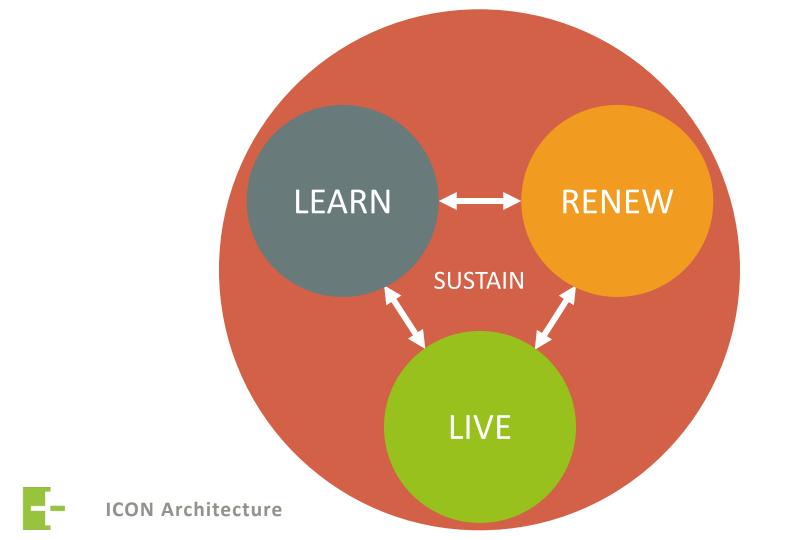


FAIRBANK COMMUNITY CENTER

Town of Sudbury March 2, 2020



Building Rejuvenation LEARN RENEW **Reduced Energy Demand & Lower GHG** Emissions SUSTAIN **Health & Well-being Universal Design** LIVE ICON Architecture



PERFORMING ARTS CENTER

CITY OF NASHUA, NH



ONE CANAL





ICON Architecture

A Feasibility Study Is:

- Analysis space program, costs, schedule, site and environmental conditions
- Assessment existing conditions site and building survey, evaluate pros and cons of alternate plans
- Identification risks and opportunities
- Determination practicality/viability of proposed plan

What It Is Not:

- A design
- An architect's opinion of what the program and client goals should be
- A comprehensive review of building codes, which is part of the design process
- A lofty, unattainable proposal

WHAT A FEASIBILITY STUDY IS AND IS NOT

Capital Project

- Owner
- Architects
- General Contractor

General Contractor (GC)

Construction Manager (CM)

Owner's Project Manager (OPM)

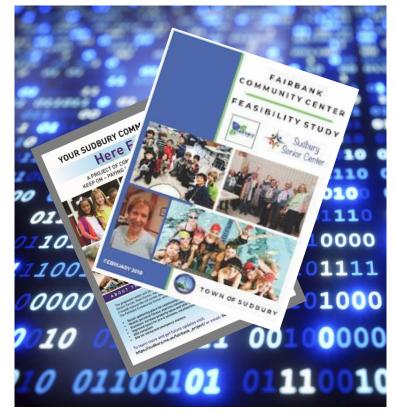
Commissioning (Cx)

Estimated Construction Cost (ECC) Total Project Cost (TPC)

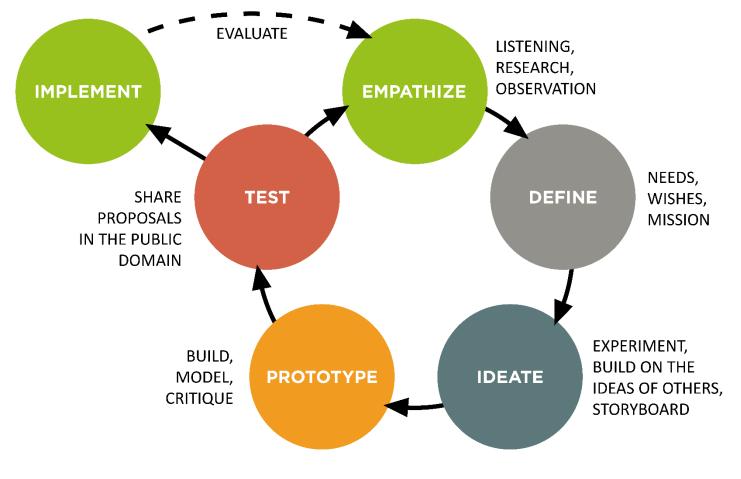


Assess practicality of a new Fairbank Community Center

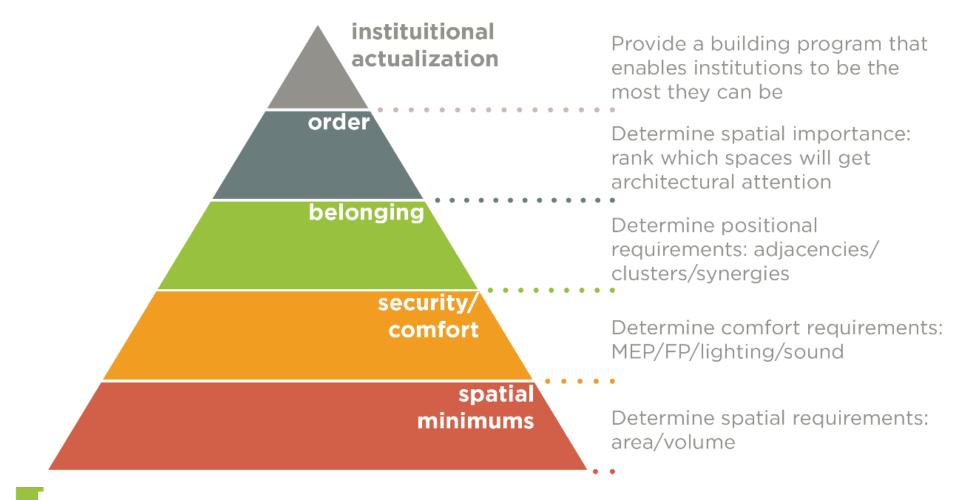
- Survey existing conditions
- Collaborate with stakeholders to determine needs
- Investigate programmatic efficiencies
- Rationally identify strengths and weaknesses
- Study multiple site and planning options
- Publish consensus program solution
- Establish cost parameters
- Deliver statement of probable costs and conceptual program diagrams



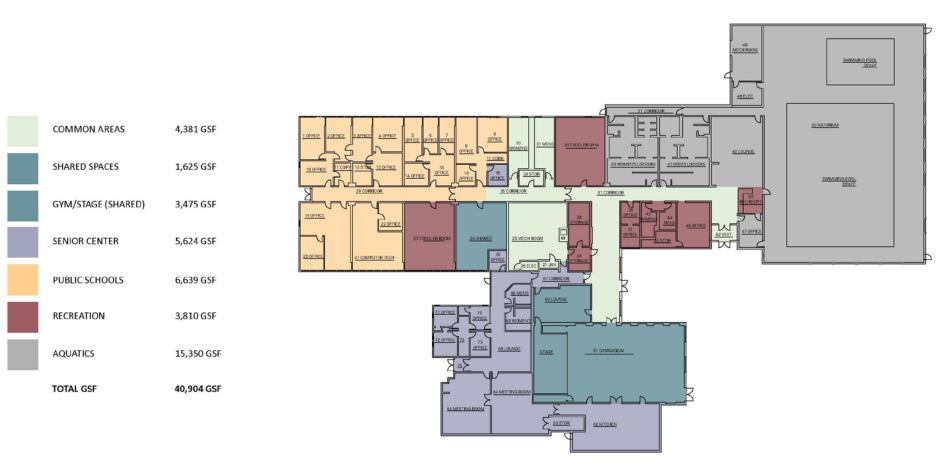
FAIRBANK COMMUNITY CENTER FEASIBILITY STUDY PROCESS



CLIENT APPROACH



PROGRAMMING MEETINGS/PROCESS



- EXISTING CONDITIONS

- Existing space isn't high quality
- Existing building is very deep - limited daylighting possibilities
- Already multiple additions
- High performing envelope becomes more challenging and expensive
- 15% cost difference between renovation and new; however, less risk
- Site Issues





- Library/Community Center Providence, RI
 65,000 GSF \$560/SF
- Community Center Connecticut
 - 35,000 GSF \$550/SF
- Community Center Massachusetts
 - 50,0000 GSF \$525/SF

The current proposal would have been priced at \$23.5M two and half years ago. (Roughly 14% escalation)



For Sudbury Community Center:

- Range \$515 \$525/GSF
- Gymnasia \$385/GSF

Cost/GSF includes:

- Site demolition
- Robust wall assemblies (durability)
- Commercial or catering kitchen
- Audio/Visual integration within (some) program rooms
- Multiple cladding options brick, curtain wall, etc.
- Site work (playing courts, gardens, parking, etc.)
- VRF HVAC system individual control/comfort

This is a medium-sized building, and there are limited economies of scale; smaller buildings cost more.

CONSTRUCTION COSTS (ESTIMATED COST OF CONSTRUCTION)

Add 30% to the Estimated Cost of Construction (ECC) for Total Project Cost (TPC).

The TPC includes:

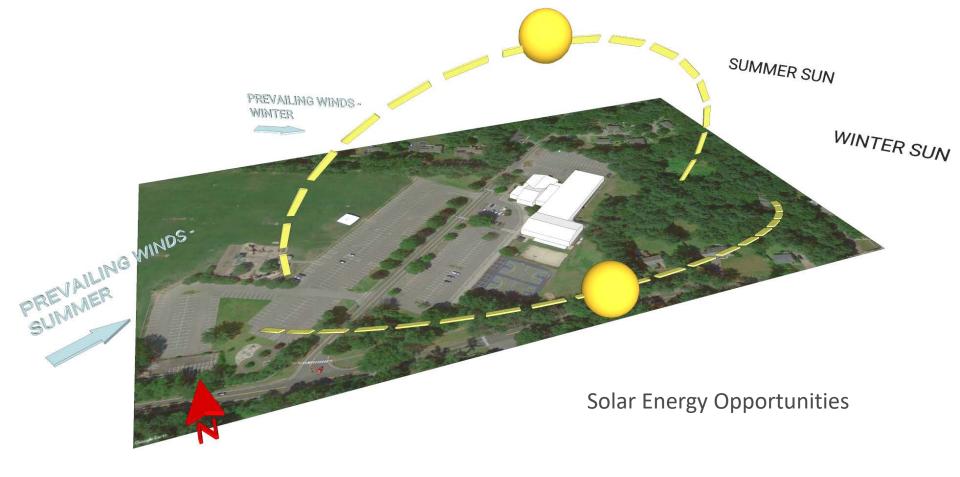
- Owner's contingency
- Furniture, Fixtures and Equipment (FF+E)
- Design team fees
- Utility fees
 - However, there are typically some rebates
- Specialty consultants
 - Hazmat
 - Geotech
 - Survey



SUDBURY FAIRBANK COMMUNITY CENTER - FINAL BUILDING PROGRAM SUMMARY

Proposed and Existing Building Program Summary	Existing GSF	Proposed GSF	Proposed Agg These spaces	regate GSF include user group dedicated space, plus
Common Areas	4381	4069	shared spaces	outlined below.
Shared Spaces	1625	8179	Senior Center	
Senior Center	5624	5754	Dedicated:	5,754 GSF
Sudbury Public Schools	6639	7713		Shared - 8,179 GSF; 1/3 Common Areas
Recreation Center (Less Aquatics)	3810	5507	Aggregate:	15,289 GSF
Aquatics (Existing to Remain and Repair)	15350	11384		
Aquatics (Proposed)		6192	Recreation Ce	
Gymnasium	3475	5160	Dedicated: Add:	11,700 GSF Shared - 8,179 GSF; 1/3 Common Areas
Total Proposed Building Program with Aquatics	40904	53959		21,235 GSF
Total Proposed Building Program for New Construction		42575		,
	•		Emergency Sh	elter
			Add:	1/3 Common Areas, Rec and Senior
				Program Rooms, Multipurpose, Kitchen
				and Storages, Wellness and Gym
			Aggreggate:	12,490 GSF

BUILDING PROGRAM OVERVIEW





The World's Most Energy Efficient Performance Standard

Goal: Lower Consumption

Radically reduce energy demand

Requirements: Measurable Criteria

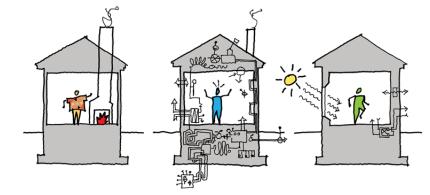
Meet a specifically low energy budget

Benefits:

- Reduced Carbon Footprint: Radically low energy
- Comfortable: No drafts or temperature swings
- Healthy: High Quality, Continuously filtered Air
- Resilient: Extreme Thermal Stability

PASSIVE HOUSE

• Affordable to Operate: Low Utility Bills for life



Credit: Albert Righter Tittmann Architects



ICON Architecture - Distillery Building – Largest Passive House Building in New England



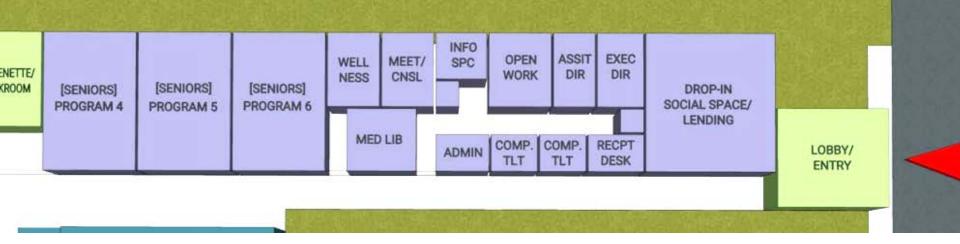








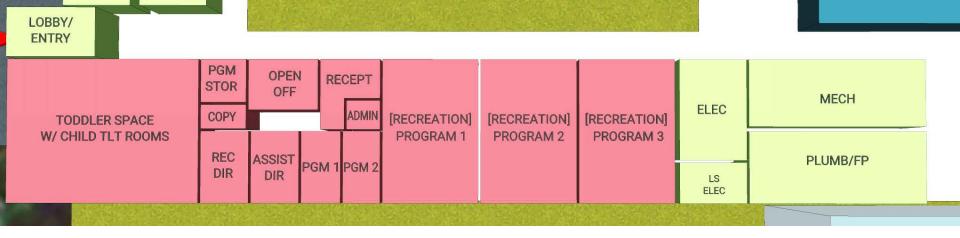
CONSENSUS SOLUTION OVERHEAD – FROM SOUTHEAST







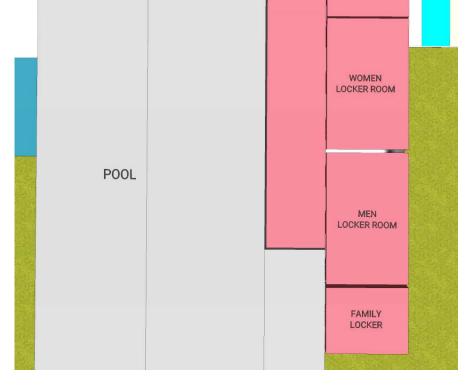
SITE MAP











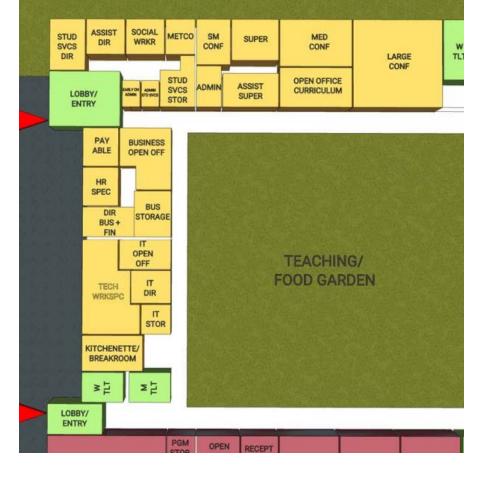
1ST AID

POOL RECEPTION



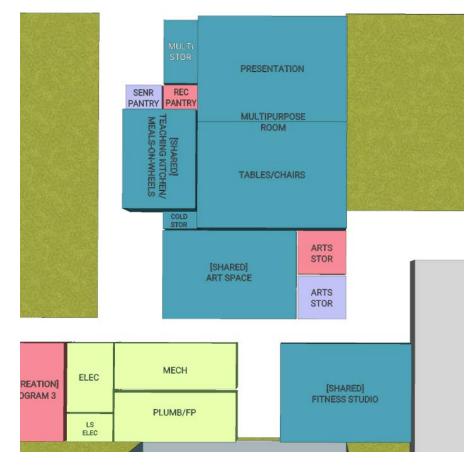
SITE MAP

















FAIRBANK COMMUNITY CENTER - PROPOSED PROGRAM BREAKOUT

COMMON AREAS - PROPOSED

Proposed Net SF

stibules, Toilet Rooms, Mechanicals	
Building Lobby	70
Entry Vestibule	1
Pool Vestibule	1
Shared Breakroom/Kitchenette (Rec/Senior Ctr)	2
Men's Restroom	4
Women's Restroom	4
Elec	1
Life Safety Elec	1
Plumb/FP	2
Mech	4

t 297	Common Areas Total Gross Square Feet
406	Net to Gross 1.37

HARED SPACES - PROPOSED	Proposed Net SF
Multipurpose Room	3000
Multipurpose Storage	200
Commercial Kitchen	650
Commercial Kitchen Walk-in Cold Storage	80
Commercial Kitchen Storage	40
Fitness Studio	1000
Art Space	1000

et 597(Shared Spaces Total Gross Square Feet
87 8179	Net to Gross 1.37



ENIOR CENTER - PROPOSED	Proposed Net SF
dministrative Area	Ĩ
Executive Director	15
Assistant Director (future Position)/ Program Coordinator	12
Administrative Assistant	
Information Specialist	
Workspace for 4 (grant employees & volunteers)	15
Small Meeting Room/Counseling	15
Wellness Office	10
Copy/Supplies	
Coat Closet	
Subtotal	100
Drop-in Social Space/Lending Library Reception Area	80
ogram Spaces and Storage Spaces	
Reception Area	8
Arts & Crafts Storage	10
Kitchen Pantry	
Program Room 4	6
Program Room 5	60
Program Room 6	60
General Storage	
Subtotal	284
epartment Back-of House	
Companion Toilet Rooms	10
Medical Equipment Lending Library	20
Subtotal	30
Senior Center Total Gross Square Feet	420
Senior Center Total Gloss Square Feet	42

Senior Center Total Gross Square Feet	4200
Net to Gross 1.37	5754



SUDBURY PUBLIC SCHOOLS - PROPOSED

Proposed Net SF

Front-of-House	
obby/Waiting/Entry	30
Security	5
Subtotal	35
Administration	1
Superintendent	22
Executive Assistant	5
Subtotal	28
Administration and Curriculum	
Assistant Superintendent	22
Open office for:	
Math Curriculum Coordinator	6
Humanities Curriculum Coordinator	6
Science Curriculum Coordinator	6
Science Coach	6
Wellness Curriculum Specialist	6
Storage	10
Subtotal	62
Student Services	I
Student Services Director	15
Assistant Student Services Director	10
Social Worker/Team Chair	10
METCO Director	10
Admin Assistant to Student Services	5
Early Childhood Admin Assistant	5
Storage -Active - IEP's /Documents	6
Storage - Long Term	10
Subtotal	72



Director of Business and Finance	1
HR Specialist	3
Accounts Payable Accountant	
Open Office for:	
Payroll Clerk	
Business Office Clerk 1	
Business Office Clerk 2	
Mail Clerk	
Dedicated work space for visitors	
Dedicated work space for visitors	
Storage -Active -Payroll	
Storage -Active - HR	
Storage - Long Term -Payroll	
Storage - Long Term -HR	
Subtotal	

Information Technology	
Director of Technology	100
Open Office for:	
Network Specialist	55
Elementary Tech. Specialist	60
Data Specialist	55
Storage for Tech	100
Technology Workspace (Server Room?)	500
Subtotal	870

Conference Room and Back-of-House	
Conference (Small 1-6 People)	180
Conference (Medium 1-15 People)	360
Conference/Curriculum Development (Large 13-30 People)	100
Kitchenette/Break Room	225
Copy Room/Storage	100
Custodial	
Subtotal	186

Sudbury Public Schools Total Gross Square Feet	5630
Net to Gross 1.37	7713



ECREATION -PROPOSED	Proposed Net SF
ministration	ſ
Reception (covers Building Lobby & Rec. Dept.)	100
Director's Office	150
Assistant Director & Office Coordinator Office	150
Admin. Assistant	40
Common Office	160
Program Office 1 (Program & Youth Coordinator)	100
Program Office 2 (Rec. & Fitness Programming)	100
Copy/Supplies	60
Subtotal	860
ogram Space	
Program Room 1	600
Program Room 2	600
Program Room 3	600
Preschool Space with integral child toilet rooms	1200
Arts & Crafts Storage	60
Camp/Off Season Storage	100
Gymnasium	4960
Gymnasium Storage	200
Subtotal	8320
Subtotal Less Gym	3160
uatics	ſ
50 Existing Pool Space (Existing)	1076
49 Pool Filtration/Mechanical (Existing)	428
48 Pool Electrical (Existing)	195
Pool Lobby & Reception	400
Addition - Bleacher Seating/Squared Corner	1500
Aquatics Office (in above addition)	250
First Aid Treatment	120
Pool Locker Rooms - Men	1000
Pool Locker Rooms - Women	1000
Family Changing Room	500
Subtotal (Existing Spaces Excluded)	4520

Recreation Center Total Gross Square Feet	8540
Net to Gross 1.37	11700



	OVERALL PROJECT BUDGET WORKS Fairbank Community Center Sudbury, MA	HEET	
	Suddury, MA 2-Mar-20		
1	BUILDER'S RISK INSURANCE	In Construction Cost	\$0.00
2	ARCHITECTURAL & ENGINEERING FEES	Feasibility Study + 8% of Construction	\$1,873,059.00
3	ADDITIONAL DESIGN & PROFESSIONAL SERVICES	Commissioning	\$50,000.00
4	CONSTRUCTION COST Demolition Site Trade Costs Constructions Management Fees and Costs Estimating Contingency SUBTOTAL	12%	\$184,500.00 \$3,717,191.00 \$44,168,584.00 \$2,577,629.00 \$2,168,433.00 \$22,816,337.00
5	TESTING OF SOILS, MASONRY, STEEL, MATERIALS, ETC.	In Owner's Contingency	\$0.00
6	AUDIO / VISUAL EQUIPMENT	Allowance	\$50,000.00
7	FF&E / MISCELLANEOUS	Allowance	\$375,000.00
8	SIGNAGE - EXTERIOR	Allowance	\$5,000.00
9	UTILITY COMPANY CHARGES		\$0.00
	SUBTOTAL		\$25,169,396.00
10	OWNER'S CONTINGENCY	10% of Construction	\$2,315,800.00
	Total Project Cost (TPC)	TOTAL	\$27,485,196.00
	ESCALATION	Mid-point of 2021	\$596,902.00
	OWNER'S PROJECT MANAGER (OPM)	3%-5% of Construction	\$702,400 - \$1,170,660

TOTAL PROJECT COST – NEW CONSTRUCTION

Existing Building Program Summary	Existing GSF	201200000000000000000000000000000000000	Renovation Cost \$450/SF
Common Areas	4381	\$	1,971,450.00
Shared Spaces	1625	\$	731,250.00
Senior Center	5624	\$	2,530,800.00
Sudbury Public Schools	6639	\$	2,987,550.00
Recreation Center (Less Aquatics)	3810	\$	1,714,500.00
Aquatics Support - Locker Rooms, Lobby, Office	3966	\$	1,784,700.00
Aquatics - Pool, Deck, Mech, Elec*	11384	\$	398,440.00
Gymnasium **	3475	\$	1,337,875.00
Existing Building	40904		
Trade Cost Subtotal		\$	13,456,565.00

TOTAL PROJECT COST – RENOVATION

* Aquatics renovation is being carried at \$35/SF
 ** Gymnasium is being carried at \$385/SF

RENOVATION — OVERALL PROJECT BUDGET WORKSHEET

Fairbank Community Center

Sudbury, MA 2-Mar-20

1	BUILDER'S RISK INSURANCE	In Construction Cost	\$0.00
2	ARCHITECTURAL & ENGINEERING FEES	Feasibility Study + 8% of	\$1,076,525.20
2	ANGINE GI UNAL & ENGINE ENING FEES	Construction	\$1,070,323.20
3	ADDITIONAL DESIGN & PROFESSIONAL SERVICES	Commissioning	\$50,000.00
4	CONSTRUCTION COST		
	Selective Demolition		\$184,500.00
	Site		\$1,233,750.00
	Trade Costs		\$13,456,565.00
	Constructions Management Fees and Costs		\$2,238,284.14
	Estimating Contingency	15%	\$2,018,484.75
	SUBTOTAL		\$19,131,583.89
			¥ 23/23 2/303/03
5	TESTING OF SOILS, MASONRY, STEEL, MATERIALS, ETC.	In Owner's Contingency	\$0.00
5	TESTING OF SOLS, MASONRT, STEEL, MATERIALS, ETC.	in owner's containgency	\$0.00
6	AUDIO / VISUAL EQUIPMENT	Allowance	\$50,000.00
0		Alowance	\$50,000.00
7	FF&E / MISCELLANEOUS	Allowance	\$375,000.00
,	Frae / MISCELLANEOUS	Allowance	\$\$75,000.00
8	SIGNAGE - EXTERIOR	Allowance	\$5,000.00
0	SIGNAGE - EXTERIOR	Allowance	\$3,000.00
9	UTILITY COMPANY CHARGES		\$0.00
9	UTILITY COMPANY CHARGES		\$0.00
	SUBTOTAL		\$20,688,100,00
	SUBTOTAL		\$20,688,109.09
10	OWNER'S CONTINGENCY	13% of Construction	\$1,749,353.45
	Total Project Cost (TPC)	TOTAL	\$22,437,462.54
	ESCALATION	Mid-point of 2021	\$518,319.85
	OWNER'S PROJECT MANAGER (OPM)	3%-5% of Construction	\$369,100 - \$615,200

