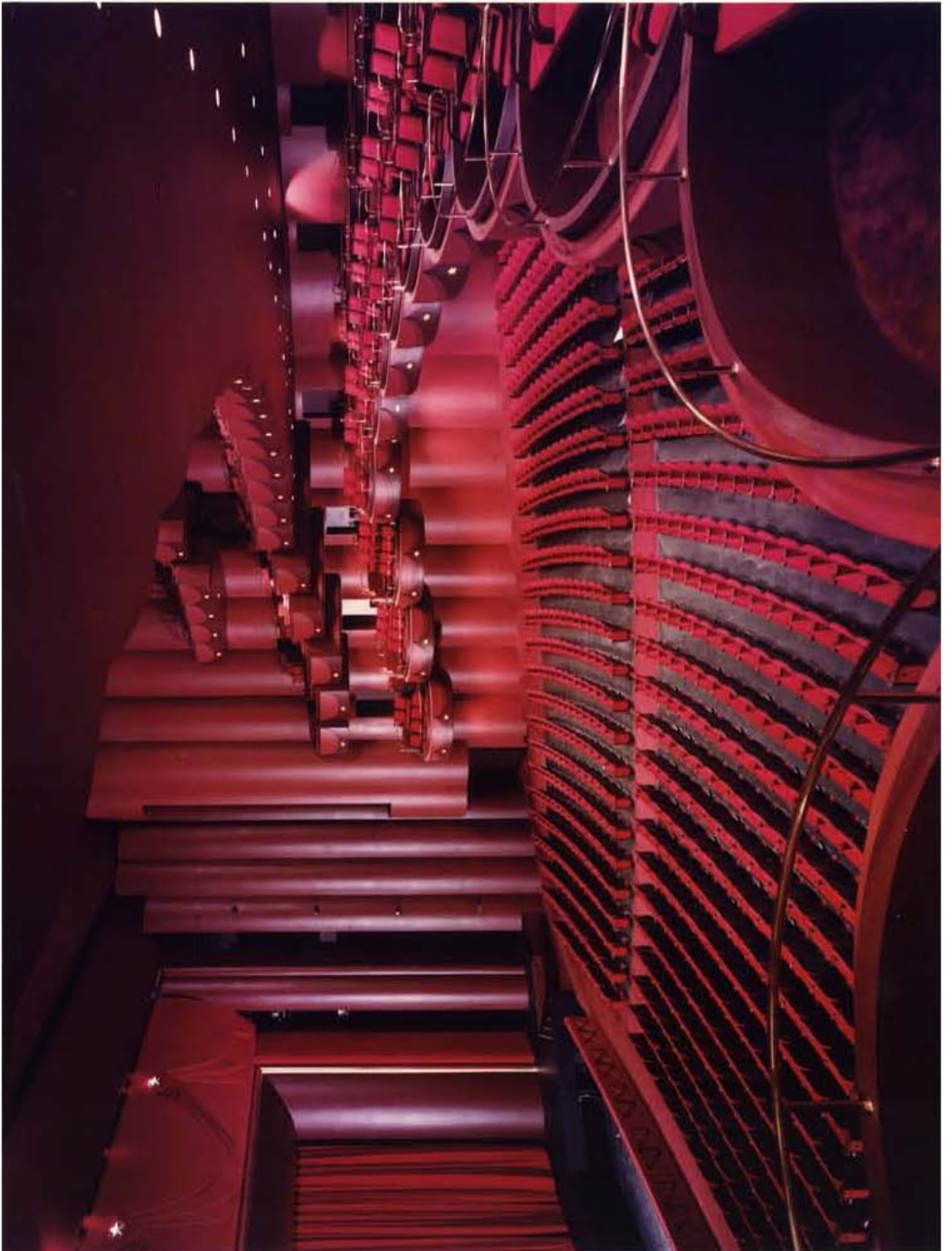
**WORTHAM THEATER CENTER  
BROWN THEATER  
HOUSTON, TEXAS**



**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 2020/2021 crew rate charge for non-profit organizations is \$44.20/hour per man, which includes all employer related expenses such as taxes, insurance and benefits. A rate of \$66.00/hour per man shall be charged to all local and non-local organizations considered to be corporate entities regardless of their non-profit status.

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 \$60.00 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 Houston First Corporation, 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 \$44.20/hour per man for local non-profit organizations and is effective through June 30, 2021. A rate of \$66.00/hour per man shall be charged to all local and non-local organizations considered to be corporate entities regardless of their non-profit status. 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 three (3) 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  
THE ALICE AND GEORGE BROWN THEATER**

**STAGE AND HOUSE INFORMATION**

Seating Capacity	2465
Proscenium	30' h x 52' w
Tormentor Tower (adjustable)	58' - 38'
Main Stage depth	65' 6"
Rear Stage depth	42'
Apron depth (plaster line to apron edge)	6' 5"
Main Stage width (center line to stage left rail)	65' 4"
Main Stage width (center line to stage right sound door)	48'
Rear Stage width (center line to stage left rail)	52'
Rear Stage width (center line to stage right wall)	72'
Side Stage Right width (sound door to loading door)	57'
Side Stage Right depth	56'
Floor to Grid (subway grating - 3/4" opening)	89' h
Lighting Gallery Catwalk (SL / SR)	42' h
Hemp Gallery Catwalk (SL / SR)	68' h
House Curtain speed (motorized)	0 - 400' per minute
Fly Rail (combo hemp & synthetic)	Stage Left
Counterweight System (loft blocks overhead - clear grid floor)	97 sets (6" centers)
Arbor Capacity	1500 lbs
System Pipe length #1 - #4 (1-1/2" sch40)	65' 6" w
System Pipe length #5 - #97 (1-1/2" sch40)	61' 6" w (70' w/ Extensions)
Light Bridge	4' d x 39' w ( 52' w/ Extensions)
Motorized Sets (truss pipe)	14
Motor Set Capacity	1300 lbs
System Pipe trims	High - 83' Low - 4'
Counterweight	120,000 lbs (35's & 17.5's)
Counterweight (rear stage)	6000 lbs (35's & 17.5's)
Forestage Winch Sets	36' (1,500 lbs. cap.)
Freight Elevator (on loading dock)	12' w x 28' d
Clearance (off stage left & right and rear stage)	35'
Clearance (USR Arch)	24'
Stage Wagon (motorized)	60' w x 40' d x 20" h
Brown Theater Dock Door	20' x 20'
Exterior Dock Door (enclosed loading dock)	13' 10" h x 39' w
Loading Dock capacity (42" h w/ levelers)	Two Trailers
Power (offstage right - 100' from center line)	4 - 400 amp 3 ph disconnects
Power (loading dock)	2 - 200 amp 3 ph disconnects

## BROWN THEATER LINE SET SCHEDULE

Lineset #	Position	Description	Lineset #	Position	Description
	-- 22' 2"	Forestage Winch #1	<b>46</b>	33' 9-1/2"	
	-- 13' 1"	Forestage Winch #2	<b>47</b>	34' 3-1/2"	
	-- 7' 2"	Forestage Winch #3	<b>48</b>	34' 9-1/2"	
	0' 0"	Plaster Line	<b>49</b>	35' 3-1/2"	
	0' 9-3/4"	Fire Curtain (U.S. Side)	<b>50</b>	35' 9-1/2"	
	1' 2"	Smoke Pocket	<b>M.S. 9</b>	36' 3"	Motor Set #9
	1' 10-1/2"	House Curtain	<b>51</b>	36' 9"	
<b>1</b>	2' 9"		<b>M.S. 10</b>	37' 3-1/2"	Motor Set #10
<b>2</b>	3' 3-1/2"		<b>52</b>	37' 9-1/2"	
<b>3</b>	3' 9-1/2"		<b>53</b>	38' 3"	
<b>4</b>	4' 3"		<b>54</b>	38' 9-1/2"	
<b>M.S. 4</b>	5' 0"-8' 8"	Light Bridge	<b>55</b>	39' 3"	
<b>5</b>	9' 9"		<b>56</b>	39' 9"	
<b>6</b>	10' 3"		<b>57</b>	40' 3-1/4"	
<b>7</b>	11' 1/2"		<b>58</b>	40' 9-1/2"	
<b>8</b>	11' 9-1/2"		<b>59</b>	41' 3-1/2"	
<b>9</b>	12' 3"		<b>60</b>	41' 9-1/2"	
<b>10</b>	12' 9-1/2"		<b>61</b>	42' 3-1/2"	
<b>11</b>	13' 3-1/2"		<b>62</b>	42' 9"	
<b>12</b>	13' 9-1/2"		<b>63</b>	43' 9"	
<b>13</b>	14' 3-1/2"		<b>64</b>	44' 3-1/2"	
<b>14</b>	14' 9-1/2"		<b>65</b>	44' 9"	
<b>15</b>	15' 3-1/2"		<b>66</b>	45' 3-1/2"	
<b>16</b>	15' 9-1/2"		<b>67</b>	45' 9-1/2"	
<b>M.S. 5</b>	16' 3-1/2"	Motor Set #5	<b>M.S. 11</b>	46' 3"	Motor Set #11
<b>17</b>	16' 9-1/2"		<b>68</b>	46' 9"	
<b>M.S. 6</b>	17' 4-1/2"	Motor Set #6	<b>M.S. 12</b>	47' 6-1/2"	Motor Set #12
<b>18</b>	17' 9-1/2"		<b>69</b>	48' 3-1/2"	
<b>19</b>	18' 3-1/2"		<b>70</b>	48' 9"	
<b>20</b>	18' 9-1/2"		<b>71</b>	49' 3"	
<b>21</b>	19' 3-1/2"		<b>72</b>	49' 9"	
<b>22</b>	19' 9"		<b>73</b>	50' 3-1/2"	
<b>23</b>	20' 3-1/2"		<b>74</b>	50' 9"	
<b>24</b>	20' 9-1/2"		<b>75</b>	51' 3-1/2"	
<b>25</b>	21' 3-1/2"		<b>76</b>	51' 9"	
<b>26</b>	21' 11"		<b>77</b>	52' 3"	
<b>27</b>	22' 9-1/2"		<b>78</b>	52' 9"	
<b>28</b>	23' 3-1/2"		<b>79</b>	53' 3"	
<b>29</b>	23' 9-1/2"		<b>80</b>	53' 9"	
<b>30</b>	24' 3-1/2"		<b>81</b>	54' 9"	
<b>31</b>	24' 9-1/2"		<b>82</b>	55' 3"	
<b>32</b>	25' 3-3/4"		<b>83</b>	55' 9"	
<b>33</b>	25' 9-1/2"		<b>M.S. 13</b>	56' 3-1/2"	Motor Set #13
<b>M.S. 7</b>	26' 3-1/2"	Motor Set #7	<b>84</b>	56' 9"	
<b>34</b>	26' 9-1/2"		<b>85</b>	57' 3-1/2"	
<b>M.S. 8</b>	27' 3-1/2"	Motor Set #8	<b>86</b>	57' 9"	
<b>35</b>	27' 9-1/2"		<b>87</b>	58' 3-1/2"	
<b>36</b>	28' 3-1/2"		<b>88</b>	58' 9"	
<b>37</b>	28' 9"		<b>89</b>	59' 3-1/2"	
<b>38</b>	29' 3-1/2"		<b>90</b>	59' 9"	
<b>39</b>	29' 9-1/2"		<b>91</b>	60' 3"	
<b>40</b>	30' 3-1/2"		<b>M.S. 14</b>	60' 9-1/2"	Motor Set #14
<b>41</b>	30' 9-1/2"		<b>92</b>	61' 3-1/2"	
<b>42</b>	31' 3-1/2"		<b>93</b>	61' 9"	
<b>43</b>	31' 9-1/2"		<b>94</b>	62' 3"	
<b>44</b>	32' 2-1/2"		<b>95</b>	62' 9"	
<b>45</b>	33' 3-1/2"		<b>96</b>	63' 3"	
			<b>97</b>	63' 9"	

**WORTHAM THEATER CENTER  
BROWN THEATER  
SOFT GOODS**

<b>SOFT GOODS</b>	<b>FABRIC / COLOR</b>	<b>SIZE</b>	<b>COUNTERWEIGHT</b>
House Curtain***	32 oz. Red Velour	36' 0" h x 65' 0" w	
Teaser	26 oz. Black Velour	20' 0" h x 69' 0" w	6-1/2 w/ pipe
Borders (8)	26 oz. Black Velour	12' 0" h x 69' 0" w	5-1/2 w/ pipe
Legs (1 pr)	26 oz. Black Velour	40' 0" h x 14' 6" w	4-1/2
Legs (2 pr)	26 oz. Black Velour	40' 0" h x 15' 0" w	4-1/2
Legs (6 pr)	26 oz. Black Velour	40' 0" h x 15' 6" w	4-1/2
Legs (5 pr)	26 oz. Black Velour	40' 0" h x 17' 0" w	5-1/2
Side Tabs (10)	26 oz. Black Velour	40' 0" h x 8' 8" w	2-1/2
Tabs (6) old	26 oz. Black Velour	40' 0" h x 8' 8" w	2-1/2
Full Black (2)	26 oz. Black Velour	40' 0" h x 60' 0" w	10
Full Black	26 oz. Black Velour	40' 0" h x 69' 0" w	
Split Black (2 pc)	26 oz. Black Velour	40' 0" h x 36' 0" w	11
Split Black (2 pc)	26 oz. Black Velour	40' 0" h x 36' 0" w	11
Front Proj. Screen	Gerriets "Optitrans" grey	40' 0" h x 68' 0" w	8 w/ pipe
Rear Proj. Screen	Gerriets "Opera" white	40' 0" h x 68' 0" w	8 w/ pipe
Sharkstooth Scrim	Black	40' 0" h x 66' 0" w	3 w/ pipe
Sharkstooth Scrim	White	40' 0" h x 66' 0" w	3 w/ pipe
Bounce	Natural Muslin	40' h x 66' w	4-1/2 w/ pipe

\*\*\* House Curtain is motorized, guillotine only.

The quantities and sizes mentioned above are true to the best of our knowledge.  
We reserve the right to alter the sizes as well as the quantities of these soft goods as needed for practical operation of the theater.

**WORTHAM THEATER CENTER  
BROWN THEATER**

**LIGHTING INVENTORY**

QUANTITY	FIXTURE	MANUFACTURER	WATTAGE	FRAME SIZE
*52	5 deg Leko	ETC 405-750	750w	14" x 14"
*56	10 deg Leko	ETC 410-750	750w	12" x 12"
*74	19 deg Leko	ETC 419-750	750w	6.25" x 6.25"
*10	26 deg Leko	ETC 426-750	750w	6.25" x 6.25"
*2	36 deg Leko	ETC 436-750	750w	6.25" x 6.25"
*16	15 - 30 deg Zoom Leko	ETC 41530	750w	7.5" x 7.5"
120	19 deg Leko	ETC 419-750	575w	6.25" x 6.25"
275	26 deg Leko	ETC 426-750	575w	6.25" x 6.25"
120	36 deg Leko	ETC 436-750	575w	6.25" x 6.25"
20	50 deg Leko	ETC 450-750	575w	6.25" x 6.25"
100	Par 64 Can	Strand #4755	1000w	10" x 10"
80	8" Fresnel	Strand #3480	2000w	10" x 10"
17	6" Fresnel	Strand #3380	1000w	7.5" x 7.5"
12	R-40 Striplight (3 cir./5 lamp)	Altman	300w	5.625" x 5.625"
36	2 Light Molefar Cyc-strip	Mole-Richardson #2841	1000w	15.5" x 18.375"
60	1 Light Pallas Groundrow	Strand #5921	1000w	9.875" x 11.5"
75	2 light Broad Cyc	L&E #6571-2	1000w	10.25" x 11.75"
8	Fisher Low Voltage Mini-strip	Strand #5300	75w	
*4	3K Xenon Followspot	Lycian #1293	3000w	
0	Bridge Follow Spot	Pani HV 2002	2000w	
16	VL3500 spot	VariLite	1200w	
16	VL3500 wash	VariLite	1500w	
84	10" Top Hats			
24	8" Top Hats			
250	6" Top Hats			
24	8" Barn Doors			
16	Castered Adj. Stand, 5' - 9'			
10	Castered 20' Boom			
125	Side Arms			
55	Scenery Bumpers			
4	50 lb. Boom Bases			
60	10' 12/3 S Cables			
80	25' 12/3 S Cables			
16	50' 12/3 S Cables			
80	36" Two-fers			
1	EOS (light booth)	ETC		
1	ION (backstage)	ETC		
40	ETC Network Taps	ETC		
925 / 30	Dimmers - 2.4k / 6.0k	Strand CD80 - C21 DMX converted		

\*Fixed Front-of-House and Repertory light plot fixtures.



# WORTHAM THEATER CENTER - BROWN THEATER CIRCUIT CHART

Stage Left	<b>COVE #4</b>					130'+ to plaster ctr	Stage Right				
<b>1</b>	<b>4</b>	<b>7</b>	<b>10</b>	<b>13</b>	(30 - 2.4kw circuits)	<b>16</b>	<b>19</b>	<b>22</b>	<b>25</b>	<b>28</b>	
1&2	7&8	13&14		19&20		23&24		29&30	33&34	39&40	
<b>2</b>	<b>5</b>	<b>8</b>	<b>11</b>	<b>14</b>	<b>44 - ETC 5 deg</b>	<b>17</b>	<b>20</b>	<b>23</b>	<b>26</b>	<b>29</b>	
3&4	9&10		17&18		<i>Instrument no. in italics</i>		27&28		35&36	41&42	
<b>3</b>	<b>6</b>	<b>9</b>	<b>12</b>	<b>15</b>		<b>18</b>	<b>21</b>	<b>24</b>	<b>27</b>	<b>30</b>	
5&6	11&12	15&16		21&22		25&26		31&32	37&38	43&44	
<b>365 (6.0kw)</b>					(2 - 6.0kw circuits)	<b>367 (6.0kw)</b>					

Stage Left	<b>COVE #3</b>					110'+ to plaster ctr	Stage Right				
<b>31</b>	<b>34</b>	<b>37</b>	<b>40</b>	<b>43</b>	(30 - 2.4kw circuits)	<b>46</b>	<b>49</b>	<b>52</b>	<b>55</b>	<b>58</b>	
1&2	6	9&10	13	16		19	22	25&26	29	32	
<b>32</b>	<b>35</b>	<b>38</b>	<b>41</b>	<b>44</b>	(circ #31, #32, #59, #60)	<b>47</b>	<b>50</b>	<b>53</b>	<b>56</b>	<b>59</b>	
3&4	7	<i>par works</i>	14	17	<b>28 - ETC 10 deg</b>	20	23	<i>par works</i>	30	33&34	
<b>33</b>	<b>36</b>	<b>39</b>	<b>42</b>	<b>45</b>		<b>48</b>	<b>51</b>	<b>54</b>	<b>57</b>	<b>60</b>	
5	8	11&12	15	18	<i>Instrument no. in italics</i>	21	24	27&28	31	35&36	

Stage Left	<b>COVE #2</b>					80'+ to plaster ctr	Stage Right				
<b>61</b>	<b>63</b>	<b>65</b>	<b>67</b>		(14 - 2.4kw circuits)	<b>68</b>	<b>70</b>	<b>72</b>	<b>74</b>		
1	2	3	4	5		6	7	8	9		
<b>62</b>	<b>64</b>	<b>66</b>	<b>67</b>		<b>14 - ETC 19 deg</b>	<b>68</b>	<b>69</b>	<b>71</b>	<b>73</b>		
					<i>Instrument no. in italics</i>						

Stage Left	<b>COVE #1</b>					60'+ to plaster ctr	Stage Right				
<b>75</b>	<b>76</b>	<b>77</b>	<b>78</b>		(8 - 2.4kw circuits)	<b>79</b>	<b>80</b>	<b>81</b>	<b>82</b>		
					<b>8 - ETC 19 deg</b>						
<i>conductor special</i>											

Stage Left	<b>FORESTAGE GRID</b>					(18 - 2.4kw circuits)	Stage Right				
<b>153</b>	<b>155</b>	<b>157</b>	<b>159</b>	<b>161</b>		<b>162</b>	<b>164</b>	<b>166</b>	<b>168</b>	<b>170</b>	
<b>154</b>	<b>156</b>	<b>158</b>	<b>160</b>		(duplicates balcony rail except 161 & 170)	<b>163</b>	<b>165</b>	<b>167</b>	<b>169</b>		

Stage Left	<b>BALCONY RAIL</b>					(18 - 2.4kw circuits)	Stage Right				
<b>160</b>	<b>158</b>	<b>156</b>	<b>154</b>			<b>169</b>	<b>167</b>	<b>165</b>	<b>163</b>		
1	3	5	7		<b>16 - ETC Zooms</b>	9	11	13	15		
<b>159</b>	<b>157</b>	<b>155</b>	<b>153</b>		(duplicates forestage except #161 & #170)	<b>168</b>	<b>166</b>	<b>164</b>	<b>162</b>		
2	4	6	8			10	12	14	16		

## FOLLOWSPOT BOOTH

<b>343 (6.0kw)</b>	<b>359</b>	<b>143 (2.4kw)</b>	<b>144</b>	<b>145 (2.4kw)</b>	<b>146</b>	<b>369 (6.0kw)</b>	<b>371</b>
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## PROJECTION BOOTH

<b>347 (6.0kw)</b>	<b>351</b>	<b>147</b>	<b>148</b>	<b>149 (2.4kw)</b>	<b>150</b>	<b>151</b>	<b>152</b>	<b>355 (6.0kw)</b>	<b>357</b>
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## LIGHT BOOTH

(6.0kw) <b>349</b>	<b>151*</b> (2.4kw)	151 & 152 duplicated in proj booth	(2.4kw) <b>152*</b>	<b>353 (6.0kw)</b>
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# WORTHAM THEATER CENTER - BROWN THEATER CIRCUIT CHART

Stage Left

## BOX BOOMS

Stage Right

### #1

<b>123</b>	1 & 3	ETC 10 deg
<b>124</b>	2 & 4	ETC 10 deg
<b>125</b>	5 & 7	ETC 19 deg
<b>126</b>	6 & 8	ETC 19 deg
<b>127</b>	9	ETC 26 deg
<b>128</b>	10	ETC 36 deg

### #1

ETC 10 deg	1 & 3	<b>133</b>
ETC 10 deg	2 & 4	<b>134</b>
ETC 19 deg	5 & 7	<b>135</b>
ETC 19 deg	6 & 8	<b>136</b>
ETC 26 deg	9	<b>137</b>
ETC 36 deg	10	<b>138</b>

### #2

<b>129</b>	1 & 3	ETC 19 deg
<b>130</b>	2 & 4	ETC 19 deg
<b>131</b>	5 & 7	ETC 26 deg
<b>132</b>	6 & 8	ETC 26 deg

### #2

ETC 19 deg	1 & 3	<b>139</b>
ETC 19 deg	2 & 4	<b>140</b>
ETC 26 deg	5 & 7	<b>141</b>
ETC 26 deg	6 & 8	<b>142</b>

### #3

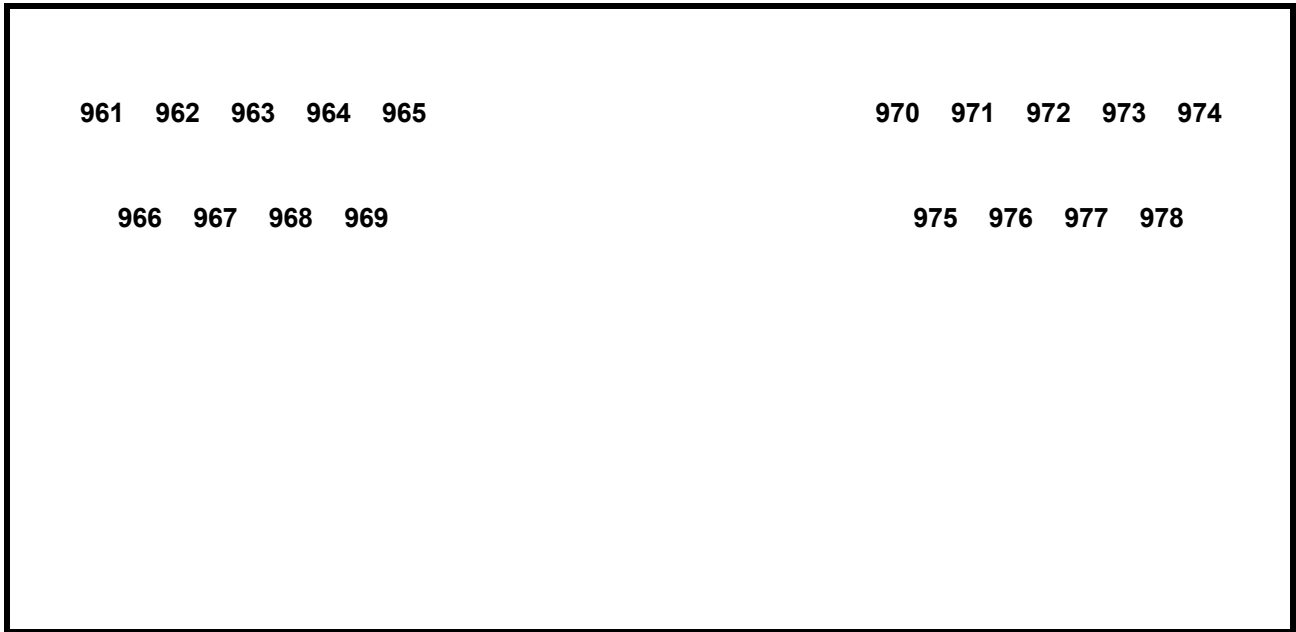
<b>83</b>	1 & 2	ETC 10 deg
<b>84</b>	3 & 4	ETC 10 deg
<b>85</b>	5 & 6	ETC 10 deg
<b>86</b>	7 & 8	ETC 10 deg
<b>87</b>	9	ETC 10 deg
<b>88</b>	10	ETC 10 deg
<b>89</b>	11	ETC 19 deg
<b>90</b>	12	ETC 19 deg
<b>91</b>	13	ETC 19 deg
<b>92</b>	14	ETC 19 deg
<b>93</b>	15	ETC 19 deg
<b>94</b>	16	ETC 19 deg
<b>95</b>	17	ETC 19 deg
<b>96</b>	18	ETC 19 deg
<b>97</b>	19	ETC 19 deg
<b>98</b>	20	ETC 19 deg
<b>99</b>	21	ETC 19 deg
<b>100</b>	22	ETC 19 deg
<b>101</b>	23	ETC 19 deg
<b>102</b>	24	ETC 19 deg
<b>381</b>	(6.0kw)	

### #3

ETC 10 deg	1 & 2	<b>103</b>
ETC 10 deg	3 & 4	<b>104</b>
ETC 10 deg	5 & 6	<b>105</b>
ETC 10 deg	7 & 8	<b>106</b>
ETC 10 deg	9	<b>107</b>
ETC 10 deg	10	<b>108</b>
ETC 19 deg	11	<b>109</b>
ETC 19 deg	12	<b>110</b>
ETC 19 deg	13	<b>111</b>
ETC 19 deg	14	<b>112</b>
ETC 19 deg	15	<b>113</b>
ETC 19 deg	16	<b>114</b>
ETC 19 deg	17	<b>115</b>
ETC 19 deg	18	<b>116</b>
ETC 19 deg	19	<b>117</b>
ETC 19 deg	20	<b>118</b>
ETC 19 deg	21	<b>119</b>
ETC 19 deg	22	<b>120</b>
ETC 19 deg	23	<b>121</b>
ETC 19 deg	24	<b>122</b>
	(6.0kw)	<b>383</b>

# WORTHAM THEATER CENTER - BROWN THEATER CIRCUIT CHART

## PIT FLOOR



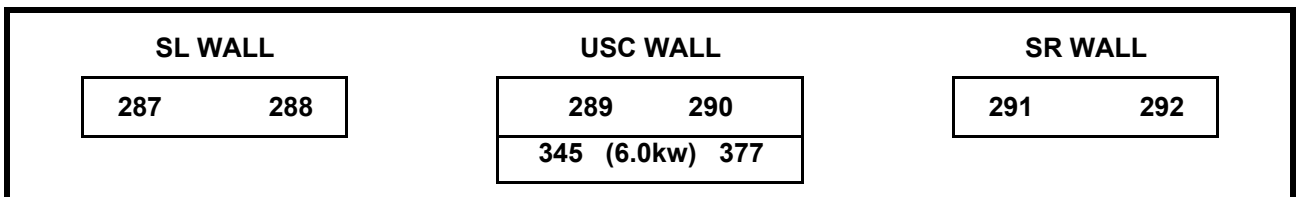
## PIT PORCH



## STAGE LEVEL ALCOVES



## TRAPS



# WORTHAM THEATER CENTER - BROWN THEATER CIRCUIT CHART

## FLOOR POCKETS

Stage Left

Stage Right

**#1**

onstage			
179	180	181	182
offstage			
183	184	185	186

**#1**

onstage			
219	220	221	222
offstage			
223	224	225	226

**#2**

onstage			
187	188	189	190
offstage			
191	192	193	194
341 (6.0kw) 375			

**#2**

onstage			
227	228	229	230
offstage			
231	232	233	234
335 (6.0kw) 379			

**#3**

onstage			
195	196	197	198
offstage			
199	200	201	202

**#3**

onstage			
235	236	237	238
offstage			
239	240	241	242

**#4**

onstage			
203	204	205	206
offstage			
207	208	209	210

**#4**

onstage			
243	244	245	246
offstage			
247	248	249	250

**#5**

onstage			
211	212	213	214
offstage			
215	216	217	218

**#5**

onstage			
251	252	253	254
offstage			
255	256	257	258

Stage Left

Stage Right

**#1**

259	262
260	263
261	264

**#2**

265	268
266	269
267	270

**UPSTAGE**

**#3**

271	274
272	275
273	276

**#4**

277	280
278	281
279	282

# WORTHAM THEATER CENTER - BROWN THEATER CIRCUIT CHART

## MOTOR SETS

<b>841 843 845 847</b> <b>842 844 846 848</b> <b>945 (6.0kw) 947</b>	<b>BRIDGE</b> (catwalk)	<b>849 851 853 855</b> <b>850 852 854 856</b> <b>949 (6.0kw) 951</b>
<b>429 431 433 435 437 439</b> <b>430 432 434 436 438 440</b>	<b>BRIDGE</b> (catwalk)	<b>441 443 445 447 449 451</b> <b>442 444 446 448 450 452</b>
<b>385 387 389 391 393 395</b> <b>386 388 390 392 394 396</b>	<b>BRIDGE</b> (underhung raceway)	<b>397 399 401 403 405 407</b> <b>398 400 402 404 406 408</b>
<b>409 411 413 415 417</b> <b>410 412 414 416 418</b>	<b>BRIDGE</b> (underhung raceway)	<b>419 421 423 425 427</b> <b>420 422 424 426 428</b>
<b>453 455 457 459 461 463</b> <b>454 456 458 460 462 464</b>	<b>MOTOR SET #5</b> (24 circuits)	<b>465 467 469 471 473 475</b> <b>466 468 470 472 474 476</b>
<b>477 479 481 483 485</b> <b>478 480 482 484 486</b>	<b>MOTOR SET #6</b> (20 circuits)	<b>487 489 491 493 495</b> <b>488 490 492 494 496</b>
<b>497 499 501 503 505 507</b> <b>498 500 502 504 506 508</b>	<b>MOTOR SET #7</b> (24 circuits)	<b>509 511 513 515 517 519</b> <b>510 512 514 516 518 520</b>
<b>521 523 525 527 529</b> <b>522 524 526 528 530</b>	<b>MOTOR SET #8</b> (20 circuits)	<b>531 533 535 537 539</b> <b>532 534 536 538 540</b>
<b>541 543 545 547 549 551</b> <b>542 544 546 548 550 552</b>	<b>MOTOR SET #9</b> (24 circuits)	<b>553 555 557 559 561 563</b> <b>554 556 558 560 562 564</b>
<b>565 567 569 571 573</b> <b>566 568 570 572 574</b>	<b>MOTOR SET #10</b> (20 circuits)	<b>575 577 579 581 583</b> <b>576 578 580 582 584</b>
<b>585 587 589 591 593</b> <b>586 588 590 592 594</b>	<b>MOTOR SET #11</b> (20 circuits)	<b>595 597 599 601 603</b> <b>596 598 600 602 604</b>
<b>605 607 609 611 613 615 617</b> <b>606 608 610 612 614 616 618</b>	<b>MOTOR SET #12A</b> (28 circuits)	<b>619 621 623 625 627 629 631</b> <b>620 622 624 626 628 630 632</b>
<b>633 635 637 639 641</b> <b>634 636 638 640 642</b>	<b>MOTOR SET #12B</b> (20 circuits)	<b>643 645 647 649 651</b> <b>644 646 648 650 652</b>
<b>653 655 657 659 661 663</b> <b>654 656 658 660 662 664</b>	<b>MOTOR SET #13</b> (24 circuits)	<b>665 667 669 671 673 675</b> <b>666 668 670 672 674 676</b>
<b>677 679 681 683 685 687 689</b> <b>678 680 682 684 686 688 690</b>	<b>MOTOR SET #14</b> (28 circuits)	<b>691 693 695 697 699 701 703</b> <b>692 694 696 698 700 702 704</b>

# WORTHAM THEATER CENTER - BROWN THEATER CIRCUIT CHART

## TORM TOWER

Stage Left	----- 5th Floor -----	Stage Right
none		none
705 706 707 708	----- 4th Floor -----	725 726 727 728
709 710 711 712	----- 3rd Floor -----	729 730 731 732
713 715 717 719 714 716 718 720	----- 2nd Floor -----	733 735 737 739 734 736 738 740
721 722 723 724	----- 1st Floor -----	741 742 743 744

## GALLERIES

Stage Left		Stage Right
953 (6.0kw) 955	<b>WALL BOXES</b>	957 (6.0kw) 959
857 859 861 863 858 860 862 864	<b>DROP BOXES</b>	865 867 869 871 866 868 870 872
809 817 873 810 818 874 811 819 875 812 820 876 813 821 877 814 822 878 815 823 879 816 824	<b>RACEWAY #1</b>	825 833 880 826 834 881 827 835 882 828 836 883 829 837 884 830 838 885 831 839 886 832 840
887 897 905 921 888 898 906 922 889 899 907 923 890 900 908 924 891 901 925 902 926 903 904	<b>RACEWAY #2</b>	892 909 917 927 893 910 918 928 894 911 919 929 895 912 920 930 896 913 931 914 932 915 916
933 935 937 934 936 938	<b>UPSTAGE WALL BOXES</b>	939 941 943 940 942 944

# WORTHAM THEATER CENTER - BROWN THEATER CIRCUIT CHART

## LADDERS

Stage Left		Stage Right
745 747 749 751 746 748 750 752	#1	777 779 781 783 778 780 782 784
753 755 757 759 754 756 758 760	#2	785 787 789 791 786 788 790 792
761 763 765 767 762 764 766 768	#3	793 795 797 799 794 796 798 800
769 771 773 775 770 772 774 776	#4	801 803 805 807 802 804 806 808

## REAR STAGE

DSL WALL		DSR WALL
293 294 295 296		301 302 303 304
USL WALL	US CENTER WALL	USR WALL
297 298 299 300	361 (6.0kw) 363	305 306 307 308

## UPSTAGE LOADING BRIDGE

Downstage		Upstage
309 313 317 310 314 318 311 315 319 312 316 320	<i>Coda Works</i>	321 325 329 322 326 330 323 327 331 324 328 332

## UPSTAGE LOADING DOCK WALL

337 338	339 340
---------	---------

**WORTHAM THEATER CENTER  
BROWN THEATER  
SOUND INVENTORY**

<b>SOUND SYSTEM (Brown)</b>
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.
<b>CONSOLE</b>
1 Yamaha CL3 (40 chan Focusrite Rednet MP8R Pre's, 16 chan Atlas Sound That! Corporation Pre's)
<b>SIDE STACKS</b>
4 KV2 ESR212 (2 per side)
<b>CENTER CLUSTER</b>
8 JBL Low Frequency Woofers
2 JBL Horns/Drivers
4 Renkus Heinz Horns/Drivers
<b>SUB WOOFERS</b>
6 L'Acoustics SB18i (3 per side in cardioid pattern)
<b>FRONT FILLS</b>
4 EAW JF80z
<b>STAGE MONITORS</b>
6 EAW SM122E Monitor
8 Galaxy Hot Spots
<b>HEAD END</b>
1 BSS Soundweb 806 Blu w/ Dante Interface

<b>STAGE MANAGER CONSOLE (Brown)</b>
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.
Clearcom Intercom System (30+ stations)
Tempest 2.4GHz Wireless Comm System (21 packs)
Conductor & FOH Closed Circuit Video Monitors
Dressing Room Paging System
Live Show Feed System
Cue Light System

<b>MONITOR MIX SYSTEM (Cullen)</b>
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.
<b>CONSOLE</b>
1 Yamaha PM5D 48/4 Channel (non-recall head amps)
<b>SUPPORT EQUIPMENT</b>
8 QSC PLX-2502 / 3602 Power Amplifiers
<b>MONITORS</b>
8 Martin Audio LE100 12" wedges
6 Martin Audio LE200 15" wedges
2 Sidefills (EAW KF400 stacked on EAW SB528zRi Subs)
<b>IEM System (PSM1000)</b>
2 Shure P15T Dual Transmitters
4 Shure P10R Recievers
**** No Molds ****

<b>MICROPHONES &amp; DI's (Cullen / Brown)</b>	
4 / 5 Crown PCC-160	10 / 0 Shure SM-57
1 / 0 AKG D112	4 / 0 Shure Beta 57
1 / 0 Sennheiser e902	7 / 4 Shure SM-58
1 / 0 Shure Beta 91	3 / 0 Shure Beta 58
5 / 0 Beyer M88T	2 / 0 Electro-Voice RE-20
4 / 0 Sennheiser 421	8 / 0 Shure KSM 137
2 / 0 Sennheiser e906	2 / 0 Shure Beta 87 A
4 / 0 Sennheiser 835	0 / 7 Shure SM-81
5 / 0 AKG C-414B P48 (3 gold face, 2 silver face)	
2 / 0 AKG C747 Mini Shotgun Condensors	
11 / 4 BSS Audio AR133 Active DI Box	
2 / 0 Countryman Type 85 Active DI Box	
<b>6 / 0 Countryman E6 Headworn Lav (beige)</b>	

<b>WIRELESS MICROPHONE SYSTEM (Brown)</b>
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.
5 Shure UR4D Dual Channel Receivers (10 chan. total)
10 Shure UR1 BodyPack Transmitters
10 Shure UR2/SM58 Handheld Microphones
10 DPA 4061 Lavalier Microphones (black)
10 DPA 4061 Lavalier Microphones (beige)

The sound equipment listed above, specifically the Monitor Mix & Microphone Inventory, may not be available depending on their use in the Cullen Theater. Due to the close proximity of the Brown Theater, Cullen Theater and the Grand Foyer, a sound decibel level of **87 DB** is strictly enforced by WCOC and by City of Houston Ordinance.