

17 December 2020

Cost Report

Class C Estimate

McMurray Metis Cultural Centre MacDonald Island Way, Fort McMurray, Alberta McMurray Metis Local 1935

making the difference

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McMurray Metis Local 1935

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Revision: 1

McMurray Metis Cultural Centre

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Quality Check

Rev	Status	Prepared by	Checked by	Date
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Section 1 - Contents Page

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2 EXECUTIVE COST SUMMARY

Project No. can21273 Rev. 0 December 16, 2020

MCMURRAY METIS CULTURAL CENTRE SCHEMATIC DESIGN CLASS C CONSTRUCTION AND SOFT COST ANALYSIS

EXECUTIVE SUMMARY

		GFA (sf)	\$/sf		Amount CAD \$
1	Construction costs: McMurray Metis Cultural Centre	63,604	\$854		\$54,298,000
	Building Works		100/	\$42,789,000	
	General Requirements Fees		10% 3%		
	Design/Estimating Allowance		12%		
	McMurray Metis Cultural Centre Site Works				\$4,424,000
	Site Works General Requirements		10%	\$3,486,000 \$349,000	
	Fees		3%	\$115,000	
	Design/Estimating Allowance		12%	\$474,000	
	Sub-Total Construction Cost	63,604	\$923		\$58,722,000
2	Escalation Allowance (assumed construction start date of Spring 2021) 05	6			Excluded
3	Construction Contingency Allowance - Post Contract 55	6			\$2,936,000
4	Net-Zero Energy Premium - included in cost estimate				\$0
5	Net-Zero Carbon Premium - included in cost estimate				\$0
6	One Planet Living Certification and Consultant				\$65,000
	Total Estimated Construction Cost	63,604	\$970		\$61,723,000
7 8 9	Municipal Fees + Charges	L FEES AND SC	OFT COSTS		\$3,317,400 \$285,000 \$3,773,753 \$300,000 \$240,000
Total E	stimated Construction, Equipment, Professional Fees and Soft Costs	63,604	\$1,095		\$69,639,153
		,			\$3,482,000
12	GST (Goods and services tax) 55	6			+-,,
	ALTERNATIVES				
	ALTERNATIVES	Saving (-)/Ad	dition(+)		-3,227,000
	ALTERNATIVES				
13 14	ALTERNATIVES Modular Brick in lieu of Swiss INSO Kromatix	Saving (-)/Ad	dition(+)		-3,227,000
13 14	ALTERNATIVES Modular Brick in lieu of Swiss INSO Kromatix Modular Brick in lieu of Rammed earth wall - Sirewall Conventional triple glazed curtain wall in lieu of triple glazed onyx	Saving (-)/Ad Saving (-)/Ad	ldition(+) dition(+)		-3,227,000 -1,524,000

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2 **EXECUTIVE COST SUMMARY**

Project No. can21273 Rev. 0 December 16, 2020

MCMURRAY METIS CULTURAL CENTRE SCHEMATIC DESIGN CLASS C CONSTRUCTION AND SOFT COST ANALYSIS

EXECUTIVE SUMMARY

Notes:

- The above is an opinion of Probable Cost Only 1
- 2 The estimate assumes the works will be completed by non-unionized labour force
- 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 Construction Management basis, and that bids will be received from a minimum of three sub contractors for each major trades. 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 3 within a non-accelerated schedule.
- 4 FF&E, Professional fees and AV/IT costs are a placeholder at this time

The following have been specifically excluded:

- 1 Legal Fees and Expenses
- 2 Owner's Administration Expenses
- 3 Removal of Contaminated Material, if any 4 Construction Price Escalation Beyond 4Q 2020
- 5 Land costs
- Premiums for Single Sourced Materials 6
- 7 Schedule Acceleration Premium
- 8 LEED Premiums
- 9 AESS Grade Steel
- 10 Out of Hours Woking (other than where stated)
- 11 Hazardous Material
- 12 Loss of Revenue Premiums included by either the Construction Manager or sub trades due to any prohibitive contractual clauses such as Liquidated Damages or penalties for non completion of the workDemolition of Existing Structures
- 15 Asbestos abatement
- 16 Theatre and stage equipment

Class C Cost Report

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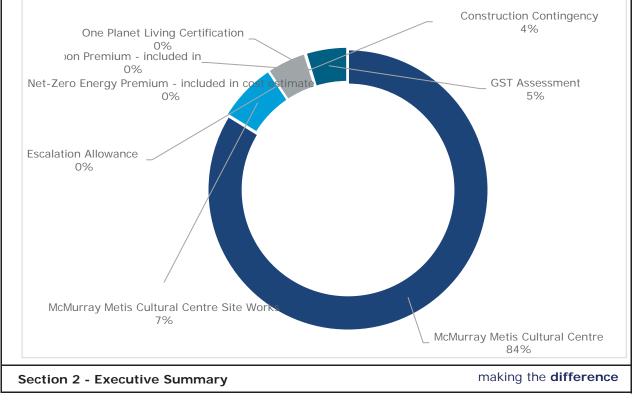
McMurray Metis Cultural Centre

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Section 2 - Executive Summary

ment lurray Metis Cultural Centre lurray Metis Cultural Centre Site Works S-TOTAL: BUILDING COSTS alation Allowance struction Contingency	TOTAL \$54,298,000 \$4,424,000 \$58,722,000 Excluded \$2,936,000	\$/m ² \$9,189 \$147 \$9,938 Excluded	\$/ft ² \$854 \$14 \$923 Excluded	Cost Ratio 84% 7% 91% Excluded
Aurray Metis Cultural Centre Site Works B-TOTAL: BUILDING COSTS	\$4,424,000 \$58,722,000 Excluded	\$147 \$9,93 8	\$14 \$923	7% 91%
lation Allowance	Excluded			
		Excluded	Excluded	Evoluded
struction Contingonov	\$2,936,000			Excluded
struction contingency	\$2,750,000	\$497	\$46	5%
AL: BUILDING COSTS	\$61,658,000	\$10,435	\$969	95%
Zero Energy Premium - included in cost nate	\$0	\$0	\$0	0%
Zero Carbon Premium - included in cost nate	\$0	\$0	\$0	0%
Planet Living Certification	\$65,000	\$11	\$1	0%
AL: PROJECT COSTS (exc TAX)	\$61,723,000	\$10,446	\$970	95%
Assessment	\$3,086,150	\$522	\$49	5%
	\$64,900,150	\$10,968	\$1,019	100%
n F	ate Planet Living Certification AL: PROJECT COSTS (exc TAX) Assessment	ate\$0Planet Living Certification\$65,000AL: PROJECT COSTS (exc TAX)\$61,723,000Assessment\$3,086,150	\$0 \$0 \$0 Planet Living Certification \$65,000 \$11 AL: PROJECT COSTS (exc TAX) \$61,723,000 \$10,446 Assessment \$3,086,150 \$522	ate \$0 \$0 \$0 Planet Living Certification \$65,000 \$11 \$1 AL: PROJECT COSTS (exc TAX) \$61,723,000 \$10,446 \$970 Assessment \$3,086,150 \$522 \$49



McMurray Metis Local 1935

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Section 3 - Financial overview

3 Cost Report

3.1 Project Introduction

The purpose of this Cost Plan is to provide McMurray Metis Local 1935 with an Opinion of Probable Cost only at Class C and reflects current local market rates and conditions.

The Cost Plan provides indicative construction costs costs for the McMurray Metis Cultural Centre project in Fort McMurray, for McMurray Metis Local 1935 at Class C correct to a magnitude of +/-20% to 40%.

The costs have been based upon the information listed in Appendix B and a Gross Floor Area of 63,604 ft2 as indicated in Appendix A.

The Cost Plan has been prepared solely for the use of McMurray Metis Local 1935 and shall not be relied upon by any third party.

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.

3.2 Financial overview

The Building Costs (inclusive of GST) totals \$64,809,150.00 including General Requirements, Overheads & Profit, Contingency, this equates to \$1018.94/ft2.

The Project Cost totals \$69,639,152.50 and includes Building Costs, Escalation and any applicable Soft Costs including FF&E, Professional Fees and AV/IT Costs. This equates to \$1094.88/ft2.

The Construction Manager's General Requirements have been assumed at 10% and Construction Manager's Fee at 3%

3.3 Key cost drivers

- External envelope; Kromatix, Sirewall, photovoltaic glass curtain wall
- Piling and Sono-tube requirements
- Glass canopies and projection structures
- Timber structural; framing and glulam columns and beams
- Equipment allowances
- HVAC
- Site development

3.4 Contingency summary

The Design Contingency is set at 12% which equates to \$6,292,000.00 The Construction Contingency is set at \$2,936,000.00

3.5 Risks

The Key risks have been considered are summarised below:

- Incomplete design package
- Unique and complex building footprint

Section 3 - Financial overview

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McMurray Metis Cultural Centre

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Section 3 - Financial overview

3.6 Escalation Summary

Works are priced at a Base Date of Q4 2020 Escalation has been excluded from this estimate

3.7 General Requirements

We have included an allowance of 10% for General Requirements within our estimate which represents the current market levels for a project of this nature.

Our allowance for Requirements includes: -

- Site Set Up
- Contractor Staff
- Hoarding
- Mobilization and Demobilization
- Bonding and Insurance
- Temporary Power
- Temporary Heating
- Scaffolding
- Regular and Final Cleaning
- Traffic Control and Management
- Small Tools and Equipment
- Site Signage
- Temporary Office

3.8 Procurement strategy

This estimate assumes that the project will be procured on a Construction Management basis , and that bids will be received from a minimum of three sub contractors for each major trades. 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.

Section 3 - Financial overview

McMurray Metis Local 1935

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McMurray Metis Cultural Centre

Section 3 - Financial overview

3.9 Measurement and Pricing

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

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.

The rates used for this estimate are also inclusive of location factor to account for trades, labour and material supply coming from either Edmonton or out of town.

3.10 General Statement of Liability

Turner & 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.

Turner & 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 assumed current market conditions.

3.11 Outstanding actions / information

- Structural Drawings
- Mechanical and electrical Drawings
- Civil Drawings

Section 3 - Financial overview

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McMurray Metis Cultural Centre

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Section 4 - Basis of Costs

4 Basis of Costs

4.1 Information used and outstanding

The Cost Plan has been prepared solely in accordance with the documentation outlined within this document and as specified in Appendix B.

4.2 Assumptions

The following Assumptions have been made in the preparation of the Cost Estimate

- 1. Works are priced at Q4 2020 with no Escalation applied
- 2. The Cost Plan assumes that the works will be procured by a Construction Management process. The tender will be based on Class A information or equivalent.
- 3. Regular working hours
- 4. No major site grading allowed; relatively flat site is assumed
- 5. No major phasing requirements
- 6. No 'Accelerated' schedule premiums allowed
- 7. Refer to the section 'Elemental Basis' for further specific Works assumptions
- 8. Non-union labour

4.3 Exclusions

The following items are specifically excluded from the Cost Estimate:

- 1. GST (Goods and services tax)
- 2. Legal Fees and Expenses
- 3. Owner's Administration Expenses
- 4. Removal of Contaminated Material, if any
- 5. Construction Price Escalation Beyond 4Q 2020
- 6. Land costs
- 7. Premiums for Single Sourced Materials
- 8. Schedule Acceleration Premium
- 9. LEED Premiums
- 10. AESS Grade Steel
- 11. Out of Hours Woking (other than where stated)
- 12. Hazardous Material
- 13. Loss of Revenue
- ^{14.} Premiums included by either the Construction Manager or sub trades due to any prohibitive contractual clauses such as Liquidated Damages or penalties for non completion of the work
- 15. Demolition of Existing Structures
- 16. Asbestos abatement
- 17. Theatre and stage equipment

Section 4 - Basis of Costs

5 SOFT COSTS BREAKDOWN

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Rev. 0 December 4, 2020								
MCMURRAY METIS CULTURAL CENTRE								
SCHEMATIC DESIGN CLASS C CONSTRUCTION AND SOFT COST ANALYSIS								
BREAKDOWN OF FURNITURE, FURNISHINGS & EQUIPMENT, PROFESSIONAL FEES AND SOFT COSTS								
1 Furniture, Furnishings and Equipment:	\$3,317,400	***						
Kitchen dock (trash containers and racking)		\$2,0						
Kitchen equipment Kitchen - loose FF&E		\$150,0 \$50,0						
Kitchenware goods (utensils, plates, trays, carts, etc)		\$15,0						
Gathering Space - loose FF&E (chairs 225 x \$200 each)		\$45,0						
Gathering Space - loose FF&E (tables 30 x \$150 each)		\$4,5						
Gathering space - lighting etc		\$10,0						
Multi-purpose Rooms 1 & 2 - countertop assumed with high and low cabinets, allow 21m		\$39,1						
Multi-purpose Rooms 1 & 2 - loose FF&E (tables and chairs)		\$12,0						
Resource Centre - loose FF&E (tables, chairs, bookcases and map cabinets)		\$10,0						
Resource Centre - countertop assumed with high and low cabinets, allow 10m		\$18,0						
Wellness - FF&E placeholder		\$6,0						
Green room - storage placeholder		\$8,0						
Art Gallery (giftshop) - fixturing with built-in storage		\$50,0						
Loading bay - carts, dollies and pallet jack		\$3,0						
Wood working shop		\$70,0						
Closed offices (30 units) - loose FF&E (desks, chairs, visitor chairs, etc)		\$150,0						
Open Furniture and Offices - loose FF&E		\$60,0						
Large Board Room (24 seats) - loose FF&E (custom table and chairs)		\$35,0						
Board Room #2 (12 seats) - loose FF&E (custom table and chairs)		\$20,0						
Board Room #3 (12 seats) - loose FF&E (custom table and chairs)		\$20,0						
Lobby Support - FF&E placeholder		\$5,0 \$30,0						
Museum Collection Room - cabinets Museum Collection Room - shelving		\$3,0						
Museum Collection Room - chairs, tables and book case		\$20,0						
Greenhouse - pots, planters, dirt, vertical plant supports		\$100,0						
Greenhouse - shelving		\$50.0						
Greenhouse - tools and irrigation system		\$50,0						
View Terrace - FF&E		\$15,C						
Outdoor Yard Equipment - FF&E		\$15,C						
Office Kitchen - dishwashers, allow 2 nos.		\$2,0						
Office Kitchen - refrigerators, allow 2 nos.		\$4,C						
Office Kitchen - microwave - allow 2 nos.		\$1,C						
Circular Gathering Space - Large wood-burning fireplace		\$100,0						
Facility management equipment		\$20,0						
Facility solid waste handling equipment		\$10,0						
Feature film		\$50,0						
Exhibit costing		\$2,000,0						
Collection room cabinets Theatre - allowance for theatre seating, assume 62 seats		\$40,0 \$24,8						
2 AV/IT Equipment	\$285,000							
2 AV/IT Equipment Board Room AV equipment and set up	\$∠83,000	\$70,0						
P.O.S. Terminals x 3 (hardware and software for admissions, giftshop		φ/ 0 ,0						
and food service		\$15,0						
Digital signage		\$20,0						
Office computers (20 x \$3k per unit)		\$60,0						
Sound masking		\$100,0						
Security - computer		\$20,0						

5 SOFT COSTS BREAKDOWN

Project No. can21273							
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ecember 4, 2020							
MCMURRAY METIS CULTURAL CENTRE SCHEMATIC DESIGN CLASS C CONSTRUCTION AND SOFT COST ANALYSIS							
BREAKDOWN OF FURNITURE, FURNISHINGS & EQUIPMENT, PROFESSIONAL FEES AND SOFT COSTS							
3 Professional Fees:	\$3,773,753						
Museum Consultants (Tom, Tim and Heather)		\$120,000					
Commissioning Agents		\$100,000					
One Earth Certification		Include					
Interpretive Program Developer		Included in sta					
Legal		\$50,000					
Survey		\$60,000					
Architect		\$1,087,200					
Structural		\$279,000					
Mechanical		\$375,000					
Electrical		\$173,420					
Civil		\$325,000					
Landscape		\$299,730					
Cost Consultant		\$80,000					
Code Consultant (under Architect)		\$C					
Acoustic Consultant		\$50,000					
Building Envelope Consultant		\$75,000					
Kitchen/Food Consultant		\$15,000					
Additional Consultants Allowance		\$200,000					
Disbursements (assumes 2 trips/month site review)		\$484,403					
4 Municipal Fees + Charges	\$300,000						
Rezoning + Subdivision		N/					
Development Permit		\$15,000					
Building Permit (based on \$30m construction value)		\$275,000					
Sundry Municipal Charges		\$10,000					
5 Staff On-Boarded in Final Year of Construction	\$240,000						
Building Manager		\$80,000					
Front of House Manager		\$80,000					
Cultural Properties Manager		\$80,000					
TOTAL							

Class C Cost Report

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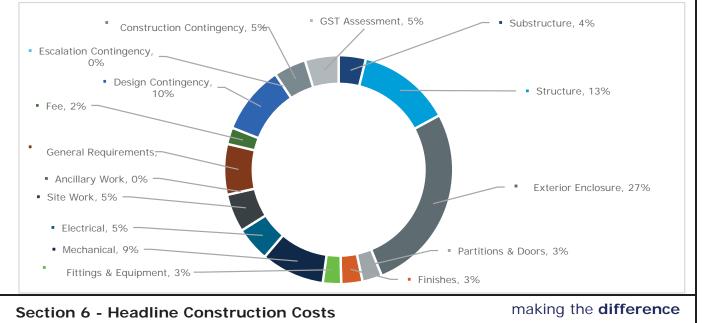
McMurray Metis Cultural Centre

Revision: 1

Date: 17/12/2020

Section 6 - Headline Construction Costs

		Gross Floor Area:	5,909 m²	63,604 ft ²
Ref	Element	TOTAL	\$/m²	\$/ft ²
A1	Substructure	\$2,480,000	\$420	\$39
A2	Structure	\$8,610,000	\$1,457	\$135
A3	Exterior Enclosure	\$17,304,000	\$2,928	\$272
B1	Partitions & Doors	\$1,798,000	\$304	\$28
B2	Finishes	\$1,950,000	\$330	\$31
B3	Fittings & Equipment	\$1,670,000	\$283	\$26
C1	Mechanical	\$5,812,000	\$984	\$91
C2	Electrical	\$3,165,000	\$536	\$50
D1	Site Work	\$3,486,000	\$590	\$55
D2	Ancillary Work	\$0	\$0	\$0
	SUB-TOTAL: BUILDING WORKS	\$46,275,000	\$7,831	\$728
Z11	General Requirements	\$4,628,000	\$783	\$73
Z12	Fee	\$1,527,000	\$258	\$24
	TOTAL: BUILDING WORKS ESTIMATE	\$52,430,000	\$8,873	\$824
Z21	Design Contingency	\$6,292,000	\$1,065	\$99
Z22	Escalation Contingency	\$0	\$0	\$0
Z23	Construction Contingency	\$2,936,000	\$497	\$46
	TOTAL: CONSTRUCTION COST	\$61,658,000	\$10,435	\$969
GST	GST Assessment	\$3,083,000	\$522	\$48
	TOTAL: CONSTRUCTION COST (Inc TAX)	\$64,741,000	\$10,956	\$1,018



McMurray Metis Local 1935

Turner & Townsend

Revision: 1

McMurray Metis Cultural Centre

Date: 17/12/2020

McMurray Metis Cultural Centre									
Ref	Element	Ratio To GFA	Elementa Quantity		Elemental Unit Rate	Total	Cost / m2	Cost / ft2	Cost Ratio
Α	Shell					\$28,394,000	\$4,805	\$446	47%
A1	Substructure					\$2,480,000	\$420	\$39	4%
411	Foundation	0.45	2,649		\$936	\$2,480,000	\$420	\$39	4
412	Basement excavation	0.00	0	m ³	\$0	\$0	\$0	\$0	0
A2	Structure					\$8,610,000	\$1,457	\$135	14%
A21	Lowest Floor Construction	0.45	2,649	m ²	\$204	\$540,000	\$91	\$8	1
422 423	Upper Floor Construction Roof Construction	0.55 0.45	3,260	m ² m ²	\$1,997 \$589	\$6,509,000	\$1,102	\$102 \$25	11 [.] 3 [.]
A23	Exterior Enclosure	0.45	2,649	m	\$309	\$1,561,000 \$17,304,000	\$264 \$2,928	\$25	29%
A31	Walls Below Grade	0.00	0	m ²	\$0	\$17,304,000	\$0	\$0	0
432	Walls Above Grade	0.77	4,539	m ²	\$1,157	\$5,253,000	\$889	\$83	9
433	Windows & Entrances	0.14	801	m ²	\$2,181	\$1,747,000	\$296	\$27	3
434	Roof Covering	0.45	2,649	m ²	\$1,142	\$3,024,000	\$512	\$48	5
435	Projections	1.00	5,909	m²	\$1,232	\$7,280,000	\$1,232	\$114	12
в	Interiors					\$5,418,000	\$917	\$85	9%
B1	Partitions & Doors					\$1,798,000	\$304	\$28	3%
311	Partitions	0.54	3,184	m ²	\$500	\$1,593,000	\$270	\$25	3
312	Doors	0.02	91	no	\$2,253	\$205,000	\$35	\$3	0
B2	Finishes					\$1,950,000	\$330	\$31	3%
321	Floor Finishes	0.84	4,949	m ²	\$250	\$1,235,000	\$209	\$19	2
322	Ceiling Finishes	0.84	4,949	m ²	\$51	\$253,000	\$43	\$4	0
323	Wall Finishes	1.48	8,757	m²	\$53	\$462,000	\$78	\$7	1
B3	Fittings & Equipment	1.00	F 000	2	¢001	\$1,670,000	\$283	\$26	3%
331 332	Fittings & Fixtures Equipment	1.00 1.00	5,909 5,909	m ² m ²	\$231 \$0	\$1,365,000 \$0	\$231 \$0	\$21 \$0	2 0
333	Conveying Systems	0.00		stp	\$43,571	\$305,000	\$0 \$52	\$0 \$5	1
С	Services			1-	+	\$8,977,000	\$1,519	\$141	15%
C1	Mechanical					\$5,812,000	\$984	\$91	10%
211	Plumbing & Drainage	1.00	5,909	m ²	\$126	\$744,000	\$ 784	\$12	10 78
212	Fire Protection	1.00	5,909	m ²	\$73	\$431,000	\$73	\$7	1
C13	HVAC	1.00	5,909	m ²	\$715	\$4,223,000	\$715	\$66	7
C14	Controls	1.00	5,909	m ²	\$70	\$414,000	\$70	\$7	1
C2	Electrical			2		\$3,165,000	\$536	\$50	5%
221	Service & Distribution	1.00	5,909	m ²	\$174	\$1,027,000	\$174	\$16 \$19	2' 2'
C22 C23	Lighting, Devices & Heating Systems & Ancillaries	1.00 1.00	5,909 5,909	m ² m ²	\$204 \$157	\$1,208,000 \$930,000	\$204 \$157	\$19 \$15	2
D	Site & Ancillary Work	1.00	5,707	111	\$137	\$730,000	\$137	\$15 \$0	0%
D2	Ancillary Work					\$0	\$0 \$0	\$0 \$0	0%
021	Demolition	0.00	0	m ²	\$0	\$0	\$0 \$0	\$0 \$0	0 /0
	Alterations	0.00		m ²	\$0	\$0	\$0 \$0	\$0 \$0	0
	SUB-TOTAL: NET BUILDING WORKS					\$42,789,000	\$7,241	\$673	71%
7									
Z 71	General Requirements & Allowances					\$5 601 000	\$062	\$20	10%
Z1 Z11	General Requirements & Fee General Requirements			10.0 %	6	\$5,691,000 \$4,279,000	\$963 \$724	\$89 \$67	10% 7
	Fee			3.0 %		\$4,279,000 \$1,412,000	\$724 \$239	\$67 \$22	2
	TOTAL: BUILDING WORKS ESTIMATE			0.0 /	-	\$48,480,000	\$8,204	\$762	81%
Z2	Allowances					\$8,533,000	\$1,444	\$134	14%
221	Design Allowance			12.0 %		\$5,818,000	\$985	\$91	10
	Escalation Allowance			0.0 %		\$0	\$0		0
<u>∠</u> 23	Construction Contingency			5.0 %	6	\$2,715,000	\$459	\$43	5
	TOTAL BUILDING COST					\$57,013,000	\$9,649	\$896	95%
SST	GST Assessment		5.0%			\$2,850,700	\$482	\$45	5%
	TOTAL BUILDING COST INC TAX					\$59,864,000	\$10,131	\$941	100%
	GFA								
	Gross Floor Area (m2):	5,909							
	Gross Floor Area (ft2):	63,60	4 ft ²						

Section 7 - Building Works Elemental Summary

Class (Revisio			2	tis Local 1935 Cultural Centre		Turner & Townsend		
			-	Works Cost Analys				
	Estin	nate - McM	lurray	Metis Cultural Cen	tre	1		
Ref	Ref Description Qty Unit Rate Total							
A	SHELL	LL 28,394,000						
A1	SUBSTRUCTURE				2,480,000			
A11	Foundation	2,649	m2	936.20	2,480,000			
	Note: The following allowances are based on the structural brief. No structural drawings available. The cost is to be reassessed once further details on the foundations are available. Engineer to verify allowances							
A 11.01	Exterior grade beam, 1000mm wide x 500mm deep	380	m	430.00	163,400			
A 11.08	Interior grade beam, 1000mm wide x 500mm deep	536	m	430.00	230,580			
A 11.09 A 11.10 A 11.11	Pile foundation - CFA piles, 10m deep, include:- 450mm diameter pile 500mm diameter pile 800mm diameter pile	18 136 190	no no no	2,400.00 2,400.00 6,000.00	326,400	As per SB-Canada's pricing As per SB-Canada's pricing As per SB-Canada's pricing		
A 11.09	Mobilization and Demobilization - allowance	1	sum	185,000.00	185,000	As per SB-Canada's pricings: 55K mob demob + 60K restrict access + 70K working in excavation area		
A 11.12	Allowance for spoil removal from site - REUSE IN SITE FOR LANDSCAPE FILL	1	sum	50,000.00	50,000			
A 11.13 A 11.14	Allowance for sono-tube columns - 1500mm deep 450mm diameter pile 500mm diameter pile	18 136	no no	600.00 700.00	10,800 95,200			
A 11.15 A 11.16	800mm diameter pile Stair foundation	190 2	no	1,000.00 5,000.00	190,000			
A 11.17	Elevator foundation	2	no	5,000.00	10,000			
A 11.18	Allowance for Miscellaneous Foundations	1	sum	25,000.00	25,000			
A 11.19	Area	2,649	m2					
A12	Basement Excavation	0	m3	0.00	0			
A 12.01	No works required							
A2	STRUCTURE				8,610,000			
A21	Lowest Floor Construction	2,649	m2	203.85	540,000			
A 21.01	Concrete slab on grade - 200mm thick	2,649	m2	200.00	529,800			
A 21.10	Allowance for slab thickening	1	sum	5,000.00	5,000			
A 21.11	Allowance for sump pits, housekeeping pads and the like	1	sum	5,000.00	5,000			

McMurray Metis Local 1935

Turner & Townsend

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McMurray Metis Cultural Centre

Section 8 - Building Works Cost Analysis								
	Estim	ate - McN	lurray	Metis Cultural Cent	tre			
Ref	Description	Qty	Unit	Rate	Total	Notes		
A22	Upper Floor Construction	3,260	m2	1,996.63	6,509,000			
22.01	Reinforced concrete upstand wall - 175mm x 1500m high Concrete - 30 Mpa Formwork Reinforcement	380 100 1,140 6,484	m m3 m2 kg	560.00 280.00 120.00 2.00	212,800			
22.02 22.03	Timber suspended floor Framing 16mm sheathing 89mm tonque and groove D-Fir decking	3,260 3,260	m2 m2	810.00	2,640,600	As per Beamcraft's budget pricing		
22.04	Glulam 315x912 D-Fir 24f-E glulam beams 315x342 D-Fir 16c-E glulam columns	3,260	m2	827.00	2,696,020	As per Beamcraft's budget pricing		
22.05	Back up wall - wood stud structural wall	4,539	m2	200.00	907,730			
22.06	Exit stair - assumed wood framed (1 no.)	2	flight	3,600.00	7,200			
22.07	Feature stair - assumed reinforced concrete (1 no.)	65	m	360.00	23,450			
22.08	Allowance for housekeeping pads	1	sum	5,000.00	5,000			
22.09	Allowance for miscellaneous metals	3,260	m2	5.00	16,300			
A23	Roof Construction	2,649	m2	589.28	1,561,000			
23.01	Greenhouse glazed roof	1,169	m2					
23.02	W610x82 beams	50,262	kg	6.25	314,140			
23.03	W410x60 columns	9,900	kg	6.25	61,880	Engineer's Brief		
23.04	HSS167 dia. x 6.4 columns	3,973	kg	6.25	24,830	Quantity as per measurements based on Engineer's Brief		
23.05	W200x22 purlins	6,742	kg	6.25	42,140	Quantity as per measurements based on Engineer's Brief		
23.06	HSS127x6.4 cross bracing	13,447	kg	6.25	84,040	Quantity as nor measurements based on		
23.07	Reinforced concrete roof (Accessibly roof over service area - part of floor of Amphitheatre)	211	m2	360.00	75,960			
23.08	Reinforced concrete roof (below Planted Ramp)	625	m2	360.00	225,000			
23.09	Reinforced concrete roof (below Exterior Stair area)	106	m2	360.00	38,160			
23.09	Extra over for sloping	731	m2	150.00	109,650			
23.10	Steel on wood support (Accessible roof over Circular Gathering Space)	231	m2	300.00	69,300			
23.11	Timber roof to Others	307	m2					
23.12 23.13	Framing Glulam - beams and columns	307 307	m2 m2	810.00 827.00		As per Beamcraft's budget pricing As per Beamcraft's budget pricing		
23.14	Allowance for miscellaneous metals	2,649	m2	5.00	13,250			
A3	EXTERIOR ENCLOSURE				17,304,000			
A31	Walls Below Grade	0	m2	0.00	0			
31.01	Not works required							
A32	Walls Above Grade	4,539	m2	1,157.40	5,253,000			
22.01	Swiss INSO Kromatix	2,872	m2	1,215.00	3,489,910	Supply rate as per architect's brief; installation as per Flynn's budget pricing		
32.01								

Class C	Cost Report		-	tis Local 1935 Cultural Centre	₩ Turner & Townsend						
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	Section 8 - Building Works Cost Analysis										
	Estimate - McMurray Metis Cultural Centre										
Ref	Description	Qty	Unit	Rate	Total	Notes					
A33	Windows & Entrances	801	m2	2,180.94	1,747,000						
A 33.01	Curtain wall - triple glazed onyx photovoltaic glass	310	m2	2,065.00	640,150	As per Flynn's budget pricing					
A 33.02	Curtain wall vertical to green roof - triple glazed onyx photovoltaic glass	360	m2	2,065.00	743,400	As per Flynn's budget pricing					
A 33.03	Punched window - triple glazed fibre glass	131	m2	1,777.00	232,840	As per Flynn's budget pricing					
A 33.04	Overhead door (4 nos.)	55	m2	600.00	33,000						
A 33.05	Insulated hollow metal door	8	no	2,200.00	17,600						
A 33.06	Glazed door	10	no	3,000.00	30,000						
A 33.07	Allowance for automatic door operator	10	no	5,000.00	50,000						
A34	Roof Covering	2,649	m2	1,141.56	3,024,000						
A 34.01	Greenhouse glazed roof - semi-translucent photovoltaics	1,169	m2	2,065.00	2,413,990	As per Flynn's budget pricing					
A 34.02	Accessible roof over service area (part floor of Amphitheatre) - insulation, protection board, membrane, paver stands and pavers.	211	m2	370.00	78,070						
A 34.03	Green roof (Planted Ramp) Insulation, protection board and TPO membrane	625	m2	240.00	150,000						
A 34.04	ZinCo sloped green roof - as per ZinCo's quote Nov 12, 2020	625	m2	280.00	175,000						
A 34.03	Exterior Stair (Level 3) area - see A35 Projections	106	m2								
A 34.05	Roof terrace paving (Accessible roof over Circular Gathering Space) - assumed	231	m2	360.00	83,160						
A 34.06	TPO to Others	307	m2	300.00	92,100						
A 34.02	Attic hatch - allowance	1	sum	5,000.00	5,000						

2,649

m2

10.00

26,490

A 34.07

Roof accessories

Revision: 1

McMurray Metis Local 1935 McMurray Metis Cultural Centre

Turner & Townsend

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Section 8 - Building Works Cost Analysis

	Estimate - McMurray Metis Cultural Centre								
Ref	Description	Qty	Unit	Rate	Total	Notes			
A35	Projections	5,909	m2	1,232.02	7,280,000				
A 35.01	Amphitheatre (Canopy Covered)								
A 35.02	Concrete slab on grade - 200mm thick	559	m2	200.00	111,800				
A 35.03	Reinforce concrete roof (below Amphitheatre) - part of, see A23 Roof Construction	211	m2						
A 35.03	Interior grade beam, 1000mm wide x 500mm deep	143	m	430.00	61,490				
	Piling and pile caps - see A11 Foundation								
A 35.04	Glazed canopy - conventional opaque PV's	770	m2	1,992.00		As per Flynn's budget pricing			
A 35.04	Structural steel - canopy	55,440	kg	6.25	346,500				
A 35.05	Sloped and stepped seating base slab and wall Floor finish - assumed grass as per Architect's picture sent	339	m	1,500.00	508,740				
A 35.06	December 10, 2020	447	m2	15.00	6,710				
	Amphitheatre (Uncovered)								
A 35.07	Floor finish - assumed CRUSHER DUST as perArchitect's picture sent December 10, 2020	536	m2	10.00	5,360				
	Covered Entry Plaza								
A 35.08	Concrete slab on grade - 200mm thick	656	m2	200.00	131,200				
A 35.09	Interior grade beam, 1000mm wide x 500mm deep	158	m	430.00	67,940				
	Piling and pile caps - see A11 Foundation								
A 35.10	Glazed canopy - conventional opaque PV's	656	m2	1,992.00		As per Flynn's budget pricing			
A 35.10 A 35.11	Structural steel - canopy Floor finish - radial unit paving	47,232 656	kg m2	6.25 200.00	295,200 131,200				
	Planted Ramp								
A 35.12	Concrete slab on grade - 200mm thick	206	m2	200.00	41,200				
A 35.12 A 35.13	Part of the floor - see A23 Roof Construction Interior grade beam, 1000mm wide x 500mm deep	625 142	m2 m	430.00	61,060				
	Piling and pile caps - see A11 Foundation								
A 35.14	Glazed canopy - semi-translucent PV's	831	m2	2,065.00	1,716,020	As per Flynn's budget pricing			
A 35.14	Structural steel - canopy	59,832	kg	6.25	373,950				
A 35.15	Floor finish - green roof, see A35 Roof Covering	625	m2						
	View Terrace								
A 35.16	Canopy - assume PUBLIC ART PIECE, by Client as per	231							
A 35.16	Architect's comments at meeting December 10, 2020	231	m2						
A 35.16	Structural steel - canopy	16,632	kg	6.25	103,950				
A 35.17	Glazed guardrail	20	m	1,500.00	30,000				
A 35.18	Floor finish - assumed paving, see A35 Roof Covering	231	m2						
	Exterior Stair								
A 35.19	Reinforced concrete stair	214	m	300.00	64,100				
A 35.20	Guardrail - assume metal	74	m	500.00	37,000				
	Exterior Feature Stair								
A 35.21	Reinforced concrete stair	115	m	500.00	57,570				
A 35.22	Handrail - assume metal	19	m	350.00	6,650				
A 35.23	Guardrail - assume metal	16	m	500.00	8,000				
	Water Feature								
A 35.24	Allowance for water feature - stepped and sloping	58	m2	3,000.00	174,000				
A 35.25	Allowance for exterior sun control devices	1	sum	100,000.00	100,000				
		1	1	1		1			

Class C Revisio	pn: 1	McMurray	Metis	tis Local 1935 : Cultural Centre Works Cost Analys	ic	Turner & Townsend Date: 17/12/2020			
Section 8 - Building Works Cost Analysis Estimate - McMurray Metis Cultural Centre									
Ref	Description	Qty	Unit	Rate	Total	Notes			
В	INTERIOR	·	•	-	5,418,000	-			
B1	PARTITIONS & DOORS				1,798,000				
B11	Partitions	3,184	m2	500.31	1,593,000				
B 11.01	Accordion folding partition (multi-use space) - assumed	46	m2	1,400.00	64,400				
B 11.02	Modernfold Structural support for the above	46	m2	200.00	9,200				
B 11.03	Demountable partitions	833	m2	780.00	649,740				
B 11.04	Glazed partitions	150	m2	1,200.00	180,000				
B 11.05	Partitions - wood framed wall	1,113	m2	180.00	200,340				
B 11.06	Shear wall - wood shear wall	378	m2	300.00	113,400				
B 11.07	Solid wall partitions - assumed masonry	618	m2	350.00	216,300				
B 11.08	Sliding partitions (to workshop and loading)	54	m2	500.00	27,060				
B 11.09 B 11.09 B 11.10	Rough carpentry Sealing and Caulking Furring and Boxing	1 1 1	sum sum sum	53,000.00 26,500.00 53,000.00	53,000 26,500 53,000				
Б 11.10		1	sum	53,000.00	55,000				
B12	Doors	91	no	2,252.75	205,000				
B 12.01	Hollow metal door	45	no	2,500.00	112,500				
B 12.02	Glazed door	14	no	3,000.00	42,000				
B 12.03	Glazed door - to demountable partitions, included in demountable partition cost	32	no						
B 12.04	Allowance for automatic door operator	10	no	5,000.00	50,000				
B2	FINISHES				1,950,000				
B21	Floor Finishes	4,949	m2	249.53	1,235,000				
	Note: No architectural drawings or specifications provided. Architect to confirm assumptions and allowances.								
B 21.01	Green roof (Indoor)								
B 21.02	Insulation, protection board, membrane, paver stands and pavers.	1,051	m2	370.00	388,870				
B 21.03	ZinCo pedestrian green roof - as per ZinCo's quote Nov 12, 2020	1,051	m2	100.00	105,100	Typo should be pedestrian green roof i.e. indoor			
B 21.04	Polished concrete - to Level 1	1,964	m2	90.00	176,780				
B 21.05	Access flooring - to Level 2	1,411	n2	200.00	282,220				
B 21.06	Engineered birch - to Level 2	1,411	n2	160.00	225,780				
			m2	200.00	45,400	1			
B 35.26 B 21.07	Porcelain floor tile - assumed to Kitchen and Washrooms Sealed concrete - assumed to M&E and Stairs	227 296	m2	35.00	10,360				

Class C Revisio			-	tis Local 1935 s Cultural Centre		Turner & Townsend
	Sect	ion 8 - Bu	ilding	Works Cost Analys	is	
	Estim	ate - McN	lurray	Metis Cultural Cen	tre	
Ref	Description	Qty	Unit	Rate	Total	Notes
B22	Ceiling Finishes	4,949	m2	51.12	253,000	
	Note: No architectural drawings or specifications provided. Architects to confirm assumptions and allowance.					
B 22.01	Suspended acoustic "cloud" ceiling - to Co-Working space area	555	m2	300.00	166,500	
B 22.02	Drywall ceiling, painted - assumed to Kitchen and Washrooms	227	m2	90.00	20,430	
B 22.03	Paint - assumed to M&E and Stairs	296	m2	20.00	5,920	
B 22.04	Exposed wood ceiling - assumed to Others	2,820	m2	0.00	0	
B 22.05	Exposed ceiling to Greenhouse	1,051	m2	0.00	0	
B 22.05	Allowance for bulkhead	1	sum	10,000.00	10,000	
B 22.06	Allowance for specialty ceilings	1	sum	50,000.00	50,000	
B23	Wall Finishes	8,757	m2	52.76	462,000	
	Note: No architectural drawings or specifications provided. Architect to confirm assumptions and allowances.					
B 23.01	Wood and natural finishes - to Museum	351	m2	375.00	131,700	
B 23.02	Porcelain wall tile - assumed to Kitchen and Washrooms	416	m2	170.00	70,720	
B 23.03	Paint - assumed to Others	7,989	m2	20.00	159,790	
B 23.04	Allowance for acoustic treatment	1	sum	50,000.00	50,000	
B 23.05	Allowance for colour wool felt	1	sum	50,000.00	50,000	
В3	FITTINGS & EQUIPMENT				1,670,000	
B31	Fittings & Fixtures	5,909	m2	231.00	1,365,000	
B 31.001	Metals					
B 31.01 B 31.02	Miscellaneous metals Handrail - to exit stair, assume metal	5,909 16	m2 m	10.00 300.00	59,090 4,800	
B 31.03 B 31.04	Guardrail - to exit stair, assume metal	10 24	m	350.00	3,500	
B 31.04 B 31.05	Guardrail - to feature stair, assume glass Guardrail - to mezzanine, assume glass	24	m m	1,300.00 1,300.00	31,200 37,700	
	Washroom accessories					
B 31.06 B 31.07	Washroom accessories Washroom accessories - accessible	32 5	no no	1,200.00 1,800.00	38,400 9,000	
B 31.08	Toilet compartments	32	no	500.00	16,000	
	Millwork Multipurpose rooms (2 nos.) Countertop - assumed with high and low cabinets - refer Executive Summary					
B 31.09 B 31.10	Reception Reception desk Countertop - assumed with high and low cabinets	4 9	m m	3,100.00 1,900.00	12,400 17,100	
	Amphitheatre					
B 31.11	Allowance for stadium and arena bench seating - 500 seats <u>Resource Centre</u> Countertop - assumed with high and low cabinets - refer	500	no	1,300.00	650,000	
	Executive Summary <u>Theatre</u> Allowance for theatre seating - assume 62 seats - refer Executive Summary					

Ref	Description	Qty	Unit	Rate	Total	Notes
Kei		Qty	Offic	Kale	Total	Notes
B 31.12	Museum Allowance for millwork	1	sum	20,000.00	20,000	
B 31.13	Art Gallery Allowance for millwork	1	sum	10,000.00	10,000	
B 31.14	Wood Shop Allowance for millwork	1	sum	5,000.00	5,000	
B 31.15	Boardrooms (2 nos.) Allowance for millwork	1	sum	10,000.00	10,000	
	Lables					
B 31.16	Lobby	4	m	3,000.00	18,000	
B 31.18 B 31.17	Reception desk Countertop - assumed with high and low cabinets	6 6	m	1,800.00	10,800	
	Co-Working Space (2 nos.)					
B 31.12	Co-Working booth	13	no	2,000.00	26,000	
B 31.12 B 31.18	Worktop - plam	13	m	1,100.00	11,000	
	Atrium - Level 2					
B 31.19	Guardrail - to atrium, assume planters integrated into guards as per Architect's comments at meeting December 10, 2020	33	m	2,500.00	82,500	
	Advise Louis 2 (Grandhaura Daldar)					
B 31.20	<u>Atrium - Level 3 (Greenhouse Bridge)</u> Guardrail - to atrium, assume glass	33	m	1,300.00	42,900	
B 31.20	Guardian - to atrium, assume grass	33		1,300.00	42,700	
	Office Kitchen					
B 31.20	Countertop - assumed solid surface	31	m	1,300.00	40,300	
B 31.21	Countertop - assumed with high and low cabinets	22	m	1,800.00	39,600	
	Specialties - allowances for					
B 31.22	Visual display units	1	sum	10,000.00	10,000	
B 31.23	Display cases	1	sum	10,000.00	10,000	
B 31.24	Signage	1	sum	10,000.00	10,000	
B 31.25	Safety specialties	1	sum	10,000.00	10,000	
B 31.25 B 31.26	Storage assemblies	1	sum	10,000.00	10,000	
	Furnishings					
B 31.27	Window treatments - allowance for blinds, assume manual	801	m2	150.00	120,150	
	Office accessories - FF&E					
	Rugs and mats - FF&E					
	Office furniture - FF&E					
	Seating - FF&E					
	Institutional furniture - FF&E					
	Interior planters - FF&E					
B32	Equipment	5,909	m2	0.00	0	
	Refer Executive Summary - Furniture, Furnishings and Equipment					
B33	Conveying Systems	7	stp	43,571.43	305,000	
B 33.01	Passenger elevator (1 no.)	4	stp	50,000.00	200,000	
B 33.02	Hydraulic freight elevator (1 no.)	3	stp	35,000.00	105,000	

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McMurray Metis Local 1935 McMurray Metis Cultural Centre

Section 8 - Building Works Cost Analysis

Turner & Townsend

Date: 17/12/2020

Class C Revisio	: Cost Report n: 1		-	tis Local 1935 Cultural Centre		Turner & Townsend			
Section 8 - Building Works Cost Analysis Estimate - McMurray Metis Cultural Centre									
Ref	Notes								
с	SERVICES				8,977,000				
C1	MECHANICAL				5,812,000				
C11	Plumbing & Drainage	5,909	m2	125.91	744,000				
C 11.01 C 11.02 C 11.03 C 11.04 C 11.05 C 11.06 C 11.07 C 11.09 C 11.00 C 11.10 C 11.11 C 11.12 C 11.12 C 11.13 C 11.14 C 11.15 C 11.16 C 11.17 C 11.18 C 11.18 C 11.19 C 11.20 C 11.21 C 11.22 C 11.23 C 11.24 C 11.25 C 11.27	Plumbing Equipment water meter and backflow preventor Domestic Hot Water Heat Pump - see HVAC Domestic Hot Water tanks 30kW back-up domestic hot water heater - Allowance Grease interceptor DHW recirculation pump domestic hot water expansion tank storm sump pumps, duplex sanitary sump pumps, duplex sanitary sump pumps, duplex domestic hot water cistern (Subtotal Plumbing Equipment \$184,500) Piping, Valves & Accessories DCW, domestic hot water DHW, domestic hot water DHW, domestic hot water DHWR, domestic hot water recirculation Sanitary drain and vent Storm Piping (Subtotal Piping, Valves & Accessories \$253,000) Plumbing Fixture Water closet - tank type dual flush Lavatory - wall hung Kitchen Sink Multi-Use Sink, double compartment Miscellaneous sinks janitor sink Floor drains/Area drains	1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	sum no no no no sum sum sum sum m m m m m m m no no no no no no no no no no no no no	10,000.00 10,000.00 12,000.00 2,500.00 12,000.00 3,500.00 8,500.00 8,500.00 60,000.00 78.00 78.00 78.00 78.00 75.00 88.00 95.00 1,500.00 1,300.00 1,300.00 1,200.00 80.00 1,400.00 400.00	10,000 0 20,000 15,000 2,500 3,500 8,500 60,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 57,000 57,000 55,500 48,100 2,200 4,800 1,600				
C 11.28 C 11.29	Rough-in Kitchens Irrigation to Green Roof (Subtotal Plumbing Fixture \$176,600)	1 1	sum sum	15,000.00 30,000.00	15,000 30,000				
C 11.30 C 11.31	Miscellaneous Testing, balancing & commissioning Location Factor (Subtotal Miscellaneous \$190,300)	1 1	sum sum	6,100.00 124,040.00	6,100 124,040				
C12	Fire Protection	5,909	m2	72.94	431,000				
C 12.01 C 12.02	Piping and Sprinkler Heads Fire sprinkler system Fire pump and jockey pump - not required (Subtotal Piping and Sprinkler Heads \$407,600)	5,909	m²	65.00	384,090				
C 12.03	Standpipe standpipe system (Subtotal Standpipe \$45,900) Miscellaneous kitchen fire suppression system - by kitchen supplier (Subtotal Miscellaneous \$0)	5,909	m²	8.00	47,270				

Class C Cost Repor	t
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Turner & Townsend

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McMurray Metis Cultural Centre Section 8 - Building Works Cost Analysis

Estimate - McMurray Metis Cultural Centre						
Ref	Description	Qty	Unit	Rate	Total	Notes
013	HVAC	5,909	m2	714.67	4,223,000	
3.01	Air Handling Equipment					
13.02	HRV-1 East Wing DOAS - 5300 cfm, glycol heating, Heat Recovery Ventilator	1	no	69,000.00	69,000	
13.03	- HRV-2 West Wing DOAS - 5300 cfm, glycol heating, Heat Recovery Ventilator	1	no	69,000.00	69,000	
13.04	HRV-3 Central Gathering DOAS - 2120 cfm, glycol heating, Heat Recovery Ventilator	1	no	28,000.00	28,000	
13.05	HRV-4 Theatre DOAS - 1500 cfm, glycol heating, Heat Recovery Ventilator	1	no	20,000.00	20,000	
13.06	MAU-1 Kitchen - 5,300 cfm, glycol heating, filtration, and supply	1	no	27,000.00	27,000	
13.07	fan EF-1 Kitchen Exhaust, 2500 cfm	1	no	4,000.00	4,000	
13.08	Miscellaneous exhaust fans	4	no	750.00	3,000	
13.09	Split system Fan Coil Units, 10 tons	2	no	18,000.00	36,000	
13.10	mechanical and electrical rooms ventilation (Subtotal Air Handling Equipment \$263,500)	1	sum	7,500.00	7,500	
	Geothermal System ground source system includes piping, well boring, headers, etc.					
13.11	- 50 boreholes @ 100m	1	ls	488,000.00	488,000	
13.12	water-to water heat pumps	8	no	60,000.00	480,000	
13.13	expansion tank - building heating & cooling	2	no	5,000.00	10,000	
13.14 13.15	building heating/cooling pumps, VFD startup / balancing	4 1	no Is	16,000.00 25,000.00	64,000 25,000	
13.16	miscellaneous components (Subtotal Geothermal System \$1,087,000)	1	ls	20,000.00	20,000	
	Heating Plant					
13.17	Biomass Boiler - 100 kW, 340 MBH	1	no	32,000.00	32,000	
13.18 13.19	glycol heat exchanger	1 1	no	20,000.00 12,500.00	20,000 12,500	
	glycol circulating pump,tank,etc chemical treatment, expansion tanks, air separator, glycol make		no			
13.20	up	1	sum	18,000.00	18,000	
13.21	Secondary distribution pumps	4	no	12,000.00	48,000	
13.22	Miscellaneous allowance (Subtotal Heating Plant \$150,500)	1	sum	20,000.00	20,000	
13.23	Miscellaneous Testing, balancing and commissioning	1	sum	34,400.00	34,400	
13.24	CO2 Sensors	1	sum	15,000.00	15,000	
13.25	metering allowance (Subtotal Miscellaneous \$82,400)	1	sum	30,000.00	30,000	
13.26	Piping, Valves & Accessories	200		400.00	80.000	
13.26	glycol supply and return to AHU units chilled water supply and return to FCUs	200 900	m m	400.00 110.00	80,000 99,000	
13.27	hot water supply and return to FCUs	900	m	110.00	99,000	
13.29	hot water supply and return to radiant floor manifolds and	600	m	95.00	57,000	
13.27	miscellaneous heating devices					
13.30 13.31	Connection to HRV Connection to Boiler	4	no no	1,500.00 1,500.00	6,000 1,500	
13.31	Connection to pumps	9	no	1,500.00	13,500	
13.33	Connection to Heat Pump Units (Subtotal Piping, Valves & Accessories \$376,000)	8	no	2,500.00	20,000	
10.0	Ductwork and Air Distribution					
13.34	Galvanized steel ductwork	38,000	kg	25.00	950,000	
13.35 13.36	VAV box terminal units diffusers, registers, grilles	10 400	no no	1,050.00 200.00	10,500 80,000	
13.36	silencers, allowance	400	no	3,500.00	28,000	
/	(Subtotal Ductwork and Air Distribution \$1,368,500)	2		6,000.00	20,000	
12.20	Heating/Cooling Devices	0		1 750 00	14.000	
13.38	Unit Heaters / Forceflow heaters	8	no	1,750.00	14,000	
13.39 13.40	Fan Coil Units - 4 pipe radiant floor heating/cooling	30 3,000	no m2	3,500.00 125.00	105,000 375,000	
40	radiant noor nearing/cooling radiant panels - assume not required	3,000	1112	125.00	373,000	
13.41	Location Factor	1	sum	703,780.00	703,780	

Class (Revisio			-	tis Local 1935 s Cultural Centre		Turner & Townsend		
Section 8 - Building Works Cost Analysis								
5.6				Metis Cultural Cen				
Ref	Description	Qty	Unit	Rate	Total	Notes		
C14	Controls	5,909	m2	70.06	414,000			
C 14.01 C 14.02	DDC System Integrated controls and devices - BMS (Subtotal DDC System \$413,600)	5,909	m²	70.00	413,630			
C2	ELECTRICAL				3,165,000			
C21	Service & Distribution	5,909	m2	173.80	1,027,000			
C 21.01 C 21.02 C 21.03 C 21.04 C 21.05 C 21.06 C 21.07 C 21.08 C 21.09	Normal Power SWBD 800A 347/600V 3P 4W main switchboard c/w main & feeder breakers, DMS Meter cabinet c/w empty conduit Hoisting and placing Concrete base 4 cell concrete encased duct bank Cabling Grounding - allowance Digital Metering (Subtotal Normal Power \$116,500)	1 1 1 1 1 1 1	no sum sum sum sum sum sum	65,000.00 1,500.00 2,500.00 5,000.00 16,000.00 15,000.00 10,000.00	65,000 1,500 2,500 1,500 5,000 16,000 15,000 10,000			
C 21.10	Emergency Power Reported to not be required (Subtotal Emergency Power \$0)	1	no		0			
C 21.11 C 21.12 C 21.13 C 21.14 C 21.15 C 21.16 C 21.17 C 21.18	Distribution Normal Power 600A 347/600V 3P 3W distribution panel Transformer 112.5kva 600V 120/208V 120/208V 3P 4W distribution panel 100A 120/208V 3P 4W Distribution panel 200A 120/208V 3P 4W Distribution panel Feeders allowance Disconnect for PV Miscellaneous (Subtotal Distribution \$227,100)	4 4 1 1 2 1	no no no no sum no sum	22,200.00 5,210.00 9,160.00 2,250.00 3,500.00 50,000.00 5,060.00 15,000.00	88,800 20,840 36,640 2,250 3,500 50,000 10,120 15,000			
C 21.19	Solar Photovoltaic Allowance for 105 kW Solar PV system, 1300m2 - PV Infrastructure (Subtotal Solar Photovoltaic \$360,000)	1	sum	360,000.00	360,000			
C 21.20	Motor controls and wiring Allowance for power connections to mechanical equipment, c/w line, load side wiring and disconnect switches (Subtotal Motor controls and wiring \$74,500)	5,909	m²	13.00	76,820			
C 21.21 C 21.22 C 21.23 C 21.24	Miscellaneous Metering system Testing & commissioning Permits, inspections and job setup Location Factor (Subtotal Miscellaneous \$330,900)	1 1 1	no sum sum sum	35,000.00 16,000.00 24,000.00 171,094.00	35,000 16,000 24,000 171,090			
C22	Lighting, Devices & Heating	5,909	m2	204.43	1,208,000			
C 22.01 C 22.02 C 22.03 C 22.04 C 22.05	Lighting Allowance for lighting - premium architectural light fixture Allowance for lighting - LED fixtures Allowance for centralized LV lighting control system Allowance for exit signs (Subtotal Lighting \$805,800)	400 5,509 5,909 5,909	m² m² m² m²	190.00 110.00 20.00 5.00	76,000 605,990 118,180 29,550			
C 22.06	Branch Devices Allowance for branch devices (Subtotal Branch Devices \$172,000)	5,909	m²	30.00	177,270			
C 22.07	Location Factor	1	sum	201,398.00	201,400			

Class	С	Cost	Report

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McMurray Metis Cultural Centre

	Sect	ion 8 - Bu	iilding	Works Cost Analys	sis	
	Estim	ate - McN	lurray	Metis Cultural Cen	tre	
Ref	Description	Qty	Unit	Rate	Total	Notes
C23	Systems & Ancillaries	5,909	m2	157.39	930,000	
C 23.01 C 23.02	Fire alarm Allowance for FA - single stage (Subtotal Fire alarm \$126,100)		m²	22.00	130,000	
C 23.03	Security Allowance for devices, sensors/detectors, CCTV cameras, conduit, wiring (Subtotal Security \$143,000)	5,909	m²	25.00	147,730	
C 23.04 C 23.05 C 23.06 C 23.07	Communications Allowance for voice/data empty conduit outlets Allowance for cat6A cabling for above Allowance for cable tray Allowance for backbone cabling, racks and riser conduit (Subtotal Communications \$254,000)	5,909 5,909 1 5,909	m² m² sum m²	10.00 20.00 25,000.00 10.00	59,090 118,180 25,000 59,090	
C 23.08	AV system A/V Equipment, Devices, Installation & Wiring - By others Allowance for empty conduit	5,909	m²	20.00	118,180	
C 23.09	Allowance for power connections to AV devices and equipment	5,909	m²	5.00	29,550	
C 23.10	(Subtotal AV system \$144,000) Sound System Allowance for Theatre sound system (Subtotal Sound System \$50,000) Miscellaneous	1	sum	50,000.00	50,000	
C 23.11 C 23.12	Testing & commissioning Miscellaneous	1 1	sum sum	13,000.00 25,000.00	13,000 25,000	
C 23.13	Location Factor (Subtotal Miscellaneous \$264,500)	1	sum	154,964.00	154,960	
D	SITE & ANCILLARY WORK				0	
D1	SITE WORK - See Site Cost Plan				0	
D2	ANCILLARY WORK				0	
D21	Demolition	0	m2	0.00	0	
D 21.01	No Work Required					
D22	Alterations	0	m2	0.00	0	
D 22.01	No Work Required					
	SUB-TOTAL: NET BUILDING WORKS				42,789,000	
Z1	GENERAL REQUIREMENTS & FEE				5,691,000	
Z11	General Requirements				4,279,000	
Z 11.01	Contractors General Requirements	10.0	%	42,789,000.00	4,279,000	
Z12	Fee				1,412,000	
Z 12.01	Contractors Fee	3.0	%	47,068,000.00	1,412,000	
	•	•				

	McMurray Metis Local 1935 Image: Class C Cost Report Class C Cost Report McMurray Metis Cultural Centre Revision: 1 Section 8 - Building Works Cost Analysis Estimate - McMurray Metis Cultural Centre										
Ref	Description	Total	Notes								
	TOTAL: BUILDING WORKS ESTIMATE	48,480,000									
Z2	ALLOWANCES				8,533,000						
Z21	Design Allowance				5,818,000						
Z 21.01	Design Contingency	12.0	%	48,480,000.00	5,818,000						
Z22	Escalation Allowance				0						
Z 22.01	Escalation allowance	0.0	%	54,298,000.00	0						
Z23	Construction Allowance				2,715,000						
Z 23.01	Construction Contingency	5.0	%	54,298,000.00	2,715,000						
	TOTAL CONSTRUCTION COST (including allow	ances)			57,013,000						
GST	GST Assessment	5%	%	57,013,000.00	2,850,700						
	Estimated Overall Construction Cost	·			59,864,000						

Turner & Townsend

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McMurray Metis Cultural Centre

Date: 17/12/2020

	Section	n 9 - Site V	Vorks Ele	ment	al Summary				
	МсМи	urray Metis	Cultural C	entre	Site Works				
Ref	Element	Ratio To GFA	Elemen Quanti		Elemental Unit Rate	Total	Cost / m2	Cost / ft2	Cost Ratio
D	Site & Ancillary Work					\$3,486,000	\$112	\$10	71%
D1 D11 D12	Site Work Site Development Mechanical Site Services	0.96 0.96	30,061 30,061	m² m²	\$75 \$21	\$3,486,000 \$2,269,000 \$631,000	\$112 \$73 \$20	\$10 \$7 \$2	71% 47% 13%
D13	Electrical Site Services SUB-TOTAL: NET SITE WORKS	0.96	30,061	m²	\$19	\$586,000 \$3,486,000	\$19 \$11 2	\$2 \$10	12% 71%
Z	General Requirements & Allowances								
Z1 Z11 Z12	General Requirements & Fee General Requirements Fee			10.0 3.0		\$464,000 \$349,000 \$115,000	\$15 \$11 \$4	\$1 \$1 \$0	10% 7% 2%
	TOTAL: SITE WORKS ESTIMATE					\$3,950,000	\$127	\$12	81%
Z2 Z21 Z22 Z23	Allowances Design Allowance Escalation Allowance			12.0 0.0 5.0	%	\$695,000 \$474,000 \$0 \$221,000	\$22 \$15 \$0 \$7	\$2 \$1 \$0 \$1	14% 10% 0% 5%
223	Construction Contingency TOTAL SITE WORKS COST			5.0	70	\$221,000	\$149	\$14	95%
GST	GST Assessment		5.0%			\$232,300	\$0	\$0	0%
	TOTAL SITE WORKS COST INC TAX	•				\$4,877,000	\$157	\$15	100%
	Gross Site Area								
	GSA (m2):	31,16	2 m²						
		225.4							

Class C Revisio	n: 1	McMurray	Metis	tis Local 1935 s Cultural Centre Vorks Cost Analysis		Date: 17/12/2020
				Metis Cultural Cen		
Ref	Description					
D	SITE & ANCILLARY WORK				3,486,000	
D1	SITE WORK	-			3,486,000	
D11	Site Development	30,061	m2	75.48	2,269,000	
D 11.01 D 11.02 D 11.03 D 11.04	Site area Building footprint Existing boreal forest Clear and grub site	31,162 2,649 1,111 30,051	m2 m2 m2 m2	2.00	60,100	
D 11.04 D 11.05	Rough and fine grading	30,051	m2	4.00	120,200	
D 11.06 D 11.07	Excavate to remove clay - building footprint, 2.5m deep Engineered fill	7,810 7,810	m3 m3	30.00 40.00	234,300 312,400	as per Engineer's Brief
D 11.08	Adventure play - assume MULCH as per Architect's comments at meeting December 10, 2020	129	m2	15.00	1,940	
D 11.09 D 11.10	Fabricated bridges Kids play - assume MULCH as per Architect's comments at	106 355	m2 m2	500.00 15.00	53,230 5,330	
D 11.11	meeting December 10, 2020 Medicinal garden w/ small outdoor classroom - assume CRUSHER DUST PATHWAY as per Architect's comments at meeting December 10, 2020	234	m2	10.00	2,340	
D 11.12	Outdoor classroom - assume MULCH as per Architect's comments at meeting December 10, 2020	102	m2	15.00	1,540	
D 11.13	Outdoor classroom - allowance for WOOD STUMPS as per Architect's comments at meeting December 10, 2020	10	no	200.00	2,000	
D 11.13	Wood Working - GRAVEL as per architect's notes December 14, 2020	654	m2	30.00	19,620	
D 11.13	Outdoor Kitchen, Medicinal Garden pathway - MULCH as per architect's notes December 14, 2020	1,235	m2	15.00	18,530	
D 11.14	Pond - CHANGE TO REFLECTING POOL AND WETLANDS AND REDUCE BY \$100K as per Architect's comments at meeting December 10, 2020	1,797	m2	250.00	449,290	
D 11.15 D 11.16	Radial unit paving Ramp	1,125 71	m2 m2	200.00 300.00	225,000 21,320	
D 11.17	Road and pathway - CRUSHER DUST as per architect's notes December 14, 2020	5,458	m2	15.00	81,880	
D 11.18 D 11.19	Rock pavement Crushed stone surfacing	472 83	m2 m2	150.00 180.00	70,760 14,900	
D 11.20	Curb	2,296	m	80.00	183,660	
D 11.21	Manufactured metal bollards	22	no	300.00	6,600	
D 11.22 D 11.23	MMCC sign - allowance Outdoor kitchen - allowance	1 1	sum sum	5,000.00	5,000 10,000	
	Trapper's Cabin - OMIT, CLIENT SUPPLIED as per Client's comments at meeting December 10, 2020					
D 11.24	Benches - REDUCE COST BY HALF many benches will be made on-site in the wood shop, as per Architect's comments December 14, 2020	45	m	1,000.00	45,440	
D 11.25	Outdoor Washroom Block	45	m2	500.00	22,440	
D 11.26	Sweat lodge - OMIT, CLIENT SUPPLIED as per Client's comments at meeting December 10, 2020 Wood working accorp. w/ washcoom (2 pos.)	44	m2	300.00	13,150	
D 11.27 D 11.28	Wood working area - canopy w/ washroom (2 nos.) Steps - at pond	164 57	m2 m	150.00	24,640 28,300	
D 11.29	Trees - CLIENT SUPPLIED as per Client's comments at meeting	800	no		,000	
D 11.29	December 10, 2020 Shrubs - CLIENT SUPPLIED as per Client's comments at meeting	2,950	no			
D 11.30	December 10, 2020 Planting - OMIT, CLIENT SUPPLIED as per Client's comments at meeting December 10, 2020	15,326	m2			
D 11.32	Allowances for: - Wood fences	1	sum	30,000.00	30.000	As per Architect's Brief
D 11.33	Wood gates	1	sum	5,000.00	5,000	As per Architect's Brief
D 11.34 D 11.35	Retaining walls Planting accessories	1	sum sum	50,000.00 100,000.00		As per Architect's Brief As per Architect's Brief
D 11.36	Erosion and sediment control	1	sum	50,000.00		As per Architect's Brief

McMurray Metis Local 1935

Turner & Townsend

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McMurray Metis Cultural Centre

Section 10 - S	Site Works	Cost Analysis
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	Estimate - McMurray Metis Cultural Centre									
Ref	Description	Qty	Unit	Rate	Total	Notes				
D12	Mechanical Site Services	30,061	m2	20.99	631,000					
D 12.01	Storm Service									
D 10 00	Piping	50		400.00	20,000					
D 12.02 D 12.03	375mm dia Manhole, 1500mm dia	50 1	m no	400.00 8,000.00	20,000 8,000					
D 12.04	Control Manhole	1	no	30,000.00	30,000					
D 12.05	concrete headwall to pond	1	no	5,000.00	5,000					
D 12.06	pond outlet	1	no	5,000.00	5,000					
	(Subtotal Storm Service \$68,000)									
5 40 07	Sanitary Service	50			4.000					
D 12.07 D 12.08	piping, 200mm dia. Manhole, 1200mm dia	50 2	m no	280.00 6,500.00	14,000 13,000					
D 12.08	Connect to existing Manhole	1	sum	7,500.00	7,500					
5 12.07	(Subtotal Sanitary Service \$34,500)		Sum	7,000.00	,,000					
	Water Service									
D 12.10	piping, domestic water, 150mm PVC	50	m	220.00	11,000					
D 12.11	connect to existing piping on site	1	sum	7,500.00	7,500					
	(Subtotal Water Service \$18,500)									
D 12.12	Miscellaneous Allowance for glycol heating to entrances			150,000,00	150.000					
D 12.12 D 12.13	irrigation - allowance	1	sum sum	150,000.00 50,000.00	50,000					
D 12.14	Earth Tubes 1500mm dia. Precast concrete	100	m	1,300.00	130,000					
D 12.15	Excavation and backfill	1,000	m3	75.00	75,000					
D 12.16	Location Factor	1	sum	105,200.00	105,200					
	(Subtotal Miscellaneous \$562,800)									
D13	Electrical Site Services	30,061	m2	19.49	586,000					
D 13.01	Power Distribution									
D 13.02	Hydro charges - allowance	1	sum	50,000.00	50,000					
D 13.03	Primary 800kVA pad mounted transformer	1	sum	75,000.00	75,000					
D 13.04	UG concrete encased ductbank				19,600					
D 13.05		40	m	490.00	19,600					
D 13 04	Cabling	640	m	60.00	38,400					
D 13.06	Excavation and backfilling									
5 13.00		640	m	60.00	38,400					
	Excavation and backfilling	640 140	m m3	60.00 30.00	38,400 4,200					
D 13.07	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others	640 140 1	m m3 sum	60.00 30.00 0.00	38,400 4,200 0					
D 13.07 D 13.08	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others UG concrete encased ductbank c/w pull string	640 140 1 40	m m3 sum m	60.00 30.00 0.00 390.00	38,400 4,200 0 15,600					
D 13.07	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others	640 140 1	m m3 sum	60.00 30.00 0.00	38,400 4,200 0					
D 13.07 D 13.08	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others UG concrete encased ductbank c/w pull string Excavation and backfilling	640 140 1 40	m m3 sum m	60.00 30.00 0.00 390.00	38,400 4,200 0 15,600					
D 13.07 D 13.08	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others UG concrete encased ductbank c/w pull string Excavation and backfilling (Subtotal Communications \$19,800)	640 140 1 40	m m3 sum m	60.00 30.00 0.00 390.00	38,400 4,200 0 15,600 4,200 8,000					
D 13.07 D 13.08 D 13.09 D 13.10 D 13.11	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others UG concrete encased ductbank c/w pull string Excavation and backfilling (Subtotal Communications \$19,800) Site Lighting & Power : allowance LED exterior light fixture - allowance Exterior wall mounted LED light - allowance	640 140 1 40 140 5 30	m m3 sum m3 no no	60.00 30.00 390.00 390.00 30.00 1,600.00 800.00	38,400 4,200 0 15,600 4,200 8,000 24,000					
D 13.07 D 13.08 D 13.09 D 13.10 D 13.11 D 13.12	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others UG concrete encased ductbank c/w pull string Excavation and backfilling (Subtotal Communications \$19,800) Site Lighting & Power : allowance LED exterior light fixture - allowance Exterior pole mounted LED light - allowance Exterior pole mounted light fixtures c/w poles	640 140 1 40 140 140 5 30 10	m m3 sum m m3 no no no	60.00 30.00 390.00 30.00 1,600.00 800.00 3,700.00	38,400 4,200 0 15,600 4,200 8,000 24,000 37,000					
D 13.07 D 13.08 D 13.09 D 13.10 D 13.11 D 13.12 D 13.13	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others UG concrete encased ductbank c/w pull string Excavation and backfilling (Subtotal Communications \$19,800) Site Lighting & Power : allowance LED exterior light fixture - allowance Exterior wall mounted LED light - allowance Exterior pole mounted light fixtures c/w poles Concrete base	640 140 1 40 140 140 5 30 10 15	m m3 sum m m3 no no no no	60.00 30.00 390.00 30.00 30.00 1,600.00 800.00 3,700.00 450.00	38,400 4,200 0 15,600 4,200 24,000 37,000 6,750					
D 13.07 D 13.08 D 13.09 D 13.10 D 13.11 D 13.12 D 13.13 D 13.14	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others UG concrete encased ductbank c/w pull string Excavation and backfilling (Subtotal Communications \$19,800) Site Lighting & Power : allowance LED exterior light fixture - allowance Exterior wall mounted LED light - allowance Exterior wall mounted LED light - allowance Exterior base Fixture lamps & wiring	640 140 1 40 140 140 5 30 10	m m3 sum m m3 no no no	60.00 30.00 390.00 390.00 30.00 800.00 3,700.00 450.00 450.00	38,400 4,200 0 15,600 4,200 24,000 37,000 6,750 20,250					
D 13.07 D 13.08 D 13.09 D 13.10 D 13.11 D 13.12 D 13.13	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others UG concrete encased ductbank c/w pull string Excavation and backfilling (Subtotal Communications \$19,800) Site Lighting & Power : allowance LED exterior light fixture - allowance Exterior wall mounted LED light - allowance Exterior pole mounted light fixtures c/w poles Concrete base	640 140 1 40 140 140 5 30 10 15	m m3 sum m m3 no no no no no no	60.00 30.00 390.00 30.00 30.00 1,600.00 800.00 3,700.00 450.00	38,400 4,200 0 15,600 4,200 24,000 37,000 6,750					
D 13.07 D 13.08 D 13.09 D 13.10 D 13.11 D 13.12 D 13.13 D 13.14 D 13.15	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others UG concrete encased ductbank c/w pull string Excavation and backfilling (Subtotal Communications \$19,800) Site Lighting & Power : allowance LED exterior light fixture - allowance Exterior vall mounted LED light - allowance Exterior pole mounted light fixtures c/w poles Concrete base Fixture lamps & wiring Exterior lighting controls - allowance	640 140 1 40 140 140 5 30 10 15 45 1	m m3 sum m m3 no no no no sum	60.00 30.00 390.00 390.00 30.00 1,600.00 800.00 3,700.00 450.00 450.00 15,000.00	38,400 4,200 0 15,600 4,200 24,000 37,000 6,750 20,250 15,000					
D 13.07 D 13.08 D 13.09 D 13.10 D 13.11 D 13.12 D 13.14 D 13.15 D 13.16	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others UG concrete encased ductbank c/w pull string Excavation and backfilling (Subtotal Communications \$19,800) Site Lighting & Power : allowance LED exterior light fixture - allowance Exterior wall mounted LED light - allowance Exterior vall mounted LED light - allowance Exterior pole mounted LED light - allowance Exterior pole mounted light fixtures c/w poles Concrete base Fixture lamps & wiring Exterior lighting controls - allowance Allowance for Amphitheatre (Subtotal Site Lighting & Power : allowance \$161,100)	640 140 1 40 140 140 5 30 10 15 45 1 1 1	m m3 sum m m3 no no no no sum sum	60.00 30.00 390.00 390.00 30.00 1,600.00 800.00 3,700.00 450.00 450.00 15,000.00 50,000.00	38,400 4,200 0 15,600 4,200 37,000 6,750 20,250 15,000 50,000					
D 13.07 D 13.08 D 13.09 D 13.10 D 13.11 D 13.12 D 13.13 D 13.14 D 13.15 D 13.16 D 13.17	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others UG concrete encased ductbank c/w pull string Excavation and backfilling (Subtotal Communications \$19,800) Site Lighting & Power : allowance LED exterior light fixture - allowance Exterior pole mounted LED light - allowance Exterior pole mounted LED light - allowance Exterior pole mounted LIGH of the fixtures c/w poles Concrete base Fixture lamps & wiring Exterior lighting controls - allowance Allowance for Amphitheatre (Subtotal Site Lighting & Power : allowance \$161,100) Miscellaneous Amphitheatre sound system	640 140 1 40 140 140 5 300 10 15 45 1 1 1 1	m m3 sum m m3 no no no no no sum sum	60.00 30.00 390.00 390.00 30.00 1,600.00 800.00 3,700.00 450.00 450.00 15,000.00 50,000.00	38,400 4,200 0 15,600 4,200 37,000 6,750 20,250 15,000 50,000					
D 13.07 D 13.08 D 13.09 D 13.10 D 13.11 D 13.12 D 13.13 D 13.14 D 13.15 D 13.16 D 13.17 D 13.17 D 13.18	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others UG concrete encased ductbank c/w pull string Excavation and backfilling (Subtotal Communications \$19,800) Site Lighting & Power : allowance LED exterior light fixture - allowance Exterior wall mounted LED light - allowance Exterior wall mounted LED light - allowance Exterior pole mounted light fixtures c/w poles Concrete base Fixture lamps & wiring Exterior lighting controls - allowance Allowance for Amphitheatre (Subtotal Site Lighting & Power : allowance \$161,100) Miscellaneous Amphitheatre sound system Site security rough in	640 140 1 40 140 140 5 300 10 15 45 1 1 1 1 1	m m3 sum m m3 no no no no sum sum sum	60.00 30.00 390.00 300.00 3.00 3.00.00 4.50.00 4.50.00 15,000.00 50,000.00 50,000.00 20,000.00	38,400 4,200 0 15,600 4,200 37,000 6,750 20,250 15,000 50,000 50,000					
D 13.07 D 13.08 D 13.09 D 13.10 D 13.11 D 13.12 D 13.14 D 13.15 D 13.14 D 13.15 D 13.16 D 13.17 D 13.18 D 13.19	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others UG concrete encased ductbank c/w pull string Excavation and backfilling (Subtotal Communications \$19,800) Site Lighting & Power : allowance LED exterior light fixture - allowance Exterior wall mounted LED light - allowance Exterior wall mounted LED light - allowance Exterior base Fixture lamps & wiring Exterior lighting controls - allowance Allowance for Amphitheatre (Subtotal Site Lighting & Power : allowance \$161,100) Miscellaneous Amphitheatre sound system Site security rough in Miscellaneous electrical site work	640 140 1 40 140 5 30 10 15 45 1 1 1 1 1 1 1 1 1	m m3 sum m m3 no no no no sum sum sum	60.00 30.00 0.00 390.00 30.00 1,600.00 800.00 3,700.00 450.00 15,000.00 50,000.00 50,000.00 50,000.00 50,000.00	38,400 4,200 0 15,600 4,200 37,000 6,750 20,250 15,000 50,000 50,000 50,000					
D 13.07 D 13.08 D 13.09 D 13.10 D 13.11 D 13.12 D 13.13 D 13.14 D 13.15 D 13.16 D 13.17 D 13.17 D 13.18	Excavation and backfilling (Subtotal Power Distribution \$187,200) Communications Incoming communication cabling and services connections - by others UG concrete encased ductbank c/w pull string Excavation and backfilling (Subtotal Communications \$19,800) Site Lighting & Power : allowance LED exterior light fixture - allowance Exterior wall mounted LED light - allowance Exterior wall mounted LED light - allowance Exterior pole mounted light fixtures c/w poles Concrete base Fixture lamps & wiring Exterior lighting controls - allowance Allowance for Amphitheatre (Subtotal Site Lighting & Power : allowance \$161,100) Miscellaneous Amphitheatre sound system Site security rough in	640 140 1 40 140 140 5 300 10 15 45 1 1 1 1 1	m m3 sum m m3 no no no no sum sum sum	60.00 30.00 390.00 300.00 3.00 3.00.00 4.50.00 4.50.00 15,000.00 50,000.00 50,000.00 20,000.00	38,400 4,200 0 15,600 4,200 37,000 6,750 20,250 15,000 50,000 50,000					

Class (Revisio	C Cost Report on: 1 Se	Date: 17/12/2020				
	Estin	nate - McN	lurray	Metis Cultural Cent	tre	
Ref	Description	Qty	Unit	Rate	Total	Notes
	SUB-TOTAL: NET SITE WORKS				3,486,000	
Z1	GENERAL REQUIREMENTS & FEE				464,000	
Z11	General Requirements				349,000	
Z 11.01	Contractors General Requirements	10.0	%	3,486,000.00	349,000	
Z12	Fee				115,000	
Z 12.01	Contractors Fee	3.0	%	3,835,000.00	115,000	
	TOTAL: SITE WORKS ESTIMATE				3,950,000	
Z2	ALLOWANCES				695,000	
Z21	Design Allowance				474,000	
Z 21.01	Design Contingency	12.0	%	3,950,000.00	474,000	
Z22	Escalation Allowance				0	
Z 22.01	Escalation Allowance	0.0	%	4,424,000.00	0	
Z23	Construction Allowance				221,000	
Z 23.01	Construction Contingency	5.0	%	4,424,000.00	221,000	
	TOTAL CONSTRUCTION COST (including allow	ances)			4,645,000	
GST	GST Assessment	5%	%	4,645,000.00	232,300	
	Estimated Overall Construction Cost	•	·		4,877,000	

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Class C Cost Report

McMurray Metis Cultural Centre

Date: 17/12/2020

Revision: 1

Appendix A - Area schedule

		Estin	nate - McN	lurray M	letis Cul	tural Ce	entre		
LEVEL	P2	P1	Ground Floor	2nd Floor	3rd Floor	4th Floor	TOTAL (m²)	TOTAL (ft ²)	%
PERIMETER (m)			380	324	245	91			
Total GFA (m2)			2,649	1,799	1,350	111	5,909	63,604	100%
Total GFA (ft2)	0	0	28,514	19,364	14,531	1,195	5,707	03,004	10078
GFA									
Main electrical room			33			[33	352	1%
Biomass boiler			52				52	561	1%
Nood shop			73				73	790	1%
oading			52				52	565	1%
Auseum elect			12				12	124	0%
Stair			10				10	109	0%
Auseum	1		411				411	4,421	7%
WR			37				37	393	1%
Art gallery			180				180	1,942	3%
lanitor	1		16				16	173	0%
Corridor			76				76	822	1%
Reception			28	L	L		28	297	0%
Mech risers Elec/Comm			21				21	221	0%
Theatre & recording studio			115	ļ	ļ	╎╴┨	115	1,241	2%
			4				4	40	0%
Green room			70				70	750	1%
WR			47				47		1%
								501	
Wellness space			81				81	868	1%
Resource centre			93				93	1,006	2% 4%
Multi-Use space			207				207	2,227	
Corridor			64				64	686	1%
Kitchen			63				63	676	1%
oading			30				30	324	1%
Circular gathering space			345				345	3,718	6%
/estibule			14				14	150	0%
Nater entry Main Elec			118				118	1,268	2%
Museum support			1	53			53	569	1%
Class A Museum support				128			128	1,374	2%
Stair			<u> </u>	10			10	107	0%
Co-working space East				220			220	2,367	4%
Co-working space West			1	336			336	3,611	6%
obby				37			37	399	1%
Office kitchen				66			66	707	1%
Stair				19			19	201	0%
Board room				153			153	1,643	3%
Storage				22			22	234	0%
Co Working Space East - WR				6			6	63	0%
Co Working Space West - WR				10			10	108	0%
Stair			1	10			10	109	0%
Stair - tower exit stair	1		1	11			11	123	0%
Stair lobby - Vest at tower exit				22			22	241	0%
Stair lobby				5			5	51	0%
Co Working Space East - Corridor				53			53	569	1%
	1		1	100					
Nezzanine				103			103	1,110	2%

		Estir	nate - McN	lurray M	letis Cul	tural Ce	entre		
LEVEL	P2	P1	Ground Floor	2nd Floor	3rd Floor	4th Floor	TOTAL (m²)	TOTAL (ft ²)	%
PERIMETER (m)			380	324	245	91			
Total GFA (m2)			2,649	1,799	1,350	111	5,909	(2/04	100%
Total GFA (ft2)	0	0	28,514	19,364	14,531	1,195	5,909	63,604	100%
GFA		-		-					
Co Working Space East - Lobby				80			80	859	1%
Mech Room for Circular Gathering				130			130	1,403	2%
Greenhouse East					507		507	5,453	9 %
Greenhouse bridge					41		41	443	1%
Greenhouse West					546		546	5,876	9%
Storage					19		19	202	0%
_ift lobby					20		20	218	0%
Stair					18		18	195	0%
Stair						23	23	247	0%
Storage						13	13	140	0%
₋ift lobby						16	16	170	0%
Storage						4	4	46	0%
TOTAL GFA (m2)	0	0	2,250	1,492	1,151	56	4,949	53,273	84%
Walls / Void Space	0	0	399	307	199	55	960	10,332	16%
Last Report (m2)							5,909	63,604	
Movement (m2)	О	0	2,649	1,799	1,350	111	0,707	00,004	

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Date: 17/12/2020

Revision: 1

Class C Cost Report

McMurray Metis Cultural Centre

n: 1

McMurray Metis Local 1935 McMurray Metis Cultural Centre

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Revision: 1

Appendix B - Information used register

Date: 17/12/2020

Appendix B - Information used register							
Document Type	Author	Document Ref.	Title / Description	Date	Revision		
Architectural	Mindful Architect	A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A01 A02 A03 A11 A12 A13 A14 A31 A14 A31 A32 A33 A34 A35 A40 A50 A51 A52 A54 A55 A56 A57 A60 A61 A62	SITE PLAN LEVEL 1 LEVEL 2 LEVEL 3 LEVEL 3 LEVEL 4 CROSS SECTION 3D OVERALL 3D ENTRY 3D TERRACE 3D GATHERING PROJECT STATS SITE PLAN ROOF + FLOOR ASSEMBLIES FLOOR PLAN LEVEL 1 FLOOR PLAN LEVEL 2 FLOOR PLAN LEVEL 3 FLOOR PLAN LEVEL 3 FLOOR PLAN LEVEL 4 SOUTH ELEVATION NORTH ELEVATION EAST ELEVATION FLATTENED NORTH + SOUTH WALLS CROSS SECTION ENLARGED PLAN LEVEL 1 WEST ENLARGED PLAN LEVEL 1 EAST ENLARGED PLAN LEVEL 1 EAST ENLARGED PLAN LEVEL 2 ENLARGED ELEVATIONS NORTH 1 ENLARGED ELEVATIONS SOUTH MCMUTRAY Metis Cultural Center - Narrative Architectural Specification	13-11-20			
<u>Structural</u>	Miskimmin Structural Engineering Ltd.		Fort McMurray Metis Cultural Center - Concept Design Structural Narrative	30-10-20			
<u>Mechanical</u>	Archineers Consulting		MMCC Preliminary Mech Systems Report	02-11-20			
Electrical	SMP Engineering		MMCC Electrical Narrative Spec	02-11-20			
<u>Civil</u>	WSP		Preliminary Civil Site Report	13-11-20			
Landscaping	SHARP Landscape Architecture		MMCC LANDSCAPE DESIGN NARRATIVE MMCC Draft Planting Plan	13-11-20 17-11-20			
Appendix B - Info	prmation used reg	gister		making the	difference		