

Report
For
Class D Construction Cost
Estimate

Douglas McNeill Director

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> Ottawa Public Library (OPL/LAC), Exemplar Site (Site 8) City of Ottawa

> > 21-Nov-16



November 21, 2016 ref no. 20940

City of Ottawa

20 Metcalfe St, Ottawa,

Ontario, K1P 5M2

For the attention of Paul Hussar,

Dear Paul,

Ottawa Public Library, Exemplar Site (Site 8) City of Ottawa

We enclose our updated Class D Construction Cost Estimate for the above-noted based on the documentation provided to us.

Please refer to our Executive Summary, Section 1, for specific qualifications and assumptions associated with this cost report.

We trust this meets with your approval. Should you have any questions please do not hesitate to contact us.

Yours faithfully

Jon Gilford Senior Cost Manager Turner & Townsend e: jon.gilford@turntown.com Douglas McNeill
Director
Turner & Townsend
e: douglas.mcneill@turntown.com



Contents

1 EXECUTIVE SUMMARY
2 ELEMENTAL ESTIMATE
3 AREA SUMMARY
4 DOCUMENT LIST

Rev	Originator	Approved	Date
2	Jon Gilford	Marcos Sibal	Sep. 23rd, 2016
3	Sopanna Surendran	Haneef Ahmed	October 6th, 2016
4	Sopanna Surendran	Haneef Ahmed	October 21st, 2016
5	Sopanna Surendran	Haneef Ahmed	October 24th, 2016
6	Sopanna Surendran	Haneef Ahmed	October 25th, 2016
7	Sopanna Surendran	Haneef Ahmed	October 27th, 2016
8		Haneef Ahmed	November 2, 2016
9		Haneef Ahmed	November 17, 2016
9		Haneef Ahmed	November 21, 2016

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F:\Tor\Jobs\2014 Jobs - 20860 -\20940 CM - Ottawa Public Library - NK\2016 Estimate\200 Class D Exemplar Site - July 2016\Estimate\Revised Sep + Oct, 2016\Updated , 2016\Nov 16 2016\[OPL LAC r9 Nov 16.xlsx]Sum (2)



1 EXECUTIVE SUMMARY

1.1 Introduction

Turner and Townsend is retained to provide Cost Planning & Design Cost Control services, including preparation of this Class D Construction Cost Analysis, based on the information listed in Section 5. **Our estimate is an Opinion of Probable Cost only** and reflects current local market rates based on normal competitive conditions. Our estimate is intended to be comparable to a range of bids received from a number of competitive general contractors and sub-trades.

Turner and Townsend does not guarantee that tenders or actual construction costs will not vary from this estimate. Adverse market conditions, proprietary and/or sole source specifications, single sourcing of materials and equipment or reduced competition among contractors may cause bids to vary from reasonable estimates based on normal competitive conditions.

The purpose of this Cost Plan is to provide the City of Ottawa with a budget framework within which the project can be developed and cost managed, from Feasibility to Tender award stage.

The Cost Plan has been prepared solely in accordance with the documentation outlined within this document.

This Cost Plan is subject to review, confirmation and/or amendments following revisions to the information stated and discussion(s) with the Client and Design Consultants at which time this report will be reviewed and may be re-issued if required.

1.2 Procurement and Schedule

The Construction Cost Estimate includes all direct construction costs and contractor's overhead and profit. It assumes that the project will be procured on a **Stipulated Lump sum basis**, and that bids will be received from a minimum of five pre-qualified general contractors. We also assume that the project will be completed in a reasonable time frame and have not included any premiums related to "fast-tracking" the project, if required. The unit rates in our estimate are based on construction activities occurring during normal working hours and proceeding within a non-accelerated schedule.



1.3 Risk Assessment

Pricing reflects 4Q 2016 rates and present market/local conditions. Escalation allowance to the anticipated construction start date of 3Q 2019 has been included within our cost analysis at 10%.

The estimate includes an Estimating/Design Contingency Allowance to account for increases in cost as a result of design development through to 100% complete tender documentation.

Post-Contract Contingency (i.e. for Change Directives/Change Orders that may arise during construction) has been included in our cost report at 10%.

We have not accounted for a construction market allowance within the report, however based upon our past and ongoing construction cost project experience in Ottawa, Ontario, we do not foresee any risk of receiving non-competitive bids from major sub – trades.

1.4 Level of Documentation and Assumptions

The estimate is based on the conceptual / preliminary drawings as well as functional program provided. It is supplemented by correspondence and discussions with the Owner and Design Consultants.

We outline some of the major assumptions we have made with respect to this cost analysis: -

- Project to be procured via Stipulated Lump Sum contract
- No major phasing requirements
- No 'Accelerated' schedule premiums allowed



1.5 Measurement and Pricing

The estimate has been developed using generally accepted principles on method of measurement as per the Canadian Institute of Quantity Surveyors Elemental Cost Analysis (CIQS).

The rates used for this estimate include labour and material, equipment, and subcontractor's overheads and profit. Pricing developed for this project is based upon our company's experience with similar projects, and/or quotes provided by subcontractors and suppliers as noted within the estimate. It does not take into account extraordinary market conditions, where bidders may be limited and may include in their tenders disproportionate contingencies and profit margins.

1.6 General Conditions and Fee

The fee included within the estimate for the General Contractor is included as a percentage of the hard construction cost. The general requirements are based on our assumptions of the anticipated construction approach and construction schedule for the project (see section 1.2). The general requirements percentage includes the cost associated with bonding and insurance, however excludes development and/or building permit costs.



1.7 Taxes

Our cost estimate includes HST (1.76%).

1.8 General Statement of Liability

This report is not intended for general circulation, publication or reproduction for any other person or purpose without prior express written permission to each specific instance. Furthermore, this report was written for the exclusive use of City of Ottawa and is not to be relied upon by any other party. Turner and Townsend does not hold any reporting responsibility to any other party.

Turner and Townsend strongly recommends the owner and/or design team review the cost estimate report including line item descriptions, unit prices, allowances, assumptions, exclusions, and contingencies to ensure the appropriate design intent has been accurately captured within the report.



OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) CLASS D COST ANALYSIS

EXECUTIVE SUMMARY COST BREAKDOWN

EXECUTIVE SUMMARY COST BREA	KDOWN		
Construction Cost Breakdown:	GFA (sf)	\$/sf	Amount
A BELOW GRADE PARKING:			
A.1 Below Grade Parking Cost A.2 Escalation Allowance (10%) - 3Q 2019 A.3 Construction Contingency Allowance - Post Contract (10%)	71,532	\$184	\$13,151,000 Included Included
A.4 Furniture, Furnishings and Equipment - NIC A.5 LEED Gold Allowance (5%) A.6 HST	1.76%		Excluded \$658,000 \$243,000
A. Sub-total Below Grade Parking	71,532	\$196	\$14,052,000
B BUILDING:			
B.1 OPL Costs	99,211	\$545	\$54,051,000
B.2 LAC Costs	54,774	\$559	\$30,624,000
B.3 Shared Space Costs - OPL	33,571	\$556	\$18,667,000
B.4 Shared Space Costs - LAC	27,902	\$554	\$15,466,000
Sub-Total	215,458	\$551	\$118,808,000
B.5 Escalation Allowance (10%) - 3Q 2019 B.6 Construction Contingency Allowance - Post Contract (10%)			I ncluded I ncluded
Total Construction Cost	215,458	\$551	\$118,808,000
B.7 Furniture, Furnishings and Equipment - NIC B.8 LEED Gold Allowance (5%)			Excluded \$5,940,000
Total Construction Cost - Including LEED premiums	215,458	\$579	\$124,748,000
B.9 HST	1.76%		\$2,196,000
B. Sub-total Building	215,458	\$589	\$126,944,000
Total Estimated Construction Cost (A+B), incl HST	286,990	\$491	\$140,996,000

Notes/Assumptions:

- 1 The above is an opinion of Probable Cost Only
- 2 Construction contingency included at 10%
- 3 Escalation allowance of 10% included to 3Q 2019
- 4 Understanding that the ground is contaminated and may contain rock. An allowance has been made but this should be reevaluated on receipt of a geotechnical report
- 5 Allowance for LEED Gold
- 6 Sloping site and cost allowed to reflect cut and fill
- 7 1 levels of parking (level 0 included)
- 8 2 oversized freight elevators and 9 standard elevators allowed for
- 9 UV Films to windows LAC allowed for 40% of curtain wall
- 10 Acoustic treatment to ceiling / wall
- 11 We allow for Management of Ground Water and Pumping only for Construction
- 12 Storm Water Cistern assume 50m3 (Water Retention)
- 13 We have carried some allowances for utility relocation (scope unknown)
- 14 Layby Cost covered within the Site Development Cost
- 15 Allowance for Smoke vac to Atrium

The following have been specifically excluded:

- 1 Professional Consultant Design Fees
- 2 Specialist Consultant Design Fees
- 3 Legal Fees and Expenses
- 4 Project Management Fees
- 5 Furniture, Furnishings and Equipment (other than detailed in the estimate)
- 6 Owner's Administration Expenses
- 7 Library equipment book shelves / sorter / mobile shelving etc
- 8 Permits and Development Charges
- 9 Garbage Equipment/Bins
- 10 Food Equipment/Kitchen Equipment
- 11 Construction Price Escalation Beyond 3Q 2019
- 12 A/V/head end Equipment
- 13 IT & Communication Equipment
- 14 Premiums for Single Sourced Materials
- 15 Schedule Acceleration Premium
- 16 Emergency Generator
- 17 Land Acquisition Cost
- 18 Major Sitework Other Than Allowance Noted In The Estimate
- 19 Moving Cost
- 20 Artwork
- 21 Automated Blinds
- 22 No allowance for demolition or alterations
- 23 Raised Floor, Stage
- 24 Removal of Contaminated Soils Budget Provided by Golder
- 25 High Density Shelving
- 26 Allowance for work to CSST



2 ELEMENTAL ESTIMATE

ELEMENTAL COST SUMMARY CLASS D COST ANALYSIS



SS-DD-R9

Cat:

File:

OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Parking

Ottawa, Ontario

Project: Location: Owner/Client: Architect: Nov 21, 2016 20940 **71,532 sf** Date: Project Number: Gross Floor Area: City of Ottawa Aion Morviama

Architect: Ajon Moryiama					Gross Floor Area:	71,532	sf
Element	Ratio to GFA	Elemental Quantity	Elemental Unit Rate	Elemental Amount	Cost/sf	Amount	
A SHELL							
A1 SUBSTRUCTURE					\$22.75		
A11 Foundation	1.00	71,532 sf	\$0.00	\$0	\$0.00		
A12 Basement Excavation	0.65	46,498 cy	\$34.99	\$1,627,000	\$22.75	\$1,627,000	12%
A2 STRUCTURE					\$35.17		
A21 Lowest Floor Construction	1.00	71,532 sf	\$11.51	\$823,000	\$11.51		
A22 Upper Floor Construction	0.00	0 sf	\$0.00	\$0	\$0.00		
A23 Roof Construction	0.14	9,705 sf	\$174.45	\$1,693,000	\$23.67	\$2,516,000	19%
A3 EXTERIOR ENCLOSURE					\$22.86		
A31 Walls Below Grade	0.26	18,292 sf	\$37.39	\$684,000	\$9.56		
A32 Walls Above Grade	0.00	0 sf	\$0.00	\$0	\$0.00		
A33 Windows & Entrances	0.00	2 sf	\$25,000.00	\$50,000	\$0.70		
A34 Roof Covering	0.14	9,705 sf	\$67.08	\$651,000	\$9.10		
A35 Projections	1.00	71,532 sf	\$3.49	\$250,000	\$3.49	\$1,635,000	12%
B INTERIORS							
B1 PARTITIONS & DOORS					\$3.47		
B11 Partitions	0.07	5,007 sf	\$39.94	\$200,000	\$2.80		
B12 Doors	0.00	24 No	\$2,004.69	\$48,000	\$0.67	\$248,000	2%
B2 FINISHES					\$8.01	·	
B21 Floor Finishes	1.00	71,532 sf	\$4.50	\$322,000	\$4.50		
B22 Ceiling Finishes	1.00	71,532 sf	\$2.50	\$179,000	\$2.50		
B23 Wall Finishes	1.00	71,532 sf	\$1.01	\$72,000	\$1.01	\$573,000	4%
B3 FITTINGS & EQUIPMENT		,	7	4.2,000	\$2.50	7 - 1 - 7 - 2 - 2	
B31 Fittings & Fixtures	1.00	71,532 sf	\$2.50	\$179,000	\$2.50		
B32 Equipment	1.00	71,532 sf	\$0.00	\$0	\$0.00		
B33 Conveying Systems	0.00	0 Stp	\$0.00	\$0	\$0.00	\$179,000	1%
C SERVICES	0.00	0 Stp	Ψ0.00	ΨΟ	\$0.00	\$177,000	1 70
					£11.00		
C1 MECHANICAL	1.00	71 F22 -f	¢2.40	¢250.000	\$11.00		
C11 Plumbing & Drainage	1.00	71,532 sf	\$3.49	\$250,000	\$3.49		
C12 Fire Protection	1.00	71,532 sf	\$3.01	\$215,000	\$3.01		
C13 H.V.A.C.	1.00	71,532 sf	\$3.49	\$250,000	\$3.49		
C14 Controls	1.00	71,532 sf	\$1.01	\$72,000	\$1.01	\$787,000	6%
C2 ELECTRICAL					\$11.51		
C21 Service & Distribution	1.00	71,532 sf	\$4.50	\$322,000	\$4.50		
C22 Lighting, Devices & Heating	1.00	71,532 sf	\$5.00	\$358,000	\$5.00		
C23 Systems & Ancillaries	1.00	71,532 sf	\$2.00	\$143,000	\$2.00	\$823,000	6%
NET BUILDING COST (Excluding Site)					\$117.26	\$8,388,000	64%
D SITE & ANCILLARY WORK							
D1 SITE WORK					\$0.00		
D11 Site Development	0.00	0 sf	\$0.00	\$0	\$0.00		
D12 Mechanical Site Services	0.00	0 sf	\$0.00	\$0	\$0.00		
D13 Electrical Site Services	0.00	0 sf	\$0.00	\$0	\$0.00	\$0	0%
D2 ANCILLARY WORK					\$0.00		
D21 Demolition	0.00	0 sf	\$0.00	\$0	\$0.00		
D22 Alterations	0.00	0 sf	\$0.00	\$0	\$0.00	\$0	0%
NET BUILDING COST (Including Site)					\$117.26	\$8,388,000	
Z GENERAL REQUIREMENTS & ALLOWA	NCES			ı	Ψ117.20	10,000,000	
Z1 GEN. REQ. & FEE 12.	0%				\$14.08		
· ·	.0%			\$755,000	\$10.55		
	.0%			\$252,000	\$3.52	\$1,007,000	8%
TOTAL CONSTRUCTION ESTIMATE (Excl	uding Allowa	inces)				\$9,395,000	71%
Z2 ALLOWANCES 40.	0%				\$52.51		
Z21 Estimating Allowance 20	.0%			\$1,878,000	\$26.25		
	.0% 3Q 2019			\$939,000	\$13.13		
	.0%			\$939,000	\$13.13	\$3,756,000	29%
TOTAL CONSTRUCTION ESTIMATE (Incl.	uding Allowa	nces)				\$13,151,000	100%
						Cost/unit	
GFA 71,532 sf						\$184	
GFA 6,645 m2						\$1,979	m2



Project: OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Parking File: SS-DD-R9 Date: Nov 21, 2016

Location: Ottawa, Ontario Owner/Client: City of Ottawa Architect: Ajon Moryiama Date: Nov 21, 2016
Project Number: 20940
Gross Floor Area: 71532 sf

Description	Quantity	Rate	Amount
GROSS FLOOR AREA			
TOTAL GROSS FLOOR AREA	71,532 sf 71,532 sf		
A1 SUBSTRUCTURE			
A11 Foundations			
TOTAL A11 Foundations	71,532 sf	0.00	0
A12 Basement Excavation			
Below grade parking	71,532 sf	22.75	1,627,460
TOTAL A12 Basement Excavation	46,498 cy	34.99	1,627,000
TOTAL A1 SUBSTRUCTURE			1,627,000
A2 STRUCTURE			
A21 Lowest Floor Construction			
Below grade parking	+ 71,532 sf	11.50	822,610
TOTAL A21 Lowest Floor Construction	71,532 sf	11.51	823,000
A22 Upper Floor Construction			
Below grade parking - not required	71,532 sf		
TOTAL A22 Upper Floor Construction	0 sf	0.00	0
A23 Roof Construction			
Below grade parking Suspended slab	71,532 sf + 9,705 sf	23.67 50.00	1,693,090
TOTAL A23 Roof Construction	9,705 sf	174.45	1,693,000
TOTAL A2 STRUCTURE			2,516,000
A3 EXTERIOR ENCLOSURE			
A31 Walls Below Grade			
Below grade parking	71,532 sf	9.56	683,710



Project: OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Parking

Location: Ottawa, Ontario Owner/Client: City of Ottawa Architect: Ajon Moryiama Parking File: SS-DD-R9 Date: Nov 21, 2016 Project Number: 20940 Gross Floor Area: 71532 sf

Description		Quantity	Rate	Amount
TOTAL A31 Walls Below Grade		18,292 sf	37.39	684,000
A32 Walls Above Grade				
Below grade parking - not required		71,532 sf		
TOTAL A32 Walls Above Grade		0 sf	0.00	0
A33 Windows & Entrances				
Below grade parking Overhead doors - 2 no - Parking	+	71,532 sf 2 no	0.70 25000.00	50,000
TOTAL A33 Windows & Entrances		2 no	25000.00	50,000
A34 Roof Covering				
Below grade parking Roof covering	+	71,532 9,705 sf	7.10 15.00	651,090
TOTAL A34 Roof Covering		9,705 sf	67.08	651,000
A35 Projections				
Below grade parking Ramp formation Loading dock		71,532 sf 1 sum 1 sum	3.49 150000.00 100000.00	250,000
TOTAL A35 Projections		71,532 sf	3.49	250,000
TOTAL A3 EXTERIOR ENCLOSURE				1,635,000
TOTAL A SHELL				5,778,000
B1 PARTITIONS & DOORS				
B11 Partitions				
Below grade parking Allowance for partition	+	71,532 sf 5,007 sf	2.80 40.00	200,290
TOTAL B11 Partitions		5,007 sf	39.94	200,000
B12 Doors				
Below grade parking Allowance for hollow metal doors	+	71,532 sf 24 no	0.67 2000.00	48,000
TOTAL B12 Doors		24 no	2004.69	48,000



Project: OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Parking Location: Ottawa, Ontario
Owner/Client: City of Ottawa Pro
Architect: Ajon Moryiama Gross

ing File: SS-DD-R9 Date: Nov 21, 2016 Project Number: 20940 Gross Floor Area: 71532 sf

Description		Quantity	Rate	Amount
TOTAL B1 PARTITIONS & DOORS				248,000
B2 FINISHES				
B21 Floor Finishes				
Below grade parking Allowance for traffic topping - Below Grade Parking	+	71,532 sf 71,532 sf	4.50 4.50	321,890
TOTAL B21 Floor Finishes		71,532 sf	4.50	322,000
B22 Ceiling Finishes				
Below grade parking Paint to exposed structure	+	71,532 sf 71,532 sf	2.50 2.50	178,830
TOTAL B22 Ceiling Finishes		71,532 sf	2.50	179,000
P22 Well Finished				
Below grade parking Paint to wall	+	71,532 sf 71,532 sf	1.00 1.00	71,530
TOTAL B23 Wall Finishes		71,532 sf	1.01	72,000
TOTAL B2 FINISHES				573,000
B3 FITTINGS & EQUIPMENT				
B31 Fittings & Fixtures				
Below grade parking Allowance	+	71,532 sf 71,532 sf	2.50 2.50	178,830
TOTAL B31 Fittings & Fixtures		71,532 sf	2.50	179,000
B32 Equipment				
TOTAL B32 Equipment		71,532 sf	0.00	0
B33 Conveying Systems				
Below grade parking		71,532 sf		
TOTAL B33 Conveying Systems		0 Stp	0.00	0
TOTAL B3 FITTINGS & EQUIPMENT				179,000
TOTAL B INTERIORS				1,000,000



Project: OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Parking Location: Ottawa, Ontario
Owner/Client: City of Ottawa
Architect: Ajon Moryiama
Project: OPL/LAC) - Exemplar Site (Site 8) - Parking Location: Oplication of Parking Location: Oplication: Oplicat File: SS-DD-R9

Date: Nov 21, 2016 Project Number: 20940 Gross Floor Area: 71532 sf

Description	Quantity	Rate	Amount
C1 MECHANICAL			
C11 Plumbing & Drainage			
Allowance Below grade parking	71,532 sf	3.50	250,360
TOTAL C11 Plumbing & Drainage	71,532 sf	3.49	250,000
C12 Fire Protection			
Allowance Below grade parking	71,532 sf	3.00	214,600
TOTAL C12 Fire Protection	71,532 sf	3.01	215,000
C13 HVAC			
Allowance Below grade parking	71,532 sf	3.50	250,360
TOTAL C13 HVAC	71,532 sf	3.49	250,000
C14 Controls			
Allowance Below grade parking	71,532 sf	1.00	71,530
TOTAL C14 Controls	71,532 sf	1.01	72,000
TOTAL C1 MECHANICAL			787,000
C2 ELECTRICAL			
C21 Service & Distribution			
Allowance Below grade parking	71,532 sf	4.50	321,890
TOTAL C21 Service & Distribution	71,532 sf	4.50	322,000
C22 Lighting, Devices & Heating			
Allowance Below grade parking	71,532 sf	5.00	357,660
TOTAL C22 Lighting, Devices & Heating	71,532 sf	5.00	358,000
C23 Systems & Ancillaries			
Allowance Below grade parking	71,532 sf	2.00	143,060



Project: OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Parking File: SS-DD-R9

Location: Ottawa, Ontario
Owner/Client: City of Ottawa
Architect: Ajon Moryiama

Date: Nov 21, 2016 Project Number: 20940 Gross Floor Area: 71532 sf

Description	Quantity	Rate	Amount
TOTAL C23 Systems & Ancillaries	71,532 sf	2.00	143,000
TOTAL C2 ELECTRICAL			823,000
TOTAL C SERVICES			1,610,000
NET BUILDING COST (EXCLUDING SITE)			8,388,000
D1 SITE WORK			
D11 Site Development			
Below grade parking	71,532 sf		
	.,,		
TOTAL D11 Site Development	0 sf	0.00	0
D12 Mechanical Site Services			
Below grade parking	71,532 sf		
TOTAL D12 Mechanical Site Services	0 sf	0.00	0
D13 Electrical Site Services			
Below grade parking	71,532 sf		
TOTAL D13 Electrical Site Services	0 sf	0.00	0
TOTAL D1 SITE WORK			0
D2 ANCILLARY WORK			
D21 Demolition			
TOTAL D21 Demolition	sf	0.00	0
D22 Alterations			
N/A			
TOTAL D22 Alterations	0 sf	0.00	0
TOTAL D2 ANCILLARY WORK			0
TOTAL D SITE & ANCILLARY WORK			0
NET BUILDING COST (INCLUDING SITE)			8,388,000
Z1 GENERAL REQUIREMENTS & FEE			

Z11 General Requirements



Project: OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Parking Location: Ottawa, Ontario
Owner/Client: City of Ottawa Pro
Architect: Ajon Moryiama Gross File: SS-DD-R9

Date: Nov 21, 2016 Project Number: 20940 Gross Floor Area: 71532 sf

Description	Quantity	Rate	Amount
General Requirements	ls		755,000
TOTAL Z11 General Requirements			755,000
Z12 Fee			
Fee	Is		252,000
TOTAL Z12 Fee			252,000
TOTAL Z1 GENERAL REQUIREMENTS & FEE			1,007,000
TOTAL CONSTRUCTION ESTIMATE EXCLUDING ALLOWANCE	ES		9,395,000
Z2 CONTINGENCIES			
Z21 Estimating Contingency			
Estimating Contingency	Is		1,878,000
TOTAL Z21 Estimating Contingency			1,878,000
Z22 Escalation Contingency			
Escalation Contingency	Is		939,000
TOTAL Z22 Escalation Contingency			939,000
Z23 Construction Contingency			
Construction Contingency	ls		939,000
Total Z23 Construction Contingency			939,000
TOTAL Z2 CONTINGENCIES			3,756,000
TOTAL Z GENERAL REQUIREMENTS & CONTINGENCIES			4,763,000
TOTAL BUILDING COST INCLUDING ALLOWANCES			13,151,000

ELEMENTAL COST SUMMARY CLASS D COST ANALYSIS



SS-DD-R9

Project: OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Above Grade

Project: OTTAWA PUBLIC
Location: Ottawa, Ontario
Owner/Client: City of Ottawa
Architect: Ajon Moryiama

er/Client: City of Ottawa itect: Ajon Moryiama Date: Nov 21, 2016
Project Number: 20940
Gross Floor Area: 215,458 sf

Cat:

File:

Architect: Ajon Moryiama					Gross Floor Area:	215,458	sf
Element	Ratio to GFA	Elemental Quantity	Elemental Unit Rate	Elemental Amount	Cost/sf	Amount	
A SHELL							
A1 SUBSTRUCTURE					\$8.02		
A11 Foundation	0.11	24,156 sf	\$48.81	\$1,179,000	\$5.47		Í
A12 Basement Excavation	0.22	46,498 cy	\$11.83	\$550,000	\$2.55	\$1,729,000	1%
A2 STRUCTURE					\$62.82		
A21 Lowest Floor Construction	0.11	24,156 sf	\$11.51	\$278,000	\$1.29		Í
A22 Upper Floor Construction	0.89		\$53.14	\$10,165,000	\$47.18		ĺ
A23 Roof Construction	0.29	61,827 sf	\$49.99	\$3,091,000	\$14.35	\$13,534,000	11%
A3 EXTERIOR ENCLOSURE	0.27	01,027 31	Ψ 7.77	\$3,071,000	\$53.26	\$13,334,000	1170
A31 Walls Below Grade	0.08	18,292 sf	\$12.63	\$231,000	\$1.07		Í
A31 Walls Below Grade A32 Walls Above Grade							ĺ
	0.20		\$60.00	\$2,538,000	\$11.78		ĺ
A33 Windows & Entrances	0.12		\$156.30	\$4,125,000	\$19.15		ĺ
A34 Roof Covering	0.29		\$62.03	\$3,835,000	\$17.80		ĺ
A35 Projections	1.00	215,458 sf	\$3.47	\$747,000	\$3.47	\$11,476,000	10%
B INTERIORS							ĺ
B1 PARTITIONS & DOORS					\$27.86		ĺ
B11 Partitions	0.81	174,521 sf	\$29.80	\$5,201,000	\$24.14		ĺ
B12 Doors	0.00		\$2,000.10	\$801,000	\$3.72	\$6,002,000	5%
B2 FINISHES	0.00		1=,000.70		\$45.57	,,	
B21 Floor Finishes	1.00	215,458 sf	\$18.86	\$4,064,000	\$18.86		ł
	l l		\$18.86	\$3,230,000	\$18.86 \$14.99		ł
B22 Ceiling Finishes	1.00					40.040.000	-00/
B23 Wall Finishes	2.62	563,455 sf	\$4.48	\$2,524,000	\$11.71	\$9,818,000	8%
B3 FITTINGS & EQUIPMENT					\$38.30		1
B31 Fittings & Fixtures	1.00		\$26.60	\$5,732,000	\$26.60		1
B32 Equipment	1.00	215,458 sf	\$1.16	\$250,000	\$1.16		Í
B33 Conveying Systems	0.00	48 Stp	\$47,291.67	\$2,270,000	\$10.54	\$8,252,000	7%
C SERVICES							
C1 MECHANICAL					\$59.63		1
C11 Plumbing & Drainage	1 00	215.458 sf	\$8.15	\$1,755,000	\$8.15		Í
C11 Figinishing & Dramage C12 Fire Protection	1.00		\$5.02	\$1,733,000	\$5.02		1
	l l						1
C13 H.V.A.C.	1.00		\$39.96	\$8,610,000	\$39.96		
C14 Controls	1.00	215,458 sf	\$6.51	\$1,402,000	\$6.51	\$12,848,000	11%
C2 ELECTRICAL					\$44.26		1
C21 Service & Distribution	1.00	215,458 sf	\$18.00	\$3,878,000	\$18.00		1
C22 Lighting, Devices & Heating	1.00	215,458 sf	\$17.76	\$3,827,000	\$17.76		1
C23 Systems & Ancillaries	1.00	215,458 sf	\$8.50	\$1,831,000	\$8.50	\$9,536,000	8%
NET BUILDING COST (Excluding Site)	•	•			\$339.72	\$73,195,000	62%
D SITE & ANCILLARY WORK	1	1		ı	1	4.0,,	
D1 SITE WORK					\$11.96		l
	0.05	11 000 -f	¢150.40	¢4 777 000			1
D11 Site Development	0.05		\$150.48	\$1,777,000	\$8.25		1
D12 Mechanical Site Services	0.05		\$38.11	\$450,000	\$2.09		1
D13 Electrical Site Services	0.05	11,809 sf	\$29.64	\$350,000	\$1.62	\$2,577,000	2%
D2 ANCILLARY WORK		ĺ			\$0.00		ł
D21 Demolition	0.00		\$0.00	\$0	\$0.00		ł
D22 Alterations	0.00	0 sf	\$0.00	\$0	\$0.00	\$0	0%
NET BUILDING COST (Including Site)					\$351.68	\$75,772,000	
Z GENERAL REQUIREMENTS & ALLOWAND	FS						
Z1 GEN. REQ. & FEE 12.09					\$42.20		ł
				¢4 010 000	\$42.20 \$31.65		ł
•				\$6,819,000		¢0.000.000	904
Z12 Fee 3.09				\$2,273,000	\$10.55	\$9,092,000	8%
TOTAL CONSTRUCTION ESTIMATE (Exclud	ing Allow	ances)				\$84,864,000	71%
Z2 ALLOWANCES 40.09	6				\$157.54		ł
Z21 Estimating Allowance 20.09	%			\$16,973,000	\$78.78		ł
Z22 Escalation Allowance 10.09	% 3Q 2019)		\$8,485,000	\$39.38		ł
Z23 Construction Allowance 10.09				\$8,486,000	\$39.39	\$33,944,000	29%
10.07	-			, ,	+27.07		
TOTAL CONSTRUCTION ESTIMATE (Includi	na Allow	ances)				\$118,808,000	100%
TOTAL CONSTRUCTION ESTIMATE (INCludi	ng Allowa	arices)					
						Cost/unit	
GFA 215,458 sf						\$551	
GFA 20,017 m2						\$5,935	m2



OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Above Grade

Location: Ottawa, Ontario
Owner/Client: City of Ottawa
Architect: Ajon Moryiama

A3 EXTERIOR ENCLOSURE

Grade File: SS-DD-R9
Date: Nov 21, 2016
Project Number: 20940
Gross Floor Area: 21,548m2

Description	Quantity	Rate	Amount
GROSS FLOOR AREA			
	71,532 sf		
TOTAL GROSS FLOOR AREA	71,532 sf		
A1 SUBSTRUCTURE			
A11 Foundations			
OPL	99,211 sf	5.47	542,980
LAC Shared - OPL	54,774 sf	5.47	299,780
Shared - LAC	33,571 sf 27,902 sf	5.47 5.47	183,730 152,710
TOTAL A11 Foundations	24,156 sf	48.81	1,179,000
A12 Basement Excavation			
	00 211 of	2.55	252.040
OPL LAC	99,211 sf 54,774 sf	2.55 2.55	253,060 139,720
Shared - OPL Shared - LAC	33,571 sf	2.55	85,630 71,170
Sildreu - LAC	27,902 sf	2.55	71,170
TOTAL A12 Basement Excavation	46,498 cy	11.83	550,000
TOTAL A1 SUBSTRUCTURE			1,729,000
A2 STRUCTURE			
A21 Lowest Floor Construction			
	22.571.4	4.52	151 710
Shared - OPL Shared - LAC	33,571 sf 27,902 sf	4.52 4.52	151,710 126,100
Lowest floor - shared	+ 24,156 sf		
TOTAL A21 Lowest Floor Construction	24,156 sf	11.51	278,000
A22 Upper Floor Construction			
	71 F22 of		
Below grade parking - not required OPL	71,532 sf 99,211 sf	47.18	4,680,670
LAC Shared - OPL	54,774 sf 33,571 sf	47.18 47.18	2,584,180 1,583,840
Shared - LAC	27,902 sf	47.18	1,316,390
	+ 191,302 sf		
TOTAL A22 Upper Floor Construction	191,302 sf	53.14	10,165,000
A23 Roof Construction			
OPL	99,211 sf	14.35	1,423,460
LAC Shared - OPL	54,774 sf 33,571 sf	14.35 14.35	785,890 481,670
Shared - LAC	27,902 sf	14.35	400,330
TOTAL A23 Roof Construction	61,827 sf	49.99	3,091,000
		_	
TOTAL A2 STRUCTURE			13,534,000



OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Above Grade File: SS-DD-R9

Location: Ottawa, Ontario

Owner/Client: City of Ottawa

Architect: Ajon Moryiama

Date: Nov 21, 2016

Project Number: 20940

Gross Floor Area: 21,548m2

Description	Quantity	Rate	Amount
A31 Walls Below Grade			
OPL	99,211 sf	1.07	106,320
LAC	54,774 sf	1.07	58,700
Shared - OPL	33,571 sf	1.07	35,980
Shared - LAC	27.902 sf	1.07	29,900



OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Above Grade

Location: Ottawa, Ontario
Owner/Client: City of Ottawa
Architect: Ajon Moryiama

Grade File: SS-DD-R9
Date: Nov 21, 2016
Project Number: 20940
Gross Floor Area: 21,548m2

Description	Quantity	Rate	Amount
TOTAL A31 Walls Below Grade	18,292 sf	12.63	231,000
A32 Walls Above Grade			
OPL LAC	99,211 sf 54,774 sf	11.78 11.78	1,168,650 645,210
Shared - OPL Shared - LAC	33,571 sf 27,902 sf	11.78 11.78	395,450 328,670
TOTAL A32 Walls Above Grade	42,300 sf	60.00	2,538,000
A33 Windows & Entrances			
OPL LAC	99,211 sf 54,774 sf	19.15 19.15	1,899,600 1,048,760
Shared - OPL Shared - LAC	33,571 sf 27,902 sf	19.15 19.15	642,790 534,240
TOTAL A22 Mindows & Futoring	24 202 of	154 20	4 125 000
TOTAL A33 Windows & Entrances	26,392 sf	156.30	4,125,000
A34 Roof Covering			
OPL LAC	99,211 sf 54,774 sf	11.70 11.70	1,160,530 640,720
Shared - OPL Shared - LAC	33,571 sf 27,902 sf	33.08 33.08	1,110,590 923,040
TOTAL A34 Roof Covering	61,827 sf	62.03	3,835,000
A35 Projections			
OPL LAC	+ 99,211 sf	3.47	344,090
Shared - OPL Shared - LAC	+ 54,774 sf + 33,571 sf + 27,902 sf	3.47 3.47 3.47	189,970 116,430 96,770
TOTAL A35 Projections	215,458 sf	3.47	747,000
TOTAL A3 EXTERIOR ENCLOSURE			11,476,000
TOTAL A SHELL			26,739,000
B1 PARTITIONS & DOORS			
B11 Partitions			
OPL LAC	99,211 sf 54,774 sf	25.48 25.48	2,527,970 1,395,680
Shared - OPL Shared - LAC	33,571 sf 27,902 sf	20.78 20.78	697,620 579,820
TOTAL B11 Partitions	174,521 sf	29.80	5,201,000
		<u> </u>	

B12 Doors



OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Above Grade

Location: Ottawa, Ontario
Owner/Client: City of Ottawa
Architect: Ajon Moryiama

Allowance for stage - excluded

Grade File: SS-DD-R9
Date: Nov 21, 2016
Project Number: 20940
Gross Floor Area: 21,548m2

Description	Quantity	Rate	Amount
OPL LAC Shared - OPL Shared - LAC	99,211 sf 54,774 sf 33,571 sf 27,902 sf	4.12 4.12 2.70 2.70	409,180 225,910 90,580 75,290
TOTAL B12 Doors	400 No	2000.10	801,000
TOTAL B1 PARTITIONS & DOORS			6,002,000
B2 FINISHES			
B21 Floor Finishes			
OPL LAC Shared - OPL Shared - LAC	99,211 sf 54,774 sf 33,571 sf 27,902 sf	21.00 21.00 13.50 13.50	2,083,440 1,150,260 453,210 376,680
TOTAL B21 Floor Finishes	215,458 sf	18.86	4,064,000
B22 Ceiling Finishes			
OPL LAC Shared - OPL Shared - LAC	99,211 sf 54,774 sf 33,571 sf 27,902 sf	14.99 14.99 14.99 14.99	1,487,410 821,190 503,310 418,320
TOTAL B22 Ceiling Finishes	215,458 sf	14.99	3,230,000
B23 Wall Finishes			
OPL LAC Shared - OPL Shared - LAC	99,211 sf 54,774 sf 33,571 sf 27,902 sf	11.71 11.71 11.71 11.71	1,162,170 641,630 393,250 326,850
TOTAL B23 Wall Finishes	563,455 sf	4.48	2,524,000
TOTAL B2 FINISHES B3 FITTINGS & EQUIPMENT			9,818,000
B31 Fittings & Fixtures			
OPL LAC Shared - OPL Shared - LAC	99,211 sf 54,774 sf 33,571 sf 27,902 sf	24.93 27.55 24.93 27.55	2,473,030 1,509,230 836,820 913,110
TOTAL B31 Fittings & Fixtures	215,458 sf	26.60	5,732,000
B32 Equipment			
Retractable seating	250 no	1000.00	250,000
Allowance for stage excluded			



OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Above Grade Location: Ottawa, Ontario
Owner/Client: City of Ottawa
Architect: Ajon Moryiama Gross F File: SS-DD-R9 Date: Nov 21, 2016 Project Number: 20940

Gross Floor Area: 21,548m2

Description		Quantity	Rate	Amount
F				
TOTAL B32 Equipment		215,458 sf	1.16	250,000
B33 Conveying Systems				
OPL		99,211 sf	10.54	1,045,260
LAC Shared - OPL		54,774 sf 33,571 sf	10.54 10.54	577,080 353,690
Shared - LAC		27,902 sf	10.54	293,970
TOTAL B33 Conveying Systems		48 Stp	47291.67	2,270,000
TOTAL B3 FITTINGS & EQUIPMENT				8,252,000
TOTAL B INTERIORS				24,072,000
C1 MECHANICAL				
C11 Diversing 9 Decines				
C11 Plumbing & Drainage				
Allowance OPL	+	215,458 sf 99,211 sf	10.00	992,110
LAC Shared - OPL		54,774 sf 33,571 sf	10.00	547,740
Shared - LAC		27,902 sf	3.50 3.50	117,500 97,660
TOTAL C11 Plumbing & Drainage		215,458 sf	8.15	1,755,000
To the state of th		.,		,,
C12 Fire Protection				
Allowance		00.044 5	4.00	20/ 242
OPL LAC	++	99,211 sf 54,774 sf	4.00 8.00	396,840 438,190
Shared - OPL Shared - LAC	++	33,571 sf	4.00 4.00	134,280
Silareu - LAC	+	27,902 sf	4.00	111,610
TOTAL C12 Fire Protection		215,458 sf	5.02	1,081,000
C13 HVAC				
Allowance				
OPL	+	99,211 sf	40.00	3,968,440
LAC Shared - OPL	+	54,774 sf 21,612 sf	40.00 35.00	2,190,960 756,430
Atrium area - smoke vac allowance	+	11,959 sf	60.00	717,530
Shared - LAC	+	27,902 sf	35.00	976,570
TOTAL C13 HVAC		215,458 sf	39.96	8,610,000
C14 Controls				
Allowance				
OPL	+	99,211 sf	6.00	595,270
LAC Shared - OPL	+ +	54,774 sf 33,571 sf	8.00 6.00	438,190 201,430
Shared - LAC	+	27,902 sf	6.00	167,410



OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Above Grade Location: Ottawa, Ontario
Owner/Client: City of Ottawa
Architect: Ajon Moryiama Gross F

File: SS-DD-R9 Date: Nov 21, 2016 Project Number: 20940 Gross Floor Area: 21,548m2

Architect: Ajon Moryiama		Gross	21,548m2		
Description		Quantity	Rate	Amount	
TOTAL C14 Controls		215,458 sf	6.51	1,402,000	
TOTAL C1 MECHANICAL				12,848,000	
				12,848,000	
C2 ELECTRICAL					
C21 Service & Distribution					
Allowance					
OPL	+	99,211 sf	18.00	1,785,800	
LAC Shared ODI	+	54,774 sf	18.00	985,930	
Shared - OPL Shared - LAC	+	33,571 sf 27,902 sf	18.00 18.00	604,280 502,240	
Shared - LAC	т	27,702 31	10.00	302,240	
TOTAL C21 Service & Distribution		215,458 sf	18.00	3,878,000	
C22 Lighting Dovices & Heating					
C22 Lighting, Devices & Heating					
Allowance OPL		00 211 of	17.00	1 404 E00	
LAC	++	99,211 sf 54,774 sf	17.00 20.00	1,686,590 1,095,480	
Shared - OPL	+	33,571 sf	17.00	570,710	
Shared - LAC	+	27,902 sf	17.00	474,330	
TOTAL C22 Lighting, Devices & Heating		215,458 sf	17.76	3,827,000	
C23 Systems & Ancillaries					
Allowance					
OPL	+	99,211 sf	8.50	843,290	
LAC	+	54,774 sf	8.50	465,580	
Shared - OPL	+	33,571 sf	8.50	285,350	
Shared - LAC	+	27,902 sf	8.50	237,170	
TOTAL C23 Systems & Ancillaries		215,458 sf	8.50	1,831,000	
TOTAL C2 ELECTRICAL				9,536,000	
TOTAL C SERVICES				22,384,000	
NET BUILDING COST (EXCLUDING SITE)				73,195,000	
D1 SITE WORK					
D11 Site Development					
OPL		99,211 sf	8.25	818,310	
LAC		54,774 sf	8.25	451,790	
Shared - OPL Shared - LAC		33,571 sf	8.25	276,900	
Silateu - LAC		27,902 sf	8.25	230,140	
TOTAL D11 Site Development		11,809 sf	150.48	1,777,000	
D12 Mechanical Site Services					
OPL		99,211 sf	2.00	207,210	
LAC		54,774 sf	2.09 2.09	114,400	
Shared - OPL		33,571 sf	2.09	70,120	
Shared - LAC		27,902 sf	2.09	58,280	



File: SS-DD-R9

OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Above Grade

Location: Ottawa, Ontario
Owner/Client: City of Ottawa
Architect: Ajon Moryiama

Z2 CONTINGENCIES

Date: Nov 21, 2016 Project Number: 20940 Gross Floor Area: 21,548m2

Description	Quantity	Rate	Amount
TOTAL D12 Mechanical Site Services	11,809 sf	38.11	450,000
D13 Electrical Site Services			
OPL LAC Shared - OPL Shared - LAC	99,211 sf 54,774 sf 33,571 sf 27,902 sf	1.62 1.62 1.62 1.62	161,160 88,980 54,530 45,330
TOTAL D13 Electrical Site Services	11,809 sf	29.64	350,000
TOTAL D1 SITE WORK D2 ANCILLARY WORK			2,577,000
D21 Demolition			
TOTAL D21 Demolition	sf	0.00	0
D22 Alterations			
N/A			
TOTAL D22 Alterations	0 sf	0.00	0
TOTAL D22 Alterations TOTAL D2 ANCILLARY WORK	0 sf	0.00	0
	0 sf	0.00	
TOTAL D2 ANCILLARY WORK	0 sf	0.00	0
TOTAL D2 ANCILLARY WORK TOTAL D SITE & ANCILLARY WORK	0 sf	0.00	2,577,000
TOTAL D2 ANCILLARY WORK TOTAL D SITE & ANCILLARY WORK NET BUILDING COST (INCLUDING SITE)	O sf	0.00	2,577,000
TOTAL D2 ANCILLARY WORK TOTAL D SITE & ANCILLARY WORK NET BUILDING COST (INCLUDING SITE) Z1 GENERAL REQUIREMENTS & FEE	0 sf	0.00	2,577,000
TOTAL D2 ANCILLARY WORK TOTAL D SITE & ANCILLARY WORK NET BUILDING COST (INCLUDING SITE) Z1 GENERAL REQUIREMENTS & FEE Z11 General Requirements		0.00	2,577,000 75,772,000
TOTAL D2 ANCILLARY WORK TOTAL D SITE & ANCILLARY WORK NET BUILDING COST (INCLUDING SITE) Z1 GENERAL REQUIREMENTS & FEE Z11 General Requirements General Requirements		0.00	0 2,577,000 75,772,000 6,819,000
TOTAL D2 ANCILLARY WORK TOTAL D SITE & ANCILLARY WORK NET BUILDING COST (INCLUDING SITE) Z1 GENERAL REQUIREMENTS & FEE Z11 General Requirements General Requirements TOTAL Z11 General Requirements Z12 Fee Fee		0.00	0 2,577,000 75,772,000 6,819,000 6,819,000
TOTAL D2 ANCILLARY WORK TOTAL D SITE & ANCILLARY WORK NET BUILDING COST (INCLUDING SITE) Z1 GENERAL REQUIREMENTS & FEE Z11 General Requirements General Requirements TOTAL Z11 General Requirements Z12 Fee	ls	0.00	0 2,577,000 75,772,000 6,819,000 6,819,000
TOTAL D2 ANCILLARY WORK TOTAL D SITE & ANCILLARY WORK NET BUILDING COST (INCLUDING SITE) Z1 GENERAL REQUIREMENTS & FEE Z11 General Requirements General Requirements TOTAL Z11 General Requirements Z12 Fee Fee	ls	0.00	0 2,577,000 75,772,000 6,819,000 6,819,000



OTTAWA PUBLIC LIBRARY (OPL/LAC) - Exemplar Site (Site 8) - Above Grade File: SS-DD-R9

Location: Ottawa, Ontario
Owner/Client: City of Ottawa
Architect: Ajon Moryiama
Date: Nov 21, 2016
Project Number: 20940
Gross Floor Area: 21,548m2

Description	Quantity	Rate Amount
Z21 Estimating Contingency		
Estimating Contingency	Is	16,973,000
TOTAL Z21 Estimating Contingency		16,973,000
Z22 Escalation Contingency		
Escalation Contingency	ls	8,485,000
TOTAL Z22 Escalation Contingency		8,485,000
Z23 Construction Contingency		
Construction Contingency	Is	8,486,000
Total Z23 Construction Contingency		8,486,000
TOTAL Z2 CONTINGENCIES		33,944,000
TOTAL Z GENERAL REQUIREMENTS & CONTINGENCIES		43,036,000
TOTAL BUILDING COST INCLUDING ALLOWANCES		118,808,000



3 AREA SUMMARY

Class D Revision:	5			0.	tawa Libr	-	ity of O	-	iai Site	(Site 6)		' ⊪ ' T	urner &	Townsend
tevision:	5					А	rea Sch	edule						
FLOOR	PARKING	Shared - OPL	Shared - LAC	OPL	IAC									GROSS INTERNAL FLOOR AREA
Level 0 Level 1 Level 2 Level 3	71,532	33,571	27,902	99,211	54,774									0 286,990 0 0
TOTAL	71,532	33,571	27,902	99,211	54,774									0 286,990
Last Report Movement							L L	L L						
Area Sched	ıle												r	making the difference



4 DOCUMENT LIST

Dwg no.	Document	Prepared By	Dated	Date Received		
	ARCHITECTURAL					
	Updated sketches	Ajon Moryiama	21/6/2016	25-Oct-2016		
	Updated GFA	OPL	2-Nov-2016	2-Nov-2016		
	STRUCTURAL					
	N/A					
	IV/A					
	LANDSCAPE					
	N/A					
	CIVILS					
	N/A					
	MECHANI CAL					
	INCOMPRESSION CONTRACTOR CONTRACT					
	N/A					
	ELECTRICAL					
	N/A					
	<u>SPECIFICATIONS</u>					
	<u>SFECTIONS</u>					
	N/A					