

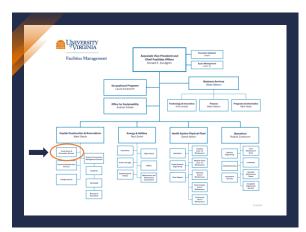
Have a question or comment?

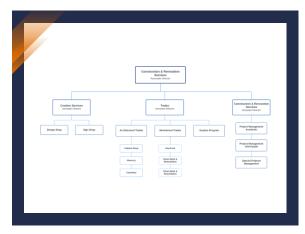
Feel free to ask or share during the presentation

Open discussion format



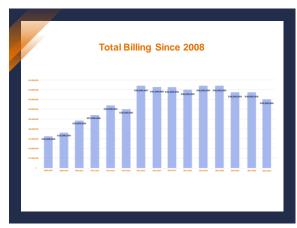






Our Construction Staff Field Office Carpentry Construction management Cabinetry Project Managers Masonry Superintendents Electrical Associates Trades management Sheet metal Plumbing Supervisors Plaster/Drywall Estimating Signage Scheduling/Resourcing(*shared) Environmental Remediation Contract Administrators (Central) General services Administrative Support (Shared)

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At your tables, list 1-2 benefits and challenges of an in-house construction group. 5-7 minutes



Benefits of in-house construction

- Share a common mission with the institution
- Ownership and partner with maintenance staff
- · Higher quality work
- · Lower construction costs
- Lower project costs
- Institutional knowledge · Increased responsiveness
- Return costs not expended (when does a GC do this?)
- Emergency response
 2020 COVID-19 response as an example

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Challenges with in-house construction Fixed workforce with a varying workload Workload level Fleet management Different procurement laws Client perception Ability to hire temp/contract labor • Local contractors perception Union workforce and non-union labor in some areas Accounting process not designed for construction services billing Billing rates (regular vs. OT)

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DARDEN MEDIA CENTER UVA Darden School of Business

- Convert existing tiered classroom to accommodate two new media rooms to allow for virtual instruction.
 Total project \$192K
 Fixed price \$138K

- Construction start June 2020
 Construction complete August 2020





ABBOTT CENTER DINING

UVA Darden School of Business

- Renovate existing dining facilities. This portion is the first phase only.
 Total project \$750K
 Fixed price \$580K
 Construction start June 2020

- Construction complete August 2020

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DARDEN ILAB AND CLASSROOM

UVA Darden School of Business

- Renovate to allow for relocation of iLab and convers of two tiered classrooms to on large open floor plan classroom. In addition, the renovation included the addition of windows to allow for light.
 Total project \$1.4M
 Fixed price \$1.2M
 Construction start May 2020

- Construction complete August 2020

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VISITOR TEAM LOCKER ROOMS

John Paul Jones Arena



- Relocation of visiting team locker rooms to allow for expansion of the Men's Basketball Performance Center.
 Total project \$1.5M
 Fixed price \$1.3M

- Construction start October 2019
 Construction complete March 2020

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PERFORMANCE CENTER

John Paul Jones Arena

- Expansion of previous strength and conditioning space to accommodate programmatic needs.
 Total project \$4.1M
 Fixed price \$3.1M

- Construction start March 2020
 Construction complete November 2020

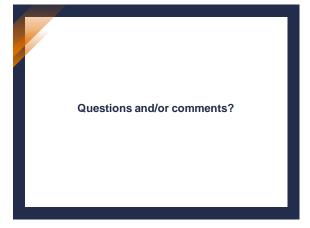
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DINING HALL AND COURTSIDE CLUB John Paul Jones Arena

- Renovation of existing Athletic Dining facility at IPI. This renovation includes accommodations for the courtside club space lost during the relocation of the Visitor Team Locker Rooms.
 Total Project 52.4M
 Fixed Price 51.4M
- Construction start July 2020
- Construction complete Feb 2021





HOW CAN WE EVALUATE IF THIS IS FEASIBLE FOR MY INSTITUTION?

CREATING A PROPOSAL

- Purpose
 - What are you evaluating?
 - What is the objective?
 - What is your process?
- Data/Research
 - What was your process?
 - Outline of findings
- · Analysis of Data
- Recommendation

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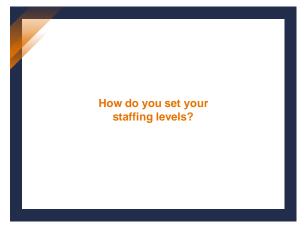
FAT TUESDAY ACADEMY

ASSUMPTIONS:

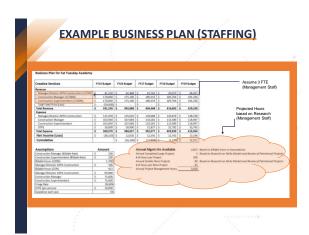
- FAT TUESDAY ACADEMY IS INTERESTED IN CONSIDERING THE FEASIBILITY OF AN IN HOUSE CONSTRUCTION UNIT.
- WE ARE A RECOVERABLE ORGANIZATION
- WE WILL USE EXISTING POSITIONS AND RESTRUCTURE TO START.
 - WE HAVE SOME A SMALL PROJECT TEAM THAT WE WILL INCREASE SCOPE OF PROJECTS.
 - WE HAVE SOME INTERNAL TRADES AND CAPACITY TO SHIFT THEM TO A SMALL GROUP FOR TESTING.

	- 1				100	7.0
Business Plan for Fat Tuesday Academy						
Creative Services	FY25 Budget	FY25 Budget	FY27 Budget	FY28 Budget	FY29 Budget	
Deserve						J
Monager/Skiector APPA Construction (1/25%)	5 65,250	5 42,688	5 43,762	\$ 45,075	5 46,427	1
Construction Manager (1/100%)	5 170,000	5 175,100		5 385,764		1
Construction Superintendent (1/100%)	\$ 170,000	\$ 175,100	\$ 180,353	\$ 185,764	\$ 191,336	1
	5 (50,000		5 -	5 -	5 -	
Total Revenue	\$ 331,250	\$ 192,688	\$ 604,669	\$ 416,602	\$ 429,100	
Expense						
Manager/Director APPA Construction	\$ 131,670					
Construction Manager	5 108,950					
Construction Superintendent	\$ 300,950					
OTPS	5 30,000					
Total Expense	\$ 360,570					
Net Income (Loss)	\$ (38,320	S 12,030	\$ 12,391	\$ 12,763	\$ 13,146	
Cumulative		5 (26,290)	5 (13,898)	5 (1,130)	\$ 12,011]
Assumptions	Amount		Annual Mgmt	Hrs Available	2,812	Based on billable hours in Assumptions
Construction Manager (Billable Fate)	\$ 100		Annual Completes			Based on Research on Niche Market and Review of Potentianal
Construction Superintendent (SEBable Rate)	\$ 100		# of Hours per Pro		300	
Billable Hours (000%)	1,700		Annual Smaller Re			Based on Research on Niche Morket and Review of Potentianal
Manager/Director APPA Construction	\$ 100		# of hours per Ren		45	
Billable Hours (25%)	413		Annual Project M.	anagement Hours	3,600	
Manager/Director APPA Construction	5 95,000					
Construction Manager	\$ 75,000					
Construction Superintendent Frince Rate	\$ 75,000					
	\$ 10,000	6				
OTPS (per person) Escalation each year	3 20,000	-				









| Business Plan for Trades at Fat Tuesday Academy | P22 Budge | P22 Budge | P22 Budge | P23 Budge | P2

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				ı.
office	turniture	and (eguipmen	ıt

labor

employee benefits

shop rent and upkeep

vehicles

management

TYPICAL OPERATING EXPENSES

support salaries

Supplies – Sanitization

travel and training

equipment

tools

						7.0
Business Plan for Fat Tuesday Academy						
Creative Services	PY25 Budget	FY26 Sudget	FY27 Budget	FY28 Budget	FY29 Budget	Assumption p Based on you
December						organization's
Manuser/Director APPA Construction (\$/25%)	5 41,250	5 42,488	5 41.762	5 45,075	5 46,427	calculations
Construction Manager (1/300%)	5 170,000					
Construction Superintendent (1/500%)	5 170,000			5 185,764		
Total Flord Prize Bossi	5 00,000		\$	5	5	1.1
Total Revenue	5 851,250		5 404,468	5 416,602	5 429,100	1
Expense						5.
Manager/Director APPA Construction	\$ 131,670					
Construction Manager	\$ 101,050	\$ 507,009	\$ 110,281	5 113,580	\$ 116,997	1
Construction Superintendent	\$ 103,950	5 107,069	\$ 120,281	5 113,589	5 316,997	1.1
	2 30,000					
Total Expense	\$ 169,570					
Net Income (Loss)	\$ (38,320	5 12,000	\$ 12,391	5 12,763	\$ 13,146	
Cumulative		\$ (26.290)	\$ [53,898]	5 (1,13%)	5 17,011]
Assumptions	Amount		Annual Memt	Hrs Available	3.623	Based on billable hours in Assumptions
Construction Manager (Billable Rate)	\$ 100		Annual Completes	Lorge Projects		Based on Research on Nichr Market and Brolew of Patentions
Construction Superintendent (Billable Rate)	5 100	1	# of Hours per Pro		300	
Billuble Hours (300%)	1,700	1	Annual Smaller for			dased on Research on Niche Market and Review of Potentions
Manager/Director APPA Construction	5 100		# of hours per fier		45	
(Klable Hours (25%)	413	1	Annual Project M	anagement Hours	3,400	20
Manager/Director APPA Construction	\$ 95,000					
Construction Menager	\$ 75,000					
Construction Superintendent	5 75,000	1				
Fringe Rate	38,609	10				
OTPS (per person)	5 10,000					
Escalation each year	39					







Business Plan for Trades at Fat	Tuesday A	Icademy								
Creative Services		Y25 Budget	,	Y26 Budget		Y27 Budget	P	r28 Budget	F	Y29 Budget
Revenue										
Trades Manager (1/0%)	5		\$		5	-	\$		\$	
Carpenter (4/100%)	5	408,000		420,240		432,847	S	445,833		459,208
Electrician (4/100%)	- 5	462,400		476,272		490,560	5	505,277		520,435
Mechanical/HVAC (4/100%)	5	462,400		476,272			\$	505,277		520,435
Total Revenue	\$	1,532,600	5	1,372,784		1,413,968	\$	1,454,387		1,500,078
Expense	-									
Trades Manager (1/0%)	5	124,740		128,482		132,337 370,543		136,307		140,396 393,109
Carpenter (4/100%)	5	349,272 378,378		359,750		401,421		381,659 413,464		425,868
Electrician (4/100%) Mechanical/HVAC (4/100%)	5	378,378		389,729		401,421	5	413,464		425,868
OTES	- 3	130,000		133,900		137,917	0	142,055		146,316
Start Up Equipment/Tools	3	60,000		133,900	3	137,917	3	142,055	-	140,310
Total Expense	- 2	1.420.768		1.401.591	÷	1.443.639	-	1.406.948	-	1 531 556
Net Income (Loss)	-	(87,968)		(28,807)		(29,671)		(30,561)		(31,478)
Cumulative	2	(87,908)	3							(31,478) (208,486)
Cumulative			5	(116,775)	5	[146,446]	5	(177,008)	5	(208,486)
Assumptions		Amount								
Carpenter	5	60.00		RATE CHE	CK	(Mechanical/	Elec	trical):		
Electrician	\$	68.00		\$88,250 / 2080 hours = \$32.81/hr \$32,81/hr * 2 = \$65,62/hr						
Mechanical/HVAC Tech	5	68.00						· •	•	
Billable Hours		1,700		Approximat	sery:	2x Hourly Ra	100			
Trades Manager	5	90,000		DATE CHE	cv	(Carpentry):				
Carpenter	5	¥ 63,000				hours = \$30.	203		1	,
Electrician	- 5	68,250		\$30.29.hr	2=	\$60.5		_ \	•	
Mechanical/HVAC Tech	5	68,250		More than 2	2x H	outly Rate				
Fringe Rate		38.60%								
OTPS (per person)	5	10,000								
Escalation each year		3%								

Profit and loss
Project profit/loss limits Overall profit/loss distribution Profit/loss carryover

Business Plan for Fat Tuesday Acades	14					
Creative Services	PY25 Budget	FY26 Budget	FY27 Budget	FY20 Budget	FY29 Budget	
Terrera					-	
Manager/Streeter APPA Construction (L/25)	NI 5 41,350					
Construction Manager (\$/300%)	5 170,000	5 175,100	\$ 180,353	5 185,764	\$ 191,336	
Construction Superintendent (1/506%)	\$ 170,000		\$ 180,853	5 585,764	\$ 191,336	
Total Baseness	5 891,250		5 404,468	5 416.602	5 429,100	
Expense	5 111,750	2 347,664	5 404,668	3 416,602	3 429,100	
Manager/Stractor APPA Construction	16 111.670	5 131.620	5 133,689	5 143,879	5 145.196	
Construction Manager	5 181,950			5 213,589	5 135,997	
Construction Superintendent	\$ 103,950	\$ 007,009	5 110,281			
ares	\$ 30,000		\$ 31,827			
Total Expense	5 569,570					
Net Income (Loss)	\$ (38,320)					
Comulative		5 (24.290)	5 (13,898)	5 (3.135)	\$ 17,011	
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Intakie Hours (25%)	9 100			no moject fanagement Hours	3,600	
Manuar /Director APPA Construction	5 95,000		Acresa Project Ac	anagement rooms		
Construction Manager	5 75,000					
Construction Superintendent	5 75,000		1 • P	roject Pro	ofit/Loss	Limits
Fringe Rate	10.60%		1 '			
0795 (per person)	\$ 10,000		- 1			ojects for data on total projected
Escalation each year	3%		- 1	pro	iect billin	per year and use these limits
			_			
				to e	estimate p	ootential profit/loss
				Thi	e avamni	e uses a 1% profit on projected
				\$10	M in "bu	siness"
				Juneall De	ofit/Loca	Distribution
				rofit Loss		



Market niche • What is your target market? • Services offered and not offered? • Practical and imposed project size limitations

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Estimating and Bidding Work Estimating quantities and effort-hours Client should be given the option to use or not use in-house services Bidding against the market Fixed price work (FP) Time and materials basis (T&M) Guaranteed maximum price (GMP)

