


# Yale School of Drama / Repertory Theatre

## Technical Design and Production Department

### Projection

Rep 2 Sets

Element Names	Build	Load-in	Approved	Spent To Date	To Be Spent	Projection
[blank]	0	0	\$0	\$391		\$391
***Rehearsal Scenery	0	0	\$0	\$22	\$0	\$22
***Samples for Design & Directing	0	0	\$0	\$64	\$0	\$64
adjust 	0	0	\$0	\$1,857		\$1,857
automation	0	0	\$0	\$6		\$6
house seats	0	0	\$0	\$15		\$15
Show Deck	49	46	\$1,955	\$1,846	\$0	\$1,846
Bog	16	4	\$200	\$96	\$0	\$96
Forest in Bog	24	14	\$120	\$9	\$0	\$9
Falling Tree	6	10	\$45	\$266	\$0	\$266
Pulpit	55	32	\$765	\$654	\$0	\$654
SL Rolling Wagon	18	9	\$210	\$109	\$0	\$109
Stairway on Lift	3	1	\$20	\$146	\$0	\$146
Hydraulic Floating Bed Solution	39	24	\$445	\$955	\$0	\$955
Stove/Bench Lift SR	20	30	\$475	\$680	\$0	\$680
Bigger Part of Rolling Unit	82	31	\$1,515	\$2,821	\$0	\$2,821
Big Unit Moving Up & Down Stage	36	12	\$725	\$619	\$0	\$619
Smaller Part of Rolling Unit	48	7	\$590	\$533	\$0	\$533
Back Rolldrop on Big Unit	18	9	\$275	\$295	\$0	\$295
Fantasy Bedroom in Big Unit	32	5	\$350	\$247	\$0	\$247
Front Roll Drop on Big Unit	10	2	\$25	\$22	\$0	\$22
Twig Pannels for Big Unit	35	9	\$550	\$585	\$0	\$585
Cutout Trees for Big Unit	36	17	\$1,440	\$1,713	\$0	\$1,713
Book/Kitchen shelves for Big Unit	44	1	\$365	\$19	\$0	\$19
Cage for BIG Unit	16	1	\$215	\$0	\$0	\$0
Hang'in Rig	13	2	\$135	\$1	\$0	\$1
Picture Light Boxes (5)	4	12	\$705	\$824	\$0	\$824
Header & Legs for Alcove	7	12	\$85	\$13	\$0	\$13
Heavens Gate	22	16	\$810	\$899	\$0	\$899
Heaven Stairs & Wall	39	21	\$645	\$493	\$0	\$493
Swing In Heaven	4	28	\$325	\$336	\$0	\$336
Flower Petals Falling From Heaven	6	12	\$550	\$278	\$0	\$278

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Projection

Rep 2 Sets

Cloak Lift	5	3	<b>\$85</b>	\$126	\$0	<b>\$126</b>	
Foot Light Trap	10	7	<b>\$145</b>	\$76	\$0	<b>\$76</b>	
Load in	0	0	<b>\$500</b>	\$1,703	\$0	<b>\$1,703</b>	
<hr/>							
Subtotals (rounded)	697	375	<b>\$14,270</b>	\$18,721	\$0		
10% Contingency (rounded)	70	35	<b>\$1,375</b>				
Post-Approval Adjustment			<b>\$0</b>		\$0		
<hr/>							
Totals	767	410	<b>\$15,645</b>	\$18,721	\$0	<b>\$18,721</b>	<b>(\$3,076)</b> -over-

# Yale School of Drama / Repertory Theatre

## Technical Design and Production Department

### Spending Summary

Rep 2 Sets

PR	90905	CenterLine Studios dba Ivy Rock Farms, LLC	\$290.00
PR	90524	GE Polymer Shapes	\$296.20
PR	92305	Goodys Hardware	\$20.74
PR	91393	Happ Controls	\$211.19
PR	91105	Hartford Cordage	\$497.00
PR	92585	Hartford Cordage	\$46.50
IVSal	90629	Inventory Sales 10/13	\$12.20
IVSal	91168	Inventory Sales 11/01	\$4245.29
IVSal	91909	Inventory Sales 11/16	\$5038.74
IVSal	92130	Inventory Sales 11/21	\$3385.05
IVSal	92353	Inventory Sales Pending	\$376.97
PC	92517	Janine Martinez Petty Cash	\$95.36
ER	92365	Lily Twining	\$95.36
PR	90625	Master Garden Products	\$51.56
PR	90632	Master Garden Products	\$389.31
PR	91009	MCMaster-CARR SUPPLY CO	\$121.47
PR	91106	MCMaster-CARR SUPPLY CO	\$288.93
PR	91436	MCMaster-CARR SUPPLY CO	\$221.12
PR	91448	MCMaster-CARR SUPPLY CO	\$21.04
PR	92354	MCMaster-CARR SUPPLY CO	\$69.21
PR	92405	MCMaster-CARR SUPPLY CO	\$14.64
PR	91202	PTD Productions, LLC	\$700.00
PR	92434	PTD Productions, LLC	\$500.00
PR	90497	Rose Brand Textile	\$1097.01
PR	92351	Rose Brand Textile	\$289.16
PR	90525	The Chapin & Bangs	\$129.60
PR	92303	trailblazer LLC	\$25.15
PR	92356	WM Port Supply #400	\$244.22
PR	91437	X-Streamers.com	\$146.81
		Total Committed	<u>\$18919.83</u>

**Yale School of Drama / Repertory Theatre**

Technical Design and Production Department

Production Estimate ver: Approved

Rep 2 Sets

**Sets**

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Production Estimate ver: Approved

Rep 2 Sets

## Sets

Element Estimates	Build	Load-in	Materials	Rentals	Subtotal	Section Costs
Show Deck	49	46	\$1,955	\$0	\$1,955	
Bog	16	4	\$200	\$0	\$200	
Forest in Bog	24	14	\$120	\$0	\$120	
Falling Tree	6	10	\$45	\$0	\$45	
Pulpit	55	32	\$765	\$0	\$765	
SL Rolling Wagon	18	9	\$210	\$0	\$210	
Stairway on Lift	3	1	\$20	\$0	\$20	
Hydraulic Floating Bed Solution	39	24	\$445	\$0	\$445	
Stove/Bench Lift SR	20	30	\$475	\$0	\$475	
Bigger Part of Rolling Unit	82	31	\$1,515	\$0	\$1,515	
Big Unit Moving Up & Down Stage	36	12	\$725	\$0	\$725	
Smaller Part of Rolling Unit	48	7	\$590	\$0	\$590	
Back Rolldrop on Big Unit	18	9	\$275	\$0	\$275	
Fantasy Bedroom in Big Unit	32	5	\$350	\$0	\$350	
Front Roll Drop on Big Unit	10	2	\$25	\$0	\$25	
Twig Pannels for Big Unit	35	9	\$550	\$0	\$550	
Cutout Trees for Big Unit	36	17	\$1,440	\$0	\$1,440	
Book/Kitchen shelves for Big Unit	44	1	\$365	\$0	\$365	
Cage for BIG Unit	16	1	\$215	\$0	\$215	
Hang'in Rig	13	2	\$135	\$0	\$135	
Picture Light Boxes (5)	4	12	\$705	\$0	\$705	
Header & Legs for Alcove	7	12	\$85	\$0	\$85	
Heavens Gate	22	16	\$810	\$0	\$810	
Heaven Stairs & Wall	39	21	\$645	\$0	\$645	
Swing In Heaven	4	28	\$325	\$0	\$325	
Flower Petals Falling From Heaven	6	12	\$550	\$0	\$550	
Cloak Lift	5	3	\$85	\$0	\$85	
Foot Light Trap	10	7	\$145	\$0	\$145	
Load in	0	0	\$500 (0%)*	\$0	\$500	(no contingency)

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Production Estimate ver: Approved

Rep 2 Sets

## Sets

\*Parenthetical entries indicate a hardware percentage other than 5% (sets) or 0% (props).

Subtotals (rounded)	697	375	\$14,270	\$0	\$14,270	
10% Contingency (rounded)	70	35	\$1,375	\$0	\$1,375	
<b>Totals</b>	<b>767</b>	<b>410</b>	<b>\$15,645</b>	<b>\$0</b>	<b>\$15,645</b>	<b>\$15,645</b>

Labor Estimates	Build	Load-In	Total	Overhire Costs	
Available Labor: staff, workstudy	682	255			
Total Labor Estimate	767	410			
<b>Totals</b>	<b>85</b>	<b>155</b>	<b>240</b>	<b>\$3,596</b>	<b>\$3,596</b>

Overhire calculated at \$15 per hour.

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## Show Deck

### Description

A combination of Built Deck, Custom and Stock Triscuits - This estimate includes time for the removal of the SR sidestage section filled by the Bog

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Cut 2x4 for Stud walls& Sleepers	1	3	3	
3	Cut 5/4 for custom triscuits	1	4	4	
4	Cut Ply	1	4	4	
5	Assemble Triscuits	2	6	12	
5.5	Cut Modifiable Triscuits	1	4	4	
5.7	Add 5/4" to Modified triscuits	2	4	8	
6	Cut Tracks & Trap Holes	2	5	10	
7	Send to Paints	2	2	4	
<b>Total Build</b>				<b>49</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Load triscuits from 149 to Rep	2	4	8	
2	Pull Traps & Beams	4	3	12	
4	Lay Sleepers & Triscuits	4	4.5	18	
5	Lay Finish Floor	4	2	8	
<b>Total Load-In</b>				<b>46</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r203	Modified Stock Triscuits	9	ea	\$0.00	\$0.00
0r282	Stock Triscuits	50	ea	\$0.00	\$0.00
f926	Glue, White Elmer	2	gal.	\$13.35	\$26.70
m403	Lumber, 5/4 x 6 - 16 #2 Pond.	20	ea.	\$9.60	\$192.00
m405	Lumber, 2x4 16 Fir	30	ea.	\$6.62	\$198.60
m413	Plywood, 5/8 Sturdi-Floor	16	ea.	\$25.24	\$403.84
m414	Plywood, 3/4 Sturdi-Floor	15	ea.	\$27.08	\$406.20
m415	Med Density Fiber Board 3/8"	50	ea.	\$12.69	\$634.50
				Hardware Costs (at 5%)	\$93.09
<b>Total Materials with 5% Hardware (Rounded):</b>				<b>\$1,955</b>	

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

<b>Bog</b>					
<b>Description</b>					
Off of SR - 4' off the front of SR Side Stage is being removed to allow for the Bog setup in its place. The Bog has a textured surface muslin textured - Paints will be doing all of the carving and finish					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Cut Plywood & 2x4	1	2	2	
2	Build Frame	1	2	2	
5	Take to Rep	2	1	2	
6	Remove SR Side Stage Floor	2	2	4	
7	Assemble in space	2	3	6	
<b>Total Build</b>				<b>16</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Final Placement of Bog	4	1	4	
<b>Total Load-In</b>				<b>4</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
m354	Muslin, Heavy FP 98"	6	yd.	\$6.25	\$37.50
m405	Lumber, 2x4 16 Fir	7	ea.	\$6.62	\$46.34
m414	Plywood, 3/4 Sturdi-Floor	4	ea.	\$27.08	\$108.32
Hardware Costs (at 5%)					\$9.61
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$200</b>



# Yale School of Drama / Repertory Theatre

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Rep 2 Sets

Unit Estimate: Approved

## Forest in Bog

### Description

The forest consists of a 11'3" tall soft black leg on the upstage side of the bog that goes up into the first catwalk. In front of the leg are 7-10 trees ranging in diameter from 4"-8"

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Obtain Trees & take to Rep	2	8	16	
2	Add rigging points & bases	2	4	8	
<b>Total Build</b>				<b>24</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
2	Setup trees	4	3	12	
3	Setup Stock Leg	2	1	2	
<b>Total Load-In</b>				<b>14</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r201	Stock 1/4" Shackles	30	ea	\$0.00	\$0.00
h477	Screw Hook, #8 x 2-9/16	10	ea.	\$0.18	\$1.80
l4021	Aircraft Cable, 7x19, 1/8 Black Galvanize	100	ft.	\$0.27	\$27.00
lh402	Nico-Press Sleeves, 1/8	20	ea.	\$0.16	\$3.20
lh405	Splicing Thimble, 1/8	20	ea.	\$0.20	\$4.00
lh430	Turnbuckles, 3/8 x 6" Eye to Eye	10	ea.	\$0.00	\$0.00
m401	Lumber, 1x4 16 #2 Pond	5	ea.	\$5.14	\$25.70
m414	Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16
Hardware Costs (at 5%)					\$5.79
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$120</b>

# Yale School of Drama / Repertory Theatre

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Rep 2 Sets

Unit Estimate: Approved

## Falling Tree

### Description

Large Tree in front of the forest - is laid down flat for Act 2 Scene 3 and stood back up for 2-4. Tree also has a trick arrow set into it for a previous scene

### Build

		Number of Crew	Hours per Crew	Total per Task
1	Add hardware to tree	1	2	2
2	Build pivot point	1	2	2
3	Modify arbor as needed to fit REP	1	2	2
<b>Total Build</b>				<b>6</b>

### Load-In

		Number of Crew	Hours per Crew	Total per Task
1	Install arbor	1	1.5	2
2	Run cable	1	2	2
3	Rig and wt. Tree w./arbor	2	2	4
4	Test Falling & Raising	2	1	2
<b>Total Load-In</b>				<b>10</b>

### Materials

		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r201	Stock 1/4" Shackles	12	ea	\$0.00	\$0.00
0r286	Stock Arbor & Pin Rail	1	ea	\$0.00	\$0.00
l4021	Aircraft Cable, 7x19, 1/8 Black Galvanize	120	ft.	\$0.27	\$32.40
lh402	Nico-Press Sleeves, 1/8	12	ea.	\$0.16	\$1.92
lh405	Splicing Thimble, 1/8	12	ea.	\$0.20	\$2.40
m518	Steel Angle, 3/16 x 2 2.44	5	ft.	\$1.07	\$5.35
m560	Steel, Round Stock 1/4 .17	6	ft.	\$0.10	\$0.60
				Hardware Costs (at 5%)	\$2.13
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$45</b>

**Yale School of Drama / Repertory Theatre**

Technical Design and Production Department

Unit Estimate: Approved

Rep 2 Sets

**Pulpit**

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

Description							
A large tracking unit that is 16' tall on a 4' x 6'6" wheeled palette. Includes a standing platform at 6'6" off of base and a practical spiral staircase to allow access to the platform. Also includes a concealed lightbox with frowning picture # 5							
Build				Number of Crew	Hours per Crew	Total per Task	
1	Cut and clean Steel				1	4	4
2	Punch Bolt Holes				1	4	4
3	Weld Frames for Flats				1	6	6
4	Weld Palette Frame				1	4	4
5	Skin Flats				1	4	4
6	Skin Palette				1	2	2
7	Add Tri-Swivels				1	2	2
8	Cut Lumber for Pulpit bulbous detail				1	6	6
9	Assemble Bulb				1	4	4
9.1	Retrieving Spiral Stair from Warehouse				2	2	4
9.2	Adapting Spiral Stair to Palette and Unit				1	2	2
10	Cut & Assemble Crown Molding				1	2	2
11	Attach Molding				2	2	4
12	Transport to Paint Shop				2	2	4
13	Prep Automation				1	3	3
<b>Total Build</b>						<b>55</b>	
Load-In				Number of Crew	Hours per Crew	Total per Task	
1	Load out Paintshop				2	2	4
2	Assemble Frames on Palette				2	4	8
3	Attach Spiral Staircase				2	2	4
4	Add finishing work				1	4	4
6	Install Automation Equip & Reave Cable				2	4	8
7	Calibrate & Test Automation				2	2	4
<b>Total Load-In</b>						<b>32</b>	
Materials			Quantity or Amount	Unit of Sale	Unit Price	Total Price	
0r2249	Misc. Spiral Staircase Parts		1	ea.	\$50.00	\$50.00	
0r235	Stock Casters		4	ea	\$0.00	\$0.00	
0r242	Stock Deck Winch		1	ea	\$0.00	\$0.00	
0r244	Automation Misc. Hardware		1	ea	\$50.00	\$50.00	
0r2667	Stock Moulding		20	ea	\$0.00	\$0.00	
0r2667	Stock Moulding		18	ea	\$0.00	\$0.00	
0r293	3/16 Polycarbonate 4'x8'		1	sheet	\$120.00	\$120.00	
l404	Aircraft Cable, 7x19, 1/4		200	ft.	\$0.09	\$18.00	
m400a	Lumber, 1x6 14 #2 Sugar/Idaho		2	ea.	\$8.55	\$17.10	
m412	Plywood, 1/2 Sturdi-Floor		1	ea.	\$20.33	\$20.33	
m414	Plywood, 3/4 Sturdi-Floor		3	ea.	\$27.08	\$81.24	
m416	Med Density Fiber Board 1/4"		12	ea.	\$11.08	\$132.96	
m500	Steel Plate, 3/16 x 8" x 8"		6	ea.	\$3.90	\$23.40	
m588	Steel, Square Tube .065 1		14	length	\$15.53	\$217.42	
Hardware Costs (at 5%)						\$36.52	
<b>Total Materials with 5% Hardware (Rounded):</b>						<b>\$765</b>	

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## SL Rolling Wagon

### Description

A wedge shaped wagon that travels Diagonally to plaster on SL - during one scene the pulpit nests into it - at the end of the show it must be removed from its track to allow for the big unit to track off stage. The wagon is 4'-6" deep 7' long on the US side 5' on the DS side

Build		Number of Crew	Hours per Crew	Total per Task
1	Cut , clean & Drill steel	1	4	4
2	Weld Frame	1	2	2
3	Cut Ply & MDF	1	2	2
4	Skin Frame	1	1	1
5	Add Casters	1	1	1
6	Prep Automation	1	3	3
7	Build Removable knife	1	4	4
8	Take to Paints	1	1	1
<b>Total Build</b>				<b>18</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Paints to Rep	1	1	1
3	Install Automation Equip & Reave Cable	2	2	4
4	Calibrate & Test Automation	2	2	4
<b>Total Load-In</b>				<b>9</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r235	Stock Casters	4	ea	\$0.00	\$0.00
0r242	Stock Deck Winch	1	ea	\$0.00	\$0.00
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00
l404	Aircraft Cable, 7x19, 1/4	100	ft.	\$0.09	\$9.00
lh407	Nico-Press Sleeves, 1/4	2	ea.	\$0.71	\$1.42
lh408	Splicing Thimble, 1/4	2	ea.	\$0.27	\$0.54
m414	Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16
m415	Med Density Fiber Board 3/8"	3	ea.	\$12.69	\$38.07
m500	Steel Plate, 3/16 x 8" x 8"	4	ea.	\$3.90	\$15.60
m541	Steel Bar, 1/4 x 2 1.70	3	ft.	\$0.84	\$2.52
m585	Steel, Square Tube .049 1	2	length	\$13.62	\$27.24
				Hardware Costs (at 5%)	\$9.93
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$210</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Unit Estimate: Approved

Rep 2 Sets

## Stairway on Lift

### Description

A modified escape staircase from Rep 1 & rail placed on the Bench/Stove lift which acts as a landing

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
2	Cut Plywood & 1x	1	1	1	
5	Build & Attach Rail	1	2	2	
<b>Total Build</b>				<b>3</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
2	Test fit up	1	0.5	1	
<b>Total Load-In</b>				<b>1</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
m400a	Lumber, 1x6 14 #2 Sugar/Idaho	2	ea.	\$8.55	\$17.10
				Hardware Costs (at 5%)	\$0.86
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$20</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## Hydraulic Floating Bed Solution

### Description

Two individual Lifts on 5' cylinders that are manually controlled. The top of the lifts are the deck surface and they sit at the bottom of the cylinders stroke.

Build		Number of Crew	Hours per Crew	Total per Task
1	Cut and Clean Steel	1	4	4
2	Weld Base	1	6	6
3	Weld Beds	1	3	3
4	Attach Hydraulic Cylinders	2	10	20
5	Skin Beds	1	2	2
6	Transport to Paintshop	2	2	4
<b>Total Build</b>				<b>39</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Install Base	2	2	4
2	Install Hydraulic Cylinders	2	2	4
3	Attach Beds	2	4	8
4	Run hoses and test	2	4	8
<b>Total Load-In</b>				<b>24</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r2188	Stock Hydraulic 5' Cylinder	2	ea.	\$0.00	\$0.00
0r2189	Assorted Hydraulic Fittings	1	ea.	\$100.00	\$100.00
0r240	Thatch Texture (3/4" Hemp)	150	ft	\$0.30	\$45.00
0r282	Stock Triscuits	4	ea.	\$0.00	\$0.00
m405	Lumber, 2x4 16 Fir	5	ea.	\$6.62	\$33.10
m414	Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16
m416	Med Density Fiber Board 1/4"	2	ea.	\$11.08	\$22.16
m500	Steel Plate, 3/16 x 8" x 8"	4	ea.	\$3.90	\$15.60
m588	Steel, Square Tube .065 1	10	length	\$15.53	\$155.30
				Hardware Costs (at 5%)	\$21.27
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$445</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## Stove/Bench Lift SR

Description						
Utilizing the stock Deck Winch, with mounted sheaves to raise platform into place. Includes necessary mule sheaves and base plate.						
Build				Number of Crew	Hours per Crew	Total per Task
1	Cut and Clean Steel for Platform			1	2	2
2	Weld Platform			1	2	2
3	Skin Platform			1	1	1
4	Cut Steel For Sheave Tower			1	2	2
5	Assemble Sheave Tower			1	4	4
6	Assemble Mule Block			1	3	3
7	Attach Sheave Towers to Base			1	2	2
7.5	Attach Stabilizers			1	2	2
8	Transport Platform to Paint Shop			2	1	2
<b>Total Build</b>					<b>20</b>	
Load-In				Number of Crew	Hours per Crew	Total per Task
2	Install Deck Winch			2	2	4
3	Install Base and Sheave Towers			2	4	8
3.5	Install Photoeyes			1	2	2
4	Run Wire Rope			2	4	8
5	Configure/Test Control Unit			2	4	8
<b>Total Load-In</b>					<b>30</b>	
Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price	
0r20	Stock 3/16" Cable Sheaves	24	ea	\$0.00	\$0.00	
0r219	Photoeyes	4	ea	\$0.00	\$0.00	
0r242	Stock Deck Winch	1	ea	\$0.00	\$0.00	
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00	
0r2491	Pneumatic Stabilizers	4	ea	\$0.00	\$0.00	
l403	Aircraft Cable, 7x19, 3/16	250	ft.	\$0.06	\$15.00	
lh403	Nico-Press Sleeves, 3/16	12	ea.	\$0.45	\$5.40	
lh406	Splicing Thimble, 3/16	8	ea.	\$0.19	\$1.52	
lh430	Turnbuckles, 3/8 x 6" Eye to Eye	4	ea.	\$0.00	\$0.00	
m414	Plywood, 3/4 Sturdi-Floor	3	ea.	\$27.08	\$81.24	
m416	Med Density Fiber Board 1/4"	1	ea.	\$11.08	\$11.08	
m500	Steel Plate, 3/16 x 8" x 8"	6	ea.	\$3.90	\$23.40	
m517	Steel Angle, 3/16 x 1-1/2 1.80	48	ft.	\$0.80	\$38.40	
m581	Steel, Rect. Tube 1 x 3 .083	4	length	\$44.45	\$177.80	
m588	Steel, Square Tube .065 1	3	length	\$15.53	\$46.59	
Hardware Costs (at 5%)					\$22.52	
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$475</b>	



# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## Bigger Part of Rolling Unit

### Description

SL Section of Main Rolling Wall Unit. Steel hard covered flats with texture TBD. This unit is man powered for rotation and automated for SL-SR tracking. SR Triangle fold for Heaven Scene. Price includes: Flats, Wagons, Second Floor Platform, Doors, Automation, Lighting Positions - The time to texture this unit has been moved into paints - But the materials will still be purchased and preped by scenery

Build		Number of Crew	Hours per Crew	Total per Task
1	Frame and Skin Flats	1	20	20
2	Frame and Skin Platforms	1	8	8
3	Attach Flats and Platforms	2	4	8
4	Build and Skin Doors	1	12	12
5	Hang Doors	1	4	4
5.5	Skin Back for Fiber Optics	1	2	2
5.7	Tech Attachment & Hinging of SR Triangle	2	6	12
6	Prep Texture for Walls	2	4	8
7	Automation Prep	1	8	8
<b>Total Build</b>				<b>82</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Move into Space	6	0.5	3
2	Assemble unit	4	3	12
3	Rigging for L&R track	2	4	8
4	Run Automation Cable for Unit	2	2	4
5	Set Unit in Track and Trouble Shoot	2	2	4
<b>Total Load-In</b>				<b>31</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r240	Thatch Texture (3/4" Hemp)	1000	ft	\$0.30	\$300.00
0r241	Stock Triple Swivel Casters	6	ea	\$0.00	\$0.00
0r242	Stock Deck Winch	1	ea	\$0.00	\$0.00
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00
l404	Aircraft Cable, 7x19, 1/4	200	ft.	\$0.09	\$18.00
m370	Commando, FP Black, 54"	20	yd.	\$4.34	\$86.80
m411	Luan 1/4 AC Interior 5.2	20	ea.	\$9.37	\$187.40
m414	Plywood, 3/4 Sturdi-Floor	8	ea.	\$27.08	\$216.64
m415	Med Density Fiber Board 3/8"	4	ea.	\$12.69	\$50.76
m500	Steel Plate, 3/16 x 8" x 8"	6	ea.	\$3.90	\$23.40
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	40	length	\$12.75	\$510.00
				Hardware Costs (at 5%)	\$72.15
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$1,515</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## Big Unit Moving Up & Down Stage

### Description

This reflects the cost of tracking the large unit up & down stage. Explanation Needed

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Build Sweeps for Corner	1	12	12	
2	Build Sled for Double Track	1	16	16	
3	Time to Cut Extra Track Deck Pieces	1	8	8	
<b>Total Build</b>				<b>36</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Install Sled	2	2	4	
2	Run Extra Cable Run	2	2	4	
3	Tech and Trouble Shoot	2	2	4	
<b>Total Load-In</b>				<b>12</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r223	Baby Triple Swivel Casters	2	each	\$140.00	\$280.00
0r242	Stock Deck Winch	1	ea	\$0.00	\$0.00
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00
m405	Lumber, 2x4 16 Fir	10	ea.	\$6.62	\$66.20
m414	Plywood, 3/4 Sturdi-Floor	10	ea.	\$27.08	\$270.80
m518	Steel Angle, 3/16 x 2 2.44	20	ft.	\$1.07	\$21.40
Hardware Costs (at 5%)					\$34.42
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$725</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## Smaller Part of Rolling Unit

### Description

SR Section of Main Rolling Wall Unit. Steel hard covered flats with Texture TBD. This unit is man powered for split and rotation moves. It pins to Larger Unit for "whole wall" rotation. Price Includes: Flats, Wagon, Door. - The time to texture this unit has been moved into paints - But the materials will still be purchased and preped by scenery

Build		Number of Crew	Hours per Crew	Total per Task
1	Frame and Skin Flats	1	12	12
2	Frame and Skin Platform	1	12	12
3	Attach Platform and Flats	2	2	4
4	Build Door	1	2	2
5	Hang Door	1	1	1
6	Build & Tech Attachment to Big Unit	1	8	8
6.5	Build knives and receivers	1	4	4
7	Skin Back for Fiber Optics	1	1	1
8	Prep Texture Material	2	2	4
<b>Total Build</b>				<b>48</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Move into Space	6	0.5	3
2	Assemble Unit	4	1	4
<b>Total Load-In</b>				<b>7</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r240	Thatch Texture (3/4" Hemp)	500	ft	\$0.30	\$150.00
0r241	Stock Triple Swivel Casters	3	ea	\$0.00	\$0.00
m370	Commando, FP Black, 54"	10	yd.	\$4.34	\$43.40
m411	Luan 1/4 AC Interior 5.2	8	ea.	\$9.37	\$74.96
m414	Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16
m415	Med Density Fiber Board 3/8"	2	ea.	\$12.69	\$25.38
m500	Steel Plate, 3/16 x 8" x 8"	3	ea.	\$3.90	\$11.70
m534	Steel Bar, 3/16 x 1-1/2 .96	20	ft.	\$0.45	\$9.00
m563	Steel, Round Stock 1/2 .67	20	ft.	\$0.36	\$7.20
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	13	length	\$12.75	\$165.75
m601	Pipe, Standard 1/2	1	length	\$20.79	\$20.79
				Hardware Costs (at 5%)	\$28.12
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$590</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

<b>Back Rolldrop on Big Unit</b>					
<b>Description</b>					
Roll drop contains 6 Backdrops for all scenes in Upper Opening of SL Big Wall Unit. Behind roll Drop is neon tube "light box."					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Build Roll Tube Frame	1	6	6	
2	Mount Motor on Tube & Tech	1	6	6	
3	Prep Control System	1	6	6	
<b>Total Build</b>				<b>18</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Move into Space	2	0.25	1	
2	Mount Unit in Big SL Wall Unit	2	1	2	
3	Run Control and Power Cables	1	2	2	
4	Tech & Troubleshoot	2	2	4	
<b>Total Load-In</b>				<b>9</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$25.00
0r247	10' wide Seamless Muslin	25	yd	\$6.00	\$150.00
m592	Steel, Square Tube 1 1/2" x 24' .049 (18ga)	4	length	\$21.61	\$86.44
				Hardware Costs (at 5%)	\$13.07
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$275</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## Fantasy Bedroom in Big Unit

### Description

Hard Side and Back Walls Fold into SL Side of upper section of Big SL Wall Unit. Ceiling is soft and stretched over side walls. Moves into place during "N1" scenes and is struck at intermission. No Bench for this scene.

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task
1	Frame & Skin Flats for Side Walls	1	8	8
2	Assemble & Hinge Walls	1	4	4
3	Build and Skin Bed Frames	1	8	8
3.5	Ceiling Build & Tech	1	8	8
4	Install and Tech Unit	2	2	4
<b>Total Build</b>				<b>32</b>

<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task
1	Move into space	4	0.25	1
2	Assemble and Install Unit	2	2	4
<b>Total Load-In</b>				<b>5</b>

<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r247	10' wide Seamless Muslin	2	yd	\$6.00	\$12.00
0r267	IFR Scenery Netting	1	yd	\$16.00	\$16.00
h452	Patent Stage Screw	6	ea.	\$3.66	\$21.96
h453	Patent Stage Plug (Insert)	6	ea.	\$3.90	\$23.40
h520	Hinge, Strap, Heavy, TP 6	8	ea.	\$3.00	\$24.00
m401	Lumber, 1x4 16 #2 Pond	10	ea.	\$5.14	\$51.40
m414	Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16
m416	Med Density Fiber Board 1/4"	6	ea.	\$11.08	\$66.48
m588	Steel, Square Tube .065 1	4	length	\$15.53	\$62.12
				Hardware Costs (at 5%)	\$16.58
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$350</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

<b>Front Roll Drop on Big Unit</b>					
<b>Description</b>					
Gallows "etching" rises over 2nd level opening at end of hanging scene. Soft Goods w/ hard top edge, raised w/ manuel rigging from lower level. (Poss set at intermission)					
<b>Build</b>			Number of Crew	Hours per Crew	Total per Task
1	Build Guide Track		1	4	4
2	Install Guide track and rigging		1	6	6
<b>Total Build</b>					<b>10</b>
<b>Load-In</b>			Number of Crew	Hours per Crew	Total per Task
1	Move into Space		1	0.25	0
2	Install Unit and Run Rigging		1	2	2
<b>Total Load-In</b>					<b>2</b>
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r247	10' wide Seamless Muslin	2	yd	\$6.00	\$12.00
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	1	length	\$12.75	\$12.75
Hardware Costs (at 5%)					\$1.24
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$25</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## Twig Pannels for Big Unit

### Description

This Drop consists of three flats. One @ 16' h x 7'3"w which top hangs on a track attached to the back of the Big SL Wall Unit. One @ 8' h x 6' w which hinges closed and open over the back of the lower center section of Big SL Wall Unit. One @ 8' h x 7'3" w which is attached to the back of the lower SL section of the Big SL Wall Unit. These are all steel framed units skined in grey muslin and a purchased willow fence

Build		Number of Crew	Hours per Crew	Total per Task
1	Build Frames for Flats	1	6	6
2	Attach Muslin to Flats	2	2	4
2.5	Prep Fences	1	3	3
3	Attach Fence to Frames	2	7	14
4	Attach & Tech Track on Back of Unit	1	8	8
<b>Total Build</b>				<b>35</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Move Unit into Space	2	0.25	1
2	Hang Track on Back of Unit	2	2	4
3	Hang Large Unit	2	1	2
4	Hang & Install Small Units	2	1	2
<b>Total Load-In</b>				<b>9</b>

Materials	Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r2 Est. Shipping Cost	5	ea	\$25.00	\$125.00
0r259 Stock Track Hardware	1	ea	\$0.00	\$0.00
0r265 Lt. Grey Muslin 108"	10	yd	\$7.75	\$77.50
0r299 8'x7.5'Willow Fence	4	ea	\$55.26	\$221.04
m591 Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	8	length	\$12.75	\$102.00
Hardware Costs (at 5%)				\$26.28
<b>Total Materials with 5% Hardware (Rounded):</b>				<b>\$550</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## Cutout Trees for Big Unit

### Description

Steel frame, luan cut-out flats. Top hung track on wall of theater. Unit Splits on "natural" line at center.

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Project and cut out luan skin	1	16	16	
2	Frame, bend and weld	1	16	16	
3	Skin Frame	1	4	4	
<b>Total Build</b>				<b>36</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Move in to Space	4	0.25	1	
2	Hang Track	2	4	8	
3	Hang Trees	4	2	8	
<b>Total Load-In</b>				<b>17</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r207	Built Triple E Track	1	50 feet	\$600.00	\$600.00
0r253	Triple E Return Pulley	1	ea	\$66.53	\$66.53
0r254	Triple E Head Pulley	1	ea	\$83.16	\$83.16
0r255	Triple E Scenery Carriers	4	ea	\$73.66	\$294.64
0r256	3/4" 16g Square Tube	10	20' Stick	\$10.80	\$108.00
m411	Luan 1/4 AC Interior 5.2	10	ea.	\$9.37	\$93.70
m588	Steel, Square Tube .065 1	8	length	\$15.53	\$124.24
				Hardware Costs (at 5%)	\$68.51
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$1,440</b>



# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## Book/Kitchen shelves for Big Unit

### Description

These units hinge into the Lower SL opening of the Big SL Wall Unit. They are draped with black when not in use (ie Cage Scene). Thatched door hangs off the back of the Kitchen Shelf Unit. Kitchen Shelf Unit rolls into place w/ chairs attached (lower section of this unit gets thach texture). This includes Forbidden Book Shelf.

Build		Number of Crew	Hours per Crew	Total per Task	
1	Build Book Case	1	12	12	
2	Frame and Caster Book Case	1	6	6	
3	Hang & Tech Book Case in Opening	2	1	2	
4	Build Kitchen Shelves	1	16	16	
5	Frame and Caster Kitchen Shelves	1	6	6	
6	Hang & Tech Kitchen Shelves in Opening	2	1	2	
<b>Total Build</b>				<b>44</b>	
Load-In		Number of Crew	Hours per Crew	Total per Task	
1	Move units into space	2	0.25	1	
2	Hang Units in Opening	2	0.25	1	
<b>Total Load-In</b>				<b>1</b>	
Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r240	Thatch Texture (3/4" Hemp)	50	ft	\$0.30	\$15.00
0r261	Stock Casters	8	ea	\$0.00	\$0.00
m370	Commando, FP Black, 54"	6	yd.	\$4.34	\$26.04
m411	Luan 1/4 AC Interior 5.2	1	ea.	\$9.37	\$9.37
m412	Plywood, 1/2 Sturdi-Floor	2	ea.	\$20.33	\$40.66
m414	Plywood, 3/4 Sturdi-Floor	8	ea.	\$27.08	\$216.64
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	3	length	\$12.75	\$38.25
				Hardware Costs (at 5%)	\$17.30
<b>Total Materials with 5% Hardware (Rounded):</b>				<b>\$365</b>	

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## Cage for BIG Unit

### Description

Unit plays in Lower SL opening of Big SL Wall Unit. Unit is castered and pushed into position by stagehand.

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Frame Cage	1	12	12	
2	Mount Casters	1	4	4	
<b>Total Build</b>				<b>16</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Move Unit to Theater	2	0.25	1	
<b>Total Load-In</b>				<b>1</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r260	Ball Caster	4	ea	\$20.00	\$80.00
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	2	length	\$12.75	\$25.50
m602	Pipe, Standard 3/4	4	length	\$24.56	\$98.24
				Hardware Costs (at 5%)	\$10.19
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$215</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Unit Estimate: Approved

Rep 2 Sets

## Hang'in Rig

### Description

A bar that is affixed in the top of the big unit to hold 3 nooses for the execution scene - Ropes must not be actual nooses and must be easily escapable. This price includes Bench.

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Cut and Drill Beam for Connections	1	1	1	
2	Tie Ropes/Create Noose	1	3	3	
3	Test Assemble	1	1	1	
4	Build Bench	1	8	8	
<b>Total Build</b>				<b>13</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Insert & Test in Big Unit	2	1	2	
<b>Total Load-In</b>				<b>2</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r298	1" Polypropylene Rope	1	100 ft	\$75.48	\$75.48
h482	Snap Hook, Swivel	3	ea.	\$1.08	\$3.24
m413	Plywood, 5/8 Sturdi-Floor	2	ea.	\$25.24	\$50.48
				Hardware Costs (at 5%)	\$6.46
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$135</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

<b>Picture Light Boxes (5)</b>					
<b>Description</b>					
5 - Light Boxes will be built and lit by Electrics - Props will provide pictures - Scenery will also hang the picture boxes in the space and providing the curtain and rigging. Sizes are approx. 40"x53"					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Build Hangers	1	4	4	
<b>Total Build</b>			<b>4</b>	<b>4</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
2	Hang pictures & Tech	3	4	12	
<b>Total Load-In</b>			<b>12</b>	<b>12</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r204	1/8" Polycarbonate 4'x8'	3	Sheet	\$91.00	\$273.00
0r205	21 oz. Clariet Velour	15	yard	\$15.00	\$225.00
m412	Plywood, 1/2 Sturdi-Floor	3	ea.	\$20.33	\$60.99
m414	Plywood, 3/4 Sturdi-Floor	3	ea.	\$27.08	\$81.24
m416	Med Density Fiber Board 1/4"	3	ea.	\$11.08	\$33.24
Hardware Costs (at 5%)					\$33.67
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$705</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

<b>Header &amp; Legs for Alcove</b>					
<b>Description</b>					
Soft Boarder Hanging in the alcove to drop the height of the opening and two soft covered flats that are 2'x17' to mask the sides					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Pull Border From Stock	1	1	1	
2	cut 1x for frames	1	2	2	
3	Cover frames.	2	2	4	
<b>Total Build</b>				<b>7</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Add Pipe	2	2	4	
2	Hang Border	2	2	4	
3	Install Leg Pannels	2	2	4	
<b>Total Load-In</b>				<b>12</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r2199	Stock Softgoods	0	ea	\$0.00	\$0.00
m370	Commando, FP Black, 54"	12	yd.	\$4.34	\$52.08
m401	Lumber, 1x4 16 #2 Pond	6	ea.	\$5.14	\$30.84
Hardware Costs (at 5%)					\$4.15
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$85</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

<b>Heavens Gate</b>					
<b>Description</b>					
Doublesided pivoting flats with escape doors, hard covered on one side, soft on the back side					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Cut Lumber	1	2	2	
2	Assemble and Skin Flats	1	4	4	
2.5	Cover with Duv	1	4	4	
3	Build Doors	1	2	2	
4	Cut Steel for Pivot	1	2	2	
4.5	Weld Pivot Frame	1	2	2	
4.7	Attach Pillow Blocks	1	2	2	
5	Transport to Paintshop	2	2	4	
			<b>Total Build</b>	<b>22</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
3	Sleeve Flats onto Pivot Pipe	2	1	2	
4	Attach Pivot Pipe to Grid and Deck	2	2	4	
5	Attach Remaining Flats	2	4	8	
6	Install "Secret" Doors	1	2	2	
			<b>Total Load-In</b>	<b>16</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r21	Stock Kee Klamp Floor flange	2	Each	\$0.00	\$0.00
0r2129	Stock Pillow Block	6	ea	\$0.00	\$0.00
0r2666	Rigid Cheeseburger	2	ea	\$0.00	\$0.00
0r278	54" FR 16oz Black Duvetyn	32	yd.	\$4.95	\$158.40
h506	Hinge, Back Flap TP 2	4	ea.	\$1.13	\$4.52
m400a	Lumber, 1x6 14 #2 Sugar/Idaho	30	ea.	\$8.55	\$256.51
m416	Med Density Fiber Board 1/4"	14	ea.	\$11.08	\$155.12
m588	Steel, Square Tube .065 1	6	length	\$15.53	\$93.18
m605	Pipe, Standard 1-1/2 A53B 35KPI	2	length	\$52.71	\$105.42
				Hardware Costs (at 5%)	\$38.66
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$810</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

<b>Heaven Stairs &amp; Wall</b>					
<b>Description</b>					
Angled Step Unit, two 8' x 16' masking flats and one 4'6" x 4'6" Masking Flat. Top of Step Unit is built non-practical, 1/4" mdf facing on all steps. Masking walls are hard covered with paint treatment. Added to this is an additional 2 stock black headers					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Cut Steps and Stiles	1	8	8	
1	Retrieve Stock Stairs From Warehouse	2	2	4	
2	Cut Lumber for stiles	1	4	4	
2.5	assemble Steps	2	4	8	
3	Cut lumber for flats	1	3	3	
4	Assemble and Skin Flats	1	6	6	
5	Attach Pivot Hardware	1	2	2	
6	Transport to Paintshop	2	2	4	
<b>Total Build</b>				<b>39</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
2	Assemble lower step units	4	2	8	
3	Attach Masking flats	2	2	4	
4	Add non-practical steps	2	2	4	
5	add upstage masking flat	2	1	2	
6	Hang 2 black headers	3	1	3	
<b>Total Load-In</b>				<b>21</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r2198	Stock Staircase	4	ea	\$0.00	\$0.00
0r2199	Stock Softgoods	2	ea	\$0.00	\$0.00
m400a	Lumber, 1x6 14 #2 Sugar/Idaho	12	ea.	\$8.55	\$102.60
m405	Lumber, 2x4 16 Fir	8	ea.	\$6.62	\$52.96
m412	Plywood, 1/2 Sturdi-Floor	3	ea.	\$20.33	\$60.99
m414	Plywood, 3/4 Sturdi-Floor	7	ea.	\$27.08	\$189.56
m416	Med Density Fiber Board 1/4"	19	ea.	\$11.08	\$210.52
Hardware Costs (at 5%)					\$30.83
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$645</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## Swing In Heaven

### Description

Swing to fly actor out at end of show. Swing must travel from deck level to approximately 10' with actor, then to grid for storage. Swing Seat is 4' x 1'6" Steel Frame skined with 1/4" Mdf

Build		Number of Crew	Hours per Crew	Total per Task
1	Cut Steel for Swing Seat	1	1	1
2	Weld Seat	1	1	1
3	Skin and Attach Hardware	1	1	1
4	Transport to paint shop	1	1	1
<b>Total Build</b>				<b>4</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
2	Hanging loft blocks	2	6	12
3	Hanging Head Blocks	2	4	8
4	Running Ropes	2	4	8
<b>Total Load-In</b>				<b>28</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r214	3/8" PolyCover/Spectra Core Rope	1	100ft	\$161.28	\$161.28
0r2215	Stock Head Blocks	4	each	\$0.00	\$0.00
0r2269	Stock Sandbag	2	ea.	\$0.00	\$0.00
0r244	Automation Misc. Hardware	2	ea	\$50.00	\$100.00
h439	Bolt, Eye, Forged, 5/16x 4-1/2	2	ea.	\$3.39	\$6.78
m416	Med Density Fiber Board 1/4"	1	ea.	\$11.08	\$11.08
m588	Steel, Square Tube .065 1	2	length	\$15.53	\$31.06
				Hardware Costs (at 5%)	\$15.51
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$325</b>



# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## Flower Petals Falling From Heaven

### Description

When the gates of heaven open flower petals are floating down from the sky - This Number only includes enough confetti to fill the tube once

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task
1	Retrive Tubes from Warehouse	2	1	2
2	Repair Tubes	1	2	2
3	Prep Rigging	1	2	2
<b>Total Build</b>				<b>6</b>

<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task
2	Rig and hang Pipe for tube	2	2	4
3	Hang Tubes	4	1	4
4	Attach Turning Mechanism & Test	2	2	4
<b>Total Load-In</b>				<b>12</b>

<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00
0r281	Stock Snow Roller Tube	1	ea	\$0.00	\$0.00
0r285	Slow Fall Confetti	80	20" Pack	\$5.25	\$420.00
0r297	Stock Poly Rope	1	100 ft	\$0.00	\$0.00
m605	Pipe, Standard 1-1/2 A53B 35KPI	1	length	\$52.71	\$52.71
				Hardware Costs (at 5%)	\$26.14
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$550</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Unit Estimate: Approved

Rep 2 Sets

<b>Cloak Lift</b>						
<b>Description</b>						
a manual pneumatically powered step to raise up Increase to make him appear taller at a selected moment						
<b>Build</b>			Number of Crew	Hours per Crew	Total per Task	
1	Cut & Clean Steel		1	1	1	
2	Weld cylinder frame		1	1	1	
3	Weld step & guides		1	1	1	
4	Assemble & Test		1	2	2	
<b>Total Build</b>					<b>5</b>	
<b>Load-In</b>			Number of Crew	Hours per Crew	Total per Task	
1	Load in to rep & install		1	3	3	
<b>Total Load-In</b>					<b>3</b>	
<b>Materials</b>			Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r292	Stock Pneumatic Cylinder		1	ea	\$0.00	\$0.00
0r295	Pneumatic Hose & Fittings Misc		1	ea	\$50.00	\$25.00
0r296	Stock Solenoid Switches		1	ea	\$0.00	\$0.00
m414	Plywood, 3/4 Sturdi-Floor		1	ea.	\$27.08	\$27.08
m416	Med Density Fiber Board 1/4"		1	ea.	\$11.08	\$11.08
m517	Steel Angle, 3/16 x 1-1/2 1.80		20	ft.	\$0.80	\$16.00
Hardware Costs (at 5%)						\$3.96
<b>Total Materials with 5% Hardware (Rounded):</b>						<b>\$85</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: Approved

## Foot Light Trap

### Description

2 flip open traps in the floor DS that lighting instruments will be mounted on - they will be manually flipped open and closed and will be operated individually. This estimate reflects the time to pull traps and build plugs for the front section of the stage

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task
1	Cut Plywood for flip trap	1	1	1
2	Cut Framing for flip trap	1	1	1
5	Cut Platform Ply, 2x4, & Steel Bar	1	3	3
6	Assemble Floor Plugs	1	3	3
7	Add Flip Trap to plugs	1	2	2
<b>Total Build</b>				<b>10</b>

<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task
1	Paints to Rep	1	1	1
1.5	Pull Stage Traps	2	1.5	3
2	Install	1	3	3
<b>Total Load-In</b>				<b>7</b>

<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
h520	Hinge, Strap, Heavy, TP 6	4	ea.	\$3.00	\$12.00
m405	Lumber, 2x4 16 Fir	7	ea.	\$6.62	\$46.34
m414	Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16
m538	Steel Bar, 3/16 x 4 2.56	7	ft.	\$1.84	\$12.88
m585	Steel, Square Tube .049 1	1	length	\$13.62	\$13.62
				Hardware Costs (at 5%)	\$6.95
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$145</b>

**Yale School of Drama / Repertory Theatre**

Technical Design and Production Department

Unit Estimate: Approved

Rep 2 Sets

<b>No Contingency</b>					<b>Load in</b>
<b>Description</b>					
Standard Load in Line					
<b>Build</b>					<b>Total per Task</b>
		Number of Crew	Hours per Crew		0
<b>Total Build</b>					<b>0</b>
<b>Load-In</b>					<b>Total per Task</b>
		Number of Crew	Hours per Crew		0
<b>Total Load-In</b>					<b>0</b>
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r290	LOAD IN MISC	1	ea	\$500.00	\$500.00
Hardware Costs (at 0%)					\$0.00
<b>Total Materials with 0% Hardware (Rounded):</b>					<b>\$500</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Production Estimate ver: 2nd Pass

Rep 2 Sets

Sets

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Production Estimate ver: 2nd Pass

Rep 2 Sets

## Sets

Element Estimates	Build	Load-in	Materials	Rentals	Subtotal	Section Costs
Show Deck	40	76	\$1,660	\$0	\$1,660	
Bog	22	4	\$225	\$0	\$225	
Forest in Bog	30	18	\$210	\$0	\$210	
Falling Tree	6	10	\$80	\$0	\$80	
Pulpit	55	32	\$875	\$0	\$875	
SL Rolling Wagon	14	9	\$195	\$0	\$195	
Stairway on Lift	8	1	\$50	\$0	\$50	
Hydraulic Floating Bed Solution	39	24	\$400	\$0	\$400	
Stove/Bench Lift SR	18	28	\$620	\$0	\$620	
Bigger Part of Rolling Unit	186	36	\$1,320	\$0	\$1,320	
Big Unit Moving Up & Down Stage	40	12	\$1,015	\$0	\$1,015	
Smaller Part of Rolling Unit	96	7	\$615	\$0	\$615	
Back Rolldrop on Big Unit	18	9	\$400	\$0	\$400	
Fantasy Bedroom in Big Unit	24	5	\$330	\$0	\$330	
Front Roll Drop on Big Unit	10	2	\$45	\$0	\$45	
Twig Pannels for Big Unit	90	9	\$550	\$0	\$550	
Cutout Trees for Big Unit	36	17	\$1,885	\$0	\$1,885	
Book/Kitchen shelves for Big Unit	44	2	\$350	\$0	\$350	
Cage for BIG Unit	16	1	\$215	\$0	\$215	
Hang'in Rig	13	2	\$110	\$0	\$110	
Picture Light Boxes (5)	24	20	\$1,420	\$0	\$1,420	
Header for Alcove	1	8	\$0	\$0	\$0	
Heavens Gate	22	16	\$810	\$0	\$810	
Heaven Stairs & Wall	39	18	\$645	\$0	\$645	
Swing In Heaven	4	28	\$325	\$0	\$325	
Flower Petals Falling From Heaven	6	14	\$625	\$0	\$625	
Cloak Lifts (2)	8	5	\$75	\$0	\$75	
Foot Light Trap	7	7	\$215	\$0	\$215	
Load in	0	0	\$500 (0%)*	\$0	\$500	(no contingency)

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Production Estimate ver: 2nd Pass

Rep 2 Sets

## Sets

\*Parenthetical entries indicate a hardware percentage other than 5% (sets) or 0% (props).

Subtotals (rounded)	916	418	\$15,765	\$0	\$15,765	
10% Contingency (rounded)	90	40	\$1,525	\$0	\$1,525	
<b>Totals</b>	<b>1006</b>	<b>458</b>	<b>\$17,290</b>	<b>\$0</b>	<b>\$17,290</b>	<b>\$17,290</b>

Labor Estimates	Build	Load-In	Total	Overhire Costs	
Available Labor: staff, workstudy	682	255			
Total Labor Estimate	1006	458			
<b>Totals</b>	<b>324</b>	<b>203</b>	<b>527</b>	<b>\$7,901</b>	<b>\$7,901</b>

Overhire calculated at \$15 per hour.

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Show Deck

### Description

A combination of Built Deck, Custom and Stock Triscuits - This estimate includes time for the removal of the SR sidestage section filled by the Bog

Build		Number of Crew	Hours per Crew	Total per Task
1	Cut 2x4 for Stud walls	1	3	3
2	Build Stud walls	1	8	8
3	Cut 5/4 for custom triscuits	1	3	3
4	Cut Ply	1	2	2
5	Assemble Triscuits	2	4	8
6	Cut Tracks & Trap Holes	2	6	12
7	Send to Paints	2	2	4
<b>Total Build</b>				<b>40</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Load triscuits from 149 to Rep	2	4	8
2	Pull Traps & Beams	4	8	32
3	Install Stud Walls	2	4	8
4	Lay Sleepers & Triscuits	4	5	20
5	Lay Finish Floor	4	2	8
<b>Total Load-In</b>				<b>76</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r282	Stock Triscuits	0	ea	\$0.00	\$0.00
f926	Glue, White Elmer	2	gal.	\$13.35	\$26.70
m403	Lumber, 5/4 x 6 - 16 #2 Pond.	12	ea.	\$9.60	\$115.20
m405	Lumber, 2x4 16 Fir	28	ea.	\$6.62	\$185.36
m413	Plywood, 5/8 Sturdi-Floor	16	ea.	\$25.24	\$403.84
m414	Plywood, 3/4 Sturdi-Floor	8	ea.	\$27.08	\$216.64
m415	Med Density Fiber Board 3/8"	50	ea.	\$12.69	\$634.50
				Hardware Costs (at 5%)	\$79.11
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$1,660</b>



# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

<b>Bog</b>					
<b>Description</b>					
Off of SR - 6' off the front of SR Side Stage is being removed to allow for the Bog setup in its place. The Bog has a textured surface muslin textured - Paints will be doing all of the carving and finish					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Cut Plywood & 2x4	1	2	2	
2	Build Frame	1	2	2	
5	Take to Rep	2	1	2	
6	Remove SR Side Stage Floor	2	4	8	
7	Assemble in space	2	4	8	
<b>Total Build</b>				<b>22</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Final Placement of Bog	4	1	4	
<b>Total Load-In</b>				<b>4</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
m354	Muslin, Heavy FP 98"	6	yd.	\$6.25	\$37.50
m405	Lumber, 2x4 16 Fir	10	ea.	\$6.62	\$66.20
m414	Plywood, 3/4 Sturdi-Floor	4	ea.	\$27.08	\$108.32
				Hardware Costs (at 5%)	\$10.60
<b>Total Materials with 5% Hardware (Rounded):</b>				<b>\$225</b>	

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

<b>Forest in Bog</b>					
<b>Description</b>					
The forest consists of a 11'3" tall soft black leg on the upstage side of the bog that goes up into the first catwalk. In front of the leg is several trees					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Obtain Trees	2	8	16	
2	Add rigging points & bases	2	4	8	
7	Transport trees & Flat to paints	2	3	6	
<b>Total Build</b>				<b>30</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Move trees to Rep	2	2	4	
2	Setup trees	4	3	12	
3	Setup Stock Leg	2	1	2	
<b>Total Load-In</b>				<b>18</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
h477	Screw Hook, #8 x 2-9/16	10	ea.	\$0.18	\$1.80
l4021	Aircraft Cable, 7x19, 1/8 Black Galvanize	100	ft.	\$0.27	\$27.00
lh402	Nico-Press Sleeves, 1/8	20	ea.	\$0.16	\$3.20
lh405	Splicing Thimble, 1/8	20	ea.	\$0.20	\$4.00
lh424	Shackle, Forged, 1/4	30	ea.	\$2.83	\$84.90
lh430	Turnbuckles, 3/8 x 6" Eye to Eye	10	ea.	\$0.00	\$0.00
m401	Lumber, 1x4 16 #2 Pond	5	ea.	\$5.14	\$25.70
m414	Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16
Hardware Costs (at 5%)					\$10.04
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$210</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Falling Tree

### Description

Large Tree in front of the forest - is laid down flat for Act 2 Scene 3 and stood back up for 2-4. Tree also has a trick arrow set into it for a previous scene

### Build

		Number of Crew	Hours per Crew	Total per Task
1	Add hardware to tree	1	2	2
2	Build pivot point	1	2	2
3	Modify arbor as needed to fit REP	1	2	2
<b>Total Build</b>				<b>6</b>

### Load-In

		Number of Crew	Hours per Crew	Total per Task
1	Install arbor	1	1.5	2
2	Run cable	1	2	2
3	Rig and wt. Tree w./arbor	2	2	4
4	Test Falling & Raising	2	1	2
<b>Total Load-In</b>				<b>10</b>

### Materials

		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r286	Stock Arbor & Pin Rail	1	ea	\$0.00	\$0.00
h520	Hinge, Strap, Heavy, TP 6	2	ea.	\$3.00	\$6.00
l4021	Aircraft Cable, 7x19, 1/8 Black Galvanize	120	ft.	\$0.27	\$32.40
lh402	Nico-Press Sleeves, 1/8	12	ea.	\$0.16	\$1.92
lh405	Splicing Thimble, 1/8	12	ea.	\$0.20	\$2.40
lh423	Shackle, Forged, 3/16	12	ea.	\$2.35	\$28.20
m518	Steel Angle, 3/16 x 2 2.44	5	ft.	\$1.07	\$5.35
				Hardware Costs (at 5%)	\$3.81
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$80</b>

**Yale School of Drama / Repertory Theatre**

Technical Design and Production Department

Unit Estimate: 2nd Pass

Rep 2 Sets

**Pulpit**

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

Description					
A large tracking unit that is 16' tall on a 4' x 6'6" wheeled palette. Includes a standing platform at 6'6" off of base and a practical spiral staircase to allow access to the platform. Also includes a concealed lightbox with frowning picture # 5					
Build		Number of Crew	Hours per Crew	Total per Task	
1	Cut and clean Steel	1	4	4	
2	Punch Bolt Holes	1	4	4	
3	Weld Frames for Flats	1	6	6	
4	Weld Palette Frame	1	4	4	
5	Skin Flats	1	4	4	
6	Skin Palette	1	2	2	
7	Add Tri-Swivels	1	2	2	
8	Cut Lumber for Pulpit bulbous detail	1	6	6	
9	Assemble Bulb	1	4	4	
9.1	Retrieving Spiral Stair from Warehouse	2	2	4	
9.2	Adapting Spiral Stair to Palette and Unit	1	2	2	
10	Cut & Assemble Crown Molding	1	2	2	
11	Attach Molding	2	2	4	
12	Transport to Paint Shop	2	2	4	
13	Prep Automation	1	3	3	
<b>Total Build</b>				<b>55</b>	
Load-In		Number of Crew	Hours per Crew	Total per Task	
1	Load out Paintshop	2	2	4	
2	Assemble Frames on Palette	2	4	8	
3	Attach Spiral Staircase	2	2	4	
4	Add finishing work	1	4	4	
6	Install Automation Equip & Reave Cable	2	4	8	
7	Calibrate & Test Automation	2	2	4	
<b>Total Load-In</b>				<b>32</b>	
Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r2249	Misc. Spiral Staircase Parts	1	ea.	\$50.00	\$50.00
0r235	Stock Casters	4	ea	\$0.00	\$0.00
0r242	Stock Deck Winch	1	ea	\$0.00	\$0.00
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00
0r287	Tulnoy 266 Crown Molding	18	ft	\$2.80	\$50.40
0r288	Tulnoy Molding 166	20	ft	\$2.64	\$52.80
0r293	3/16 Polycarbonate 4'x8'	1	sheet	\$120.00	\$120.00
l404	Aircraft Cable, 7x19, 1/4	200	ft.	\$0.09	\$18.00
m400a	Lumber, 1x6 14 #2 Sugar/Idaho	2	ea.	\$8.55	\$17.10
m412	Plywood, 1/2 Sturdi-Floor	1	ea.	\$20.33	\$20.33
m414	Plywood, 3/4 Sturdi-Floor	3	ea.	\$27.08	\$81.24
m416	Med Density Fiber Board 1/4"	12	ea.	\$11.08	\$132.96
m500	Steel Plate, 3/16 x 8" x 8"	4	ea.	\$3.90	\$15.60
m500	Steel Plate, 3/16 x 8" x 8"	2	ea.	\$3.90	\$7.80
m588	Steel, Square Tube .065 1	14	length	\$15.53	\$217.42
Hardware Costs (at 5%)				\$41.68	
<b>Total Materials with 5% Hardware (Rounded):</b>				<b>\$875</b>	

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## SL Rolling Wagon

### Description

Wagon travels Diagonally to plaster on SL has a wedge that during one scene the pulpit nests into

Build		Number of Crew	Hours per Crew	Total per Task
1	Cut , clean & Drill steel	1	4	4
2	Weld Frame	1	2	2
3	Cut Ply & MDF	1	2	2
4	Skin Frame	1	1	1
5	Add Casters	1	1	1
6	Prep Automation	1	3	3
8	Take to Paints	1	1	1
<b>Total Build</b>				<b>14</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Paints to Rep	1	1	1
3	Install Automation Equip & Reave Cable	2	2	4
4	Calibrate & Test Automation	2	2	4
<b>Total Load-In</b>				<b>9</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r235	Stock Casters	4	ea	\$0.00	\$0.00
0r242	Stock Deck Winch	1	ea	\$0.00	\$0.00
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00
l404	Aircraft Cable, 7x19, 1/4	80	ft.	\$0.09	\$7.20
lh407	Nico-Press Sleeves, 1/4	2	ea.	\$0.71	\$1.42
lh408	Splicing Thimble, 1/4	2	ea.	\$0.27	\$0.54
lh424	Shackle, Forged, 1/4	2	ea.	\$2.83	\$5.66
m414	Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16
m415	Med Density Fiber Board 3/8"	3	ea.	\$12.69	\$38.07
m500	Steel Plate, 3/16 x 8" x 8"	4	ea.	\$3.90	\$15.60
m541	Steel Bar, 1/4 x 2 1.70	1	ft.	\$0.84	\$0.84
m585	Steel, Square Tube .049 1	1	length	\$13.62	\$13.62
				Hardware Costs (at 5%)	\$9.36
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$195</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Unit Estimate: 2nd Pass

Rep 2 Sets

<b>Stairway on Lift</b>					
<b>Description</b>					
Now are a small stair case & rail placed on the Bench/Stove lift which acts as a landing					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Cut & Clean Steel	1	2	2	
2	Cut Plywood & 1x	1	1	1	
3	Weld frame	1	2	2	
4	Add Treads	1	1	1	
5	Build & Attach Rail	1	2	2	
<b>Total Build</b>				<b>8</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
2	Test fit up	2	0.5	1	
<b>Total Load-In</b>				<b>1</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
m400a	Lumber, 1x6 14 #2 Sugar/Idaho	2	ea.	\$8.55	\$17.10
m588	Steel, Square Tube .065 1	2	length	\$15.53	\$31.06
				Hardware Costs (at 5%)	\$2.41
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$50</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Hydraulic Floating Bed Solution

### Description

Two individual Lifts on 5' cylinders that are manually controlled. The top of the lifts are the deck surface and they sit at the bottom of the cylinders stroke.

Build		Number of Crew	Hours per Crew	Total per Task
1	Cut and Clean Steel	1	4	4
2	Weld Base	1	6	6
3	Weld Beds	1	3	3
4	Attach Hydraulic Cylinders	2	10	20
5	Skin Beds	1	2	2
6	Transport to Paintshop	2	2	4
<b>Total Build</b>				<b>39</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Install Base	2	2	4
2	Install Hydraulic Cylinders	2	2	4
3	Attach Beds	2	4	8
4	Run hoses and test	2	4	8
<b>Total Load-In</b>				<b>24</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r2188	Stock Hydraulic 5' Cylinder	2	ea.	\$0.00	\$0.00
0r2189	Assorted Hydraulic Fittings	1	ea.	\$100.00	\$100.00
0r282	Stock Triscuits	4	ea.	\$0.00	\$0.00
m405	Lumber, 2x4 16 Fir	5	ea.	\$6.62	\$33.10
m414	Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16
m416	Med Density Fiber Board 1/4"	2	ea.	\$11.08	\$22.16
m500	Steel Plate, 3/16 x 8" x 8"	4	ea.	\$3.90	\$15.60
m588	Steel, Square Tube .065 1	10	length	\$15.53	\$155.30
				Hardware Costs (at 5%)	\$19.02
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$400</b>



# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Stove/Bench Lift SR

Description					
Utilizing the stock Deck Winch, with mounted sheaves to raise platform into place. Includes necessary mule sheaves and base plate.					
Build		Number of Crew	Hours per Crew	Total per Task	
1	Cut and Clean Steel for Platform	1	2	2	
2	Weld Platform	1	2	2	
3	Skin Platform	1	1	1	
4	Cut Steel For Sheave Tower	1	2	2	
5	Assemble Sheave Tower	1	4	4	
6	Assemble Mule Block	1	3	3	
7	Attach Sheave Towers to Base	1	2	2	
8	Transport Platform to Paint Shop	2	1	2	
<b>Total Build</b>				<b>18</b>	
Load-In		Number of Crew	Hours per Crew	Total per Task	
2	Install Deck Winch	2	2	4	
3	Install Base and Sheave Towers	2	4	8	
4	Run Wire Rope	2	4	8	
5	Configure/Test Control Unit	2	4	8	
<b>Total Load-In</b>				<b>28</b>	
Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r2224	Sheave, 3/16 Wire Rope	24	ea.	\$6.22	\$149.28
0r242	Stock Deck Winch	1	ea	\$0.00	\$0.00
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00
l403	Aircraft Cable, 7x19, 3/16	250	ft.	\$0.06	\$15.00
lh403	Nico-Press Sleeves, 3/16	12	ea.	\$0.45	\$5.40
lh406	Splicing Thimble, 3/16	8	ea.	\$0.19	\$1.52
lh430	Turnbuckles, 3/8 x 6" Eye to Eye	4	ea.	\$0.00	\$0.00
m414	Plywood, 3/4 Sturdi-Floor	3	ea.	\$27.08	\$81.24
m416	Med Density Fiber Board 1/4"	1	ea.	\$11.08	\$11.08
m500	Steel Plate, 3/16 x 8" x 8"	4	ea.	\$3.90	\$15.60
m517	Steel Angle, 3/16 x 1-1/2 1.80	48	ft.	\$0.80	\$38.40
m581	Steel, Rect. Tube 1 x 3 .083	4	length	\$44.45	\$177.80
m588	Steel, Square Tube .065 1	3	length	\$15.53	\$46.59
Hardware Costs (at 5%)					\$29.60
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$620</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Bigger Part of Rolling Unit

### Description

SL Section of Main Rolling Wall Unit. Steel hard covered flats with texture TBD. This unit is man powered for rotation and automated for SL-SR tracking. SR Triangle fold for Heaven Scene. Price includes: Flats, Wagons, Second Floor Platform, Doors, Automation, Lighting Positions

Build		Number of Crew	Hours per Crew	Total per Task
1	Frame and Skin Flats	1	20	20
2	Frame and Skin Platforms	1	16	16
3	Attach Flats and Platforms	2	8	16
4	Build and Skin Doors	1	12	12
5	Hang Doors	1	8	8
5.5	Skin Back for Fiber Optics	1	2	2
5.7	Tech Attachment & Hinging of SR Triangle	2	6	12
6	Texture Walls	2	40	80
7	Automation Prep	1	20	20
<b>Total Build</b>				<b>186</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Move into Space	6	1	6
2	Assemble unit	4	3	12
3	Rigging for L&R track	2	6	12
4	Run Automation Cable for Unit	1	2	2
5	Set Unit in Track and Trouble Shoot	2	2	4
<b>Total Load-In</b>				<b>36</b>

Materials	Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r241 Stock Triple Swivel Casters	6	ea	\$0.00	\$0.00
0r242 Stock Deck Winch	1	ea	\$0.00	\$0.00
0r244 Automation Misc. Hardware	1	ea	\$50.00	\$50.00
l404 Aircraft Cable, 7x19, 1/4	200	ft.	\$0.09	\$18.00
m370 Commando, FP Black, 54"	20	yd.	\$4.34	\$86.80
m411 Luan 1/4 AC Interior 5.2	20	ea.	\$9.37	\$187.40
m414 Plywood, 3/4 Sturdi-Floor	8	ea.	\$27.08	\$216.64
m415 Med Density Fiber Board 3/8"	4	ea.	\$12.69	\$50.76
m500 Steel Plate, 3/16 x 8" x 8"	6	ea.	\$3.90	\$23.40
m580 Steel, Rect. Tube 1 x 2 .062	8	length	\$29.93	\$239.44
m591 Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	30	length	\$12.75	\$382.50
Hardware Costs (at 5%)				\$62.75
<b>Total Materials with 5% Hardware (Rounded):</b>				<b>\$1,320</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Big Unit Moving Up & Down Stage

### Description

This reflects the cost of tracking the large unit up & down stage. Explanation Needed

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Build Sweeps for Corner	1	12	12	
2	Build Sled for Double Track	1	20	20	
3	Time to Cut Extra Track	1	8	8	
<b>Total Build</b>				<b>40</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Install Sled	2	2	4	
2	Run Extra Cable Run	2	2	4	
3	Tech and Trouble Shoot	2	2	4	
<b>Total Load-In</b>				<b>12</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r223	Baby Triple Swivel Casters	4	each	\$140.00	\$560.00
0r242	Stock Deck Winch	1	ea	\$0.00	\$0.00
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00
m405	Lumber, 2x4 16 Fir	10	ea.	\$6.62	\$66.20
m414	Plywood, 3/4 Sturdi-Floor	10	ea.	\$27.08	\$270.80
m518	Steel Angle, 3/16 x 2 2.44	20	ft.	\$1.07	\$21.40
Hardware Costs (at 5%)					\$48.42
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$1,015</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Smaller Part of Rolling Unit

### Description

SR Section of Main Rolling Wall Unit. Steel hard covered flats with Texture TBD. This unit is man powered for split and rotation moves. It pins to Larger Unit for "whole wall" rotation. Price Includes: Flats, Wagon, Door.

Build		Number of Crew	Hours per Crew	Total per Task
1	Frame and Skin Flats	1	16	16
2	Frame and Skin Platform	1	12	12
3	Attach Platform and Flats	2	2	4
4	Build Door	1	2	2
5	Hang Door	1	1	1
6	Build & Tech Attachment to Big Unit	1	8	8
6.5	Build knives and receivers	1	4	4
7	Skin Back for Fiber Optics	1	1	1
8	Texture Walls	2	24	48
<b>Total Build</b>				<b>96</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Move into Space	6	0.5	3
2	Assemble Unit	4	1	4
<b>Total Load-In</b>				<b>7</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r240	Thatch Texture (3/4" Hemp)	200	ft	\$0.75	\$150.00
0r241	Stock Triple Swivel Casters	3	ea	\$0.00	\$0.00
m370	Commando, FP Black, 54"	10	yd.	\$4.34	\$43.40
m411	Luan 1/4 AC Interior 5.2	8	ea.	\$9.37	\$74.96
m414	Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16
m415	Med Density Fiber Board 3/8"	2	ea.	\$12.69	\$25.38
m500	Steel Plate, 3/16 x 8" x 8"	3	ea.	\$3.90	\$11.70
m534	Steel Bar, 3/16 x 1-1/2 .96	20	ft.	\$0.45	\$9.00
m563	Steel, Round Stock 1/2 .67	20	ft.	\$0.36	\$7.20
m580	Steel, Rect. Tube 1 x 2 .062	2	length	\$29.93	\$59.86
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	10	length	\$12.75	\$127.50
m601	Pipe, Standard 1/2	1	length	\$20.79	\$20.79
				Hardware Costs (at 5%)	\$29.20
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$615</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

<b>Back Rolldrop on Big Unit</b>					
<b>Description</b>					
Roll drop contains 6 Backdrops for all scenes in Upper Opening of SL Big Wall Unit. Behind roll Drop is neon tube "light box."					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Build Roll Tube Frame	1	6	6	
2	Mount Motor on Tube & Tech	1	6	6	
3	Prep Control System	1	6	6	
<b>Total Build</b>				<b>18</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Move into Space	2	0.25	1	
2	Mount Unit in Big SL Wall Unit	2	1	2	
3	Run Control and Power Cables	1	2	2	
4	Tech & Troubleshoot	2	2	4	
<b>Total Load-In</b>				<b>9</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$25.00
0r247	10' wide Seamless Muslin	25	yd	\$6.00	\$150.00
0r249	Roll Drop Tube	1	ea	\$100.00	\$100.00
m590	Steel, Square Tube 1 1/2" 16 ga.	4	length	\$26.87	\$107.48
				Hardware Costs (at 5%)	\$19.12
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$400</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Fantasy Bedroom in Big Unit

### Description

Hard Side and Back Walls Fold into SL Side of upper section of Big SL Wall Unit. Ceiling is soft and stretched over side walls. Moves into place during "N1" scenes and is struck at intermission. No Bench for this scene?

Build		Number of Crew	Hours per Crew	Total per Task
1	Frame & Skin Flats for Side Walls	1	8	8
2	Assemble & Hinge Walls	1	4	4
3	Build and Skin Bed Frames	1	8	8
4	Install and Tech Unit	2	2	4
<b>Total Build</b>				<b>24</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Move into space	4	0.25	1
2	Assemble and Install Unit	2	2	4
<b>Total Load-In</b>				<b>5</b>

Materials	Quantity or Amount	Unit of Sale	Unit Price	Total Price
h452 Patent Stage Screw	6	ea.	\$3.66	\$21.96
h453 Patent Stage Plug (Insert)	6	ea.	\$3.90	\$23.40
h520 Hinge, Strap, Heavy, TP 6	8	ea.	\$3.00	\$24.00
m354 Muslin, Heavy FP 98"	2	yd.	\$6.25	\$12.50
m401 Lumber, 1x4 16 #2 Pond	10	ea.	\$5.14	\$51.40
m414 Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16
m416 Med Density Fiber Board 1/4"	6	ea.	\$11.08	\$66.48
m588 Steel, Square Tube .065 1	4	length	\$15.53	\$62.12
Hardware Costs (at 5%)				\$15.80
<b>Total Materials with 5% Hardware (Rounded):</b>				<b>\$330</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Front Roll Drop on Big Unit

Description						
Gallows "etching" rises over 2nd level opening at end of hanging scene. Soft Goods w/ hard top edge, raised w/ manuel rigging from lower level. (Poss set at intermission)						
Build				Number of Crew	Hours per Crew	Total per Task
1	Build Guide Track			1	4	4
2	Install Guide track and rigging			1	6	6
<b>Total Build</b>						<b>10</b>
Load-In				Number of Crew	Hours per Crew	Total per Task
1	Move into Space			1	0.25	0
2	Install Unit and Run Rigging			1	2	2
<b>Total Load-In</b>						<b>2</b>
Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price	
0r247	10' wide Seamless Muslin	2	yd	\$6.00	\$12.00	
m580	Steel, Rect. Tube 1 x 2 .062	1	length	\$29.93	\$29.93	
Hardware Costs (at 5%)					\$2.10	
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$45</b>	

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Twig Pannels for Big Unit

### Description

This Drop consists of three flats. One @ 16' h x 7'3"w which top hangs on a track attached to the back of the Big SL Wall Unit. One @ 8' h x 6' w which hinges closed and open over the back of the lower center section of Big SL Wall Unit. One @ 8' h x 7'3" w which is attached to the back of the lower SL section of the Big SL Wall Unit. These are all steel framed units skined in gauze and painted ethofoam.

Build		Number of Crew	Hours per Crew	Total per Task
1	Build Frames for Flats	1	6	6
2	Attach Gauze to Flats	2	2	4
3	Attach Ethofoam to Gauze	2	32	64
4	Hang & Tech Track on Back of unit	2	8	16
<b>Total Build</b>				<b>90</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Move Unit into Space	2	0.25	1
2	Hang Track on Back of Unit	2	2	4
3	Hang Large Unit	2	1	2
4	Hang & Install Small Units	2	1	2
<b>Total Load-In</b>				<b>9</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r247	10' wide Seamless Muslin	10	yd	\$6.00	\$60.00
0r251	7/8" Etho-foam	2	1000 ft	\$86.81	\$173.62
0r257	1-1/8" Etho-foam	2	500' Box	\$53.50	\$107.00
0r258	1-1/2" Etho-foam	1	350' Box	\$79.56	\$79.56
0r259	Stock Track Hardware	1	ea	\$0.00	\$0.00
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	8	length	\$12.75	\$102.00
				Hardware Costs (at 5%)	\$26.11
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$550</b>



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Rep 2 Sets

Unit Estimate: 2nd Pass

## Cutout Trees for Big Unit

### Description

Steel frame, luan cut-out flats. Top hung track on wall of theater. Unit Splits on "natural" line at center. This price includes framed storage flats to hide unit offstage.

Build		Number of Crew	Hours per Crew	Total per Task
1	Project and cut out luan skin	1	16	16
2	Frame, bend and weld	1	16	16
3	Skin Frame	1	4	4
<b>Total Build</b>				<b>36</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Move in to Space	4	0.25	1
2	Hang Track	2	4	8
3	Hang Trees	4	2	8
<b>Total Load-In</b>				<b>17</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r252	Triple E Black Track	8	6'6"	\$128.30	\$1,026.40
0r253	Triple E Return Pulley	1	ea	\$66.53	\$66.53
0r254	Triple E Head Pulley	1	ea	\$83.16	\$83.16
0r255	Triple E Scenery Carriers	4	ea	\$73.66	\$294.64
0r256	3/4" 16g Square Tube	10	20' Stick	\$10.80	\$108.00
m411	Luan 1/4 AC Interior 5.2	10	ea.	\$9.37	\$93.70
m588	Steel, Square Tube .065 1	8	length	\$15.53	\$124.24
				Hardware Costs (at 5%)	\$89.83
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$1,885</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Book/Kitchen shelves for Big Unit

### Description

These units hinge into the Lower SL opening of the Big SL Wall Unit. They are draped with black when not in use (ie Cage Scene). Thatched door hangs off the face on one of there units TBD. This includes Forbidden Book Shelf.

Build		Number of Crew	Hours per Crew	Total per Task
1	Build Book Case	1	12	12
2	Frame and Caster Book Case	1	6	6
3	Hang & Tech Book Case in Opening	2	1	2
4	Build Kitchen Shelves	1	16	16
5	Frame and Caster Kitchen Shelves	1	6	6
6	Hang & Tech Kitchen Shelves in Opening	2	1	2
<b>Total Build</b>				<b>44</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Move units into space	4	0.25	1
2	Hang Units in Opening	2	0.25	1
<b>Total Load-In</b>				<b>2</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r261	Stock Casters	8	ea	\$0.00	\$0.00
m370	Commando, FP Black, 54"	6	yd.	\$4.34	\$26.04
m412	Plywood, 1/2 Sturdi-Floor	2	ea.	\$20.33	\$40.66
m414	Plywood, 3/4 Sturdi-Floor	8	ea.	\$27.08	\$216.64
m415	Med Density Fiber Board 3/8"	1	ea.	\$12.69	\$12.69
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	3	length	\$12.75	\$38.25
				Hardware Costs (at 5%)	\$16.71
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$350</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Cage for BIG Unit

### Description

Unit plays in Lower SL opening of Big SL Wall Unit. Unit is castered and pushed into position by stagehand.

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Frame Cage	1	12	12	
2	Mount Casters	1	4	4	
<b>Total Build</b>				<b>16</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Move Unit to Theater	2	0.25	1	
<b>Total Load-In</b>				<b>1</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r260	Ball Caster	4	ea	\$20.00	\$80.00
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	2	length	\$12.75	\$25.50
m602	Pipe, Standard 3/4	4	length	\$24.56	\$98.24
				Hardware Costs (at 5%)	\$10.19
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$215</b>

# Yale School of Drama / Repertory Theatre

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Unit Estimate: 2nd Pass

Rep 2 Sets

## Hang'in Rig

### Description

A bar that is affixed in the top of the big unit to hold 3 nooses for the execution scene - Ropes must not be actual nooses and must be easily escapable. This price includes Bench.

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Cut and Drill Beam for Connections	1	1	1	
2	Tie Ropes/Create Noose	1	3	3	
3	Test Assemble	1	1	1	
4	Build Bench	1	8	8	
<b>Total Build</b>				<b>13</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Insert & Test in Big Unit	2	1	2	
<b>Total Load-In</b>				<b>2</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r294	1" Manila Rope	1	100 ft	\$103.64	\$51.82
h482	Snap Hook, Swivel	3	ea.	\$1.08	\$3.24
m413	Plywood, 5/8 Sturdi-Floor	2	ea.	\$25.24	\$50.48
Hardware Costs (at 5%)					\$5.28
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$110</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Picture Light Boxes (5)

### Description

5 - Light Boxes will be built by scenery with rigging for an operational curtain - Electrics will provide lights - Props will provide pictures - Scenery will also hang the picture boxes in the space. Size 40"x53"

Build		Number of Crew	Hours per Crew	Total per Task	
1	Cut 2x4	1	1	1	
2	Cut Sheet goods	1	3	3	
3	Assemble Boxes	1	4	4	
6	Create Rigging & Ropes	1	5	5	
7	Build Curtain Track	1	4	4	
8	Cut Polycarb	1	2	2	
9	Attach Polycarb to boxes	1	3	3	
10	Take to Paints	2	1	2	
<b>Total Build</b>				<b>24</b>	
Load-In		Number of Crew	Hours per Crew	Total per Task	
2	Hang pictures	3	4	12	
3	Add Curtain Rigging	2	4	8	
<b>Total Load-In</b>				<b>20</b>	
Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r293	3/16 Polycarbonate 4'x8'	5	sheet	\$120.00	\$600.00
0r294	1" Manila Rope	3	100 ft	\$103.64	\$310.92
l301	Rope, Blk Double Braided Poly, 1/4	600	ft.	\$0.12	\$72.00
l4021	Aircraft Cable, 7x19, 1/8 Black Galvanize	70	ft.	\$0.27	\$18.90
lh402	Nico-Press Sleeves, 1/8	10	ea.	\$0.16	\$1.60
lh405	Splicing Thimble, 1/8	10	ea.	\$0.20	\$2.00
m405	Lumber, 2x4 16 Fir	5	ea.	\$6.62	\$33.10
m412	Plywood, 1/2 Sturdi-Floor	10	ea.	\$20.33	\$203.30
m416	Med Density Fiber Board 1/4"	10	ea.	\$11.08	\$110.80
				Hardware Costs (at 5%)	\$67.63
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$1,420</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Unit Estimate: 2nd Pass

Rep 2 Sets

<b>Header for Alcove</b>					
<b>Description</b>					
Hard flats to mask top of alcove to 16'. Consists of 7 4'x 7'8" flats hard covered with hanging hardware on backside					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Pull Border From Stock	1	1	1	
<b>Total Build</b>				<b>1</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Add Pipe	2	2	4	
2	Hang Border	2	2	4	
<b>Total Load-In</b>				<b>8</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r2199	Stock Softgoods	0	ea	\$0.00	\$0.00
				Hardware Costs (at 5%)	\$0.00
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$0</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

<b>Heavens Gate</b>					
<b>Description</b>					
Doublesided pivoting flats with escape doors					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Cut Lumber	1	2	2	
2	Assemble and Skin Flats	1	8	8	
3	Build Doors	1	2	2	
4	Cut Steel for Pivot	1	2	2	
4.5	Weld Pivot Frame	1	2	2	
4.7	Attach Pillow Blocks	1	2	2	
5	Transport to Paintshop	2	2	4	
<b>Total Build</b>				<b>22</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
3	Sleeve Flats onto Pivot Pipe	2	1	2	
4	Attach Pivot Pipe to Grid and Deck	2	2	4	
5	Attach Remaining Flats	2	4	8	
6	Install "Secret" Doors	1	2	2	
<b>Total Load-In</b>				<b>16</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r21	Stock Kee Klamp Floor flange	2	Each	\$0.00	\$0.00
0r2129	Stock Pillow Block	6	ea	\$0.00	\$0.00
0r2666	Rigid Cheeseburger	2	ea	\$0.00	\$0.00
h506	Hinge, Back Flap TP 2	4	ea.	\$1.13	\$4.52
m400a	Lumber, 1x6 14 #2 Sugar/Idaho	30	ea.	\$8.55	\$256.51
m416	Med Density Fiber Board 1/4"	28	ea.	\$11.08	\$310.24
m588	Steel, Square Tube .065 1	6	length	\$15.53	\$93.18
m605	Pipe, Standard 1-1/2 A53B 35KPI	2	length	\$52.71	\$105.42
Hardware Costs (at 5%)					\$38.49
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$810</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

<b>Heaven Stairs &amp; Wall</b>					
<b>Description</b>					
Angled Step Unit, two 8' x 16' masking flats and one 4'6" x 4'6" Masking Flat. Top of Step Unit is built non-practical, 1/4" mdf facing on all steps. Masking walls are hard covered with paint treatment. Estimate does not include paint.					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Retrieve Stock Stairs From Warehouse	2	2	4	
1	Cut Steps and Stiles	1	8	8	
2	Cut Lumber for stiles	1	4	4	
2.5	assemble Steps	2	4	8	
3	Cut lumber for flats	1	3	3	
4	Assemble and Skin Flats	1	6	6	
5	Attach Pivot Hardware	1	2	2	
6	Transport to Paintshop	2	2	4	
<b>Total Build</b>				<b>39</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
2	Assemble lower step units	4	2	8	
3	Attach Masking flats	2	2	4	
4	Add non-practical steps	2	2	4	
5	add upstage masking flat	2	1	2	
<b>Total Load-In</b>				<b>18</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r2198	Stock Staircase	4	ea	\$0.00	\$0.00
m400a	Lumber, 1x6 14 #2 Sugar/Idaho	12	ea.	\$8.55	\$102.60
m405	Lumber, 2x4 16 Fir	8	ea.	\$6.62	\$52.96
m412	Plywood, 1/2 Sturdi-Floor	3	ea.	\$20.33	\$60.99
m414	Plywood, 3/4 Sturdi-Floor	7	ea.	\$27.08	\$189.56
m416	Med Density Fiber Board 1/4"	19	ea.	\$11.08	\$210.52
				Hardware Costs (at 5%)	\$30.83
<b>Total Materials with 5% Hardware (Rounded):</b>				<b>\$645</b>	



# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Swing In Heaven

### Description

Swing to fly actor out at end of show. Swing must travel from deck level to approximately 10' with actor, then to grid for storage. Swing Seat is 4' x 1'6" Steel Frame skined with 1/4" Mdf

Build		Number of Crew	Hours per Crew	Total per Task
1	Cut Steel for Swing Seat	1	1	1
2	Weld Seat	1	1	1
3	Skin and Attach Hardware	1	1	1
4	Transport to paint shop	1	1	1
<b>Total Build</b>				<b>4</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
2	Hanging loft blocks	2	6	12
3	Hanging Head Blocks	2	4	8
4	Running Ropes	2	4	8
<b>Total Load-In</b>				<b>28</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r214	3/8" PolyCover/Spectra Core Rope	1	100ft	\$161.28	\$161.28
0r2215	Stock Head Blocks	4	each	\$0.00	\$0.00
0r2269	Stock Sandbag	2	ea.	\$0.00	\$0.00
0r244	Automation Misc. Hardware	2	ea	\$50.00	\$100.00
h439	Bolt, Eye, Forged, 5/16x 4-1/2	2	ea.	\$3.39	\$6.78
m416	Med Density Fiber Board 1/4"	1	ea.	\$11.08	\$11.08
m588	Steel, Square Tube .065 1	2	length	\$15.53	\$31.06
				Hardware Costs (at 5%)	\$15.51
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$325</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Flower Petals Falling From Heaven

### Description

When the gates of heaven open flower petals are floating down from the sky - This Number only includes enough confetti to fill the tube once

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Retrive Tubes from Warehouse	2	1	2	
2	Repair Tubes	1	2	2	
3	Prep Rigging	1	2	2	
<b>Total Build</b>				<b>6</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
2	Rig and hang Pipe for tube	2	3	6	
3	Hang Tubes	4	1	4	
4	Attach Turning Mechanism & Test	2	2	4	
<b>Total Load-In</b>				<b>14</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00
0r281	Stock Snow Roller Tube	1	ea	\$0.00	\$0.00
0r285	Slow Fall Confetti	80	20" Pack	\$5.25	\$420.00
l304	Rope, Blk Double Braided Poly, 5/8	100	ft.	\$0.74	\$74.00
m605	Pipe, Standard 1-1/2 A53B 35KPI	1	length	\$52.71	\$52.71
				Hardware Costs (at 5%)	\$29.84
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$625</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Cloak Lifts (2)

Description						
2 manual pneumatically powered steps to raise up Increase to make him appear taller						
Build				Number of Crew	Hours per Crew	Total per Task
1	Cut & Clean Steel			1	2	2
2	Weld cylinder frames			1	2	2
3	Weld step & guides			1	2	2
4	Assemble & Test			1	2	2
				<b>Total Build</b>		<b>8</b>
Load-In				Number of Crew	Hours per Crew	Total per Task
1	Load in to rep & install			1	5	5
				<b>Total Load-In</b>		<b>5</b>
Materials			Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r292	Stock Pneumatic Cylinder		2	ea	\$0.00	\$0.00
m414	Plywood, 3/4 Sturdi-Floor		1	ea.	\$27.08	\$27.08
m416	Med Density Fiber Board 1/4"		1	ea.	\$11.08	\$11.08
m517	Steel Angle, 3/16 x 1-1/2 1.80		40	ft.	\$0.80	\$32.00
			Hardware Costs (at 5%)			\$3.51
			<b>Total Materials with 5% Hardware (Rounded):</b>			<b>\$75</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 2nd Pass

## Foot Light Trap

### Description

3 flip open traps in the floor that lighting instruments will be mounted on

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Cut Plywood	1	2	2	
2	Cut Framing	1	1	1	
3	Build Custom Floor Plugs & Flip Pannels	1	3	3	
4	Take to paints	1	1	1	
<b>Total Build</b>				<b>7</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Paints to Rep	1	1	1	
2	Test Set up	1	2	2	
3	Add & Test Rigging	2	2	4	
<b>Total Load-In</b>				<b>7</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r291	Misc Rigging Hardware	3	ea	\$25.00	\$75.00
m405	Lumber, 2x4 16 Fir	4	ea.	\$6.62	\$26.48
m414	Plywood, 3/4 Sturdi-Floor	3	ea.	\$27.08	\$81.24
m601	Pipe, Standard 1/2	1	length	\$20.79	\$20.79
				Hardware Costs (at 5%)	\$10.18
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$215</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Unit Estimate: 2nd Pass

Rep 2 Sets

No Contingency					Load in
<b>Description</b>					
Standard Load in Line					
<b>Build</b>				Number of Crew	Hours per Crew
					Total per Task
					0
<b>Total Build</b>					<b>0</b>
<b>Load-In</b>				Number of Crew	Hours per Crew
					Total per Task
					0
<b>Total Load-In</b>					<b>0</b>
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r290	LOAD IN MISC	1	ea	\$500.00	\$500.00
Hardware Costs (at 0%)					\$0.00
<b>Total Materials with 0% Hardware (Rounded):</b>					<b>\$500</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Production Estimate ver: 1st Pass REP2 05

Rep 2 Sets

Sets

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Production Estimate ver: 1st Pass REP2 05

Rep 2 Sets

## Sets

Element Estimates	Build	Load-in	Materials	Rentals	Subtotal	Section Costs
Show Deck	28	88	\$1,630	\$0	\$1,630	
Bog	23	4	\$465	\$0	\$465	
Forest in Bog	36	18	\$335	\$0	\$335	
Falling Tree	6	10	\$80	\$0	\$80	
Pulpit	55	50	\$1,335	\$0	\$1,335	
SL Rolling Wagon	16	23	\$745	\$0	\$745	
Stair Way Traps (2)	57	28	\$420	\$0	\$420	
Front Roll Drop on Big Unit	10	2	\$95	\$0	\$95	
Beds & Lift for Beds	20	82	\$705	\$0	\$705	
Seesaw bed effect	27	23	\$330	\$0	\$330	
Stove/Bench Lift SR	18	42	\$620	\$0	\$620	
Bigger Part of Rolling Unit	216	40	\$1,465	\$0	\$1,465	
Big Unit Moving Up & Down Stage	40	16	\$2,065	\$0	\$2,065	
Smaller Part of Rolling Unit	119	7	\$685	\$0	\$685	
Back Rolldrop on Big Unit	18	9	\$535	\$0	\$535	
Fantasy Bedroom in Big Unit	24	5	\$330	\$0	\$330	
Twig Pannels for Big Unit	90	9	\$720	\$0	\$720	
Roll Drop for Behind the Twig Pannels	26	11	\$570	\$0	\$570	
Cutout Trees for Big Unit	48	31	\$2,135	\$0	\$2,135	
Book/Kitchen shelves for Big Unit	44	2	\$350	\$0	\$350	
Cage for BIG Unit	16	1	\$215	\$0	\$215	
Hang'in Rig	13	2	\$190	\$0	\$190	
Picture Light Boxes (4)	15	32	\$410	\$0	\$410	
Header for Alcove	25	28	\$275	\$0	\$275	
Heavens Gate	18	30	\$880	\$0	\$880	
Heaven Stairs & Wall	39	22	\$1,075	\$0	\$1,075	
Swing In Heaven	4	29	\$325	\$0	\$325	
Roll drop with Flower Petals	6	18	\$845	\$0	\$845	
Cloak Lifts (2)	0	0	\$0	\$0	\$0	
Foot Light Trap	0	0	\$0	\$0	\$0	

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Production Estimate ver: 1st Pass REP2 05

Rep 2 Sets

## Sets

\*Parenthetical entries indicate a hardware percentage other than 5% (sets) or 0% (props).

Subtotals (rounded)	1057	660	\$19,830	\$0	\$19,830	
10% Contingency (rounded)	105	65	\$1,985	\$0	\$1,985	
<b>Totals</b>	<b>1162</b>	<b>725</b>	<b>\$21,815</b>	<b>\$0</b>	<b>\$21,815</b>	<b>\$21,815</b>

Labor Estimates	Build	Load-In	Total	Overhire Costs	
Available Labor: staff, workstudy	682	255			
Total Labor Estimate	1162	725			
<b>Totals</b>	<b>480</b>	<b>470</b>	<b>950</b>	<b>\$14,246</b>	<b>\$14,246</b>

Overhire calculated at \$15 per hour.



# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Show Deck

### Description

A combination of Built Deck, Custom and Stock Triscuits

Build		Number of Crew	Hours per Crew	Total per Task
1	Cut 2x4 for Stud walls	1	3	3
2	Build Stud walls	1	8	8
3	Cut 5/4 for custom triscuits	1	3	3
4	Cut Ply	1	2	2
5	Assemble Triscuits	2	4	8
6	Send to Paints	2	2	4

**Total Build 28**

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Load triscuits from 149 to Rep	2	4	8
2	Pull Traps & Beams	4	8	32
3	Install Stud Walls	2	4	8
4	Lay Sleepers & Triscuits	4	5	20
5	Lay Finish Floor	4	2	8
6	Cut Tracks & Trap Holes	2	6	12

**Total Load-In 88**

Materials	Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r282 Stock Triscuits	0	ea	\$0.00	\$0.00
f926 Glue, White Elmer	2	gal.	\$13.35	\$26.70
m403 Lumber, 5/4 x 6 - 16 #2 Pond.	16	ea.	\$9.60	\$153.60
m405 Lumber, 2x4 16 Fir	26	ea.	\$6.62	\$172.12
m413 Plywood, 5/8 Sturdi-Floor	16	ea.	\$25.24	\$403.84
m414 Plywood, 3/4 Sturdi-Floor	6	ea.	\$27.08	\$162.48
m415 Med Density Fiber Board 3/8"	50	ea.	\$12.69	\$634.50

Hardware Costs (at 5%) \$77.66

**Total Materials with 5% Hardware (Rounded): \$1,630**

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

<b>Bog</b>						
<b>Description</b>						
Off of SR - 6' off the front of SR Side Stage is being removed to allow for the Bog setup in its place. The Bog has a textured surface carved out of 6" of foam board - Paints will be doing all of the carving and finish						
<b>Build</b>				Number of Crew	Hours per Crew	Total per Task
1	Cut Plywood & 2x4			1	2	2
2	Build Frame			1	2	2
3	Cut Foam			1	2	2
4	Laminate Foam			2	3.5	7
5	Take to Rep			2	1	2
6	Assemble in space			2	4	8
<b>Total Build</b>						<b>23</b>
<b>Load-In</b>				Number of Crew	Hours per Crew	Total per Task
1	Final Placement of Bog			4	1	4
<b>Total Load-In</b>						<b>4</b>
<b>Materials</b>			Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r283	2" 4'x8" Pink Board Foam		9	sheet	\$15.00	\$135.00
0r284	H2O Foam adhesive		2	gal	\$40.00	\$80.00
m405	Lumber, 2x4 16 Fir		10	ea.	\$6.62	\$66.20
m414	Plywood, 3/4 Sturdi-Floor		6	ea.	\$27.08	\$162.48
					Hardware Costs (at 5%)	\$22.18
<b>Total Materials with 5% Hardware (Rounded):</b>						<b>\$465</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

<b>Forest in Bog</b>					
<b>Description</b>					
The forest consists of a 11'3" tall black flat on the upstage side of the bog that goes up into the first catwalk. In front of the flat are several trees					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Obtain Trees	2	8	16	
2	Add rigging points & bases	2	4	8	
3	Cut & Clean Steel	1	2	2	
4	Weld Frame	1	1	1	
5	Cut MDF	1	1	1	
6	Skin Frame	2	1	2	
7	Transport trees & Flat to paints	2	3	6	
<b>Total Build</b>				<b>36</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Move trees to Rep	2	2	4	
2	Setup trees	4	3	12	
3	Setup flat	2	1	2	
<b>Total Load-In</b>				<b>18</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
h477	Screw Hook, #8 x 2-9/16	10	ea.	\$0.18	\$1.80
l4021	Aircraft Cable, 7x19, 1/8 Black Galvanize	100	ft.	\$0.27	\$27.00
lh402	Nico-Press Sleeves, 1/8	20	ea.	\$0.16	\$3.20
lh405	Splicing Thimble, 1/8	20	ea.	\$0.20	\$4.00
lh424	Shackle, Forged, 1/4	30	ea.	\$2.83	\$84.90
lh430	Turnbuckles, 3/8 x 6" Eye to Eye	10	ea.	\$0.00	\$0.00
m401	Lumber, 1x4 16 #2 Pond	6	ea.	\$5.14	\$30.84
m414	Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16
m416	Med Density Fiber Board 1/4"	6	ea.	\$11.08	\$66.48
m588	Steel, Square Tube .065 1	3	length	\$15.53	\$46.59
				Hardware Costs (at 5%)	\$15.95
<b>Total Materials with 5% Hardware (Rounded):</b>				<b>\$335</b>	

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Falling Tree

### Description

Large Tree in front of the forest - is laid down flat for Act 2 Scene 3 and stood back up for 2-4. Tree also has a trick arrow set into it for a previous scene

### Build

		Number of Crew	Hours per Crew	Total per Task
1	Add hardware to tree	1	2	2
2	Build pivot point	1	2	2
3	Modify arbor as needed to fit REP	1	2	2
<b>Total Build</b>				<b>6</b>

### Load-In

		Number of Crew	Hours per Crew	Total per Task
1	Install arbor	1	1.5	2
2	Run cable	1	2	2
3	Rig and wt. Tree w./arbor	2	2	4
4	Test Falling & Raising	2	1	2
<b>Total Load-In</b>				<b>10</b>

### Materials

		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r286	Stock Arbor & Pin Rail	1	ea	\$0.00	\$0.00
h520	Hinge, Strap, Heavy, TP 6	2	ea.	\$3.00	\$6.00
l4021	Aircraft Cable, 7x19, 1/8 Black Galvanize	120	ft.	\$0.27	\$32.40
lh402	Nico-Press Sleeves, 1/8	12	ea.	\$0.16	\$1.92
lh405	Splicing Thimble, 1/8	12	ea.	\$0.20	\$2.40
lh423	Shackle, Forged, 3/16	12	ea.	\$2.35	\$28.20
m518	Steel Angle, 3/16 x 2 2.44	5	ft.	\$1.07	\$5.35
				Hardware Costs (at 5%)	\$3.81
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$80</b>

**Yale School of Drama / Repertory Theatre**

Technical Design and Production Department

Unit Estimate: 1st Pass REP2 05

Rep 2 Sets

**Pulpit**

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

Description							
A large tracking unit that is 16' tall on a 4' x 6'6" wheeled palette. Includes a standing platform at 6'6" off of base and a practical spiral staircase to allow access to the platform.							
Build					Number of Crew	Hours per Crew	Total per Task
1	Cut and clean Steel				1	4	4
2	Punch Bolt Holes				1	4	4
3	Weld Frames for Flats				1	6	6
4	Weld Palette Frame				1	4	4
5	Skin Flats				1	4	4
6	Skin Palette				1	2	2
7	Add Tri-Swivels				1	2	2
8	Cut Lumber for Pulpit bulbous detail				1	6	6
9	Assemble Bulb				1	4	4
9.1	Retrieving Spiral Stair from Warehouse				2	2	4
9.2	Adapting Spiral Stair to Palette and Unit				1	2	2
10	Cut & Assemble Crown Molding				1	2	2
11	Attach Molding				2	2	4
12	Transport to Paint Shop				2	2	4
13	Prep Automation				1	3	3
<b>Total Build</b>							<b>55</b>
Load-In					Number of Crew	Hours per Crew	Total per Task
1	Load out Paintshop				2	2	4
2	Assemble Frames on Palette				2	4	8
3	Attach Spiral Staircase				2	4	8
4	Add finishing work				1	4	4
5	Install Winch				2	2	4
6	Install Automation Equip & Reave Cable				2	5	10
7	Calibrate & Test Automation				2	6	12
<b>Total Load-In</b>							<b>50</b>
Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price		
0r223	Baby Triple Swivel Casters	4	each	\$140.00	\$560.00		
0r2249	Misc. Spiral Staircase Parts	1	ea.	\$50.00	\$50.00		
0r242	Stock Deck Winch	1	ea	\$0.00	\$0.00		
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00		
0r287	Tulnoy 266 Crown Molding	18	ft	\$2.80	\$50.40		
0r288	Tulnoy Molding 166	20	ft	\$2.64	\$52.80		
l404	Aircraft Cable, 7x19, 1/4	200	ft.	\$0.09	\$18.00		
m400a	Lumber, 1x6 14 #2 Sugar/Idaho	2	ea.	\$8.55	\$17.10		
m412	Plywood, 1/2 Sturdi-Floor	1	ea.	\$20.33	\$20.33		
m414	Plywood, 3/4 Sturdi-Floor	3	ea.	\$27.08	\$81.24		
m416	Med Density Fiber Board 1/4"	12	ea.	\$11.08	\$132.96		
m500	Steel Plate, 3/16 x 8" x 8"	4	ea.	\$3.90	\$15.60		
m500	Steel Plate, 3/16 x 8" x 8"	2	ea.	\$3.90	\$7.80		
m588	Steel, Square Tube .065 1	14	length	\$15.53	\$217.42		
Hardware Costs (at 5%)						\$63.68	
<b>Total Materials with 5% Hardware (Rounded):</b>							<b>\$1,335</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## SL Rolling Wagon

### Description

Wagon travels Diagonally to plaster on SL - Also needs to pivot and nest with the pulpit

Build		Number of Crew	Hours per Crew	Total per Task
1	Cut , clean & Drill steel	1	4	4
2	Weld Frame	1	2	2
3	Cut Ply & MDF	1	1	1
4	Skin Frame	1	1	1
5	Add Casters	1	1	1
6	Prep Automation	1	3	3
7	Create Pivoting Knife	1	3	3
8	Take to Paints	1	1	1
			<b>Total Build</b>	<b>16</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Paints to Rep	1	1	1
2	Install Deck winch	2	2	4
3	Install Automation Equip & Reave Cable	2	5	10
4	Calibrate & Test Automation	2	4	8
			<b>Total Load-In</b>	<b>23</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r223	Baby Triple Swivel Casters	4	each	\$140.00	\$560.00
0r242	Stock Deck Winch	1	ea	\$0.00	\$0.00
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00
l404	Aircraft Cable, 7x19, 1/4	80	ft.	\$0.09	\$7.20
lh407	Nico-Press Sleeves, 1/4	2	ea.	\$0.71	\$1.42
lh408	Splicing Thimble, 1/4	2	ea.	\$0.27	\$0.54
lh424	Shackle, Forged, 1/4	2	ea.	\$2.83	\$5.66
m414	Plywood, 3/4 Sturdi-Floor	1	ea.	\$27.08	\$27.08
m415	Med Density Fiber Board 3/8"	2	ea.	\$12.69	\$25.38
m500	Steel Plate, 3/16 x 8" x 8"	4	ea.	\$3.90	\$15.60
m541	Steel Bar, 1/4 x 2 1.70	1	ft.	\$0.84	\$0.84
m585	Steel, Square Tube .049 1	1	length	\$13.62	\$13.62
				Hardware Costs (at 5%)	\$35.37
				<b>Total Materials with 5% Hardware (Rounded):</b>	<b>\$745</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Stair Way Traps (2)

### Description

4' x 4'1" trap door set into the stage with a stair case leading out of the trap room. The Staircase is approx. 7'6" tall with a 9" rise to 9" run. Build Two (2). The Trap door is constructed of 1" square tube steel. 1"x4" railing on both sides. The Two railings Pivot up through the door. The doors are manual sliding sun roofs.

Build		Number of Crew	Hours per Crew	Total per Task
1	Cut plywood sides	1	8	8
2	cut treads	1	4	4
3	Assemble Stairs	1	8	8
4	Build Railings	1	4	4
5	Cut Steel for Trapdoors	1	4	4
5.1	Punch Holes in angle for skate bearings	1	3	3
6	Weld Trap & Track Frames	1	6	6
7	Skin Traps	1	4	4
8	Assemble sliding Tracks	2	4	8
9	Test Doors with tracks	2	1	2
10	Transport to PaintShop	2	3	6
<b>Total Build</b>				<b>57</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Loadout Paintshop	2	2	4
2	Install Stairs	2	4	8
3	Install Traps	2	6	12
4	Install Railings	1	4	4
<b>Total Load-In</b>				<b>28</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r289	Stock RollerBlade Wheels	36	ea	\$0.00	\$0.00
m400b	Lumber, 1x6 16 #2 Sugar/Idaho	6	ea.	\$7.67	\$46.02
m414	Plywood, 3/4 Sturdi-Floor	9	ea.	\$27.08	\$243.72
m416	Med Density Fiber Board 1/4"	2	ea.	\$11.08	\$22.16
m517	Steel Angle, 3/16 x 1-1/2 1.80	30	ft.	\$0.80	\$24.00
m588	Steel, Square Tube .065 1	4	length	\$15.53	\$62.12
				Hardware Costs (at 5%)	\$19.90
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$420</b>



# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Front Roll Drop on Big Unit

	Description			
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Gallows "etching" rises over 2nd level opening at end of hanging scene. Soft Goods w/ hard top edge, raised w/ manuel rigging from lower level. (Poss set at intermission)

Build		Number of Crew	Hours per Crew	Total per Task
1	Build Guide Track	1	4	4
2	Install Guide track and rigging	1	6	6
<b>Total Build</b>				<b>10</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Move into Space	1	0.25	0
2	Install Unit and Run Rigging	1	2	2
<b>Total Load-In</b>				<b>2</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r247	10' wide Seamless Muslin	2	yd	\$11.00	\$22.00
0r248	Unistrut/UHMW track	2	7'	\$20.00	\$40.00
m580	Steel, Rect. Tube 1 x 2 .062	1	length	\$29.93	\$29.93
				Hardware Costs (at 5%)	\$4.60
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$95</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

<b>Beds &amp; Lift for Beds</b>					
<b>Description</b>					
Utilizing the stock Hydraulic Ram, 4 towers with mounted sheaves to raise platform into place. Includes necessary mule sheaves and base plate, also protective box for ram. As of 9/13 does not include beds.					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Cut and clean Steel for Platform	1	2	2	
2	Weld Platform	1	2	2	
3	Skin Platform	1	1	1	
4	Cut Steel for Sheave Towers	1	2	2	
5	Assemble Sheave Towers	1	4	4	
6	Cut Steel For Base and Mules	1	2	2	
7	Assemble Mule Blocks	1	3	3	
8	Attach Sheave Towers to Base	1	2	2	
9	Transport Platform to Paint Shop	2	1	2	
<b>Total Build</b>				<b>20</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Load out Paint Shop	2	1	2	
2	Remove Trap Beam	4	10	40	
3	Install Hydraulics	4	2	8	
4	Install Sheaves	2	4	8	
5	Run Wire Rope	2	4	8	
6	Configure/Test Control Unit	2	8	16	
<b>Total Load-In</b>				<b>82</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r2224	Sheave, 3/16 Wire Rope	24	ea.	\$6.22	\$149.28
0r226	Stock Hydraulic Ram	0	ea.	\$0.00	\$0.00
0r244	Automation Misc. Hardware	2	ea	\$50.00	\$100.00
l403	Aircraft Cable, 7x19, 3/16	250	ft.	\$0.06	\$15.00
lh403	Nico-Press Sleeves, 3/16	12	ea.	\$0.45	\$5.40
lh406	Splicing Thimble, 3/16	8	ea.	\$0.19	\$1.52
lh430	Turnbuckles, 3/8 x 6" Eye to Eye	4	ea.	\$0.00	\$0.00
m412	Plywood, 1/2 Sturdi-Floor	4	ea.	\$20.33	\$81.32
m414	Plywood, 3/4 Sturdi-Floor	1	ea.	\$27.08	\$27.08
m416	Med Density Fiber Board 1/4"	1	ea.	\$11.08	\$11.08
m500	Steel Plate, 3/16 x 8" x 8"	4	ea.	\$3.90	\$15.60
m517	Steel Angle, 3/16 x 1-1/2 1.80	48	ft.	\$0.80	\$38.40
m581	Steel, Rect. Tube 1 x 3 .083	4	length	\$44.45	\$177.80
m588	Steel, Square Tube .065 1	3	length	\$15.53	\$46.59
Hardware Costs (at 5%)					\$33.45
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$705</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Seesaw bed effect

Description							
Potential Solution for undulating bed effect. Beds will be steel frames attached to an arm on a pivot and motivated by a stock hydraulic cylinder.							
Build					Number of Crew	Hours per Crew	Total per Task
1	Cut and Clean Steel				1	3	3
2	Weld Beds				1	4	4
3	Build Pivot Base				1	4	4
4	Attach Arm and beds				1	8	8
5	Dissassemble for transport				1	2	2
6	Skin Beds				1	2	2
7	Transport to Paint Shop				2	2	4
<b>Total Build</b>							<b>27</b>
Load-In					Number of Crew	Hours per Crew	Total per Task
1	Load Out Paintshop				2	2	4
2	Attach Pivot base to platform				1	4	4
3	Attach Arm				1	1	1
4	Attach Beds				2	2	4
5	Run Hydraulic/control cable				1	2	2
6	Configure and Test				2	4	8
<b>Total Load-In</b>							<b>23</b>
Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price		
0r2129	Stock Pillow Block	1	ea	\$0.00	\$0.00		
0r244	Automation Misc. Hardware	2	ea	\$50.00	\$100.00		
0r2887	Stock Hydraulic Cylinder	1	ea	\$0.00	\$0.00		
m414	Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16		
m416	Med Density Fiber Board 1/4"	2	ea.	\$11.08	\$22.16		
m500	Steel Plate, 3/16 x 8" x 8"	2	ea.	\$3.90	\$7.80		
m517	Steel Angle, 3/16 x 1-1/2 1.80	3	ft.	\$0.80	\$2.40		
m571	Steel, Square Stock 1/2	20	ft.	\$0.22	\$4.40		
m581	Steel, Rect. Tube 1 x 3 .083	1	length	\$44.45	\$44.45		
m588	Steel, Square Tube .065 1	5	length	\$15.53	\$77.65		
Hardware Costs (at 5%)					\$15.65		
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$330</b>		

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Stove/Bench Lift SR

### Description

Utilizing the stock Deck Winch, with mounted sheaves to raise platform into place. Includes necessary mule sheaves and base plate.

Build		Number of Crew	Hours per Crew	Total per Task	
1	Cut and Clean Steel for Platform	1	2	2	
2	Weld Platform	1	2	2	
3	Skin Platform	1	1	1	
4	Cut Steel For Sheave Tower	1	2	2	
5	Assemble Sheave Tower	1	4	4	
6	Assemble Mule Block	1	3	3	
7	Attach Sheave Towers to Base	1	2	2	
8	Transport Platform to Paint Shop	2	1	2	
<b>Total Build</b>				<b>18</b>	
Load-In		Number of Crew	Hours per Crew	Total per Task	
1	Load Out Paint shop	2	1	2	
2	Install Deck Winch	4	2	8	
3	Install Base and Sheave Towers	2	4	8	
4	Run Wire Rope	2	4	8	
5	Configure/Test Control Unit	2	8	16	
<b>Total Load-In</b>				<b>42</b>	
Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r2224	Sheave, 3/16 Wire Rope	24	ea.	\$6.22	\$149.28
0r242	Stock Deck Winch	1	ea	\$0.00	\$0.00
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00
l403	Aircraft Cable, 7x19, 3/16	250	ft.	\$0.06	\$15.00
lh403	Nico-Press Sleeves, 3/16	12	ea.	\$0.45	\$5.40
lh406	Splicing Thimble, 3/16	8	ea.	\$0.19	\$1.52
lh430	Turnbuckles, 3/8 x 6" Eye to Eye	4	ea.	\$0.00	\$0.00
m414	Plywood, 3/4 Sturdi-Floor	3	ea.	\$27.08	\$81.24
m416	Med Density Fiber Board 1/4"	1	ea.	\$11.08	\$11.08
m500	Steel Plate, 3/16 x 8" x 8"	4	ea.	\$3.90	\$15.60
m517	Steel Angle, 3/16 x 1-1/2 1.80	48	ft.	\$0.80	\$38.40
m581	Steel, Rect. Tube 1 x 3 .083	4	length	\$44.45	\$177.80
m588	Steel, Square Tube .065 1	3	length	\$15.53	\$46.59
				Hardware Costs (at 5%)	\$29.60
<b>Total Materials with 5% Hardware (Rounded):</b>				<b>\$620</b>	

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

<b>Bigger Part of Rolling Unit</b>					
<b>Description</b>					
SL Section of Main Rolling Wall Unit. Steel hard covered flats with texture TBD. This unit is man powered for rotation and automated for SL-SR tracking. SR Triangle fold for Heaven Scene. Price includes: Flats, Wagons, Second Floor Platform, Doors, Automation, Lighting Positions					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Frame and Skin Flats	1	20	20	
2	Frame and Skin Platforms	1	16	16	
3	Attach Flats and Platforms	2	8	16	
4	Build and Skin Doors	1	12	12	
5	Hang Doors	1	8	8	
5.3	Build Fiber Optic Backing	1	20	20	
5.5	Skin Back for Fiber Optics	1	12	12	
5.7	Tech Attachment & Hinging of SR Triangle	2	6	12	
6	Texture Walls	2	40	80	
7	Automation Prep	1	20	20	
<b>Total Build</b>				<b>216</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Move into Space	6	1	6	
2	Assemble unit	4	3	12	
3	Rigging for L&R track	2	6	12	
4	Run Automation Cable for Unit	1	2	2	
5	Set Unit in Track and Trouble Shoot	2	4	8	
<b>Total Load-In</b>				<b>40</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r241	Stock Triple Swivel Casters	6	ea	\$0.00	\$0.00
0r242	Stock Deck Winch	1	ea	\$0.00	\$0.00
0r243	Cable Chain for Deck Track	40	ft	\$0.00	\$0.00
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00
0r245	Velcro	2	75' Roll	\$70.00	\$140.00
l404	Aircraft Cable, 7x19, 1/4	200	ft.	\$0.09	\$18.00
m370	Commando, FP Black, 54"	20	yd.	\$4.34	\$86.80
m411	Luan 1/4 AC Interior 5.2	20	ea.	\$9.37	\$187.40
m414	Plywood, 3/4 Sturdi-Floor	8	ea.	\$27.08	\$216.64
m415	Med Density Fiber Board 3/8"	4	ea.	\$12.69	\$50.76
m500	Steel Plate, 3/16 x 8" x 8"	6	ea.	\$3.90	\$23.40
m580	Steel, Rect. Tube 1 x 2 .062	8	length	\$29.93	\$239.44
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	30	length	\$12.75	\$382.50
Hardware Costs (at 5%)					\$69.75
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$1,465</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Big Unit Moving Up & Down Stage

### Description

This reflects the cost of tracking the large unit up & down stage. Explanation Needed

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Build Sweeps for Corner	1	12	12	
2	Build Sled for Double Track	1	20	20	
3	Time to Cut Extra Track	1	8	8	
<b>Total Build</b>				<b>40</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Install Sled	2	2	4	
2	Run Extra Cable Run	2	2	4	
3	Tech and Trouble Shoot	2	4	8	
<b>Total Load-In</b>				<b>16</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r242	Stock Deck Winch	1	ea	\$0.00	\$0.00
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00
0r246	"Broadway" Triple Swivel	6	ea	\$260.00	\$1,560.00
m405	Lumber, 2x4 16 Fir	10	ea.	\$6.62	\$66.20
m414	Plywood, 3/4 Sturdi-Floor	10	ea.	\$27.08	\$270.80
m518	Steel Angle, 3/16 x 2 2.44	20	ft.	\$1.07	\$21.40
Hardware Costs (at 5%)					\$98.42
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$2,065</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Smaller Part of Rolling Unit

### Description

SR Section of Main Rolling Wall Unit. Steel hard covered flats with Texture TBD. This unit is man powered for split and rotation moves. It pins to Larger Unit for "whole wall" rotation. Price Includes: Flats, Wagon, Door.

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Frame and Skin Flats	1	16	16	
2	Frame and Skin Platform	1	12	12	
3	Attach Platform and Flats	2	6	12	
4	Build Door	1	6	6	
5	Hang Door	1	1	1	
6	Build & Tech Attachment to Big Unit	1	8	8	
6.5	Build Fiber Optic Backings	1	8	8	
7	Skin Back for Fiber Optics	1	8	8	
8	Texture Walls	2	24	48	
<b>Total Build</b>				<b>119</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Move into Space	6	0.5	3	
2	Assemble Unit	4	1	4	
<b>Total Load-In</b>				<b>7</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r240	Thatch Texture (3/4" Hemp)	200	ft	\$0.75	\$150.00
0r241	Stock Triple Swivel Casters	3	ea	\$0.00	\$0.00
0r245	Velcro	1	75' Roll	\$70.00	\$70.00
m370	Commando, FP Black, 54"	10	yd.	\$4.34	\$43.40
m411	Luan 1/4 AC Interior 5.2	8	ea.	\$9.37	\$74.96
m414	Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16
m415	Med Density Fiber Board 3/8"	2	ea.	\$12.69	\$25.38
m500	Steel Plate, 3/16 x 8" x 8"	3	ea.	\$3.90	\$11.70
m534	Steel Bar, 3/16 x 1-1/2 .96	20	ft.	\$0.45	\$9.00
m563	Steel, Round Stock 1/2 .67	20	ft.	\$0.36	\$7.20
m580	Steel, Rect. Tube 1 x 2 .062	2	length	\$29.93	\$59.86
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	10	length	\$12.75	\$127.50
m601	Pipe, Standard 1/2	1	length	\$20.79	\$20.79
Hardware Costs (at 5%)					\$32.70
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$685</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

<b>Back Rolldrop on Big Unit</b>					
<b>Description</b>					
Roll drop contains 6 Backdrops for all scenes in Upper Opening of SL Big Wall Unit. Behind roll Drop is neon tube "light box."					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Build Roll Tube Frame	1	6	6	
2	Mount Motor on Tube & Tech	1	6	6	
3	Prep Control System	1	6	6	
<b>Total Build</b>				<b>18</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Move into Space	2	0.25	1	
2	Mount Unit in Big SL Wall Unit	2	1	2	
3	Run Control and Power Cables	1	2	2	
4	Tech & Troubleshoot	2	2	4	
<b>Total Load-In</b>				<b>9</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$25.00
0r247	10' wide Seamless Muslin	25	yd	\$11.00	\$275.00
0r249	Roll Drop Tube	1	ea	\$100.00	\$100.00
m590	Steel, Square Tube 1 1/2" 16 ga.	4	length	\$26.87	\$107.48
				Hardware Costs (at 5%)	\$25.37
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$535</b>



# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Fantasy Bedroom in Big Unit

### Description

Hard Side and Back Walls Fold into SL Side of upper section of Big SL Wall Unit. Ceiling is soft and stretched over side walls. Moves into place during "N1" scenes and is struck at intermission. No Bench for this scene?

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task
1	Frame & Skin Flats for Side Walls	1	8	8
2	Assemble & Hinge Walls	1	4	4
3	Build and Skin Bed Frames	1	8	8
4	Install and Tech Unit	2	2	4
<b>Total Build</b>				<b>24</b>

<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task
1	Move into space	4	0.25	1
2	Assemble and Install Unit	2	2	4
<b>Total Load-In</b>				<b>5</b>

<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
h452	Patent Stage Screw	6	ea.	\$3.66	\$21.96
h453	Patent Stage Plug (Insert)	6	ea.	\$3.90	\$23.40
h520	Hinge, Strap, Heavy, TP 6	8	ea.	\$3.00	\$24.00
m354	Muslin, Heavy FP 98"	2	yd.	\$6.25	\$12.50
m401	Lumber, 1x4 16 #2 Pond	10	ea.	\$5.14	\$51.40
m414	Plywood, 3/4 Sturdi-Floor	2	ea.	\$27.08	\$54.16
m416	Med Density Fiber Board 1/4"	6	ea.	\$11.08	\$66.48
m588	Steel, Square Tube .065 1	4	length	\$15.53	\$62.12
				Hardware Costs (at 5%)	\$15.80
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$330</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Twig Pannels for Big Unit

### Description

This Drop consists of three flats. One @ 16' h x 7'3"w which top hangs on a track attached to the back of the Big SL Wall Unit. One @ 8' h x 6' w which hinges closed and open over the back of the lower center section of Big SL Wall Unit. One @ 8' h x 7'3" w which is attached to the back of the lower SL section of the Big SL Wall Unit. These are all steel framed units skined in guaze and painted ethofoam.

Build		Number of Crew	Hours per Crew	Total per Task
1	Build Frames for Flats	1	6	6
2	Attach Guaze to Flats	2	2	4
3	Attach Ethofoam to Gauze	2	32	64
4	Hang & Tech Track on Back of unit	2	8	16
<b>Total Build</b>				<b>90</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Move Unit into Space	2	0.25	1
2	Hang Track on Back of Unit	2	2	4
3	Hang Large Unit	2	1	2
4	Hang & Install Small Units	2	1	2
<b>Total Load-In</b>				<b>9</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r250	Tiger Guaze	3	yd	\$75.00	\$225.00
0r251	7/8" Etho-foam	2	1000 ft	\$86.81	\$173.62
0r257	1-1/8" Etho-foam	2	500' Box	\$53.50	\$107.00
0r258	1-1/2" Etho-foam	1	350' Box	\$79.56	\$79.56
0r259	Stock Track Hardware	1	ea	\$0.00	\$0.00
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	8	length	\$12.75	\$102.00
				Hardware Costs (at 5%)	\$34.36
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$720</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Roll Drop for Behind the Twig Pannels

### Description

This is a painted roll drop hung in Alcove that rolls down to achieve part of "flying effect". It runs for approx 90 sec.

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Re-Build Frame for Tube and Motor	1	8	8	
2	Mount Motor and Tech Tube	1	4	4	
3	Attach Goods to Tube	2	4	8	
4	Prep Automation	1	6	6	
<b>Total Build</b>				<b>26</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Move into Space	4	0.25	1	
2	Hang Drop	4	2	8	
3	Run Automation Cables	2	1	2	
<b>Total Load-In</b>				<b>11</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r262	20' Wide Seamless Muslin	20	yd	\$24.00	\$480.00
0r263	Stock Roll Drop Tube & Motor	1	ea	\$0.00	\$0.00
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	5	length	\$12.75	\$63.75
				Hardware Costs (at 5%)	\$27.19
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$570</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Cutout Trees for Big Unit

Description					
Steel frame, luan cut-out flats. Top hung track on wall of theater. Unit Splits on "natural" line at center. This price includes framed storage flats to hide unit offstage.					
Build			Number of Crew	Hours per Crew	Total per Task
1	Project and cut out luan skin		1	16	16
2	Frame bend and weld		1	16	16
3	Skin Frame		1	4	4
4	Frame Masking Flats		1	8	8
5	Skin Masking Flats		2	2	4
<b>Total Build</b>					<b>48</b>
Load-In			Number of Crew	Hours per Crew	Total per Task
1	Move in to Space		4	0.25	1
2	Hang Track		2	8	16
3	Hang Trees		4	2	8
4	Hang Masking Flats		3	2	6
<b>Total Load-In</b>					<b>31</b>
Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r252	Triple E Black Track	8	6'6"	\$128.30	\$1,026.40
0r253	Triple E Return Pulley	1	ea	\$66.53	\$66.53
0r254	Triple E Head Pulley	1	ea	\$83.16	\$83.16
0r255	Triple E Scenery Carriers	4	ea	\$73.66	\$294.64
0r256	3/4" 16g Square Tube	10	20' Stick	\$10.80	\$108.00
m370	Commando, FP Black, 54"	36	yd.	\$4.34	\$156.24
m411	Luan 1/4 AC Interior 5.2	10	ea.	\$9.37	\$93.70
m412	Plywood, 1/2 Sturdi-Floor	1	ea.	\$20.33	\$20.33
m585	Steel, Square Tube .049 1	6	length	\$13.62	\$81.72
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	8	length	\$12.75	\$102.00
Hardware Costs (at 5%)					\$101.64
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$2,135</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Book/Kitchen shelves for Big Unit

### Description

These units hinge into the Lower SL opening of the Big SL Wall Unit. They are draped with black when not in use (ie Cage Scene). Thatched door hangs off the face on one of these units TBD. This includes Forbidden Book Shelf.

Build		Number of Crew	Hours per Crew	Total per Task
1	Build Book Case	1	12	12
2	Frame and Caster Book Case	1	6	6
3	Hang & Tech Book Case in Opening	2	1	2
4	Build Kitchen Shelves	1	16	16
5	Frame and Caster Kitchen Shelves	1	6	6
6	Hang & Tech Kitchen Shelves in Opening	2	1	2
<b>Total Build</b>				<b>44</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Move units into space	4	0.25	1
2	Hang Units in Opening	2	0.25	1
<b>Total Load-In</b>				<b>2</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r261	Stock Casters	8	ea	\$0.00	\$0.00
m370	Commando, FP Black, 54"	6	yd.	\$4.34	\$26.04
m412	Plywood, 1/2 Sturdi-Floor	2	ea.	\$20.33	\$40.66
m414	Plywood, 3/4 Sturdi-Floor	8	ea.	\$27.08	\$216.64
m415	Med Density Fiber Board 3/8"	1	ea.	\$12.69	\$12.69
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	3	length	\$12.75	\$38.25
				Hardware Costs (at 5%)	\$16.71
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$350</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Cage for BIG Unit

### Description

Unit plays in Lower SL opening of Big SL Wall Unit. Unit is castered and pushed into position by stagehand.

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Frame Cage	1	12	12	
2	Mount Casters	1	4	4	
<b>Total Build</b>				<b>16</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Move Unit to Theater	2	0.25	1	
<b>Total Load-In</b>				<b>1</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r260	Ball Caster	4	ea	\$20.00	\$80.00
m591	Steel, Square Tube 1 1/2 " x 20' .049 (18ga)	2	length	\$12.75	\$25.50
m602	Pipe, Standard 3/4	4	length	\$24.56	\$98.24
				Hardware Costs (at 5%)	\$10.19
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$215</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Unit Estimate: 1st Pass REP2 05

Rep 2 Sets

## Hang'in Rig

### Description

A bar that is affixed in the top of the big unit to hold 3 nooses for the execution scene - Ropes must not be actual nooses and must be easily escapable. This price includes Bench.

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Cut and Drill Beam for Connections	1	1	1	
2	Tie Ropes/Create Noose	1	3	3	
3	Test Assemble	1	1	1	
4	Build Bench	1	8	8	
<b>Total Build</b>				<b>13</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Insert & Test in Big Unit	2	1	2	
<b>Total Load-In</b>				<b>2</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r280	2" Manila Rope	1	50 ft	\$127.00	\$127.00
h482	Snap Hook, Swivel	3	ea.	\$1.08	\$3.24
m413	Plywood, 5/8 Sturdi-Floor	2	ea.	\$25.24	\$50.48
Hardware Costs (at 5%)					\$9.04
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$190</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Picture Light Boxes (4)

### Description

4 - Light Boxes will be built by scenery with rigging for an operational curtain - Electrics will provide lights - Props will provide pictures - Scenery will also hang the picture boxes in the space. Size 40"x53"

<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Cut 2x4	1	1	1	
2	Cut Sheet goods	1	2	2	
3	Assemble Boxes	1	4	4	
4	Cut & Clean Steel	1	2	2	
5	Weld Steel Hangers	1	2	2	
6	Create Rigging	1	2	2	
7	Build Curtain Track	1		0	
10	Take to Paints	2	1	2	
<b>Total Build</b>				<b>15</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Load in to Rep	2	1	2	
2	Hang Rigging Hangers & pictures	3	6	18	
3	Add Curtain Rigging	2	6	12	
<b>Total Load-In</b>				<b>32</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
l301	Rope, Blk Double Braided Poly, 1/4	480	ft.	\$0.12	\$57.60
l4021	Aircraft Cable, 7x19, 1/8 Black Galvanize	120	ft.	\$0.27	\$32.40
lh402	Nico-Press Sleeves, 1/8	16	ea.	\$0.16	\$2.56
lh405	Splicing Thimble, 1/8	16	ea.	\$0.20	\$3.20
m405	Lumber, 2x4 16 Fir	3	ea.	\$6.62	\$19.86
m412	Plywood, 1/2 Sturdi-Floor	8	ea.	\$20.33	\$162.64
m416	Med Density Fiber Board 1/4"	8	ea.	\$11.08	\$88.64
m517	Steel Angle, 3/16 x 1-1/2 1.80	28	ft.	\$0.80	\$22.40
Hardware Costs (at 5%)					\$19.47
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$410</b>



# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Header for Alcove

### Description

Hard flats to mask top of alcove to 16'. Consists of 7 4'x 7'8" flats hard covered with hanging hardware on backside

Build		Number of Crew	Hours per Crew	Total per Task
1	Cut Lumber	1	3	3
2	Frame and Skin	1	6	6
3	Cover	2	4	8
4	Attach Hanging Hardware	1	2	2
5	Build Hogstrough	1	2	2
6	Transport to Paintshop	2	2	4
<b>Total Build</b>				<b>25</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Load out Paintshop	2	2	4
2	Assemble Flats	2	4	8
3	Establish Hanging Points, Drop Hauling Lines	2	2	4
4	Hang Header	4	3	12
<b>Total Load-In</b>				<b>28</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
h446	Iron, Hanging, 13"	7	ea.	\$4.44	\$31.08
l4021	Aircraft Cable, 7x19, 1/8 Black Galvanize	100	ft.	\$0.27	\$27.00
lh402	Nico-Press Sleeves, 1/8	14	ea.	\$0.16	\$2.24
lh405	Splicing Thimble, 1/8	17	ea.	\$0.20	\$3.40
lh430	Turnbuckles, 3/8 x 6" Eye to Eye	7	ea.	\$0.00	\$0.00
m400b	Lumber, 1x6 16 #2 Sugar/Idaho	16	ea.	\$7.67	\$122.72
m416	Med Density Fiber Board 1/4"	7	ea.	\$11.08	\$77.56
				Hardware Costs (at 5%)	\$13.20
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$275</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Heavens Gate

Description					
Doublesided pivoting flats with escape doors					
Build		Number of Crew	Hours per Crew	Total per Task	
1	Cut Lumber	1	2	2	
2	Assemble and Skin Flats	1	8	8	
3	Build Doors	1	2	2	
4	Attach Pivoting Hardware	1	2	2	
5	Transport to Paintshop	2	2	4	
			<b>Total Build</b>	<b>18</b>	
Load-In		Number of Crew	Hours per Crew	Total per Task	
1	Load out Paintshop	2	2	4	
2	Assemble Center Flats	4	1	4	
3	Sleeve Flats onto Pivot Pipe	4	1	4	
4	Attach Pivot Pipe to Grid and Deck	4	2	8	
5	Attach Remaining Flats	4	2	8	
6	Install "Secret" Doors	1	2	2	
			<b>Total Load-In</b>	<b>30</b>	
Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r21	Stock Kee Klamp Floor flange	2	Each	\$10.00	\$20.00
0r211	Kee Klamp 90 Degree	2	Each	\$10.00	\$20.00
0r212	Kee Klamp Collar	6	Each	\$10.00	\$60.00
0r213	UHMW, 1/8"x2"	2	per foot	\$1.18	\$2.36
0r22	Kee Klamp T	6	Each	\$10.00	\$60.00
h506	Hinge, Back Flap TP 2	4	ea.	\$1.13	\$4.52
m400a	Lumber, 1x6 14 #2 Sugar/Idaho	30	ea.	\$8.55	\$256.51
m416	Med Density Fiber Board 1/4"	28	ea.	\$11.08	\$310.24
m605	Pipe, Standard 1-1/2 A53B 35KPI	2	length	\$52.71	\$105.42
				Hardware Costs (at 5%)	\$41.95
				<b>Total Materials with 5% Hardware (Rounded):</b>	<b>\$880</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

<b>Heaven Stairs &amp; Wall</b>					
<b>Description</b>					
Angled Step Unit, two 8' x 16' masking flats and one 4'6" x 4'6" Masking Flat. Top of Step Unit is built non-practical, 1/4" mdf facing on all steps. Masking walls are hard covered with paint treatment. Estimate does not include paint.					
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task	
1	Cut Steps and Stiles	1	8	8	
2	assemble Steps	2	8	16	
3	Cut lumber for flats	1	3	3	
4	Assemble and Skin Flats	1	6	6	
5	Attach Pivot Hardware	1	2	2	
6	Transport to Paintshop	2	2	4	
<b>Total Build</b>				<b>39</b>	
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task	
1	Load out paintshop	2	2	4	
2	Assemble lower step units	4	2	8	
3	Attach Masking flats	2	2	4	
4	Add non-practicat steps	2	2	4	
5	add upstage masking flat	2	1	2	
<b>Total Load-In</b>				<b>22</b>	
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price	Total Price
m400a	Lumber, 1x6 14 #2 Sugar/Idaho	24	ea.	\$8.55	\$205.20
m412	Plywood, 1/2 Sturdi-Floor	2	ea.	\$20.33	\$40.66
m414	Plywood, 3/4 Sturdi-Floor	21	ea.	\$27.08	\$568.68
m416	Med Density Fiber Board 1/4"	19	ea.	\$11.08	\$210.52
				Hardware Costs (at 5%)	\$51.25
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$1,075</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Swing In Heaven

### Description

Swing to fly actor out at end of show. Swing must travel from deck level to approximately 10' with actor, then to grid for storage. Swing Seat is 4' x 1'6" Steel Frame skined with 1/4" Mdf

Build		Number of Crew	Hours per Crew	Total per Task
1	Cut Steel for Swing Seat	1	1	1
2	Weld Seat	1	1	1
3	Skin and Attach Hardware	1	1	1
4	Transport to paint shop	1	1	1
<b>Total Build</b>				<b>4</b>

Load-In		Number of Crew	Hours per Crew	Total per Task
1	Load out Paintshop	1	1	1
2	Hanging loft blocks	2	6	12
3	Hanging Head Blocks	2	4	8
4	Running Ropes	2	4	8
<b>Total Load-In</b>				<b>29</b>

Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price
0r214	3/8" PolyCover/Spectra Core Rope	1	100ft	\$161.28	\$161.28
0r2215	Stock Head Blocks	4	each	\$0.00	\$0.00
0r2269	Stock Sandbag	2	ea.	\$0.00	\$0.00
0r244	Automation Misc. Hardware	2	ea	\$50.00	\$100.00
h439	Bolt, Eye, Forged, 5/16x 4-1/2	2	ea.	\$3.39	\$6.78
m416	Med Density Fiber Board 1/4"	1	ea.	\$11.08	\$11.08
m588	Steel, Square Tube .065 1	2	length	\$15.53	\$31.06
				Hardware Costs (at 5%)	\$15.51
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$325</b>

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Rep 2 Sets

Unit Estimate: 1st Pass REP2 05

## Roll drop with Flower Petals

Description						
When the gates of heaven open flower petals are floating down from the sky - This Number only includes enough confetti to fill the tube once						
Build				Number of Crew	Hours per Crew	Total per Task
1	Retrive Tubes from Warehouse			2	1	2
2	Repair Tubes			1	2	2
3	Prep Rigging			1	2	2
<b>Total Build</b>						<b>6</b>
Load-In				Number of Crew	Hours per Crew	Total per Task
1	Haul to the REP			2	1	2
2	Rig and hang Pipe for tube			2	3	6
3	Hang Tubes			4	1	4
4	Attach Turning Mechinism & Test			2	3	6
<b>Total Load-In</b>						<b>18</b>
Materials		Quantity or Amount	Unit of Sale	Unit Price	Total Price	
0r244	Automation Misc. Hardware	1	ea	\$50.00	\$50.00	
0r281	Stock Snow Roller Tube	1	ea	\$0.00	\$0.00	
0r285	Slow Fall Confetti	120	20" Pack	\$5.25	\$630.00	
l304	Rope, Blk Double Braided Poly, 5/8	100	ft.	\$0.74	\$74.00	
m605	Pipe, Standard 1-1/2 A53B 35KPI	1	length	\$52.71	\$52.71	
Hardware Costs (at 5%)					\$40.34	
<b>Total Materials with 5% Hardware (Rounded):</b>					<b>\$845</b>	

# Yale School of Drama / Repertory Theatre

Technical Design and Production Department

Unit Estimate: 1st Pass REP2 05

Rep 2 Sets

<b>Cloak Lifts (2)</b>				
<b>Description</b>				
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task
				0
<b>Total Build</b>				<b>0</b>
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task
				0
<b>Total Load-In</b>				<b>0</b>
<b>Materials</b>		Quantity or Amount	Unit of Sale	Unit Price
				\$0.00
		Hardware Costs (at 5%)		\$0.00
<b>Total Materials with 5% Hardware (Rounded):</b>				<b>\$0</b>

**Yale School of Drama / Repertory Theatre**

Technical Design and Production Department

Unit Estimate: 1st Pass REP2 05

Rep 2 Sets

<b>Foot Light Trap</b>				
<b>Description</b>				
<b>Build</b>		Number of Crew	Hours per Crew	Total per Task
				0
<b>Total Build</b>				<b>0</b>
<b>Load-In</b>		Number of Crew	Hours per Crew	Total per Task
				0
<b>Total Load-In</b>				<b>0</b>
<b>Materials</b>	Quantity or Amount	Unit of Sale	Unit Price	Total Price
				\$0.00
			Hardware Costs (at 5%)	\$0.00
<b>Total Materials with 5% Hardware (Rounded):</b>				<b>\$0</b>