

# 2018 MILLER OUTDOOR THEATRE TECH PACK



**Miller Outdoor Theatre  
Tech Pack**

2018

**Miller Outdoor Theatre Stage & House Information**

<b>Building Capacities</b>	Building Occupancy (Including Miller Staff)	150
	Seating Capacity (Covered)	1708
	Seating Capacity (Hill)	6000 (Blankets) / 9000 (Standing)
<b>Stage Dimensions</b>	Proscenium Width	58' 8"
	Proscenium Height	25' 10"
	Stage Width	64' 2"
	Stage Depth (Curtain to Back Wall)	41' 2"
	Apron Depth (Curtain to Upstage Edge of Pit)	8' 2"
	Deck to Grid	65' 8"
	Deck to Bottom of Split Rail	8' 1"
<b>Orchestra Pit</b>	Plaster Line @ Center to Front-of-House Control Booth	135' 6"
	Plaster Line @ Center to Front-of-House Lighting Catwalk (Bridge)	82'
<b>Fly Rail</b>	System Pipes	54 (Grand Drape & 10 Electrics Are Motorized)
	System Pipe Length	1 1/2" Schedule 40; 63' long
	Pipe Trim #2-12 (Split Rail)	High trim 52' 6"; Low trim 4' 3"
	Pipe Trim #1 (Split Rail) & #13-54	High trim 60' 10"; Low trim 4' 3"
	Arbor Capacity	1750 lbs.
<b>Loading Dock</b>	Counter Weight (30,000 lbs. total)	(1) Brick = 20 lbs.
<b>Orchestra Pit</b>	Loading Dock Door Dimensions	W: 7' 9" H: 10' 0"
	Orchestra Pit Width	78' (Refer to drawings)
	Orchestra Pit Depth	20' (Refer to drawings)
	Orchestra Pit Rate of Travel (DOWN)	1 Minute 8 Seconds
	Orchestra Pit Rate of Travel (UP)	52 Seconds
	Pit Low Trim	7' 6"
	Weight Capacity of Orchestra Pit	27,000 lbs.

**Draperies**

Item	Linesets	Fabric	Size	Quantity	Weight
Grand Drape	1	32 oz. Cherry IFR; 100% Fullness	30' H x 63' W (7' Overlap @ Center)	1	945 lbs.
Split Black (2 Panels)	20, 54	25 oz. Black IFR; Flat	30' H x 34' W (Each Panel)	1	300 lbs.
Black Borders	2, 11, 21, 31, 40, 45	25 oz. Black IFR; Flat	10' H x 60' W	6	120 lbs.
Black Legs	3, 12, 22, 32, 41, 46	25 oz. Black IFR; Flat	30' H x 15' W	6 Pairs	150 lbs.
Sharktooth Scrim	42	Black	30' H x 60' W	1	90 lbs.
Plastic / Front Projection Screen	44	Rosco Twin White Plastic	30' H x 60' W	1	240 lbs.
Bounce	53	Rosco Twin White Plastic	30' H x 60' W	1	240 lbs.
Fiber Optic Star Drop	43	Black	30' H x 60' W (3 Vertical Panels; 2 Fiber Trunks per Panel)	1	465 lbs.
Mylar Curtain	52	2" Holographic Mylar Strips	30' H x 8' W	8	90 lbs.
Rear Projection Screen	8	Da-Lite Curved Series 300 Lace and Grommet Frame	18' H x 32' W	1	240 lbs.

**Properties**

Item	Size	Quantity	Item	Quantity
5' x 8' Band Risers	1' Height	6	Music Stands	60
	2' Height	6	Padded Orchestra Chairs	50
	3' Height	6	Aria LED Music Stand Lights	50
Plastic Tables	8' x 3'	8	Wenger Conductor's Podium, Stand, Chair & TechBridge	1
	6' x 3'	8	Rosco Black/White Dance Floor (60' L x 63" W)	8
	4' x 3'	2	10' Ballet Barres	4

**Miller Outdoor Theatre  
Tech Pack**

2018

Lineset Schedule					
Lineset	Travel	Distance From Plaster Line	Name	Notes	Weight
1		0' 6"	Red Grand Drape	Titan Adjustable Speed Motor	N/A
2	Travel is 48'-3"	1' 3"	#1 Black Border		15 wts.
3		1' 10"	#1 Black Legs	22' From Center	11 wts.
4		2' 7"	#1 Electric + Audio Monitors - House Trim is 28'-0"	Power Assist Motors; Pipes Are Married	N/A
5		3' 4"	#2 Electric - House Trim is 28'-0"		N/A
6		4' 3"			
7		4' 11"	Barco Projector (Rear Clamps)		6 wts.
8		5' 7"	18' x 32' Rear Porjection Screen		15 wts.
9		6' 3"			
10		6' 11"	Barco Projector (Front Clamps)		7 wts.
11		7' 7"	#2 Black Border		8 wts.
12		8' 3"	#2 Black Legs	22' From Center	11 wts.
13		Travel is 56'-7"	9' 0"	#3 Electric - House Trim is 27'-0"	Power Assist Motors; Pipes Are Married
14	9' 9"		#4 Electric - House Trim is 28'-0"	N/A	
15	10' 8"		Spare Batten Storage		20 wts.
16	11' 4"				
17	12' 0"				
18	12' 8"				
19	13' 4"				
20	14' 0"		Mid-Stage Split Black Curtain		14 wts.
21	14' 8"		#3 Black Border		7 wts.
22	15' 4"		#3 Black Legs	22' From Center	10 wts.
23	16' 1"		#5 Electric - House Trim is 27'-0"	Power Assist Motors; Pipes Are Married	N/A
24	16' 10"		#6 Electric - House Trim is 28'-0"		N/A
25	17' 9"				
26	18' 5"				
27	19' 1"				
28	19' 9"				
29	20' 5"				
30	21' 1"				
31	21' 9"		#4 Black Border		7 wts.
32	22' 5"		#4 Black Legs	22' From Center	10 wts.
33	23' 2"		#7 Electric - House Trim is 27'-0"	Power Assist Motors; Pipes Are Married	N/A
34	23' 11"		#8 Electric - House Trim is 28'-0"		N/A
35	24' 10"		Spare Batten Storage		20 wts.
36	25' 6"				
37	26' 2"				
38	26' 10"				
39	27' 10"		#9 Electric (CyberLights) - House Trim is 27'-0"	Power Assist Motor	N/A
40	28' 10"		#5 Black Border		6 wts.
41	29' 6"		#5 Black Legs	22' From Center	9 wts.
42	30' 2"		Black Sharkstooth Scrim		5 wts.
43	30' 11"		Fiber Optic Star Drop		42 wts.
44	31' 8"		Rosco Twin White Plastic (Front Projection Screen)		12 wts.
45	32' 4"		#6 Black Border		7 wts.
46	33' 0"				
47	33' 9"	#10 Electric (Cyc Lights) - House Trim is 27'-6"	Power Assist Motor	N/A	
48	34' 6"				
49	35' 2"				
50	35' 10"	#6 Black Legs	22' From Center	9 wts.	
51	36' 6"				
52	37' 2"	Holographic Mylar Curtain		2 wts.	
53	37' 10"	Rosco Twin White Plastic (Bounce)		11 wts.	
54	38' 6"	Black Cross Over Curtain		15 wts.	

Linesets #2 through #12: Travel is 48'-3".  
 Linesets #1 and #13 through #54: Travel is 56'-7".  
 Loft blocks are permanently installed (ie, kicking sheaves in the grid to adjust lineset spacing is not possible).  
 House Electrics are on 22ft./min. Arbor Assist Motors.  
 Pipes are 1½" Schedule 40 and are 63' long.  
 Weights are ⅞" Cut Steel: 20lbs.  
 Arbor maximum capacity is 1750 lbs.

Audio System																																																																																																																																			
<table border="1"> <thead> <tr> <th colspan="2">Sound System</th> </tr> </thead> <tbody> <tr> <td colspan="2"><b>Mixing Console</b></td> </tr> <tr> <td>1</td> <td>SSL L500 Plus 256 Channel Digital Mixing System</td> </tr> <tr> <td colspan="2"><b>Stereo Main Arrays</b></td> </tr> <tr> <td>10 Left / 10 Right</td> <td>Electro-Voice XLC (with DVX Driver) Full Range Cabinet</td> </tr> <tr> <td>5 Left / 5 Right</td> <td>Electro-Voice XLC 2x15 Sub Enclosure</td> </tr> <tr> <td colspan="2"><b>Stereo Delay Arrays</b></td> </tr> <tr> <td>6 Left / 6 Right</td> <td>Electro-Voice XLC (with DVX Driver) Full Range Cabinet</td> </tr> <tr> <td colspan="2"><b>Center Cluster</b></td> </tr> <tr> <td>6</td> <td>Electro-Voice EVH-D15 Full Range Cabinet</td> </tr> <tr> <td>6</td> <td>Electro-Voice EVF 2151D Sub Enclosure</td> </tr> <tr> <td colspan="2"><b>Pit Front Fill Speakers</b></td> </tr> <tr> <td>8</td> <td>Electro-Voice EVU 1062/95</td> </tr> <tr> <td colspan="2"><b>Amplifiers</b></td> </tr> <tr> <td>38</td> <td>Electro-Voice TG-5</td> </tr> <tr> <td colspan="2"><b>Processing</b></td> </tr> <tr> <td colspan="2">FIR Processing via Electro-Voice IRIS-Net</td> </tr> <tr> <td colspan="2"><b>Rack Gear / Playback</b></td> </tr> <tr> <td>2</td> <td>Tascam 1U CD Player</td> </tr> <tr> <td>1</td> <td>Tascam SS-CDR200 CF/SD Player</td> </tr> <tr> <td>1</td> <td>Tascam DV-RA1000HD Audio Recorder</td> </tr> <tr> <td>1</td> <td>MacBook Pro with MOTU 828x Audio Interface and QLab 3 Pro Bundle License</td> </tr> </tbody> </table>		Sound System		<b>Mixing Console</b>		1	SSL L500 Plus 256 Channel Digital Mixing System	<b>Stereo Main Arrays</b>		10 Left / 10 Right	Electro-Voice XLC (with DVX Driver) Full Range Cabinet	5 Left / 5 Right	Electro-Voice XLC 2x15 Sub Enclosure	<b>Stereo Delay Arrays</b>		6 Left / 6 Right	Electro-Voice XLC (with DVX Driver) Full Range Cabinet	<b>Center Cluster</b>		6	Electro-Voice EVH-D15 Full Range Cabinet	6	Electro-Voice EVF 2151D Sub Enclosure	<b>Pit Front Fill Speakers</b>		8	Electro-Voice EVU 1062/95	<b>Amplifiers</b>		38	Electro-Voice TG-5	<b>Processing</b>		FIR Processing via Electro-Voice IRIS-Net		<b>Rack Gear / Playback</b>		2	Tascam 1U CD Player	1	Tascam SS-CDR200 CF/SD Player	1	Tascam DV-RA1000HD Audio Recorder	1	MacBook Pro with MOTU 828x Audio Interface and QLab 3 Pro Bundle License	<table border="1"> <thead> <tr> <th colspan="2">Monitor Mix System</th> </tr> </thead> <tbody> <tr> <td colspan="2"><b>Mixing Console</b></td> </tr> <tr> <td>1</td> <td>SSL L500 Plus 256 Channel Digital Mixing System</td> </tr> <tr> <td>1</td> <td>Midas PRO1 Digital Mixer (Back-up Console)</td> </tr> <tr> <td colspan="2"><b>Wedge Monitors</b></td> </tr> <tr> <td>8</td> <td>Electro-Voice XW12A 12" Wedge</td> </tr> <tr> <td>8</td> <td>Electro-Voice XW15A 15" Wedge</td> </tr> <tr> <td colspan="2"><b>Overhead Monitors</b></td> </tr> <tr> <td>2</td> <td>Electro-Voice EVF-1152D Full Range Cabinet</td> </tr> <tr> <td colspan="2"><b>Side Fill Monitors</b></td> </tr> <tr> <td>2</td> <td>Electro-Voice EVF-1152D Full Range and EVF-2151D Sub</td> </tr> <tr> <td colspan="2"><b>Drum Fill Monitors</b></td> </tr> <tr> <td>2</td> <td>Electro-Voice EVF-1122D Full Range and EVF-2121S Sub</td> </tr> <tr> <td colspan="2"><b>Powered Monitors</b></td> </tr> <tr> <td>2</td> <td>Galaxy Audio Hot Spot</td> </tr> <tr> <td>6</td> <td>Anchor AN-130</td> </tr> <tr> <td>4</td> <td>Behringer B205-D</td> </tr> <tr> <td colspan="2"><b>Amplifiers</b></td> </tr> <tr> <td>15</td> <td>Electro-Voice TG-5</td> </tr> <tr> <td>6</td> <td>Crown XTI6002</td> </tr> <tr> <td colspan="2"><b>Processing</b></td> </tr> <tr> <td colspan="2">FIR Processing via Electro-Voice IRIS-Net</td> </tr> <tr> <td>2</td> <td>Electro-Voice DC-ONE Processor (Drum and Side Fill Monitors)</td> </tr> </tbody> </table>		Monitor Mix System		<b>Mixing Console</b>		1	SSL L500 Plus 256 Channel Digital Mixing System	1	Midas PRO1 Digital Mixer (Back-up Console)	<b>Wedge Monitors</b>		8	Electro-Voice XW12A 12" Wedge	8	Electro-Voice XW15A 15" Wedge	<b>Overhead Monitors</b>		2	Electro-Voice EVF-1152D Full Range Cabinet	<b>Side Fill Monitors</b>		2	Electro-Voice EVF-1152D Full Range and EVF-2151D Sub	<b>Drum Fill Monitors</b>		2	Electro-Voice EVF-1122D Full Range and EVF-2121S Sub	<b>Powered Monitors</b>		2	Galaxy Audio Hot Spot	6	Anchor AN-130	4	Behringer B205-D	<b>Amplifiers</b>		15	Electro-Voice TG-5	6	Crown XTI6002	<b>Processing</b>		FIR Processing via Electro-Voice IRIS-Net		2	Electro-Voice DC-ONE Processor (Drum and Side Fill Monitors)																																						
Sound System																																																																																																																																			
<b>Mixing Console</b>																																																																																																																																			
1	SSL L500 Plus 256 Channel Digital Mixing System																																																																																																																																		
<b>Stereo Main Arrays</b>																																																																																																																																			
10 Left / 10 Right	Electro-Voice XLC (with DVX Driver) Full Range Cabinet																																																																																																																																		
5 Left / 5 Right	Electro-Voice XLC 2x15 Sub Enclosure																																																																																																																																		
<b>Stereo Delay Arrays</b>																																																																																																																																			
6 Left / 6 Right	Electro-Voice XLC (with DVX Driver) Full Range Cabinet																																																																																																																																		
<b>Center Cluster</b>																																																																																																																																			
6	Electro-Voice EVH-D15 Full Range Cabinet																																																																																																																																		
6	Electro-Voice EVF 2151D Sub Enclosure																																																																																																																																		
<b>Pit Front Fill Speakers</b>																																																																																																																																			
8	Electro-Voice EVU 1062/95																																																																																																																																		
<b>Amplifiers</b>																																																																																																																																			
38	Electro-Voice TG-5																																																																																																																																		
<b>Processing</b>																																																																																																																																			
FIR Processing via Electro-Voice IRIS-Net																																																																																																																																			
<b>Rack Gear / Playback</b>																																																																																																																																			
2	Tascam 1U CD Player																																																																																																																																		
1	Tascam SS-CDR200 CF/SD Player																																																																																																																																		
1	Tascam DV-RA1000HD Audio Recorder																																																																																																																																		
1	MacBook Pro with MOTU 828x Audio Interface and QLab 3 Pro Bundle License																																																																																																																																		
Monitor Mix System																																																																																																																																			
<b>Mixing Console</b>																																																																																																																																			
1	SSL L500 Plus 256 Channel Digital Mixing System																																																																																																																																		
1	Midas PRO1 Digital Mixer (Back-up Console)																																																																																																																																		
<b>Wedge Monitors</b>																																																																																																																																			
8	Electro-Voice XW12A 12" Wedge																																																																																																																																		
8	Electro-Voice XW15A 15" Wedge																																																																																																																																		
<b>Overhead Monitors</b>																																																																																																																																			
2	Electro-Voice EVF-1152D Full Range Cabinet																																																																																																																																		
<b>Side Fill Monitors</b>																																																																																																																																			
2	Electro-Voice EVF-1152D Full Range and EVF-2151D Sub																																																																																																																																		
<b>Drum Fill Monitors</b>																																																																																																																																			
2	Electro-Voice EVF-1122D Full Range and EVF-2121S Sub																																																																																																																																		
<b>Powered Monitors</b>																																																																																																																																			
2	Galaxy Audio Hot Spot																																																																																																																																		
6	Anchor AN-130																																																																																																																																		
4	Behringer B205-D																																																																																																																																		
<b>Amplifiers</b>																																																																																																																																			
15	Electro-Voice TG-5																																																																																																																																		
6	Crown XTI6002																																																																																																																																		
<b>Processing</b>																																																																																																																																			
FIR Processing via Electro-Voice IRIS-Net																																																																																																																																			
2	Electro-Voice DC-ONE Processor (Drum and Side Fill Monitors)																																																																																																																																		
<table border="1"> <thead> <tr> <th colspan="2">Microphones</th> </tr> </thead> <tbody> <tr> <td colspan="2"><b>Dynamic Microphones</b></td> </tr> <tr> <td>12</td> <td>Shure SM57</td> </tr> <tr> <td>2</td> <td>Shure Beta 57</td> </tr> <tr> <td>6</td> <td>Shure Beta 57A</td> </tr> <tr> <td>14</td> <td>Shure SM58</td> </tr> <tr> <td>4</td> <td>Shure Beta 58A</td> </tr> <tr> <td>1</td> <td>Sennheiser 409</td> </tr> <tr> <td>4</td> <td>Sennheiser 609</td> </tr> <tr> <td>8</td> <td>Sennheiser 906</td> </tr> <tr> <td>15</td> <td>Sennheiser MD421II</td> </tr> <tr> <td>8</td> <td>Sennheiser MD441</td> </tr> <tr> <td>10</td> <td>Electro-Voice N/D468</td> </tr> <tr> <td>3</td> <td>Electro-Voice RE-20</td> </tr> <tr> <td>8</td> <td>Beyer Dynamic M88 TG</td> </tr> <tr> <td>1</td> <td>Beyer Dynamic M88 N(C)</td> </tr> <tr> <td>2</td> <td>Neumann KMS105</td> </tr> <tr> <td colspan="2"><b>Direct Boxes</b></td> </tr> <tr> <td>17</td> <td>Countryman Type 85 FET Active DI</td> </tr> <tr> <td>2</td> <td>Whirlwind Director Passive DI</td> </tr> <tr> <td>2</td> <td>Radial Engineering R800 Passive Stereo DI</td> </tr> <tr> <td colspan="2"><b>Small Diaphragm Condenser Microphones</b></td> </tr> <tr> <td>8</td> <td>Audio-Technica Pro 835</td> </tr> <tr> <td>16</td> <td>Shure KSM137</td> </tr> <tr> <td>9</td> <td>Shure SM81</td> </tr> <tr> <td>5</td> <td>AKG C451 EB</td> </tr> <tr> <td>5</td> <td>AKG SE300B</td> </tr> <tr> <td>3</td> <td>AKG C 460B</td> </tr> <tr> <td>7</td> <td>KM184B</td> </tr> <tr> <td>3</td> <td>KM184S</td> </tr> <tr> <td>4</td> <td>Audix SCX One</td> </tr> <tr> <td colspan="2"><b>Large Diaphragm Condenser Microphones</b></td> </tr> <tr> <td>6</td> <td>Audio-Technica 4050</td> </tr> <tr> <td>11</td> <td>AKG C414B</td> </tr> <tr> <td colspan="2"><b>Specialty Microphones</b></td> </tr> <tr> <td>1</td> <td>Helpinstill Model 280 Piano Pickup</td> </tr> <tr> <td>2</td> <td>Audix D6</td> </tr> <tr> <td>2</td> <td>AKG D112</td> </tr> <tr> <td>7</td> <td>Shure Beta 98DS</td> </tr> <tr> <td>2</td> <td>Shure Beta 91A</td> </tr> <tr> <td>4</td> <td>Crown PCC 160</td> </tr> <tr> <td>6</td> <td>Bartlett Floor Mics</td> </tr> </tbody> </table>		Microphones		<b>Dynamic Microphones</b>		12	Shure SM57	2	Shure Beta 57	6	Shure Beta 57A	14	Shure SM58	4	Shure Beta 58A	1	Sennheiser 409	4	Sennheiser 609	8	Sennheiser 906	15	Sennheiser MD421II	8	Sennheiser MD441	10	Electro-Voice N/D468	3	Electro-Voice RE-20	8	Beyer Dynamic M88 TG	1	Beyer Dynamic M88 N(C)	2	Neumann KMS105	<b>Direct Boxes</b>		17	Countryman Type 85 FET Active DI	2	Whirlwind Director Passive DI	2	Radial Engineering R800 Passive Stereo DI	<b>Small Diaphragm Condenser Microphones</b>		8	Audio-Technica Pro 835	16	Shure KSM137	9	Shure SM81	5	AKG C451 EB	5	AKG SE300B	3	AKG C 460B	7	KM184B	3	KM184S	4	Audix SCX One	<b>Large Diaphragm Condenser Microphones</b>		6	Audio-Technica 4050	11	AKG C414B	<b>Specialty Microphones</b>		1	Helpinstill Model 280 Piano Pickup	2	Audix D6	2	AKG D112	7	Shure Beta 98DS	2	Shure Beta 91A	4	Crown PCC 160	6	Bartlett Floor Mics	<table border="1"> <thead> <tr> <th colspan="2">Wireless Microphones</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>AKG DSR700 RF Receiver</td> </tr> <tr> <td>24</td> <td>AKG DHT700 Hand-Held Transmitter w/ AKG D5 Super-Cardioid Capsule</td> </tr> <tr> <td>28</td> <td>AKG DPT700 Body-Pack Transmitter</td> </tr> <tr> <td>24</td> <td>Point Source Audio CO-8WL Lavalier Microphone</td> </tr> <tr> <td>12</td> <td>DPA d:fine FIO66 Omni-Directional Headset Microphone</td> </tr> <tr> <td colspan="2"><b>Communication</b></td> </tr> <tr> <td>1</td> <td>Clear-Com 4-Channel, 12-Matrix Base Station SB-412 A</td> </tr> <tr> <td>1</td> <td>Clear-Com 4-Channel, 10-Matrix Base Station SB-704</td> </tr> <tr> <td>24</td> <td>Clear-Com Beltpack/Headset</td> </tr> <tr> <td>20</td> <td>Clear-Com Listening Station</td> </tr> <tr> <td>4</td> <td>Clear-Com RM-440 4-Channel Remote Station</td> </tr> <tr> <td>2</td> <td>Clear-Com RM-120A 2-Channel Remote Station</td> </tr> <tr> <td>6</td> <td>HME Pro-850 2-Channel Wireless Com</td> </tr> <tr> <td>4</td> <td>Telex BTR-80N 2-Channel Wireless Com</td> </tr> <tr> <td colspan="2"><b>Stage Management</b></td> </tr> <tr> <td colspan="2">6-Circuit Cue Light Control Switchbox</td> </tr> <tr> <td colspan="2">4-Channel Clear-Com Base Station</td> </tr> <tr> <td colspan="2">Dressing Room Paging Microphone</td> </tr> <tr> <td colspan="2">Show Feed Monitor</td> </tr> <tr> <td colspan="2">Front-of-House Video Camera Monitor</td> </tr> <tr> <td colspan="2">Optional Orchestra Pit Conductor Video Camera Monitor</td> </tr> </tbody> </table>		Wireless Microphones		12	AKG DSR700 RF Receiver	24	AKG DHT700 Hand-Held Transmitter w/ AKG D5 Super-Cardioid Capsule	28	AKG DPT700 Body-Pack Transmitter	24	Point Source Audio CO-8WL Lavalier Microphone	12	DPA d:fine FIO66 Omni-Directional Headset Microphone	<b>Communication</b>		1	Clear-Com 4-Channel, 12-Matrix Base Station SB-412 A	1	Clear-Com 4-Channel, 10-Matrix Base Station SB-704	24	Clear-Com Beltpack/Headset	20	Clear-Com Listening Station	4	Clear-Com RM-440 4-Channel Remote Station	2	Clear-Com RM-120A 2-Channel Remote Station	6	HME Pro-850 2-Channel Wireless Com	4	Telex BTR-80N 2-Channel Wireless Com	<b>Stage Management</b>		6-Circuit Cue Light Control Switchbox		4-Channel Clear-Com Base Station		Dressing Room Paging Microphone		Show Feed Monitor		Front-of-House Video Camera Monitor		Optional Orchestra Pit Conductor Video Camera Monitor	
Microphones																																																																																																																																			
<b>Dynamic Microphones</b>																																																																																																																																			
12	Shure SM57																																																																																																																																		
2	Shure Beta 57																																																																																																																																		
6	Shure Beta 57A																																																																																																																																		
14	Shure SM58																																																																																																																																		
4	Shure Beta 58A																																																																																																																																		
1	Sennheiser 409																																																																																																																																		
4	Sennheiser 609																																																																																																																																		
8	Sennheiser 906																																																																																																																																		
15	Sennheiser MD421II																																																																																																																																		
8	Sennheiser MD441																																																																																																																																		
10	Electro-Voice N/D468																																																																																																																																		
3	Electro-Voice RE-20																																																																																																																																		
8	Beyer Dynamic M88 TG																																																																																																																																		
1	Beyer Dynamic M88 N(C)																																																																																																																																		
2	Neumann KMS105																																																																																																																																		
<b>Direct Boxes</b>																																																																																																																																			
17	Countryman Type 85 FET Active DI																																																																																																																																		
2	Whirlwind Director Passive DI																																																																																																																																		
2	Radial Engineering R800 Passive Stereo DI																																																																																																																																		
<b>Small Diaphragm Condenser Microphones</b>																																																																																																																																			
8	Audio-Technica Pro 835																																																																																																																																		
16	Shure KSM137																																																																																																																																		
9	Shure SM81																																																																																																																																		
5	AKG C451 EB																																																																																																																																		
5	AKG SE300B																																																																																																																																		
3	AKG C 460B																																																																																																																																		
7	KM184B																																																																																																																																		
3	KM184S																																																																																																																																		
4	Audix SCX One																																																																																																																																		
<b>Large Diaphragm Condenser Microphones</b>																																																																																																																																			
6	Audio-Technica 4050																																																																																																																																		
11	AKG C414B																																																																																																																																		
<b>Specialty Microphones</b>																																																																																																																																			
1	Helpinstill Model 280 Piano Pickup																																																																																																																																		
2	Audix D6																																																																																																																																		
2	AKG D112																																																																																																																																		
7	Shure Beta 98DS																																																																																																																																		
2	Shure Beta 91A																																																																																																																																		
4	Crown PCC 160																																																																																																																																		
6	Bartlett Floor Mics																																																																																																																																		
Wireless Microphones																																																																																																																																			
12	AKG DSR700 RF Receiver																																																																																																																																		
24	AKG DHT700 Hand-Held Transmitter w/ AKG D5 Super-Cardioid Capsule																																																																																																																																		
28	AKG DPT700 Body-Pack Transmitter																																																																																																																																		
24	Point Source Audio CO-8WL Lavalier Microphone																																																																																																																																		
12	DPA d:fine FIO66 Omni-Directional Headset Microphone																																																																																																																																		
<b>Communication</b>																																																																																																																																			
1	Clear-Com 4-Channel, 12-Matrix Base Station SB-412 A																																																																																																																																		
1	Clear-Com 4-Channel, 10-Matrix Base Station SB-704																																																																																																																																		
24	Clear-Com Beltpack/Headset																																																																																																																																		
20	Clear-Com Listening Station																																																																																																																																		
4	Clear-Com RM-440 4-Channel Remote Station																																																																																																																																		
2	Clear-Com RM-120A 2-Channel Remote Station																																																																																																																																		
6	HME Pro-850 2-Channel Wireless Com																																																																																																																																		
4	Telex BTR-80N 2-Channel Wireless Com																																																																																																																																		
<b>Stage Management</b>																																																																																																																																			
6-Circuit Cue Light Control Switchbox																																																																																																																																			
4-Channel Clear-Com Base Station																																																																																																																																			
Dressing Room Paging Microphone																																																																																																																																			
Show Feed Monitor																																																																																																																																			
Front-of-House Video Camera Monitor																																																																																																																																			
Optional Orchestra Pit Conductor Video Camera Monitor																																																																																																																																			
<table border="1"> <thead> <tr> <th colspan="4">Backline Inventory</th> </tr> </thead> <tbody> <tr> <td colspan="4"><b>Piano</b></td> </tr> <tr> <td colspan="4">Boston by Steinway &amp; Sons 7' Grand Piano</td> </tr> <tr> <td colspan="4"><b>Drum Kit - Mapex Saturn Series Silver Sparkle Drums</b></td> </tr> <tr> <td>22" Diameter x 18" Depth Bass Drum</td> <td>14"x14" Floor Tom</td> <td colspan="2"></td> </tr> <tr> <td>18" Diameter x 14" Depth Bass Drum</td> <td>16"x16" Floor Tom</td> <td colspan="2"></td> </tr> <tr> <td>10"x8" Mounted Tom</td> <td>14"x5" Snare with 2.3mm Power Hoops</td> <td colspan="2"></td> </tr> <tr> <td>12"x10" Mounted Tom</td> <td>13"x6" Black Panther Maple Snare</td> <td colspan="2"></td> </tr> <tr> <td colspan="4"><b>Drum Hardware</b></td> </tr> <tr> <td>Mapex Falcon P1000TW Chain Drive</td> <td>(4) Mapex Combination Straight/Boom</td> <td colspan="2"></td> </tr> <tr> <td>Double Bass Drum Pedal</td> <td>Cymbal Stands</td> <td colspan="2"></td> </tr> <tr> <td>Gibraltar Prowler 5611 Chain Drive</td> <td>Mapex Heavy Duty High Hat Stand</td> <td colspan="2"></td> </tr> <tr> <td>Single Bass Drum Pedal</td> <td>"Dogbone" Boom Arm for Splash Cymbal</td> <td colspan="2"></td> </tr> <tr> <td>Mapex Snare Stand</td> <td>Yamaha Snare Stand</td> <td colspan="2"></td> </tr> <tr> <td colspan="4"><b>Zildjian A-Custom Cymbals</b></td> </tr> <tr> <td>20"/51cm Medium Ride Cymbal</td> <td>20"/51cm China Cymbal</td> <td colspan="2"></td> </tr> <tr> <td>16"/40cm Medium Thin Crash Cymbal</td> <td>10"/25cm Fast Splash Cymbal</td> <td colspan="2"></td> </tr> <tr> <td>18"/45cm Medium Thin Crash Cymbal</td> <td>14"/36cm New Beat High Hats</td> <td colspan="2"></td> </tr> <tr> <td colspan="4"><b>Additional Cymbals</b></td> </tr> <tr> <td>Zildjian Avedis 16" Crash Cymbal</td> <td>Sabian Solaris 14" High Hats</td> <td colspan="2"></td> </tr> <tr> <td colspan="4"><b>Percussion / Accessories</b></td> </tr> <tr> <td colspan="4">RhythmTech Hat Trick (High Hat Mounted Tambourine)</td> </tr> <tr> <td>LP 229 Mambo 9" Cowbell</td> <td>Roc-N-Soc Drum Throne</td> <td colspan="2"></td> </tr> <tr> <td>Zildjian Stick Bag</td> <td>LP Microphone Claws</td> <td colspan="2"></td> </tr> <tr> <td colspan="4">Drum Rug</td> </tr> </tbody> </table>				Backline Inventory				<b>Piano</b>				Boston by Steinway & Sons 7' Grand Piano				<b>Drum Kit - Mapex Saturn Series Silver Sparkle Drums</b>				22" Diameter x 18" Depth Bass Drum	14"x14" Floor Tom			18" Diameter x 14" Depth Bass Drum	16"x16" Floor Tom			10"x8" Mounted Tom	14"x5" Snare with 2.3mm Power Hoops			12"x10" Mounted Tom	13"x6" Black Panther Maple Snare			<b>Drum Hardware</b>				Mapex Falcon P1000TW Chain Drive	(4) Mapex Combination Straight/Boom			Double Bass Drum Pedal	Cymbal Stands			Gibraltar Prowler 5611 Chain Drive	Mapex Heavy Duty High Hat Stand			Single Bass Drum Pedal	"Dogbone" Boom Arm for Splash Cymbal			Mapex Snare Stand	Yamaha Snare Stand			<b>Zildjian A-Custom Cymbals</b>				20"/51cm Medium Ride Cymbal	20"/51cm China Cymbal			16"/40cm Medium Thin Crash Cymbal	10"/25cm Fast Splash Cymbal			18"/45cm Medium Thin Crash Cymbal	14"/36cm New Beat High Hats			<b>Additional Cymbals</b>				Zildjian Avedis 16" Crash Cymbal	Sabian Solaris 14" High Hats			<b>Percussion / Accessories</b>				RhythmTech Hat Trick (High Hat Mounted Tambourine)				LP 229 Mambo 9" Cowbell	Roc-N-Soc Drum Throne			Zildjian Stick Bag	LP Microphone Claws			Drum Rug																															
Backline Inventory																																																																																																																																			
<b>Piano</b>																																																																																																																																			
Boston by Steinway & Sons 7' Grand Piano																																																																																																																																			
<b>Drum Kit - Mapex Saturn Series Silver Sparkle Drums</b>																																																																																																																																			
22" Diameter x 18" Depth Bass Drum	14"x14" Floor Tom																																																																																																																																		
18" Diameter x 14" Depth Bass Drum	16"x16" Floor Tom																																																																																																																																		
10"x8" Mounted Tom	14"x5" Snare with 2.3mm Power Hoops																																																																																																																																		
12"x10" Mounted Tom	13"x6" Black Panther Maple Snare																																																																																																																																		
<b>Drum Hardware</b>																																																																																																																																			
Mapex Falcon P1000TW Chain Drive	(4) Mapex Combination Straight/Boom																																																																																																																																		
Double Bass Drum Pedal	Cymbal Stands																																																																																																																																		
Gibraltar Prowler 5611 Chain Drive	Mapex Heavy Duty High Hat Stand																																																																																																																																		
Single Bass Drum Pedal	"Dogbone" Boom Arm for Splash Cymbal																																																																																																																																		
Mapex Snare Stand	Yamaha Snare Stand																																																																																																																																		
<b>Zildjian A-Custom Cymbals</b>																																																																																																																																			
20"/51cm Medium Ride Cymbal	20"/51cm China Cymbal																																																																																																																																		
16"/40cm Medium Thin Crash Cymbal	10"/25cm Fast Splash Cymbal																																																																																																																																		
18"/45cm Medium Thin Crash Cymbal	14"/36cm New Beat High Hats																																																																																																																																		
<b>Additional Cymbals</b>																																																																																																																																			
Zildjian Avedis 16" Crash Cymbal	Sabian Solaris 14" High Hats																																																																																																																																		
<b>Percussion / Accessories</b>																																																																																																																																			
RhythmTech Hat Trick (High Hat Mounted Tambourine)																																																																																																																																			
LP 229 Mambo 9" Cowbell	Roc-N-Soc Drum Throne																																																																																																																																		
Zildjian Stick Bag	LP Microphone Claws																																																																																																																																		
Drum Rug																																																																																																																																			

**Lighting Inventory**

ETC Eos Lighting Network			ETC Eos Accessories		
Quantity	Item		Quantity	Item	
2	ETC Eos TI Console (Front-of-House and Stage Right Booth)		1	Eos Motorized Fader Wing 20	
1	ETC Gio Console (Portable Remote Console)		1	Eos Motorized Fader Wing 10	
1	ETC Eos RPU3 Primary Processor (4,096 Outputs)		2	2x20 Universal Fader Wing	
1	ETC Eos RPU3 Tracking Backup Processor (4,096 Outputs)		1	2x10 Universal Fader Wing	
1	ETCnomad Puck (Front-of-House Designer Display)		1	ETC Net3 Show Control Gateway	

  

House Plot Fixtures			Spare Fixtures		
Quantity	Fixture Type	Wattage	Quantity	Fixture Type	Wattage / Size
3	ETC Source 4 5°	750w	57	ETC Source 4 Fixture Body	575w or 750w
26	ETC Source 4 10°	750w	4	ETC Source 4 5° Lens	
19	ETC Source 4 14°	750w	10	ETC Source 4 10° Lens	
45	ETC Source 4 19°	750w	15	ETC Source 4 14° Lens	
99	ETC Source 4 26°	575w	27	ETC Source 4 19° Lens	
128	ETC Source 4 36°	575w	37	ETC Source 4 26° Lens	
			28	ETC Source 4 36° Lens	
3	ETC Source 4 Fresnel	750w	19	ETC Source 4 50° Lens	
72	ETC Source 4 PAR WFL	750w	12	ETC Source 4 PAR (VNSP, NSP, MFL or WFL)	750w
8	Selecon Aurora 4-Cell Cyc Unit	1kW per circuit	12	PAR 64 (VNSP, NSP, MFL or WFL)	1kW
8	Selecon Aurora 4-Cell Groundrow Unit	1kW per circuit	10	Altman 3-Circuit Strip (EYC or EYF Lamps)	750w per circuit
			3	Martin Atomic 3000 Strobe	3kW
12	LR CyberLight SV	1200w	6	Lightwave Research Multi-Ray	575w
8	ETC Selador Vivid R 11" LED	125w	2	Barco FQ-100 Fog Machine	
3	Martin RUSH FiberSource 1 LED Fiber Illuminator	87w	1	Lightwave Research F-100 Fog Machine	
2	Reel EFX DF-50 Hazer	480w	2	AquaFog 3300	
7	Rosco I-Cue	17w	1	City Theatrical EFX Plus2	
7	City Theatrical DMX Iris	6w	1	Mirror Ball w/ American DJ DMX Motor	18"
2	Lycian 1290XLT Follow Spots	2kW	1	Rosco I-Cue	17w
			5	Apollo EZ Iris	
			12	Drop-In Irises for Source 4	

**Accessories**

Item	Size	Quantity	In House Plot	Item	Size	Quantity	In House Plot
Template Holders for Source 4	A	48	36	Top Hats	6 1/4"	24	
	B	43			7 1/2"	48	
	Glass BG (79mm)	6			12"	29	
	Glass B (86mm)	2			14"	2	
Donuts	6 1/4" (2 1/2" Aperture)	19		Half Hats	6 1/4"	16	
	6 1/4" (3 3/16" Aperture)	10			7 1/2"	7	
Color Extenders	7 1/2"			Side Arms	18"	16	12
	6 1/4"	23	16		24"	16	16

**Cable Inventory**

Power Cable				Data Cable			
Cable Type	Length	Quantity	In House Plot	Cable Type	Length	Quantity	In House Plot
12/3 S-Cable with 20A Stage Pin Connector	5'	20		3-Pin DMX Cable	10'	10	
	10'	20			50'	2	
	15'	15		5-Pin DMX Cable	5'	8	
	25'	16			10'	8	
	35'	8			15'	6	
	50'	8			25'	8	
	75'	2			50'	3	
100'	3		75'		2		
			100'	3			
12/3 S-Cable with 15A Edison Connector	5'	10		4-Pin Scroller Power/Data Cable	3'	5	
	10'	10			5'	4	
	15'	5			15'	2	
	25'	6			25'	6	
	50'	5			50'	1	
100'	2		75'		4		
12/3 S-Cable with 20A L6-20 Twistlock Connector	25'	4			100'	1	
	50'	4			125'	1	
	100'	5					
	125'	2					

**Multi-Circuit Extension Cables**

Socapex 6-Circuit Multi Cable with 14-Pin Connector	10'	4		Socapex Fans	Fan Out	3
	25'	10			Break-Out	6
	50'	4			Break-In	6

**Miller Outdoor Theatre  
Tech Pack**

2018

<b>DMX Addresses</b>					
<b>Unit</b>	<b>Position</b>	<b>Start Address</b>	<b>Range</b>	<b>DMX Address</b>	
Cyberlight #1	LS 39	1	1 - 20	1025	3.1
Cyberlight #2	LS 39	21	21 - 40	1045	3.21
Cyberlight #3	LS 39	41	41 - 60	1065	3.41
Cyberlight #4	LS 39	61	61 - 80	1085	3.61
Cyberlight #5	LS 39	81	81 - 100	1105	3.81
Cyberlight #6	LS 39	101	101 - 120	1125	3.101
Cyberlight #7	LS 39	121	121 - 140	1145	3.121
Cyberlight #8	LS 39	141	141 - 160	1165	3.141
Cyberlight #9	LS 39	161	161 - 180	1185	3.161
Cyberlight #10	LS 39	181	181 - 200	1205	3.181
Cyberlight #11	LS 39	201	201 - 220	1225	3.201
Cyberlight #12	LS 39	221	221 - 240	1245	3.221
ETC Selador Vivid-R #1	Deck	241	241 - 248	1265	3.241
ETC Selador Vivid-R #2	Deck	251	251 - 258	1275	3.251
ETC Selador Vivid-R #3	Deck	261	261 - 268	1285	3.261
ETC Selador Vivid-R #4	Deck	271	271 - 278	1295	3.271
ETC Selador Vivid-R #5	Deck	281	281 - 288	1305	3.281
ETC Selador Vivid-R #6	Deck	291	291 - 298	1315	3.291
ETC Selador Vivid-R #7	Deck	301	301 - 308	1325	3.301
ETC Selador Vivid-R #8	Deck	311	311 - 318	1335	3.311
DiCon LED Emitter #1	LS 43	321	321 - 326	1345	3.321
DiCon LED Emitter #2	LS 43	331	331 - 336	1355	3.331
DiCon LED Emitter #3	LS 43	341	341 - 346	1365	3.341
Martin RUSH FiberSource 1	LS 43	351	351-355	1375	3.351
Martin RUSH FiberSource 1	LS 43	356	356-360	1380	3.355
Martin RUSH FiberSource 1	LS 43	361	361-365	1385	3.361
Rosco I-Cue #1	Cove	366	366 - 369	1390	3.366
Rosco I-Cue #2	Cove	371	371 - 374	1395	3.371
Rosco I-Cue #3	Cove	376	376 - 379	1400	3.376
Rosco I-Cue #4	#2 Electric	381	381 - 384	1405	3.381
Rosco I-Cue #5	#2 Electric	386	386 - 389	1410	3.386
Rosco I-Cue #6	#2 Electric	391	391 - 394	1415	3.391
Rosco I-Cue #7	#2 Electric	396	396 - 399	1420	3.396
Rosco I-Cue #8	Spare	401	401 - 404	1425	3.401
City Theatrical DMX Iris #1	Cove	370	370	1394	3.370
City Theatrical DMX Iris #2	Cove	375	375	1399	3.375
City Theatrical DMX Iris #3	Cove	380	380	1404	3.380
City Theatrical DMX Iris #4	#2 Electric	385	385	1409	3.385
City Theatrical DMX Iris #5	#2 Electric	390	390	1414	3.390
City Theatrical DMX Iris #6	#2 Electric	395	395	1419	3.395
City Theatrical DMX Iris #7	#2 Electric	400	400	1424	3.400
Apollo EZ-Iris #1	Spare	405	405	1429	3.405
Apollo EZ-Iris #2	Spare	406	406	1430	3.406
Apollo EZ-Iris #3	Spare	407	407	1431	3.407
Apollo EZ-Iris #4	Spare	408	408	1432	3.408
Apollo EZ-Iris #5	Spare	409	409	1433	3.409
FQ-100 #1	Deck	443	443	1467	3.443
FQ-100 #2	Deck	444	444	1468	3.444
F100	Deck	445	445	1469	3.445
Mirror Ball Motor	Storage	441	441 - 442	1465	3.441
Martin Atomic Strobe #1	Storage	411	411 - 416	1435	3.411
Martin Atomic Strobe #2	Storage	421	421 - 426	1445	3.421
Martin Atomic Strobe #3	Storage	431	431 - 436	1455	3.431
Aria Music Stand Light #1	Storage	501	501 - 503	1525	3.501
Aria Music Stand Light #2	Storage	504	504 - 506	1528	3.504

**Miller Outdoor Theatre  
Tech Pack**

**2018**

<b>Miller Outdoor Theatre Video Inventory</b>	
<b>Projector</b>	Barco FLM HD20 20,000 Lumen HD Projector
<b>Lenses:</b>	Barco 0.67 HD Fixed Lens (34'W x 19'H image when front projected) Christie 1.16 – 1.49 HD Zoom Lens (21'-26'W x 12'-15'H image when front projected)
<b>Preview Monitors</b>	BlackMagic SmartView HD 17" Monitor BlackMagic SmartView Duo Dual 8" Monitors
<b>Projection Surfaces</b>	Da-Lite Curved Series 300 18'H x 32'W Rosco Twin White Plastic (Front Projection: Lineset 44 or 53; Rear Projection: Lineset 8)
<b>Rack Gear</b>	Barco DCS-200 Switcher Denon DN-500BD Blu-Ray Player MOTU 112D Digital Audio Signal Converter Mac Pro with QLab 3
<b>Additional Notes</b>	<p>Maximum distance from switcher to projector is 150'. Signal is over HD-SDI cable.</p> <p>Switcher has 6 Analog (VGA, 5-wire, or Composite) inputs.</p> <p>Switcher has 2 Digital (DVI or HDMI) inputs.</p> <p>When used for front projection, projector hangs on linesets 6 &amp; 9 (Linesets 7, 8, &amp; 10 CANNOT be used). Image is projected onto the Rosco Twin White Plastic on lineset 44 or 53.</p> <p>When used for rear projection, projector mounts to stand up-center stage. Image is projected onto the Da-Lite 18'H x 32'W on lineset 8.</p>