

Cast of Characters



Joanna Obuzor
VP of Venue Operations
Pittsburgh Cultural Trust
Pittsburgh, PA



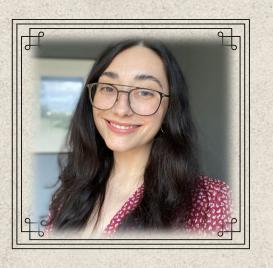
Wendy Riggs
Director, Cultural Arts
VVA Project & Cost Managers
New York / Fayetteville, AR



Steve Karoly
Associate Principal
GBBN Architects
Cincinnati / Pittsburgh



Kevin Auses
Associate Principal
Apeiro Design
New York / Pittsburgh



Katelyn Colwell
Director of Operations
Pittsburgh Cultural Trust
Pittsburgh, PA
Moderator



Amy King
Business Development
VVA Project & Cost Managers
New Jersey / New York

Comic Relief

Planning for Capital Projects





- ASSESSMENTS
- O BUDGETING & PLANNING
- O DESIGN
- **COMMUNICATION**
- O IMPLEMENTATION
 CHALLENGES
- **Q&A**



What is an Assessment?

Assessment vs Feasibility Study

Protecting Facility Investments

Architectural A Front of House (Basement) Lighting Replacement LVT Plaster Walls Doors B Front of House New Vestibule		What: Project Notes / Scope	Where: Location(s) / reference / space / spec				
rchite	ectural						
Α	Front of House (Basement)						
	Lighting Replacement	Repair flickering light	One light - Hall 020				
	LVT	Deep clean floors	All LVT				
	Plaster Walls	Patch and paint plaster walls where cracked or worn	Common among plaster walls				
	Doors	Clean and refinish select doors.	Uncommon in doors				
В	Front of House						
	New Vestibule	Design and construct new interior entry vestibule at front entry. This project would require the involvement of an architect, consultants, and general contractor.	Lobby 109				
	Historic Wood Doors	Doors require, in many cases, extensive rehabilitation in the form of hardwood infill replacements, hardware repair and replacement. Door rehabilitation may necessitate a partial or complete disassembly of wood door	All historic double wood doors (8 sets in total)				
	Utility Work	Remove abandoned utility pipes, replace lighting control device	One light - Hall 020 All LVT Common among plaster walls Uncommon in doors try Lobby 109 would ct, iive All historic double wood doors (8 sets in total) All stone floors in Lobbies, Main Hall, and Park View Gold and Green Rooms All Front of House bulbs Common among plaster walls Park View Dijects Level 1 Halls auditorium windows) Stage Balcony All auditorium floors All auditorium bulbs				
	Foors - Marble	Reset loose floor tiles and monitor for conitnued deterioration.					
	Floors - Wood	Refinish wood floors	Gold and Green Rooms				
	Lighting - LED Bulbs	Replace LED bulbs with historically- appropriate Edison-style bulbs	All Front of House bulbs				
	Plaster Walls	Patch and paint plaster walls where cracked or worn	Common among plaster walls				
	Park View Stone Walls, Ceiling, and Vault	Tier 1: Replace mortar where failing Tier 2: Tuck point entire room	Park View				
	Wall Trim	Remove paint drips and hazardous objects from wooden picture rails and wainscoting and refinish where needed.	Level 1 Halls				
	Historic Wood Windows	Patch, repair, and refinish windows and frames on inside and outside, add weatherstripping, paint exterior surfaces					
С	Auditorium & Stage						
	AV Patch Panel	Install two (2) new AV patch panels	Stage				
	Balcony Drips	Fully clean front face of balcony	Balcony				
	Paint Floors	Paint concrete floors where worn	All auditorium floors				
	Lighting - LED Bulbs	Replace LED bulbs with historically- appropriate Edison-style bulbs	All auditorium bulbs				
	Lighting - Proscenium Sockets	Replace socket system in proscenium arch lights	Lights in proscenium arch				

Section	n & Category	What: Project Notes / Scope	Where: Location(s) / reference / space / spec
Archite	<u>ectural</u>		
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	LVT	Deep clean floors	All LVT
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	Historic Wood Doors	Doors require, in many cases, extensive	All historic double wood doors

rehabilitation in the form of hardwood infill

placements, hardware repair and placement. Door rehabilitation may



1ex

(8 sets in total)

Protecting Facility Investments

At End of Useful Life Expectancy	Historically Significant Material or Feature	Impacts Operational Cost	Impact on Maintenance and Repair	Impacts Building Program / Functionality	Building Code Compliance	Projected Year	Maintain, Replace, or New		Impacts Life Safety	At End of Useful Life Expectancy	Historically Significant Material or	
											reature	
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•	0	0	•	0	0	3	R					
0	•	0	•	0	0	5	М					
0	0	0	•	0	0	3	М					
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	At End of Useful Life Expectancy	At End of Useful Life Expectancy	At End of Useful Life Expectancy	Material or Feature		Maintenance Significant Material or Feature Maintenance At End of Useful Life Expectancy Maintenance Cost Maintenance And Repair Program / Functionality Functionality	Material of Useful Life Expectancy Significant Material or Feature Cost Impacts on Maintenance and Repair Functionality Function	Microscopies Micr	At End of Useful Life Significant Material or Feature Cost Impacts on Maintenance and Repair Program / Functionality Program / Functiona	Mistorically Impacts Significant Significant Significant Significant Cost Maintenance Cost Cost Maintenance Cost Cos	Material of Useful Life Significant Impacts Significant Impa	At End of Useful Life Historically Significant Maintenance Maintenance Cost Cost Cost Maintenance Cost Cost Maintenance Cost Cos

Impacts Life Safety	At End of Useful Life Expectancy	Historically Significant Material or Feature	Impacts Operational Cost	Impact on Maintenance and Repair	Impacts Building Program / Functionality	Building Code Compliance	Projected Year	Maintain, Replace, or New
0	•	0	0	•	0	0	1	М
0	0	0	0	•	0	0	3	М
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14/	War Marie	_	^	reserve of all and the			5	M

Cost Estimations Using Escalations



Memorial Hall - South - 3rd Floor

Water damage at a corner where downspout exists on interior Investigate downspout to determine the cause and location of the water infiltration. Repair as required.



Memorial Hall - South - 2nd Floor

Water damage at a corner where downspout exists on interior Investigate downspout to determine the cause and location of the water infiltration. Repair as required.

		ESCALATION								
		YEAR 1	YEAR 3	YEAR 5	YEAR 10					
		8% P.A. TOTAL COST	6% P.A. TOTAL COST	4% P.A. TOTAL COST	4% P.A. TOTAL COST					
	SUMMARY:	\$	\$	\$	\$					
C.	AUDITORIUM & STAGE									
	AV Patch Panel	\$9,000	\$11,000	\$12,000	\$15,000					
	Balcony Drips	\$3,000	\$4,000	\$5,000	\$7,000					
	Paint Floors	\$4,000	\$5,000	\$6,000	\$8,000					
	Lighting - LED Bulbs	\$14,000	\$16,000	\$18,000	\$22,000					
	Lighting - Proscenium Sockets	\$10,000	\$12,000	\$13,000	\$16,000					
	Railing	\$25,000	\$29,000	\$32,000	\$39,000					
	Seating	\$25,000	\$29,000	\$32,000	\$39,000					
	Speakers	\$54,000	\$61,000	\$66,000	\$81,000					
	Stage Curb	\$10,000	\$12,000	\$13,000	\$16,000					
	Stage Floor	\$12,000	\$14,000	\$16,000	\$20,000					
	Plaster Walls	\$98,000	\$111,000	\$121,000	\$148,000					
	Storm Windows	\$63,000	\$71,000	\$77,000	\$94,000					
D.	BACK OF HOUSE (BASEMENT)									
	Concrete Cracks	\$33,000	\$38,000	\$42,000	\$52,000					
	Concrete Floor	\$26,000	\$30,000	\$33,000	\$41,000					
	Ramp	\$17,000	\$20,000	\$22,000	\$27,000					
	Walls Scuffs/Damage	\$9,000	\$11,000	\$12,000	\$15,000					
	Fireproofing	\$11,000	\$13,000	\$15,000	\$19,000					
	Pipes	\$8,000	\$9,000	\$10,000	\$13,000					
E.	BACK OF HOUSE									
	Floors - Misc	\$17,000	\$20,000	\$22,000	\$27,000					
	Floors- Marble	\$7,000	\$8,000	\$9,000	\$11,000					
	Wall Scuffs/Damage	\$11,000	\$13,000	\$15,000	\$19,000					
	Fireproofing	\$7,000	\$8,000	\$9,000	\$11,000					

Cost Estimations Using Escalations



South Carriageway - Roof

Extensive corrosion of existing cooling tower support steel. Steel has painted finish (not galvanized).

Remove exist paint and corroded surface steel. Depending on corrosion depth, reinforcement/replacement may be needed. Repaint with rust preventative paint.



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			ESCALATION VEAD A VEAD A							
			YEAR 1 8% P.A.	YEAR 3 6% P.A.	YEAR 5 4% P.A.	YEAR 10 4% P.A.				
			TOTAL COST	TOTAL COST	TOTAL COST	TOTAL COST				
L		SUMMARY:	\$	\$	\$	\$				
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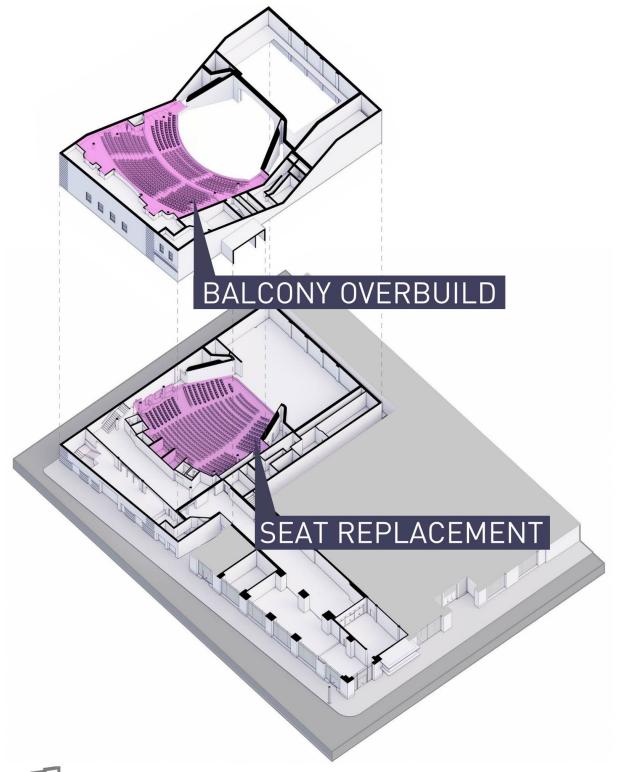


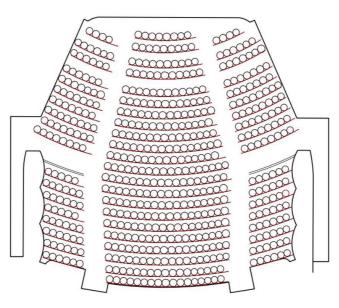
Reserved Study/Feasibility Study for Fundraising Purposes

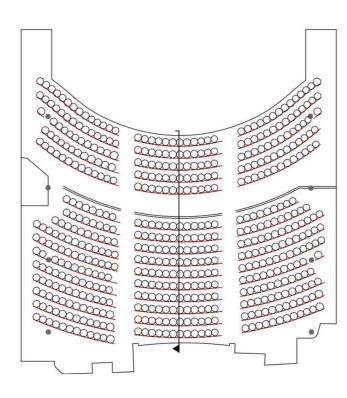
Fine-tune assessment for fundraising presentation



Seating Replacement



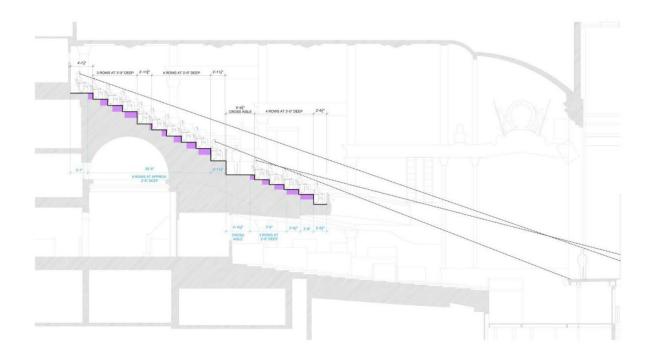




PROPOSED SEATING

Lower Level		Lower Level	<u>.</u>
19" – 1,	0%	19" – 8,	1%
20" - 163,	29 %	20" - 145,	26%
21" - 207,	37 %	21" - 209,	38%
22" - 185,	33%	22" - 181,	33%
23" - 10,	2%	23" - 7,	1%
Total - 566		Total - 550	

Total Fixed Seats - 1,116

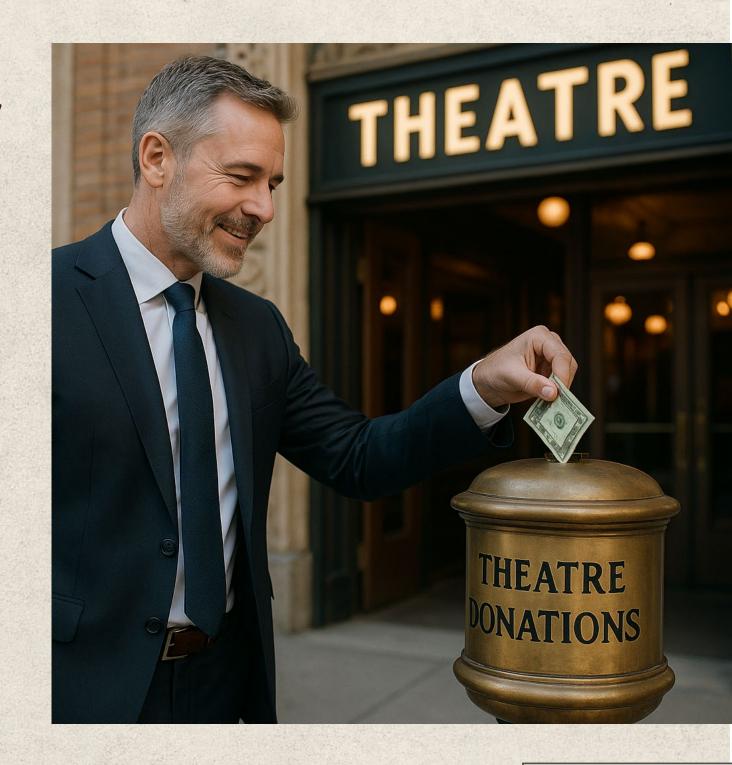




PITTSBURG	H CULTUR	AL TRUST											
BYHAM THE	ATER												
RESERVE S		IE 30, 2023											
PRIORITY	ITEM	ITEM DESCRIPTION	MANUFACTURER	MODEL	QTY.	USEFUL LIFE	YEARS IN USE	REMAINING LIFE	REPLACEMENT COST	RESERVED PER YEAR	LEFT TO RESERVE	RESERVED TO DATE	NOTES
A. The exterior 1 A	• • • • • • • • • • • • • • • • • • •		_		-	_	\vdash	-			_		
A: Theatrical A	Audio Video S	ytems	_	_	_	_	-	_	-		_	_	
Main Sound Sy	ystems												
1	6	Main PA Replacement	Custom		1	15	20	-5	\$100,000			\$100,000	If Meyer M'elodie is moved over from Benedum Center, cost includes estimate for rigging and electrical upgrades
1	7	DSP Replacement	Various		1	10	25	-15	\$25,000			\$25,000	Cost estimate based on QSC 610i or equivalent new DSP with redundancy and network infrastructure
1	8	Assistive Listening System	Sennheiser	IR	1	15	20	-5	\$25,000			\$25,000	Cost estimate based on Sound Associates headsets with Listen Technologies type head end
Support Syster	ms						$\overline{}$		$\overline{}$				
2	2	Signal Distribution	Various		1	10	20	-10	\$75,000			\$75,000	Cost estimate based on new plates and network based signal distribution
2	3	Stage Fill	Various		1	10	25	-15	\$20,000			\$20,000	Cost estimate based on qty (4) 12" two way modern speakers with amplification
2 Distributed Sys	4	Intercom Update	Cleacom		1	15	20	-5	\$75,000			\$75,000	Cost estimate based on Clearcom Arcadia
2	7	Lobby Infrastructure	Various		1	20	30	-10	\$75,000			\$75,000	Cost estimate for displays, speakers, cabling and infrastructure
2	8	Meeting / Presentation	Various		1	10	20	-10	\$50,000			\$50,000	Cost estimate for projection, screen, laptop interface and associate infrastructure
B: Theatrical L	Lighting Syste	ems					$\overline{}$		$\overline{}$				
Power Distribu	1	Dimmor Dook 49 module	FTC	Canaar Classia		20	20	- 0	£40,000			£40,000	
1	10	Dimmer Rack, 48-module	ETC	Sensor Classic	4	20	28	-8	\$40,000			\$40,000	Assumes hybrid dimmed/switched system. Includes
1	10	Power Control Modules	ETC	Various	192	20	28	-8	\$200,000			\$200,000	house/run/work light power controls
1	10 10	Dimmer Doubling System Receptacle Devices, Distribution	ETC	-	300	20 50	28	-8 22	\$100,000 \$75,000	\$1,500	\$33,000	\$100,000 \$42,000	Quantity indicates total circuits
Control System		Insceptable Devices, Distribution			344	50			φ/ 5,000	φ1,500	φου,000	φ 4 ∠,000	Quantity indicates total circuits
1	 11	Control Console	ETC	lon	1	10	10		\$40,000			\$40,000	Estimated years in use
1	11	Remote Video Interface	ETC	RVI	1	10	10		\$12,000			\$12,000	Estimated years in use
1	11	Network Control Rack and electronics			1	20	10	10	\$36,000	\$1,800	\$18,000	\$18,000	Includes switches, DMX nodes, repeaters, etc.
1	11	Wireless Network			1	20	10	10	\$1,000	\$50	\$500	\$500	
1 Theatrical Ligh	11	Receptacle Devices, Control		-	LOT	20	28	-8	\$45,000		\vdash	\$45,000	Replacement costs include portable DMX nodes
	ling Fixtures						\vdash	\vdash					Costs are based on one-for-one replacement of
2	5	Ellipsoidal Reflector Spotlights	ETC	Source Four	192	20	28	-8	\$875,000			\$875,000	incandescent fixtures with color-changing LEDs. Costs are based on one-for-one replacement of
2	5	Ellipsoidal Reflector Spotlights, Zoom	ETC	Source Four Zoom	60	20	28	-8	\$240,000			\$240,000	incandescent fixtures with color-changing LEDs. Assumes re-use of existing lens tubes.
2	5	PAR fixtures, 550W	ETC	Source 4 PAR	40	20	28	-8	\$140,000			\$140,000	Costs are based on color-changing LED fixtures
2	5	PAR fixtures, 1kW	L&E	PAR 64	12	20	28	-8	\$45,000			\$45,000	Costs are based on color-changing LED fixtures
2	5	Fresnel, 8"	L&E	T 2	38	20	28	-8	\$150,000			\$150,000	Costs are based on color-changing LED fixtures
2	5	Cyc Striplight, 6'	L&E	T-3	5	20	28	-8	\$30,000			\$30,000	Costs are based on color-changing LED fixtures
2 2	5	Cyc Striplight, 7' MR-16 Striplight, 8'	L&E L&E	T-3 Mini-strip	5 4	20 20	28 28	-8 -8	\$30,000 \$24,000			\$30,000 \$24,000	Costs are based on color-changing LED fixtures Costs are based on color-changing LED fixtures
2	5	Followspots	Lycian	M-2	2	20	28	-8	\$35,000			\$35,000	Costs are based on color-changing LED lixtures Costs are based on color-changing LED fixtures
2	5	Hardware	Various	IVI-Z	LOT	50	28	22	\$10,000			\$10,000	Soots are based on color-changing LLD lixtures
2	5	Fixture Accessories	Various		LOT	20	28	-8	\$15,000			\$15,000	
2	5	Portable stage cables	Various		LOT	20	28	-8	\$45,000			\$45,000	
Cue Light Syst	tem												
2	5	Cue Light Control System			1	30	28	2	\$12,000	\$400	\$800	\$11,200	
2	5	Cue Light Receptacle Devices			LOT	30	28	2	\$3,000	\$100	\$200	\$2,800	
Enhanced Usal	bility	2000// Bolov Bonol & Dietriky ti				- 05	\vdash	- 05	£40.000			£40,000	
-	-	208V Relay Panel & Distribution			1	25	\vdash	25	\$18,000			\$18,000	
-	-	Backup Processor for Control Console As-Built Documentation / Conduit Inventory	_		1 1	10 20	\vdash	10 20	\$18,000 \$10,000			\$18,000 \$10,000	
-	-	73-Dailt Documentation / Conduit inventory			1	20		20	φ10,000			ψ10,000	







Assessments

Owners Perspective / Approach

~Decision making process to do study before repairs

~Evaluation of Venues – Scope & Programming

~Funding for the study

~Know the 'history' of your historic theatre (Document! Document!) Find them <u>and</u> create them.





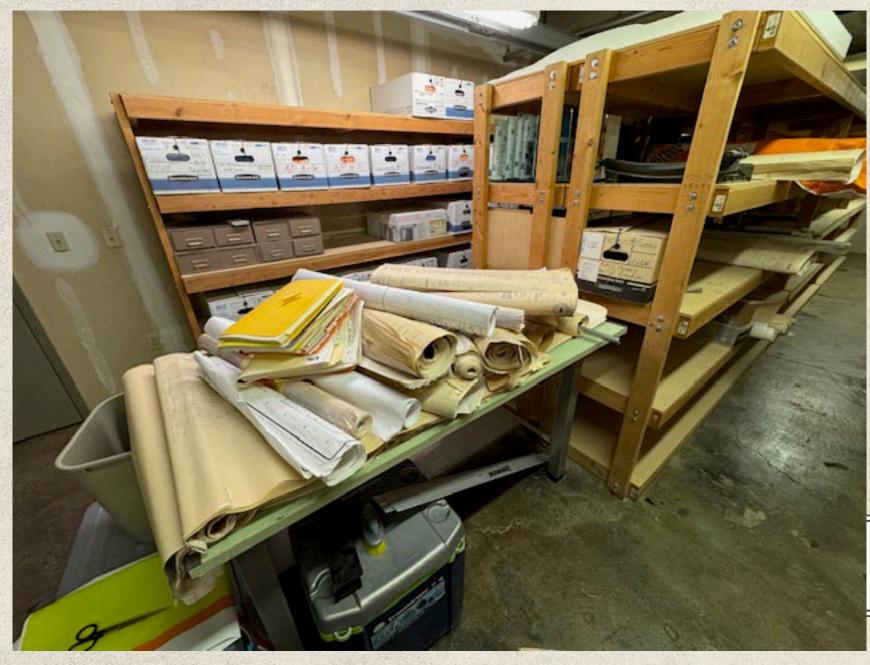


Document document !!!!

YES!!!



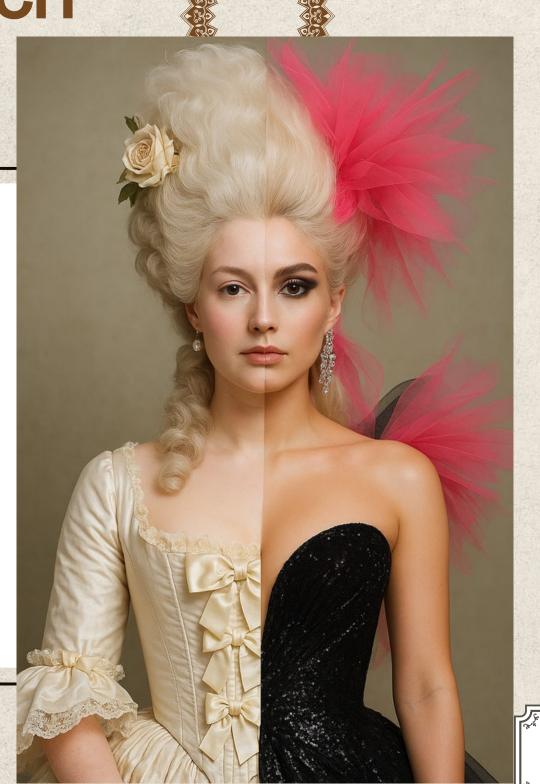
NO!!!



Owners Perspective/Approach



Compromises?





Decision Making



"Too many cooks spoil the broth."

-Jane Austen

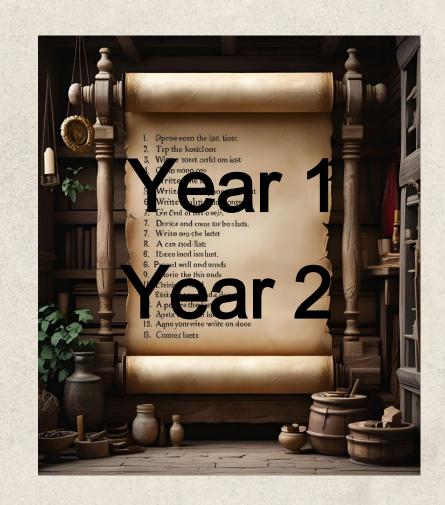


BUDGETING & PLANNING

- Time and Cost Projections
- 2
- Priority Lists/Rolling Capital



Planning & Phasing



BUDGETING & PLANNING Planning & Phasing – Simple Spreadsheet

	1															
B	BENEDUM 1-				Not Started	In December	On Hald	Complete	EEE Dunahaaad	ander Carteri	TDD					
	5	PRIORITY 2 3 4	TECH COMPONENTS		Not Started ON	In Progress ON	On Hold ON	Complete ON	FFE Purchased ON	ON Contracte	TBD OFF					
			STAGE						· · ·							
							ANTICIPATED				ACTUAL			Power BI Status	LIFE SAFETY Code	N/A Permit No Permit
	NUMBER			STATUS IT	OWNER	TO 💌	START DAT	END DATE 💌	START DAT	END DATE 💌	COST 💌	NOTES *	COMPLETE DESCRIPTION T	▼	OSHA 💌	Third Par.
-	01.101-T		THEATRICAL Stage View Program Camera	Not Started	Wendy Riggs							Add theater	The existing video camera is outdated and	1-3 Year	End of Life	
			Replacement									wiring and conduit, costs	should be replaced with a current model with would include Pan Tilt Zoom. As part of the replacement the signal connectivity and distribution path for the device must be reviewed.			
	01.102-T	2	Intercom Headend Update	Not Started	Wendy Riggs							FFE and labor	The current intercom headend is at end of life,	1-3 Year	End of Life	
					,							only Putting 75,000 in FFE	intercom is a critical part of the Theater workflow providing communications			
												need equipment	throughout. The next generation of the Clear- Com product line will support both wired and wireless communications using digital audio			
													for flexible routing.			
	01.103-T		AV System Documentation, Conduit , Cable	Not Started	Wendy Riggs								As is common with a facility of this age that there are plates, cabling and devices that have been abandoned or	1-3 Year	End of Life	
												1	no longer function. In order to make room for future upgrades and to			
Ž,													provide for a clear workflow and system topology, it is recommended that a systems documentation effort occur as			
V													a first step. When this is completed, anything that is no longer in use can			
IK!													be removed and after removal a "conduit inventory" study can be			
													conducted to complete the system documentation. This will provide a			
2	01.104-T	2	Orchestra Pit Lifts	Not Started	Wendy Riggs								solid foundation for planning moving There are two orchestra pit lifts at the		End of Life	
	2.2011	_	Ordifestra Pit Liits	Not Started	Welldy Riggs								front of the stage. These lifts are		Show Stopper	
14.												motors with	operated by multiple hydraulic motors			
													that drive a mechanical roller chain			
													assembly. This equipment has been very well maintained. The control system is			
													a PLC based system; while some			100
												in control sytem	replacement components have been stocked, components for this type of			
7		77:1						(6	V V	(9)			Isystem are hard to source Recause of the			
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BUDGETING & PLANNING Planning & Phasing - Advanced

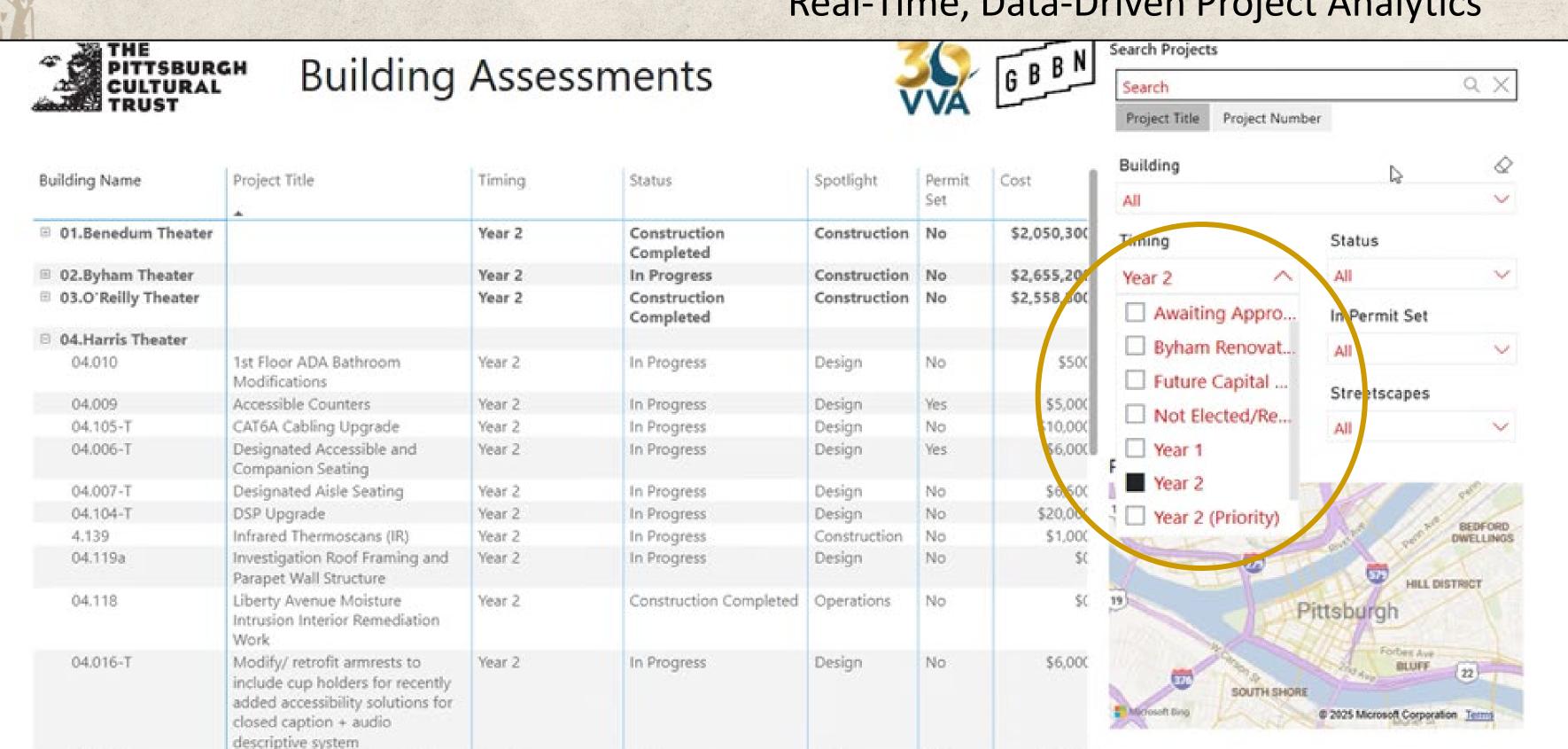
Boof Framing and Darnet Wall

04.110%



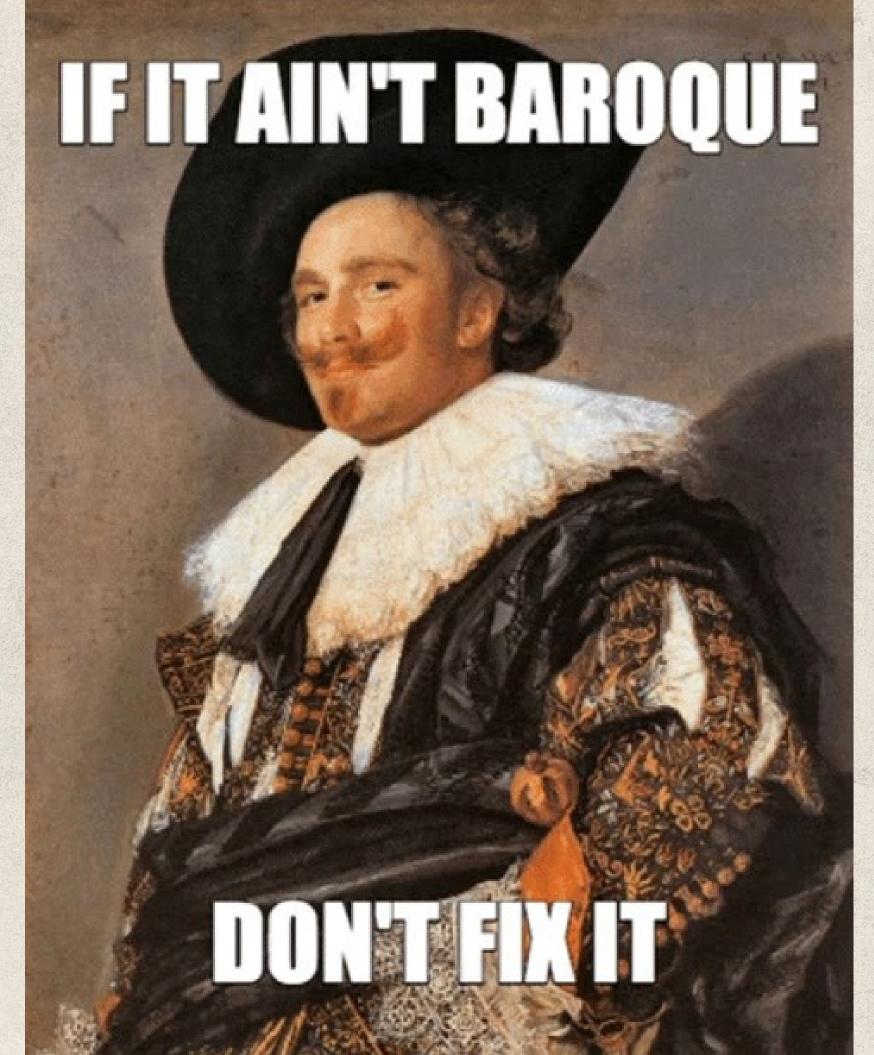
Real-Time, Data-Driven Project Analytics

\$30.000









NRONG!





01.02-T: STAGE CURTAIN REPLACEMENT

Building: Benedum Theater / Stage / Proscenium Opening

Priority: Life Safety / Code

Existing Conditions:

The main drape is original to the building and not constructed of inherently flame retardant (IFR) fabric.

- Current building code require all stage draperies to be IFR for safety.
- The back lining of the curtain has dry rotted and was removed. The lining provided/provides opacity to the curtain (light bleed).
- The lining will help to prevent any damage to the face fabric by set pieces that may encounter the back side of the drape. Additionally, a lining will slow the process of the fabric becoming brittle when exposed at proximity to stage lights.

Supporting Code Reference:

NFPA 701

Narratives:

<u>Architectural / Theatrical</u>:

- Remove existing drapery.
- Furnish and install new drapery constructed of
- - 100% IFR, 32 oz, polyester velour fabric.
 - BOD: Rose Brand, "Royale".
- Line with black IFR lining fabric.
 - BOD: Rose Brand, "Avora Lining".
- Curtain Size: 75' wide x 35' tall
- Match existing curtain style (traveler/bi-parting).
- Match existing fabric color.
- Match existing fullness and pleating.
- Match side finish and bottom finish.
- Match existing bottom tassels.
- Confirm existing motor is adequate for operating new drapery.

Basis of Design:

Acceptable manufacturers include:

- Rose Brand
- Stage Decorators & Supplies, Inc.

Potential /Permits:

None Anticipated



Figure 1: Main Drapery from Stage Side





Figure 2: Main Drapery from Audience Chamber

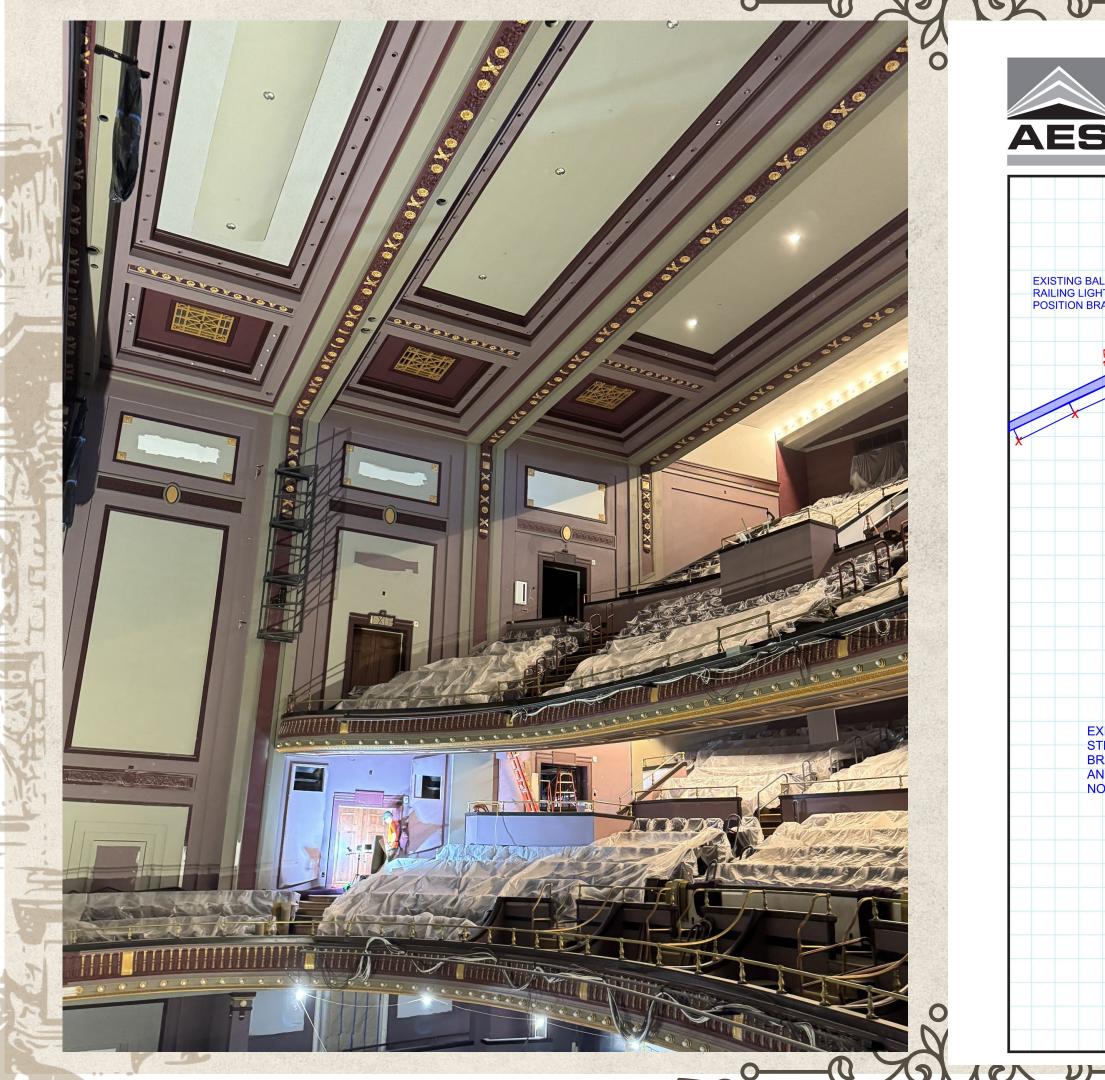


Date: 04.03.2024

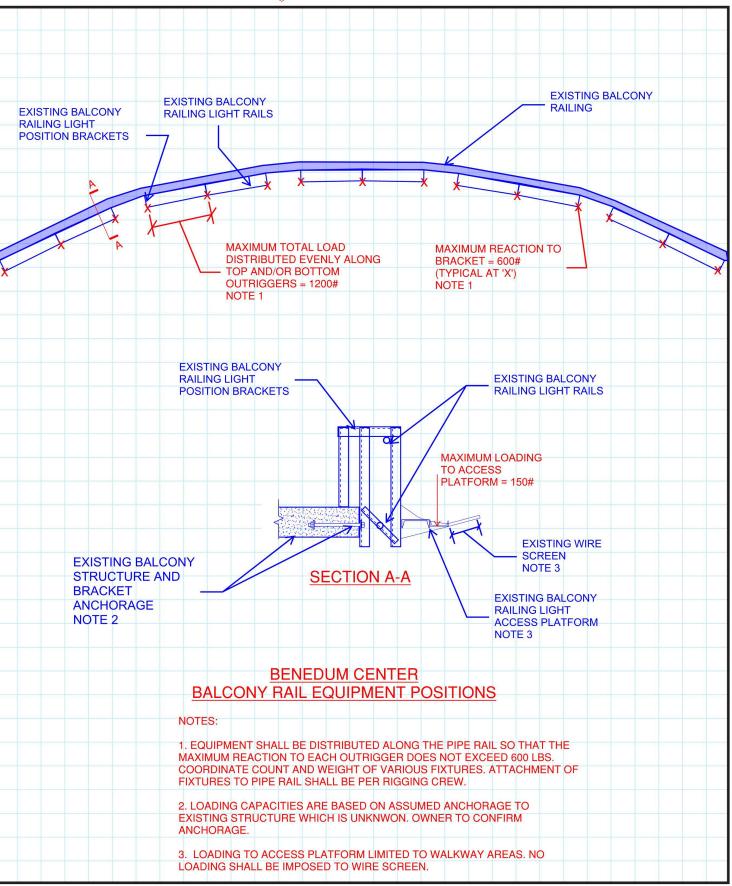
Theater Assessment, Pittsburgh Cultural Trust













ACCESSIBLE SEATING

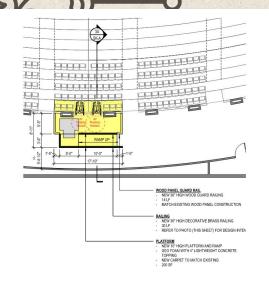


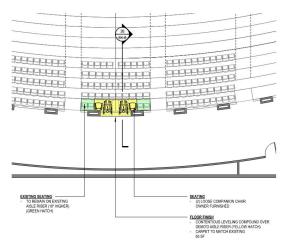
OPTION "A"
ACCESIBLE RAMP IN LOBBY
- 1 SEAT

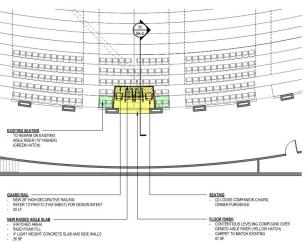


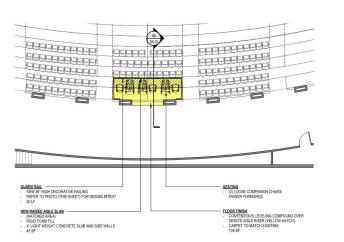
OPTION "C"
PROJECTECTED PLATFORM
- 9 SEATS

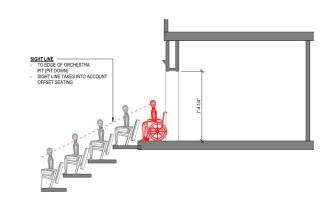
OPTION "D"
PROJECTECTED PLATFORM
-15 SEATS

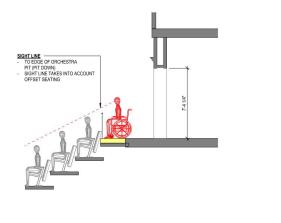


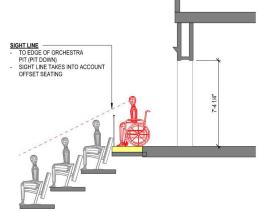






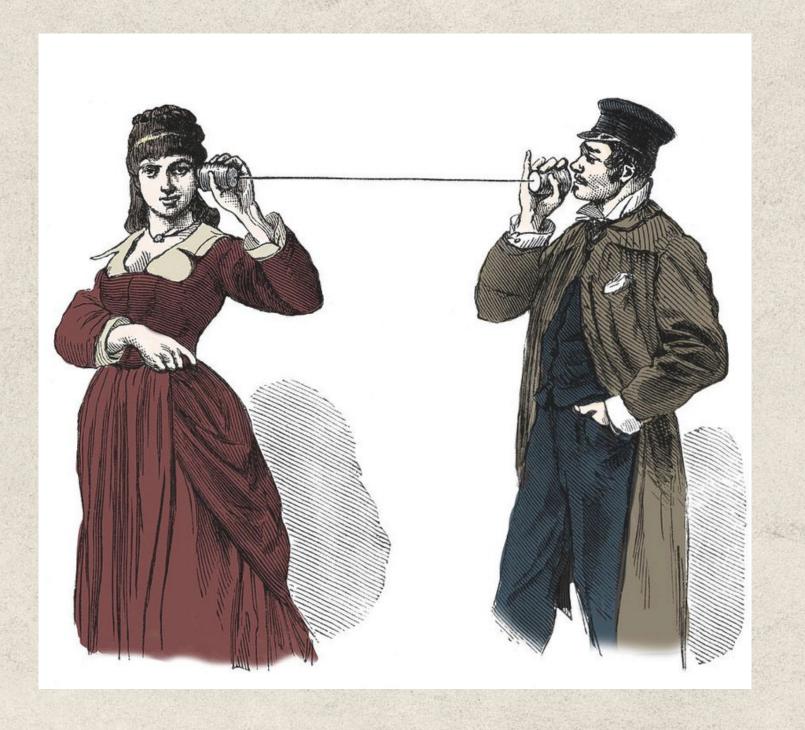


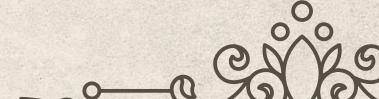






Communication





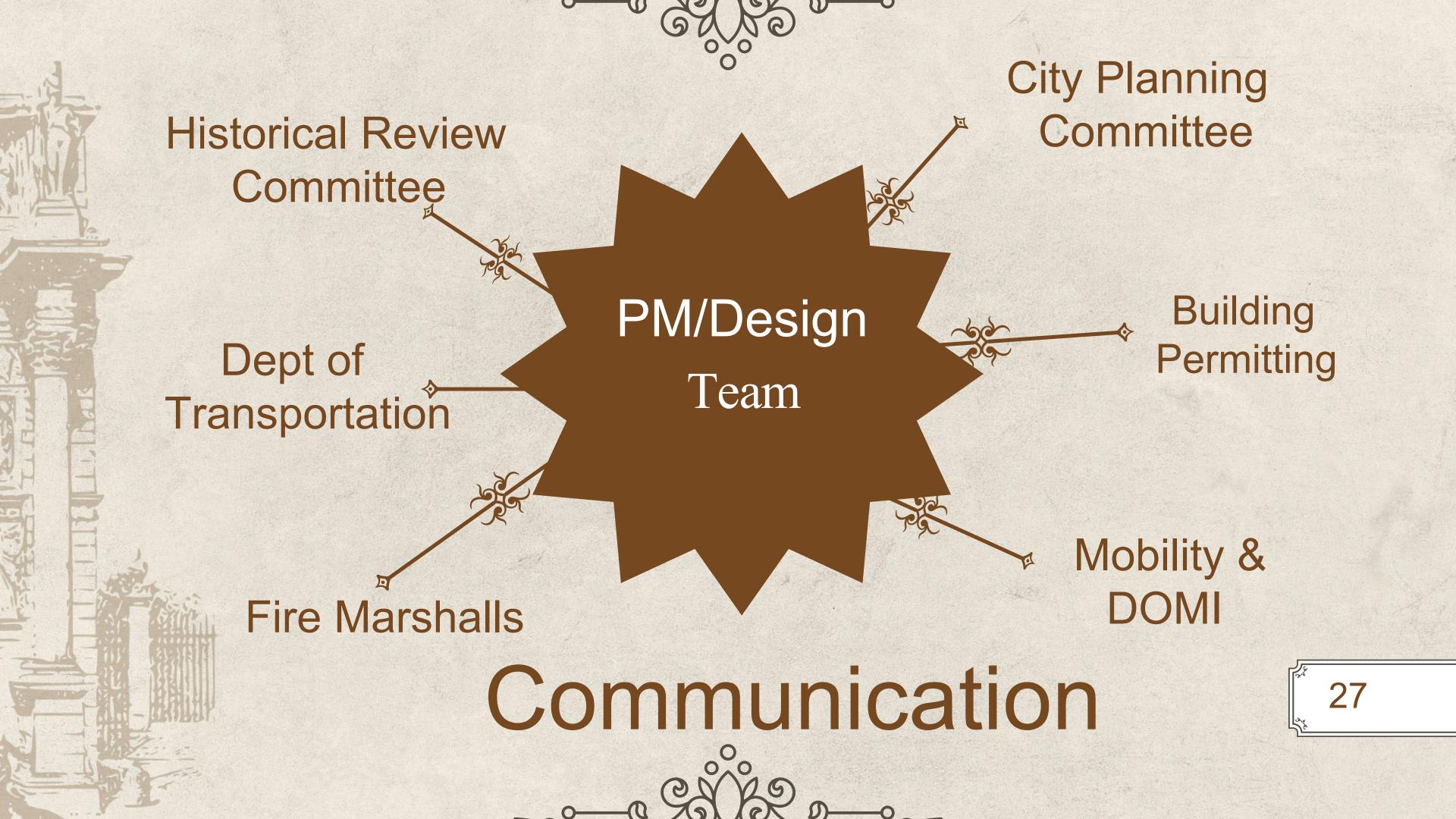




Donors



Don't forget!





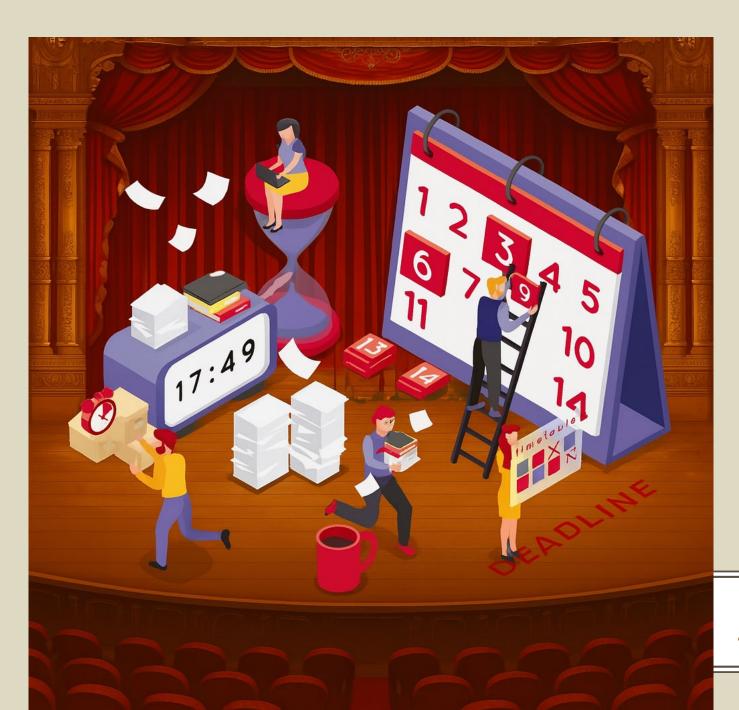


IMPLEMENTATION CHALLENGES

Scheduling/Operations/Shows

Dark Days/Routine Maintenance

Personnel







IMPLEMENTATION CHALLENGES



Lead Times

Additional Permitting

Unexpected Repairs/Projects

And....



IMPLEMENTATION CHALLENGES



Unforeseen

Conditions





In Summary...

BE PREPARED

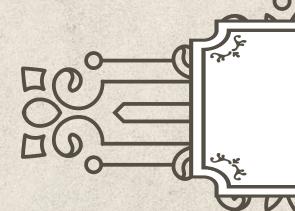




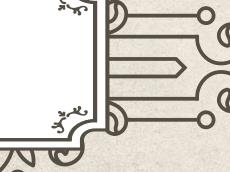
Prepare for these challenge ahead of time



Questions & Discussion



Reach Out!





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