## 21 November 2016

# Ottawa Public Library 

OPL Only and OPL／LAC，Exemplar Site（Site 8）City of Ottawa

## Soft Cost Assumptions

Ottawa Public Library

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| Rev | Originator | Approved | Date |
| :--- | :--- | :--- | :--- |
| 2 | Nicholas Bowe | Douglas McNeill | $11 / 21 / 2016$ |
|  |  |  |  |

[^0]
## 1 Project Budgets

## Project Budget Estimate



Based Design Bid Build project delivery (4 month for RFP, 12 months to develop drawings). Expected to be

| 2.01 | Prime Consultant Fees | ( 9.00\% ) | of line 1.09 |  | \$8,615,000.00 | construction time line. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2.02 | Disbursements | Inc in 3.01 |  |  |  | Included in 3.01 |
|  | 2.00 Consulting Budget Total |  |  | 502392 | \$8,615,000.00 |  |
| 3.00 | VELOPMENT BUDGET |  |  |  |  |  |



| 4.01 | Project Delivery Costs | 5.0\% ) | \$1,960,000.00 | \$40K/ month of cost incurred multiplied by 49 months |
| :---: | :---: | :---: | :---: | :---: |
| 4.02 | 4.00 Project Delivery Cost Total |  | \$1,960,000.00 |  |
| 5.00 | TAX |  |  |  |
| 5.01 | 5.00 Total | ( 1.76\% ) | \$2,159,000.00 |  |
| 6.00 | PROJECT BUDGET |  | Budget |  |
| 6.01 | 6.00 Total Project Budget |  | \$124,809,000.00 | 130\% |

## Project Budget Estimate

Date: November 2016

Project Address: 7 Wellington St, Ottawa
Project Description: | - OPL \& LAC + Exemplar Site


| 2.00 PRIME CONSULTANT |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2.01 | Prime Consultant Fees | ( | 9.00\% | ) | of line 1.09 |  | \$12,470,000.00 | Based Design Bid Build project delivery (4 month for RFP, 12 months to develop drawings). Expected to be mid Summer 2018 in the ground. 30 months construction time line. |
| 2.02 | Disbursements | Inc in 3.01 |  |  |  |  |  |  |
| 2.00 Consulting Budget Total |  |  |  |  |  | 502392 | \$12,470,000.00 |  |
| 3.00 | VELOPMENT BUDGET |  |  |  |  |  |  |  |




| 4.01 | Project Delivery Costs | 5.0\% | \$2,200,000.00 | \$40K/ month of cost incurred multiplied by 55 Months |
| :---: | :---: | :---: | :---: | :---: |
| 4.02 | 4.00 Project Delivery Cost Total |  | \$2,200,000.00 |  |
| 5.00 TAX |  |  |  |  |
| 5.01 | 5.00 Operating Budget Total | 1.76\% | \$3,124,000.00 |  |
| 6.00 | PROJECT BUDGET |  | Budget |  |
| 6.01 | 6.00 Total Project Budget |  | \$180,616,000.00 | 130\% |

## 2 Project Soft Costs - Clarifications \& Assumptions

## Schedule \& Project Delivery Method:

## OPL Only on Exemplar Site

49 Months

Based on Design/Bid/Build project delivery. The assumption is that there will be 4 months required for RFP process to procure the Architect/Contractor and 12 months to develop drawings). Construction is expected to start around mid-summer 2019. Having conversations with our Project Managers a 24 months construction time line sounds reasonable for 4 storey building of approx. 130,000 sqft.

OPL \& LAC on Exemplar Site
55 Months
The building will carry approximately 90,000sqft more sqft. This combined with the additional complexities of integrating the LAC requirements into the design/ construction process we expect that an additional 6 months will be required on the schedule.

## Section 2.01 \& 2.02: Prime Consultant Fees \& Disbursements

| OPL Only on Exemplar Site | OPL \& LAC on Exemplar Site |
| :--- | :--- |
| Calculated by applying 9\% over the total | Calculated by applying 9\% over the total Hard <br> Hard Construction Costs |

An allowance for the Prime Architect and the main design consultants which typically sit under the umbrella of the Prime Architects proposed fee. The main design consultants in addition to the Architect include Structural, Mechanical, Electrical, Plumbing and Civil Engineers and the Landscape Architect.

A 9\% allowance is typical for a project of this type. Our analysis of similar projects showed a range of $8-10 \%$. $9 \%$ was chosen because the building is expected to have a prestigious design and also accounts for the complexities of a partnership arrangement such as the OPL/LAC

Disbursements account for additional expenses such as travel and meals which are typically excluded from the prime consultants contracts. These costs fall within the $9 \%$ allowance

## Section 3.01: Special \& Client Assigned Consultants

```
OPL Only on Exemplar Site
Calculated by applying 4% over the total
Hard Construction Costs
```

OPL \& LAC on Exemplar Site
Calculated by applying 4\% over the total Hard Construction Costs

```
Special \& Client Assigned Consultants is an allowance for the remaining consultant's related to the planning and design of the project which fall outside of the Prime Architects contract.
```

The main design consultants can range from project to project but our analysis of similar projects typically included Geotechnical, Environmental, Surveyor, Traffic Study, Cost Consultant, Conceptual Architectural Design, Site Servicing, Building Envelope, Elevator Consultant, Code Consultant, Commissioning, LEED, IT / AV/Intercom / Theatre Fees and Signage Consultants. This list is not meant to be fully inclusive but it does demonstrate what consultants could be seen within the allowance

A 4\% allowance is typical for a project of this type. Our analysis of similar projects showed a range of $3-7 \% .4 \%$ over Hard Construction costs should be a comfortable allowance to account for the expected consultants mentioned above and to deal with the complexities of a partnership arrangement such as the OPL/LAZ

The 4\% allowance also includes Testing and Inspecting costs (Section 3.02).

## Section 3.03 \& 3.04: Fees and Permits

## OPL Only on Exemplar Site

## OPL \& LAC on Exemplar Site

To clarify Development Charges T\&T called the City of Ottawa and spoke to Jim Denyer (613) 5802400. Basic information such as the building GFA and the proposed location (557 Wellington St) were given to the City and from this we were told that these projects would be exempt from both municipal and school board permits as per bylaw 2014-209.

No Development fees applicable for the OPL stand-alone option

Permits are calculated by applying $\$ 1.42$ over the GFA. $(134,550$ sqft $+67,904$ sqft parking)

Development costs for the LAC are calculated at 93,406sqft $\times \$ 20.41 /$ sqft

Permits are calculated by applying \$1.42 over the GFA. ( 215,458 sqft $+71,532$ sqft parking)

For Permit Fees Luke Nadue (613) 580-2401 explained that without full drawings to review in detail the rates on the website should be used.
http://documents.ottawa.ca/sites/documents.ottawa.ca/files/documents/gross_floor_fee_sked_en.p df

## Section 3.06: Art in Public Places

OPL Only on Exemplar Site
Allowances are based on $1 \%$ of Hard Construction costs. This percentage was given by the City of Ottawa/ and is a mandatory on all projects over a certain construction value.

OPL \& LAC on Exemplar Site
Allowances are based on $\$ 11,401,900 \times 1 \%$ for the OPL Parking Garage and $\$ 74,172,000 \times 1 \%$ for the OPL Building

## Section 3.07: IT / Telecom Infrastructure and Equipment

## Section 3.08: Furniture, Equipment and Technology

OPL Only on Exemplar Site

As per Furniture, Equipment and Technology list provided by City of Ottawa (adjusted using vendor input)

## OPL \& LAC on Exemplar Site

As per Furniture, Equipment and Technology list provided by City of Ottawa (adjusted using vendor input).

The FET list was sent to a few of our vendors and based on high level information about the project they were able to use their experience to give a broad range of pricing as it relates to a Library. The vendors were told to review pricing with a mind-set of medium to high quality products.

T\&T have reviewed the LAC rates with in-house pricing and can confirm that the pricing is in line with what we would expect to see for FET related to a project of this nature.

The T\&T adjustments on the pricing of the OPL FET schedule increased the costs by $5 \%$. This percentage increase was applied to the OPL \& LAC FET schedule as a quick methodology to update the pricing of the OPL \& LAC FET.

The cost for Specialty Equipment; video, lighting, sound mixing board for recording rooms were given by the City of Ottawa.

## Section 3.09: Packing and Moving

## OPL Only on Exemplar Site

A cash allowance based on moving approx. 80 OPL staff from one building to the next. Only books will be taken from the old facility. Everything else will be left.

## OPL \& LAC on Exemplar Site

Accounts for OPL \& LAC staff (number unknown). Only books will be taken from the old facility. Everything else will be left.

## Section 3.10: Hydro

OPL Only on Exemplar Site
OPL \& LAC on Exemplar Site

A cash allowance for associated costs with the transformer from Hydro company before even tenders go out. To be defined further as information is known.

## Section 3.11: Project Manager

## OPL Only on Exemplar Site OPL \& LAC on Exemplar Site

Based on $\$ 25,000 /$ month over 49 months Based on $\$ 25,000 /$ month over 55 months

Based on Design Bid Build project delivery ( 4 months for RFP process and 12 months to develop drawings). It's expected to be mid-summer 2019 before construction starts.

## Section 3.12: Legal Fees

## OPL Only on Exemplar Site

OPL \& LAC on Exemplar Site

A cash allowance to account for any/ all legal costs associated with the RFP/ Contract award process. This allowance falls in line with our analysis of similar projects.

Legal fees related to the development/ review/ advice on contract related issues. The combined OPL \& LAC design option carries more of an allowance as it assumed there will be more legal issues due to the partnership arrangement.

## Section 3.13: Soft Cost Contingency

## OPL Only on Exemplar Site

OPL \& LAC on Exemplar Site
Calculated at $1.5 \%$ (rounded) over the Total Project Cost. This percentage is in line with what we typically allow for a project of this type at this stage of the project.

Also known as 'Soft Cost' contingency and is used for project unknowns which fall outside of the Hard Construction elements.

## Section 4.01: Project Delivery Costs

## OPL Only on Exemplar Site

Calculations are based on $\$ 40 \mathrm{~K} /$ month of cost incurred to date from OPL GL multiplied by 49 Months

## OPL \& LAC on Exemplar Site

Calculations are based on $\$ 40 \mathrm{~K} /$ month of cost incurred to date from OPL GL multiplied by 55 Months

For Internal Project Management costs over the expected project time line.

## 3 Project Back-up



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| OPL－LAC Joint Project |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Legend Revisemener， |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 铦 | 年 |  |  |  |  |  |
| LAC Spaces |  |  |  |  |  | 呍 |  |  | 遃 |  |  |  |  |  | \％ | ${ }_{\text {L }}^{\text {¢ }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Shared Spaces <br> Unknown Pricing to be determined by T\＆T |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 鴯 | Unit Rate | OPL Cost | $\begin{aligned} & \text { LAC } \\ & \text { Cost } \end{aligned}$ | Shared Cost | Total Cost |
| $48^{\prime \prime} \mathrm{H}$ Mobile Shelving（per single sided bay） |  | 30 |  | 0 | 0 |  |  |  | 64 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ${ }_{\text {Total }}^{\text {Cost }}$ |
| Compact Shelving FOLPA（for 200 sq．ft．） |  | 30 | 0 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 |  | 1 | 64 | 0 | 0 | \＄50，000 | ¢ 952,4000 | \＄0 | \＄0 | $\xrightarrow{\text { \＄45，2000 }}$ |
| Common Statt Shelving（per single bay） $72^{\prime \prime}$ |  | 30 |  | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | － | － |  | 0 | 0 | 0 | 0 | 12 | 0 |  | 20 | ${ }^{12}$ | 8 | 0 | \＄1，000 | \＄12，000 | \＄8，000 | \＄0 | \＄20，000 |
| Microform storage cabinets |  | 30 |  | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |  |  |  |  | 0 |  |  |  | 0 |  |  | 10 | 10 |  |  | \＄2，500 | \＄25，000 |  | \＄0 | \＄25，000 |
| Cabinets（incl．Storage）and Lockable |  | 30 |  | 0 | 0 | 4 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 6 | 0 | 0 |  |  |  | 10 | 0 | 10 | 0 | \＄1，000 |  | \＄10，000 | \＄0 | \＄10，000 |
| Display Cabinetsicases |  | 30 |  | 00 | 0 | 08 | 0 | 0 | － | － | 0 | 0 | 0 |  | 0 | 0 | 0 |  | 1 | 0 | 0 |  | 0 |  | 10 |  | 10 | 0 | \＄3，000 | \＄0 | \＄30，000 | \＄0 | \＄30，000 |
| FFiling Cabinets（incl．Storage） |  | 30 | 0 | 0 | 0 | 0 | － | 0 | 0 | 2 | 10 | 0 | － | 0 | 13 | 0 | 0 | 0 | 0 | 0 | ， | 9 | 0 | 0 | 34 | 34 | 0 | 0 | \＄1，000 | \＄34，000 | \＄0 | \＄0 | \＄34，000 |
| Lockers－Client BookMaterial |  | 30 |  | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 0 | 0 | 0 | 0 | 0 | 88 | 0 | 88 | 0 | \＄1，000 |  | \＄88，000 | \＄0 | \＄88，000 |
| Technology |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \＄1，073，130 | \＄1，056，270 | so | ，129，400 |
| Proiectors（inclding screens） |  | 10 |  | 00 | 0 | 0 |  | 0 | 2 |  | 1 |  |  |  | 2 |  |  | 0 | 0 |  | 0 | 0 |  |  | 17 | 12 | 0 | 5 | \＄5，000 | \＄60，000 | \＄0 | \＄25，000 | \＄85，000 |
| Sound System |  | 20 | 0 | 00 | 0 | 0 | 0 | 0 |  | ， | 1 | 0 | 0 |  |  | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 |  |  |  | 0 |  | \＄20，000 | \＄60，000 | \＄0 | \＄60，000 | \＄120，000 |
| Technology for Hearing Impaired |  | 10 |  | 0 | 0 | 0 | 0 | 0 |  | 1 | 1 | 3 | ${ }^{1} 1$ |  |  |  |  | 0 | 0 |  | 0 | 0 |  |  | 15 | 10 | 0 | 5 | \＄4，000 | \＄40，000 |  |  | \＄60，000 |
|  |  | 30 |  | 0 | 02 | 0 | 0 |  |  |  | 1 | 0 | － |  |  |  |  | 0 | － |  |  | 0 |  |  |  | 1 | 0 |  |  |  |  |  | \＄90，000 |
| Video Coniterencing |  |  | 0 | 0 | 0 | 0 | 0 | 1 |  |  | 0 | 0 | 0 | 1 |  |  |  | 0 | 0 |  | 0 | － |  |  |  | 4 | 0 |  | \＄10，000 |  |  | \＄20，000 | \＄60，00 |
| Gaming Areas（Children \＆Teens） |  | － 10 |  | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 |  | 8 | 8 | 0 | 0 | \＄5，000 | \＄40，000 | \＄0 | \＄0 | \＄40，000 |
| Sound studio |  | 25 |  | 0 | 0 | 0 | 0 |  |  |  | 0 |  | 2 |  |  |  |  | 0 |  |  |  | 0 |  |  |  |  | 0 | 0 | ${ }_{\text {\＄20，000 }}$ | ${ }^{\$ 40,000}$ | \＄0 | \＄0 |  |
| Sound mixing board |  | $\begin{array}{r}15 \\ 10 \\ \hline\end{array}$ |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ${ }^{0} 2$ | 2 | 0 | － |  | 0 | 0 | 0 | 0 | 0 |  |  |  | 2 | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $0$ | $\frac{\$ 10,000}{\$ 5,000}$ | \＄20，000 $\$ 10,000$ | $\frac{90}{90}$ | $\$ 0$ $\$ 0$ | \＄20，000 $\$ 10,000$ |
| Virtual Reality Booth |  | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |  | 0 | 0 | 0 | 0 |  | 0 | 0 |  | 0 | 0 | 2 |  | 0 | 0 | \＄20，000 | \＄40，000 | \＄0 | ${ }_{90}$ | \＄10，000 $\$ 40,00$ |
| Sevice Point PC with 2 way screen |  | 10 | 0 | 00 | 0 | 0 | 2 | 1 |  | 1 | 1 | 2 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 9 | 9 | 0 | 0 | \＄2，500 | \＄22，500 | \＄0 | \＄0 | \＄22，50 |
| Public Staft Pads |  |  | 0 | 0 | 0 | 0 | 3 | 1 |  | 1 | 1 | 2 | 2 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 |  | 12 | 11 | 1 | 0 | \＄500 | \＄5，500 | \＄500 | \＄0 | \＄6，000 |
| Public PC（all new） |  |  | 0 | 0 | 0 | 0 | 13 |  | 14 |  | 6 | 39 | 19 |  | 0 | 16 | 12 | － | 12 |  | － |  |  |  | 148 | 99 | 49 | 0 | \＄2，000 | \＄198，000 | \＄98，000 |  | \＄296，000 |
| Staft PCs（new requirements only） |  | 30 |  | 0 | 0 | 0 | ${ }_{4}$ | 4 | 4 | 0 | $\stackrel{0}{2}$ | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |  |  | 13 26 | 10 26 | － 1 | $\begin{aligned} & 2 \\ & 0 \\ & \hline \end{aligned}$ | $\$ 2,000$ $\$ 500$ | \＄20，000 $\$ 13,000$ | \＄2，000 |  | \＄26，000 $\$ 13,000$ |
| Printer／Copy Stations |  | 10 |  | 0 | 0 | 0 |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  | 24 | 17 | 7 | 0 |  | \＄85，000 | \＄35，000 | \＄0 | \＄120，000 |
| Charging Stations |  | 15 | 0 | 00 | 0 | 0 | 3 | 1 | 2 | 2 | 2 | 6 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 |  | 18 | 18 | 0 | 0 | \＄1，500 | \＄22，000 | ${ }_{\text {\＄0，}}{ }^{\text {S }}$ | ${ }_{90}$ |  |
| Public Digital Displays／LED TVs／CCTV Display |  | 15 |  | $0 \quad 7$ | 70 | 0 | 2 |  |  |  | 2 | 6 |  | 0 | 0 | 0 | ， | 0 | 0 |  | 0 | － |  |  | 27 | 17 |  | 7 | \＄5，000 | \＄85，000 | \＄15，000 | \＄35，000 | \＄135，000 |
| Listening／viewing／download stations Equip |  | ${ }^{15}$ |  | $0 \quad 5$ | 50 | 0 |  |  |  | 0 | 4 | 4 | 4 | － | － |  |  | － | 0 |  | － | － |  |  | 23 | 18 |  | 5 | \＄4，000 | \＄72，000 |  | \＄20，000 | \＄92，000 |
| WIFI I access points |  | 20 |  | 02 | 22 | 20 | ， |  | 1 |  | 1 | － | 61 | 1 |  | － | 0 | 0 | 0 | 0 | － |  | 0 |  | 20 | 16 | 0 | 4 | \＄4，000 | \＄64，000 | \＄0 | \＄16，000 | \＄80，000 |
| Self Checkouts |  | － |  | 0 | 0 | 0 | 5 | 1 | ， | － | ， |  |  | 2 | ． |  |  |  | ， |  | 0 |  |  |  | 12 | 12 | 0 | 0 | \＄15，000 | \＄180，000 |  |  | \＄180，000 |
| Security Gates |  | ＋ 25 |  | 0 | 0 | 0 | ${ }^{2}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 4 | 2 | 2 |  | \＄20，000 | \＄40，000 | \＄40，000 |  | \＄80，000 |
| Live News Feed Screens Digital Orientation |  | $\begin{array}{r}10 \\ 15 \\ \hline\end{array}$ | 0 | 0 0 | 5 | 0 | 0 | 0 |  |  | 0 | 0 | 0 |  |  |  |  |  | 0 |  |  |  |  |  |  | 0 | 0 |  | \＄10，000 |  | \＄0 | \＄50，000 |  |
| Digital Orientation |  | $\stackrel{1}{20}$ |  | 0 | 0 | 0 | 0 |  |  |  | 0 | 0 | 0 | 0 | 0 |  |  | 0 | 0 | － | 0 | 0 |  |  |  | 0 | ${ }^{0}$ |  |  |  | \＄132．500 | \＄132，000 |  |
| Security Equipment |  | 20 |  | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ， | 0 |  | \＄150，000 | \＄150，000 | \＄0 | \＄0 | \＄150，000 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | － | \＄1，342，000 | \＄323，00 | \＄452，500 | \＄2，117，500 |
| Program Equipment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Laser Cutters |  | 5 | 0 | 0 0 | 00 | 00 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $\frac{3}{6}$ | 3 | 0 |  | ${ }^{\$ 40,000}$ | $\$ 120,000$ $\$ 30000$ | \＄0 | \＄0 | \＄120，000 |
| Maker PCs |  |  |  | 00 | 0 | 0 | 0 | － |  | 8 | 0 | 0 | 0 | ， | － | － |  |  |  | 0 |  | 0 |  |  | 10 | 10 |  | 0 | \＄3，000 | \＄30，000 | \＄0 |  |  |
| RFID Sorter \＆Installation |  | 25 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | － | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  |  |  | 0 | 0 | \＄300，000 | \＄300，000 | so | \＄0 | \＄300，000 |
| Conveyors \＆Instalation（250 ft．） | ок | 25 |  | 0 | 0 | 0 | 0 |  |  |  | 0 | 0 | 0 | 0 |  |  | 0 | 0 | 0 | 0 | 0 | 1 |  | 0 | 1 |  | 0 | 0 | \＄250，000 | \＄250，000 | \＄0 | \＄0 | \＄250，000 |
| Book Reiurn Units |  | 20 |  | 1 | 10 | 0 | 1 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 |  |  | － | 0 | 0 | 0 |  |  |  |  |  | 0 |  | \＄10，000 | \＄10，000 | \＄0 | \＄20，000 |  |
| RFID Bins |  | 10 |  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 |  |  | 30 |  |  | 30 | 30 |  | 0 | \＄5，000 | \＄150，000 | so |  | \＄150，000 |
| Sate |  | 30 |  | 0 | 0 | 0 | 0 |  |  |  |  |  | 0 |  |  |  |  |  | 0 |  |  |  |  |  |  |  |  |  | \＄4，000 | \＄8，000 |  |  |  |
| Digital Recording |  | 10 |  | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 6 | 6 | 0 | 0 | \＄2，000 | \＄12，000 | \＄0 | \＄0 | \＄12，000 |
| Video Lighting System for Digital Recording Studio | 1345 gaft． | 20 |  | 00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1345 |  | 0 | 0 | \＄20 | \＄26，900 | \＄0 | \＄0 | \＄26，900 |
| ExhaustVentiliation |  | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | ${ }_{4}$ | 3 | 1 | 0 | \＄25，000 | \＄75，000 | \＄25，000 |  | \＄100，000 |
| Landlord Allowance for Cafe Equipment |  |  |  |  |  |  | 0 |  |  |  | 0 |  | 0 |  |  |  |  | 0 | 0 |  | 0 | － |  |  |  | 0 | 0 |  | \＄20，000 |  |  |  |  |
| Kitchen Equipment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1，0，00 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 6466aft．323saft |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25 |  | 0 |  | \＄2，000 | \＄0 | \＄0 | \＄50，000 |  |
| Cussifg Ciars |  | 15 |  | 0 0 | $0{ }_{0}{ }^{0}$ | 4.0 | 0 |  |  |  | 0 | 0 | 0 |  | 0 |  |  | 0 | 0 |  | 0 | 0 |  |  | 4 | 0 | 0 | 4 | ${ }_{\text {¢ }}^{\$ 400}$ | \＄0 | \＄0 | $\$ 1,600$ $\$ 2.800$ |  |
| Stainess steel centre counter and handsink－trestanding |  | 30 |  | 0 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | － | 0 | 0 | － | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | \＄4，500 | \＄0 | \＄0 | \＄4，500 | \＄4，500 |
| Steamer |  | 20 |  | 00 | 03 | 30 |  |  | 0 | 0 | 0 | 0 | 0 | ， | 0 | 0 | 0 | 0 | 0 | － | 0 | 0 | 0 |  | 3 |  | 0 |  | \＄8，000 | \＄0 | \＄0 | \＄24，000 | \＄24，000 |
| Warmers |  | 20 |  | 0 | 0 | 0 | 0 |  | 0 |  | 0 | 0 | 0 |  | 0 |  |  | 0 | 0 |  | 0 | 0 | 0 |  |  | 0 | 0 |  | \＄2．500 |  | \＄0 | \＄7，500 |  |
| Holding cabinets |  | 25 |  | 0 | $0{ }^{0}$ | 30 | 0 |  | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | $\frac{3}{2}$ | 0 | 0 | － 3 | \＄2，500 | \＄0 | \＄0 | \＄7，500 | \＄7，500 |
| Commercial Reach－In Fridges |  | 20 |  | 00 | $0{ }^{0}$ | ${ }^{2} 0$ | 0 |  | 0 |  | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 |  | 0 | 0 |  |  | $\stackrel{2}{2}$ | 0 | 0 |  |  | \＄0 | \＄0 |  |  |
| Wire Shevving |  | 30 |  | 0 | 04 | 40 | 0 | ， | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 4 | 0 | 0 | 4 | \＄350 | \＄0 | \＄0 | \＄1，400 | \＄1，400 |
| Sundries，equipment．pots，utensiles，etc． |  | 30 |  | 00 | 02 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 2 | 0 | 0 | 2 | \＄20，000 | \＄0 | \＄0 | \＄44，000 | \＄40，000 |
| Grease Interceptor ${ }^{\text {Stovel／Oven（ } 6 \text { burner griddle top）}}$ |  | 30 |  | 0 | $0{ }_{0}$ |  | 0 |  |  |  | 0 |  |  |  | 0 |  |  | 0 |  |  |  | 0 |  |  |  | 0 | － 0 |  |  |  | \＄0 |  | \＄11，000 $\$ 13,000$ |
| Microwaves－Commercial |  | 10 |  | 0 | 06 | 0 | 0 | ． | 0 | 0 | 0 | － | 0 |  | 0 | 0 | 0 |  | 0 | 0 |  | 0 | 0 |  | 6 |  |  |  | \＄500 | \＄0 | \＄0 |  |  |
| Commercial Dishwasher |  | 20 |  | 0 | 0 | 0 | 0 |  |  |  |  | 0 | － | ， | 0 | 0 |  | 0 | 0 |  | 0 |  |  |  | 1 | 0 | 0 |  | \＄9，000 | \＄0 | \＄0 | \＄9，000 | \＄9，000 |
| Exhaust hood w／fire suppression |  | 30 30 |  | 0 | 0 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | － | － | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $\frac{2}{1}$ | 0 | 0 |  | \＄12，000 | \＄0 | \＄00 | $\$ 24,000$ $\$ 2,500$ | \＄24，000 $\$ 2,500$ |
| Fire Suppression System |  | 30 |  | 0 | 0 | 0 | 0 | ， | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | ${ }_{\text {¢ }}+3,500$ | \＄0 | ${ }_{50}$ | ${ }_{\text {¢ }}{ }_{\text {¢ } 2,500}$ |  |
| Kitchenette－Fridges |  | 25 | 0 | 0 O | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 1 |  |  |  |  |  | 0 |  | 0 |  |  |  | 13 |  |  | 0 | \＄1，500 | \＄12，000 | \＄7，500 |  |  |
| Kitchenette－Microwaves |  | 10 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 4 | 0 | 0 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 14 | 9 | 5 | 0 | \＄250 | \＄2，250 | \＄1，250 | \＄ 90 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | \＄14，250 | \＄8，750 | \＄248，300 | \＄277，300 |



|  | Qty | Unit rate \$ | Total Cost | Comments/ Assumptions | Unit rate \$ | Total Cost | Comments/ Assumptions |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wayfinding | 1 | \$50,000.00 | \$50,000.00 | That would include tactile signage for critical location such as emergency exits and washrooms. | \$25,000.00 | \$25,000.00 | Wayfinding signage is about right if the library is 4 floors or less. More than that you would be looking at another \$ $\$ \mathrm{k}$ per floor. |
| Fixed Signage | 3 | \$10,000.00 | \$30,000.00 | Assuming exterior sign boxes measuring $10^{\prime} \mathrm{x}$ <br> 15 ' | \$10,000.00 | \$30,000.00 | Fixed signage is usually signage for office doors, washrooms, stairs, exits, emergency exits. Most of these will also need braille. You can estimate about $\$ 100.00$ per sign plus installation costs. Again, the number of floors plays a part. I would estimate $\$ 2500.00$ per floor, especially if there are washrooms on each. |
| Digital Signage | 3 | \$25,000.00 | \$75,000.00 | Assuming a message board measuring $3^{\prime} \times 8^{\prime}$ with 16 mm pixel resolution | \$10,000.00 | \$30,000.00 | Digital signage I assume means television type monitors. \$10k per setup sounds about right. This would include the video control box that contains the information supplied to the screen, plus computers for control. |
| Exterior Building Sign | 1 | \$25,000.00 | \$25,000.00 | Assuming a logo with individual letters not exceeding 30 letters | \$40,000.00 | \$40,000.00 | Exterior building signage for $\$ 10,000$ means small illuminated letters "OTTAWA PUBLIC LIBRARY" maybe 15 " high. They also need to be mounted on the building not more than 20 ' from the ground. For bigger letters, or if they are mounted at the top of a 10 storey building, you are looking at anywhere up to $\$ 50,000$. |
| Street Building Pylon Sign | 1 | \$60,000.00 | \$60,000.00 | Assuming a $24^{\prime}$ high sign without an electronic messaging board but including foundation | \$40,000.00 | \$40,000.00 | Pylon sign for $\$ 20,000$ could be small sized (under $20^{\prime}$ tall) and could include a monochrome double sided electronic sign. A bigger sign could be done but with an electronic sign would be over $\$ 20 k$. For a colour electronic sign you would need to add $\$ 10 \mathrm{k}$ plus foundations |


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