

Business Case:

Kapapamahchakwew - Wandering Spirit School

Business Case for a new, standalone, and fully Indigenized facility to provide a truly decolonized environment for Indigenous students and Communities across Toronto

United Nations Declaration on the Rights of Indigenous Peoples

Article 14

- 1. Indigenous peoples have the right to establish and control their educational systems and institutions providing education in their own languages, in a manner appropriate to their cultural methods of teaching and learning.
- 2. Indigenous individuals, particularly children, have the right to all levels and forms of education of the State without discrimination.
- 3. States shall, in conjunction with indigenous peoples, take effective measures, in order for indigenous individuals, particularly children, including those living outside their communities, to have access, when possible, to an education in their own culture and provided in their own language.



2023-24 Capital Priorities Program Business Case – Written Component

Using this document or by providing a separate submission please ensure your response considers all the aspects requested in the business case.

School Board Name: 12 - Toronto DSB

Project Name: New Kapapamahchakwew - Wandering Spirit School

Project Ranking: 1

Project Description: New Standalone JK to Grade 12 Fully Indigenized 397

Pupil Place School

Panel: Both

Municipality: Toronto

Project Category: Facility Condition

Project Type: New School

Child Care: No (childcare has already been funded)

If yes, CMSM / DSSAB Name and number:

Choose an item.

Joint-Use School: None

If Site is EDC Eligible: No

Board Contact Information: Daniel Castaldo, (416) 428-1857

daniel.castaldo@tdsb.on.ca.ca



1.0 Rationale for Need

Part A: Project Rationale

The new, standalone and fully Indigenized school for Kapapamahchakwew - Wandering Spirit School is being submitted to the Ministry of Education as the top Capital Priority project to recognize and acknowledge the Board's strong commitment to Truth and Reconciliation.

The funded strategy to renovate and expand the current facility at 16 Phin Avenue is no longer appropriate from an Indigenous or equity perspective or align with a shared goal of constructing and operating efficient, modern facilities.

The proposed project has been significantly revised since the previous submission in February 2022. The current iteration of the project has been downsized in scope to reduce the school's capacity, square footage and cost. In addition, the project has been phased to prioritize the school and child care components only, which could be followed by subsequent phases to accommodate the Urban Indigenous Education Centre, a swimming pool, and potential expansion if required. These future components are not being submitted for capital funding consideration at the present time.

High-Level Summary of Changes to the Proposal

- The capacity of the proposed school has been reduced from 533 pupil places to 397 pupil places
- The project has been phased to prioritize the school and childcare first; the Urban Indigenous Education Centre (UIEC) and other building elements such as the swimming pool have been removed from the scope
- The proposed square footage of the school and childcare components has been reduced by over 12,000 ft2; from 78,730 ft2 to 66,353 ft2

A standalone facility for Kapapamahchakwew - Wandering Spirit School, exclusively used by Indigenous programs and services is required to provide a truly decolonized environment where Indigenous programs can exist without the interference of colonial practices.

The funding previously allocated for this project in 2018 reflected the standard approach to capital priorities funding allocations whereby a set of strict benchmarks are applied. This project needs to be reviewed and thoughtfully considered through a lens that respects and honours the voice and self-determination of the Indigenous communities. This funding was also allocated to support a renovation and expansion to the current home of Kapapamahchakwew - Wandering Spirit School, 16 Phin Avenue.

Indigenizing and expanding the 16 Phin building is no longer an option. The recent uncovering of mass unmarked graves of Indigenous children subjected to the residential school system in this



country has sparked a nation-wide reflection and discussion on our collective commitments to Truth and Reconciliation.

The 16 Phin building was designed and constructed to meet the needs of a colonial education system in the early 1900's. As an imposing and expansive monolith, the building is not well suited in its current design, layout, or presence to serve as the permanent home for Kapapamahchakwew - Wandering Spirit School and the Urban Indigenous Education Centre. The stark resemblance of 16 Phin to the many residential schools that dotted the Canadian landscape until the mid 1990's doesn't provide for an environment that honors Indigenous voices and self determination. The images on the following page juxtapose the Kamloops Indian Residential School in British Columbia, where the unmarked graves of 215 Indigenous children were tragically discovered in May 2021, with the 16 Phin building.

This business case outlines the board's proposal to construct a new, fully Indigenized standalone school to support Indigenous communities in the City of Toronto. This new building is planned to accommodate students in Grades JK-12, along with a childcare centre. The school will be rooted in Indigenous teachings and community, as well as being a welcoming and inclusive environment for all students across the city.



Kamloops Indian Residential School



16 Phin Avenue Building

This business case is

intended to provide the Ministry of Education with an overview of the revised proposal, an understanding of the importance of this initiative, an overview of the rationale and to request the necessary capital funding to move this project forward together.

The vision is to integrate and be inclusive to the broader community in the teaching and learning approach, which will be designed to foster Indigenous values and culture; the intent will be to welcome all into the Indigenous context.

In 2017, Kapapamahchakwew – Wandering Spirit School was relocated into the former Eastern Commerce CI building located at 16 Phin Avenue to provide the school with space to expand its grades from JK-8 to JK-12 and to co-locate with the Urban Indigenous Education Centre. A location map and aerial photograph of the 16 Phin Avenue site can be found in Appendix A.



At the time, the building also accommodated an alternative secondary school (Subway Academy I), the TDSB's museum and archives, a childcare centre (Creative Pre-School), and space for several TDSB administrative groups (Deaf and Hard of Hearing, Education and Community Partnerships Programs, Pay Equity, and Labour Relations). Since that time only Subway Academy I and Creative Pre-School remain in the building alongside Kapapamahchakwew; all other groups have been relocated.

A benchmark allocation was made in 2018 through the Capital Priorities process to support renovating and expanding 16 Phin. A total of \$11.52M was allocated, which included \$8.87M to support the aspect of the project associated with the school. This funding was allocated using a proxy new school of 300 pupil places as per Ministry benchmarks at that time. The remaining funds were allocated to support the construction of a 3-room childcare centre and EarlyON room.

In the design process, the Elders Council and the Indigenous communities expressed the need for a new, standalone facility that accommodates only Indigenous programs and services. A new facility is required because it is not possible to retrofit the 16 Phin Avenue building within the funds provided to create a fully Indigenized space.

Additionally, and more importantly, the 16 Phin Avenue building was constructed in 1924 in a colonial style of architecture that resembles many residential schools. Also of significant concern is the facility condition of the building and ongoing costs of maintenance and renewal. The building is also oversized for the needs of the school – a new facility would be right sized to align with the enrolment and program needs of Kapapamahchakwew - Wandering Spirit School, rather than the school needing to adjust to the conditions of the building.

To eliminate the association with residential schools and to provide instructional spaces suited for Indigenous ways of learning, the best solution is to build a new facility designed by Indigenous architects for Indigenous communities.

Although the building isn't appropriate, the 16 Phin site is still the preferred location to build the standalone Indigenous facility. At 4.9 acres it is large enough to accommodate a new facility and other important areas like a ground for community celebration/activities, and a lacrosse field. It is located centrally within the city and has excellent access to public transit – the Donlands subway station is only 190 metres away.

A new facility could be built on the current sports field while Kapapamahchakwew continues to operate in the existing 16 Phin building. Once the new facility opens, the existing 16 Phin building would be used for the Urban Indigenous Education Centre (UIEC) until funding is secured to expand the new school to include this group.

The 16 Phin building would also be right sized for the UIEC, resulting in large portions of the facility being demolished over time, including an area of 65,670 ft2 as part of the first phase of the project. This reduction in square footage would also reduce operating costs and eliminate a significant amount of renewal backlog from the school and the system.



In response to the voice of the Indigenous communities, staff are currently in the process of moving the other user groups in the 16 Phin Avenue building to other locations. The only remaining groups in the building are Kapapamahchakwew, Subway Academy I, the Urban Indigenous Education Centre and Creative Pre-School (private childcare centre).

Discussions on relocating Creative Pre-School from the building are currently underway. Subway Academy I will also be relocated, subject to the outcome of the Board's review of all Secondary Alternative Schools. All other user groups have been relocated into other TDSB locations. The proposed new school does not include any other groups aside from Kapapamahchakwew and the new childcare centre (not Creative Pre-School).

Demographic Overview

A growing body of research points to the positive impact on student achievement of Culturally Relevant and Responsive Pedagogy (CRRP). At Kapapamahchakwew – Wandering Spirit School, CRRP has been the foundation of teaching and learning for nearly forty years. With educational programming grounded in the knowledge and traditions of First Nations peoples, and a learning environment that reflects their histories, experiences, cultures and understandings, the school has offered the children of Toronto's Indigenous communities an alternative to mainstream schooling.

The City of Toronto estimates that there are between 35,000 and 70,000 Indigenous people living in Toronto. (Anishinaabe, Haudenosaunee, Métis, Cree, Mi'kmaq, Inuit and more). Based on census data and information from various agencies working with the Indigenous communities, it is estimated that between 6,000-7,000 students of Indigenous heritage are currently enrolled in TDSB schools. The census indicators identified and explained below suggest that the Indigenous population is large, rapidly growing and very present within urban communities such as the City of Toronto.

Increase in Population is Much Higher for the Indigenous Population

Statistics Canada reports that past censuses have emphasized two key characteristics of the Indigenous population: that Indigenous peoples are both young and growing in number. The 2016 Census reaffirmed these trends. (Source: https://www150.statcan.gc.ca/n1/daily-quotidien/171025/dq171025a-eng.htm?indid=14430-1&indgeo=0)

Between 2006 and 2016, the Indigenous population has grown by 42.5% across Canada. This is more than four times the growth rate of the non-Indigenous population over the same period. According to population projections, the number of Indigenous people will continue to grow quickly. In the next two decades, the Indigenous population is likely to exceed 2.5 million persons. According to Statistics Canada, there are two primary factors that have contributed to the growing Indigenous population.

 The first is natural growth, which includes increased life expectancy and relatively high fertility rates; and



 The second factor relates to changes in self-reported identification: more people are identifying as Indigenous on the census.

According to the 2016 census, the First Nations population—including both those who are registered or treaty Indians under the Indian Act and those who are not—grew by 39.3% from 2006 to reach 977,230 people in 2016.

- The Métis population (587,545) had the largest increase of any of the groups over the 10-year span, rising 51.2% from 2006 to 2016.
- The Inuit population (65,025) grew by 29.1% from 2006 to 2016.
- The number of First Nations people with Registered or Treaty status increased by 14%, while the number of First Nations people without Registered or Treaty status (Non-Status) increased by 61%.

Indigenous Population is Considerably Younger than the Non-Indigenous Population

As per the 2016 census the median age was much lower for the Indigenous population than for the non-Indigenous population. The average age of the Indigenous population was 32.1 years in 2016, nearly a decade younger than the non-Indigenous population (40.9 years). As reported in the 2011 census:

- Indigenous people and Inuit had higher fertility rates than the non- Indigenous population; and
- Métis had a slightly higher fertility rate than the non-Indigenous population.

Largest Indigenous Population Resides in Ontario

According to the 2016 census nearly a quarter (or 24.2%) of the total Indigenous population in Canada lived in Ontario; this was an increase of 2% from the 2011 census. Further, and for the first time, Ontario had the largest Métis population in Canada at 120,585, up 64.3% from 2006 and accounting for one-fifth (20.5%) of the total Métis population. Métis were also the most likely to live in a city, with 62.6% living in a metropolitan area.

Urban Indigenous Population is the Fastest Growing Segment of Canadian Society

The increase in the urban population of Indigenous peoples has been taking place for decades across Canada. The urbanization of Indigenous peoples in Canada is due to multiple factors—including demographic growth, mobility and changing patterns of self-reported identity.

In 2016, 867,415 Indigenous people lived in a metropolitan area of at least 30,000 people, accounting for over half (51.8%) of the total Indigenous population. From 2006 to 2016, the number of Indigenous people living in a metropolitan area of this size increased by 59.7%.



Facility Condition at the 16 Phin Building

16 Phin, the current location for Kapapamahchakwew - Wandering Spirit School, was constructed in 1924 to provide easier access to secondary education for students living east of the Don River. The program focus at the school was business and commercial studies.

The school is large, expansive, and complex. The school received 4 additions over the next 50 years, beginning in 1926 where 18 classrooms were added to the school. In 1930, another 6 classrooms, auditorium, swimming pool and 2 gyms were added. In 1961, 6 classrooms, a heath centre and cafeteria were constructed. And finally, in 1966, a 3rd gymnasium, instruction room, data processing room and language lab were added. The total area of the building is approximately 197,000 ft2.

The current renewal backlog at the 16 Phin building is **\$24.6M**. The total that is deemed to be 'high and urgent' is \$21.3, or 87% of the total backlog. The 5-year projected renewal backlog is \$26.4M, an increase of \$2M. The current Facility Condition Index (FCI) is 69%, projected to increase to 74% over the next 5 years.

Over the past 10 years there has been over \$10M spent through the School Renewal Grant and School Condition Improvement Grant to maintain the facility. This ongoing maintenance and renewal of the facility will be required into the distant future if it is to be retained. There are significant facility condition issues that remain. A new replacement school would allow the Board to forgo ongoing and costly investment into an aging building that is vastly oversized for Kapapamahchakwew - Wandering Spirit School.

Demolishing the existing 16 Phin building provides the Board with an opportunity to remove \$26.4M in renewal backlog from the system, while properly right sizing the facility to accommodate the school and childcare.

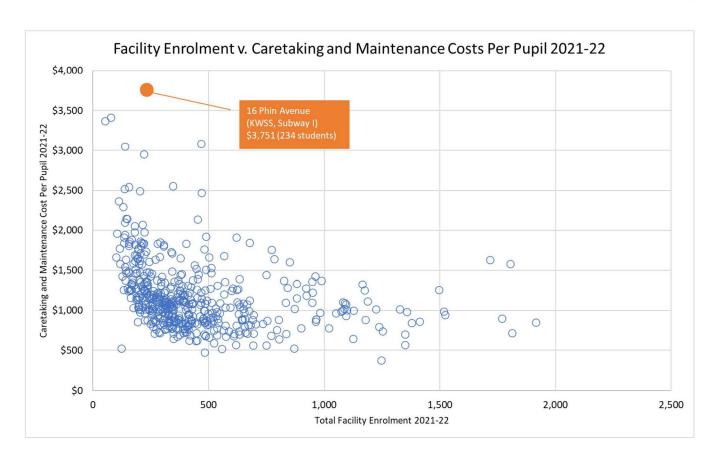
NOTE: The excel business case did not properly pre-load the GFA of the 16 Phin Avenue building. The only GFA component that pre-populated was the space in the building used by Subway Academy I. The long-term vision would be to demolish the entire building of 18,301 sq. M., not only the 2,561 sq. M. associated with Subway I. As part of Phase 1, 6,101 m2 of the existing building would be demolished (65,670 ft2).

Operating Costs of the 16 Phin Building

The existing facility is approximately 197,000ft2, and as a result is incredible costly to operate and maintain, especially when compared to the actual and projected enrolment of Kapapamahchakwew - Wandering Spirit School.

In 2021-22 the 16 Phin building had the highest per pupil operating cost (caretaking and maintenance) of all facilities across the city at \$3,751 per pupil. The building had an enrolment of 234 students in 2021-22, which included Kapapamahchakwew - Wandering Spirit School (JK-12) and Subway I.





Part B: Alternative Accommodation Strategies

Funded Project

The proposed standalone Kapapamahchakwew - Wandering Spirit School is a unique project that should not be defined or analyzed in the same manner as other Capital Priority projects submitted by the Board. The enrolment, utilization rates and/or future plans for surrounding schools are irrelevant to the needs of this project. There has been an exhaustive discussion over the past decade about the most appropriate means of providing a dedicated facility to support urban indigenous education in the City of Toronto. The decision has been made to pursue a standalone facility, not using a nearby operating school to accommodate Kapapamahchakwew - Wandering Spirit School. The school serves Indigenous students from across the city and does not have a boundary – making boundary changes irrelevant. Grade changes are not applicable either; the school is JK-12, and a grade change would defeat the purpose of a standalone indigenous school.

In 2018, the school received funding from the Ministry through the Capital Priorities Program to right size, renovate and indigenize the 16 Phin building. Through the Ministry's benchmark-based formula, the school was allocated a total grant of \$11.52M: \$8.87M to provide space for the school; \$2.12M to provide space for an Indigenous childcare centre; and \$0.53M to provide space for an Indigenous EarlyON Centre. These funding benchmarks do not reflect or recognize the uniqueness of the project as it relates to design, space, and functionality.



The insurmountable issue is the resemblance of 16 Phin Avenue to a residential school. No amount of investment renovation or expansion will change the imposing presence of this facility or the impact that it has on those that pass through its doors each day.

Photos of the 16 Phin Avenue façade and the façade of a residential school are provided in Appendix B. Further, there are elements of this project that may be considered 'community' and are intrinsically connected to the school and cannot be disconnected. The foundation of this project is rooted in connecting the broader Indigenous communities with the school. These community elements are not reflected within the colonial approach to benchmark funding allocations. These elements include spaces like an Elder's lounge, community kitchen and a sacred room – all are reflected in the Facility Space Template for the project.

Vision

The vision for the Indigenous school was and is to create an innovative hub for Urban Indigenous Education that will contribute to the growth of knowledge and demonstrate leadership in the field of Urban Indigenous Education.

This Centre will be dedicated to increasing cultural capacity across the Board through the implementation of inclusive curriculum, enhanced professional learning, and innovative program partnerships. Although the project has been phased to allow the focus to be on the school and childcare at this time, the long-term vision is to incorporate a new addition for the Urban Indigenous Education Centre in the future. This is not included as part of the scope of this business case submission.

The UIEC will continue to support and actively engage participation by parents and members of the Indigenous communities in partnership with Kapapamahchakwew - Wandering Spirit School. The school will not only be welcoming of the community but also responsive to the community's needs. Partnerships with Indigenous service providers, post-secondary institutions and arts and culture organizations will be a priority as the project evolves.

Current Funded Project

In 2019 TDSB Design staff and the architect retained to lead the project undertook a costing exercise to estimate the full cost associated with the vision plan to Indigenize the 16 Phin building as per the vision. The estimate suggested that to achieve the vision at 16 Phin the total cost would be approximately \$40.8M. The estimate suggested that the addition to the 16 Phin building would cost \$17.23M alone, which is substantially higher than the funded amount of \$8.87M.

This meant that the renovations required to fully Indigenize the facility to align with the vision plan at 16 Phin were estimated to cost an additional \$21.4M to undertake. These renovations were required across all floors of the existing school. These funds were not recognized in the allocated benchmark funding and would still not address the imposing façade of the 16 Phin building and its resemblance to a residential school. Further, these estimates were provided in 2019 and the cost of construction



in the City of Toronto and across the province has increased dramatically, meaning that the 2023 cost of this project would be substantially higher than the 2019 estimate.

The proposal for a new, fully Indigenized facility is a redress to the legacy of residential schools and pays honour to the Indigenous children who did not survive, and to the Indigenous communities who live with the intergenerational trauma of that system.

Although the cost of a new standalone school is expected to exceed Ministry funding benchmarks, it may not be as high as the cost to renovate/expand the 16 Phin building to achieve the vision.

Impact of Not Proceeding With the Project

Not proceeding with this project would not align with the Truth and Reconciliation Commission of Canada's 94 Calls to Action, specifically numbers 62 and 63, which are outlined below:

Education for reconciliation

- 62. We call upon the federal, provincial, and territorial governments, in consultation and collaboration with Survivors, Aboriginal peoples, and educators, to:
 - Make age-appropriate curriculum on residential schools, Treaties, and Aboriginal peoples' historical and contemporary contributions to Canada a mandatory education requirement for Kindergarten to Grade Twelve students.
 - II. Provide the necessary funding to post-secondary institutions to educate teachers on how to integrate Indigenous knowledge and teaching methods into classrooms.
- III. Provide the necessary funding to Aboriginal schools to utilize Indigenous knowledge and teaching methods in classrooms.
- IV. Establish senior-level positions in government at the assistant deputy minister level or higher dedicated to Aboriginal content in education.
- 63. We call upon the Council of Ministers of Education, Canada to maintain an annual commitment to Aboriginal education issues, including:
 - Developing and implementing Kindergarten to Grade Twelve curriculum and learning resources on Aboriginal peoples in Canadian history, and the history and legacy of residential schools.
 - II. Sharing information and best practices on teaching curriculum related to residential schools and Aboriginal history.
- III. Building student capacity for intercultural understanding, empathy, and mutual respect.
- IV. Identifying teacher-training needs relating to the above.

A fully indigenized, standalone facility for Kapapamahchakwew - Wandering Spirit School aligns with these commitments to action and would represent a significant step forward for both the Government



of Ontario and Toronto District School Board in recognizing and supporting Indigenous selfdetermination.

Not proceeding with the project would leave Kapapamahchakwew - Wandering Spirit School in the current 16 Phin building, which, as has been explicitly expressed by members of Indigenous communities, is not appropriate given its resemblance to that of a residential school. This is a cause of ongoing trauma to the community that requires immediate action and attention.

From a facilities perspective the building is grossly oversized relative to the enrolment of the school, is Prohibitive to Repair with over \$26M in 5-year renewal backlog and will require a substantial amount of ongoing investment to keep in a state of good repair. These are ongoing and significant costs to both the Province and the Board and could be avoided through the provision of a new school.

A new, state of the art school with building systems that incorporate best practices in environmental sustainability would be a dramatic shift from the costly monolith that is 16 Phin Avenue.

2.0 School Enrolment and Capacity Overview

The proposed capacity for the new Indigenous school is 397 pupil places, this has been reduced since the February 2022 submission when a school of 533 pupil places was proposed.

The current organization and use of the existing 16 Phin building results in a capacity of 924 pupil places. As per the funded project proposal where the building was to be renovated and expanded, approximately 33,400ft2 of the existing facility would have been demolished to allow the addition to be constructed onto the building.

This addition would have included gymnasiums, a swimming pool, classrooms, and associated spaces like washrooms, change rooms and cafeteria. The proposed changes to the facility, including the addition and planned renovations to the interior, would have resulted in a capacity of 1,005 pupil places. This iteration of the project would have resulted in a facility that was still a mismatch with the school's enrolment and supporting uses. A large amount of renewal backlog would have remained unaddressed, and elements of the facility would continue to deteriorate.

The February 2022 proposal sought a much larger standalone facility, not only in capacity, but one that would have also included the Urban Indigenous Education Centre and swimming pool. The reduced capacity of 397 pupil places is a better match with the current and projected enrolment for the school and represents a much more efficient model.

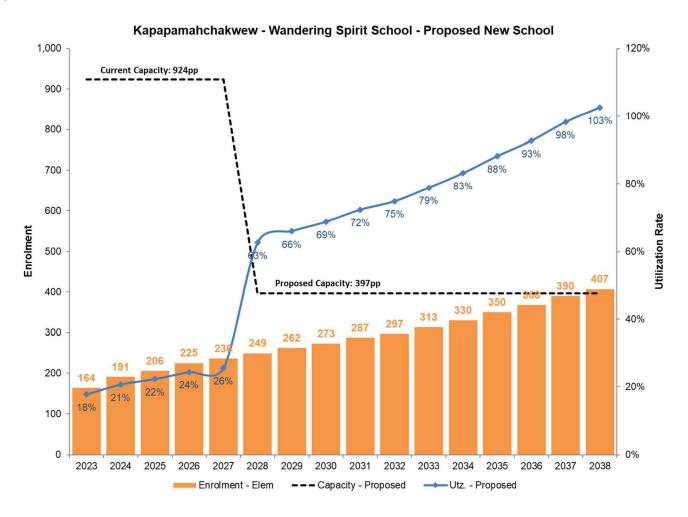
Enrolment at Kapapamahchakwew - Wandering Spirit School is currently 116 students in JK to Grade 8 and 48 students in Grade 9-12 for a total of 164 students. The model upon which the new standalone school is based is smaller than what was shared with the Ministry in February 2022. The proposed capacity of the new school is 397 pupil places: 282 associated with the elementary portion and 105 with the secondary portion. The previous proposal included 386 pupil places for elementary



and 147 for secondary. The represents an overall reduction of 146 pupil places to the school component of the project.

The following graphs illustrate the current and projected enrolment of Kapapamahchakwew - Wandering Spirit School under the two different scenarios. The first reflects the proposed option, which is a new replacement school of 397 pupil places, the second is the current funded model which would see an interior renovation and expansion of the 16 Phin building to a capacity of 1,005 pupil places.

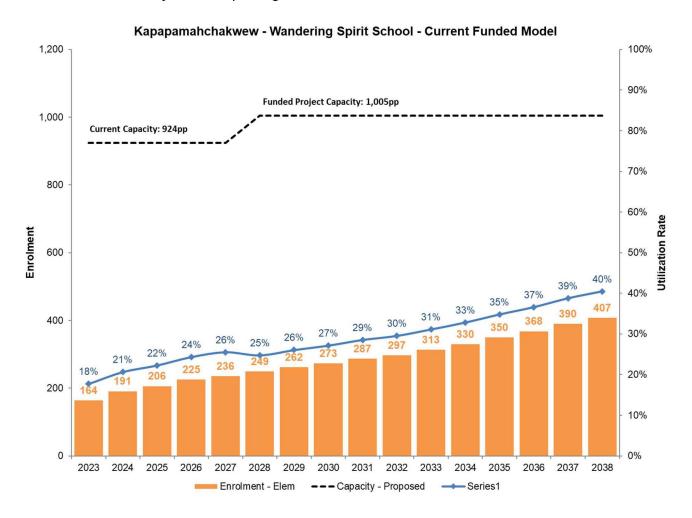
Under the current proposal the school would be right sized to a capacity of 397 pupil places, with an opening date of September 2028. Upon opening, the school would increase in utilization from 26% to 63% with an enrolment of 249 students. With the new facility and increasing enrolment year-over-year, the school is expected to reach 75% utilization by 2032 and 98% utilization by 2037 with 390 students. As outlined, the building will be planned in a way that allows for future expansion if/when required.





The current funded model is outlined in the graph below. Under this model the existing facility would be renovated and expanded to a capacity of 1,005 pupil places. This is the capacity that was reflected in the February 2022 business case where a new replacement school was first identified.

Under this model the school's capacity would increase from 924 to 1,005 in 2028, resulting in a utilization rate of 25%. Although enrolment is projected to grow, the building is still significantly oversized relative to the population of the school. By 2032 the school's utilization rate is projected to be 30%, and by 2037 only 39%. This does not align with Ministry's parameter for schools to be utilized at 100% within 5 years of opening.



Surrounding schools have not been considered as a solution to this project due to the unique and culturally sensitive nature of the proposal. It has already been determined through extensive consultation with Indigenous communities that co-existing with another TDSB school and/or group is not feasible and that a standalone facility is the only appropriate solution that aligns with commitments to Truth and Reconciliation.

The 16 Phin site is still the most appropriate location for the Kapapamahchakwew - Wandering Spirit replacement school. Other sites in the area have been investigated in the past and do not provide opportunities for another standalone school to be constructed.



An added benefit of the 16 Phin site is the ability for the Urban Indigenous Education Centre to continue operating while the new school is constructed and operational. The UIEC is connected to Kapapamahchakwew - Wandering Spirit school, but also supports Indigenous instruction across the entire City.

3.0 Proposed Scope of Work

Part A: School Project Scope

The revised scope of work for Kapapamahchakwew - Wandering Spirit school involves the construction of a new, standalone 397pp JK-12 school and childcare. The new building would be constructed on the playfield of 16 Phin Avenue. There would be no need to relocate the school or UICE during construction.

The new school would allow for a significant portion of the existing 16 Phin building to be demolished, reducing renewal backlog and operating costs. The building would continue to be used for the UICE until a future phase of the project can be completed.

The scope of the project includes the following areas, among others:

- 2 Full Day Kindergarten Classrooms
- 8 Elementary Classrooms (3 Primary, 3 Junior, 2 Intermediate)
- 1 Science / Tech Room
- 1 Art Room
- 1 Instrumental Music / Drama / Dance Room
- 1 Language Room (Ojibwe)
- 1 Flexible Resource Space
- 5 Secondary Classrooms
- 2 Resource and 2 Seminar Rooms
- Triple Gymnasium
- Library / Learning Commons
- Fitness / Weight Room
- Cafetorium and Teaching Kitchen
- Sacred Room
- Elders Lounge
- Office Spaces for UIEC (to support transition to the new building)

A Design Brief prepared by Two Row Architects is attached as Appendix C. This document provides a significant amount of detail regarding the unique design approach to this project, specifically importance of a design resonates with Indigenous cultural values, traditions, and histories, creating a space that truly represents the community it serves.



Schematic drawings and supplementary drawings, prepared by Two Row Architect can be found in Appendix D. These drawings illustrate the Indigenous design perspectives described in the brief and showcase how the new school is dramatically different from the 16 Phin building.

A phasing plan, also provided by Two Row Architects is attached as Appendix E. This phasing plan outlines the fulsome scope of the project, inclusive of not only Phase 1 – school and childcare – but also the UIEC, potential pool and future addition. This phasing plan also demonstrates the sequential demolition of the existing building at 16 Phin Avenue as the project evolves.

Part B: Child Care Project Scope, if applicable

Is the board requesting childcare funding to support childcare space with the Capital Priorities project request? No

Funding for a 3-room childcare has already been allocated to the project.

6.0 Project Readiness Assessment

Part A: Site Ownership

Please elaborate about the school board's current status of site acquisition for the requested Capital Priority, including:

Do you require Land Priorities funding or do you have other sources of funding available?

The 16 Phin Avenue site is owned by the TDSB, and no land priorities funding is required.

Has the board secured a site for the project? If not, what progress has been made? When does
the board expect to have secured a school site?

The 16 Phin Avenue site is owned by the TDSB and is of a sufficient size to accommodate the proposed replacement school. No additional land is required to support the project.

What is the status of the identified site?

Owned by the Board.

 Are all or some of the utilities connected? If not, when does the board expect this work to be complete?

The 16 Phin Avenue building is an operating school, and all utilities are connected.

 Are the roads providing access to the site developed and usable? If not, when does the board expect this work to be complete?



The 16 Phin Avenue building is an operating school and is serviced by an existing road network.

 Has the board completed phase 1 of the environmental assessment? If not, when will the board be able to do so? If applicable, were there any issues identified that will influence the timelines or budget of the project and by how much?

TBD

Has the board completed a geotechnical assessment of the site? If not, when will the board be
able to do so? If applicable, were there any issues identified that will influence the timelines or
budget of the project, and by how much?

TBD

Is the site topography suitable for this project? If not, what are the board's plans to address this
issue and what are the implications for project timelines and budget?

16 Phin Avenue is a flat parcel of land with an existing school and associated functions. There are no topographical issues to resolve that would impact the Board proceeding with the replacement school project.

 Does the current zoning enable the construction of a school? If not, please provide details on the requirements for rezoning and any implications on timelines or budget.

The site is appropriately zoned; there are no implications on timelines or budget related to Zoning.

 Have all unique site costs been identified? If not, when does the board expect to have an estimate with ~80% confidence?

TBD

For additions and renovations only: Does the board know with certainty whether the project will
require relocating students currently enrolled at the school? If not, please provide additional
information about how that decision is being made.

There is no need to relocate students. The replacement school can be constructed on the site while the existing school remains operational.

• If alternative accommodation is required during the project, please provide information about the board's plan for relocating the students and any further steps you need to complete to finalize this plan.

Alternative accommodation is not required. Students will remain on-site while the replacement school is constructed.

Please elaborate if the school board anticipates any challenges in securing a site for this project when working with municipalities or developers.



The site is owned; therefore, no challenges are expected

Part B: Project Design

The Design Brief attached in Appendix C provides additional detail regarding the unique approach to the design of Kapapamahchakwew - Wandering Spirit School. A summary of these points can be found below.

The design of the new Kapapamahchakwew - Wandering Spirit School, formerly known as the First Nations School of Toronto, does not fall into the scope of any repeat design (catalogue), or TDSB schools/projects.

The unique pedagogical requirements of this school which will provide curriculum focused on indigenous culture and teachings, requires a newly conceived facility based on indigenous design principles. Hence, why the Indigenous Architecture firm Two Row Architect was engaged for its design. The need for a new facility, which does not follow the prescribed catalogue for TDSB schools, is especially important given the current Wandering Spirit School operates from a colonial building whose spatial planning is diametrically opposed to the pedagogical requirements of a school for First Nations students.

Additionally, the existing building is in disrepair and is unfit to host any students, let alone indigenous students who carry the intergenerational trauma from Canada's legacy of Residential Schools. This is the result of the aesthetics, smell, and unpleasant acoustic qualities which are representative of the colonial residential schools.

The proposed new build is on the existing site of the current building formerly known as Eastern Commerce at 16 Phin Ave. The new building is proposed to be three storeys in height and is to be constructed prior to the full demolition of the current building – partial demolition will take place. The proposed area of the building for Phases 1A and 1B (school and childcare) is 66,353 ft2 (6,164m2).

Standardized classroom sizes are used and oriented along a radial grid that orients classrooms to the cardinal directions, prioritizing mother earths gifts, and embracing solar gain. The design allows for future classrooms to be plugged into the building along this radial grid. Energy efficient, and sustainable, mechanical systems are proposed to align with the cultural values of First Nations communities to live lightly on the land (Natural Ventilation, High Efficiency Heat to Air Pumps) and to harvest the gifts of mother earth (photovoltaic panels).

The board has been consulted by Two Row Architect to consider, and implement, the following points regarding the appropriate and respectful conception a piece of contemporary indigenous architecture:

 Land and Place-Based Design: Rooted in an intimate understanding and respect for the land, contemporary Indigenous architecture often starts with a thorough analysis of the site, its history, its ecosystems, and its significance to local Indigenous communities. Buildings are often designed to be in harmony with their surroundings, respecting natural topographies and ecosystems.



- **Cultural and Spiritual Symbolism**: Indigenous cultures are rich in symbolism and spiritual narratives. Contemporary Indigenous design often weaves these symbols and stories into the architecture, whether through building forms, patterns, materials, or spatial experiences.
- Community-Centered Design Process: Indigenous design frequently emphasizes collaboration
 and consultation with the community from the project's inception to completion. This inclusive
 approach ensures that the final design genuinely reflects the community's values, needs, and
 aspirations.
- Sustainability and Environmental Stewardship: Indigenous cultures have a long history of living sustainably and in balance with nature. Indigenous architecture often emphasizes ecofriendly materials, energy-efficient design strategies, and sustainable construction practices, reflecting a deep respect for Mother Earth.

The design of the WSS is scalable to allow for future phases of the school to plug-in to the proposed Phase 1 of the school. A schematic design package showing future phases of the school is included as a supplementary drawing package in Appendix D and illustrates how the school's design can grow while maintaining its specific identity as an indigenous school designed around indigenous values and principles.

The board plans for the partial demolition of the existing WSS school at 16 Phin Ave to commence prior to the construction of the new facility. This will allow for temporary site storage and parking to occupy the area of partial demolition. The design of the new building follows a radial grid with upper-level classrooms stacked on top of one another. This allows for ease of construction and modularity. Lastly, the board has engaged A.W. Hooker as the cost consultant, who has advised a fast track for construction of Phase 1 of the school to save costs. As a result of the above, the project is suited to be constructed quickly and on budget.

The largest design challenge is meeting and expressing the culturally specific needs of the First Nations communities and students the school is conceived for. Community Integration of the broader Indigenous community through communal events, gatherings, and outreach from elders, is an essential pedagogical component of a First Nation school. Ensuring these programs are operational throughout the construction of the new school and minimizing impact to these programs during the demolition of the existing school, are a critical which will require careful planning and commitment from the Board.

The proposed project is completed to a Schematic Design stage for the Phase 1 school. Supplementary schematic design drawings are provided to show the concept for the school in future phases with additional pedagogical and communal programming to fully satisfy the cultural needs of the community this school serves. Artistic renderings are also provided in the supplementary drawings (Appendix D) to supply visuals to the community and stakeholders of the project with a view of the completed project.



The design stage is completed from a Schematic Design point of view. The project is ready at this point to move on to the Design Development stage where the structural systems, building envelope, layout of classrooms, and interior detailing can be flushed out.

The estimated cost of the project is \$51.99M as per the Class D cost consultant report as prepared by A.W. Hooker. The report is attached in Appendix E. The Ministry has already committed \$11.5M to the project, which leaves an **unfunded requirement of approximately \$40M**. A summary of extraordinary costs associated with the project can be found in Appendix F. These costs are reflected in the Excel business case, but a description is found in the Appendix.

Part C: Project Milestones

The project milestone schedule is based on durations of key project activities and approvals. The schedule is largely affected by City of Toronto approval processes, such as Site Plan Approval, and by internal approval timelines.

The dates provided in this business case are the best high-level projections based on current and previous project experience and may be subject to change if projected activities are delayed, particularly those that are not within the Board's control.

Project completion is contingent on timely approvals from the City of Toronto, such as Site Plan and Building Permit. Furthermore, delays can also be due to unknowns during construction such as unforeseen soil condition, weather conditions, and labour/manufacturing delays.

The most likely impediment on this project timeline will be the Zoning amendment and Site Plan approval processes in which the board and its consultants have the least control over. Additionally, the process to acquire funding from the Ministry to support the project will need to be expedited to ensure the years long effort of the Indigenous community to move this project forward is not delayed any longer. Furthermore, delays can also be due to unknowns during construction such as soil conditions, weather conditions, and labour/manufacturing delays.

Delays will be mitigated by ensuring project team will explore opportunities for pre-approvals such as partial building permits, undertaking early works such demolition and overlap project activities where possible.

Delays will be mitigated by ensuring the project team explores opportunities for pre-approvals such as partial building permits, undertaking early site works such demolition and by overlapping project activities where possible.

TDSB has undertaken an exercise to identify key project milestone durations such as internal reviews and approvals, which has been applied to the projected schedules and gives the project schedule a level of certainty as a result.



For project delays that cannot be mitigated, the schedule will be extended to suit in the future. Please refer to attached high level project schedule in Appendix G that identifies key milestones and durations. A critical element of the projected schedule is the Site Plan Approval (SPA) process, which has been estimated to be 18 months from submission to NOAC (Notice of Approval of Conditions) and is one of the key drivers for the overall completion date.

TDSB has engaged a City of Toronto Planner who will continue to assist the project team by advocating for an expedited SPA process, which can significantly improve the project timeline.

Part D: Predictors of On-Budget Completion

Estimated project costs are based on third party cost consultant reports by A.W. Hooker, along with soft cost estimates based on TDSB previous experience and additional third-party consultants.

The current estimate is significantly higher than previous tendered projects due to market volatility and cost consultant projections. The estimated project cost is based on the project milestone schedule and appropriate escalations as carried by the third-party cost consultant.

A 10% contingency has been carried for each project to protect against unknowns during project development and construction and has been added to the cost consultant estimate. Unique site costs have been identified based on TDSB past project experience, however as the project develops, further unique site costs may be identified that are unknown at this preliminary stage.

The childcare component of the project has been designed and identified in the drawings and cost report. If the project is not funded, the childcare will also not proceed.

Based on recent project experience, the construction market volatility is a significant factor for project cost increases. Previous TDSB capital priorities funding was not based on market prices and therefore resulted in budget shortfalls when projects were tendered on the open market.

If the project is funded based on the cost consultant report, which builds in escalation and contingencies, there is less risk of future budget increases. Increases in project timelines are also a risk to the project budget, therefore the project team will work to ensure projects are delivered as per the schedule to avoid incurring additional costs.

The substantial site cost includes the demolition of the existing 16 Phin building which is in disrepair (7.3% of project budget). The project will also need to adhere to City of Toronto Site Plan approval requirements and Toronto Green Standards.

Appendices

Appendix A: Location Map and Aerial Photograph of 16 Phin Avenue



Appendix B: Photos of 16 Phin Avenue's Facade

Appendix C: Design Brief for the Project

Appendix D: Schematic and Supplementary drawings including Phasing Plan, Images

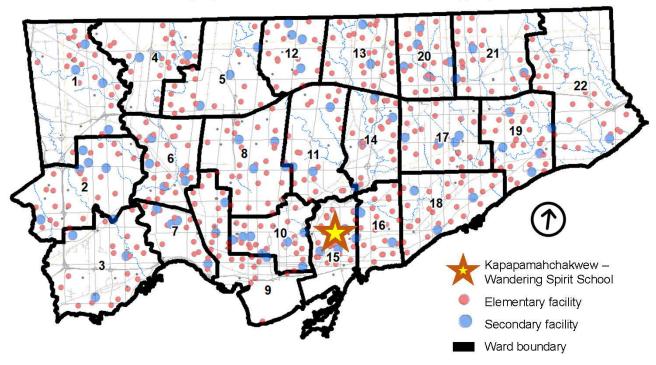
Appendix E: Class D Cost Consultant Report (A.W. Hooker)

Appendix F: Summary of Extraordinary Costs

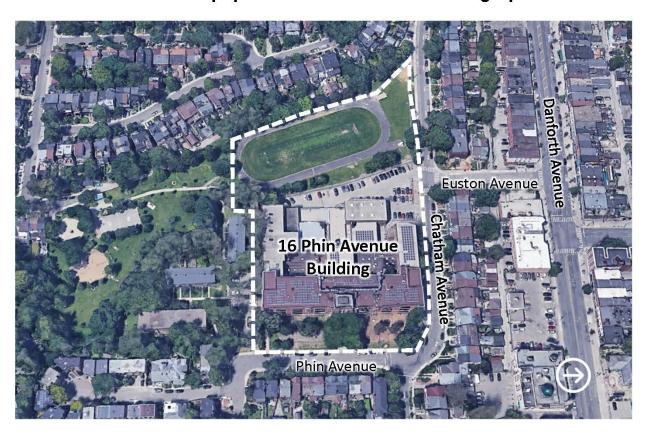
Appendix G: Project Milestone Schedule

Appendix A

Location of Kapapamahchakwew – Wandering Spirit School



Aerial Photo of Kapapamahchakwew – Wandering Spirit School



Appendix B

Façade of 16 Phin Avenue Building Compared to Façade of Kamloops Indian Residential School

16 Phin Avenue Building





Kamloops Indian Residential School





Design Brief - Wandering Spirit School

1. Introduction

The purpose of this design brief is to provide a comprehensive and cohesive framework for the development of the design and construction of Kapapamahchakwew the Wandering Spirit School. This brief aims to capture the vision, values, and aspirations of the school community, ensuring that the resulting architectural and environmental design embodies its Indigenous educational philosophies, caters to the diverse needs of its students, and enhances the overall learning experience. By setting clear objectives, criteria, and guidelines, this brief serves as a foundational document that will guide architects, designers, stakeholders, and contractors throughout the planning and construction process, ensuring that the essence of Wandering Spirit School is translated into a physical space that is functional, sustainable, and inspiring.

Summary of the project

Kapapamahchakwew - Wandering Spirit School, formerly known as the First Nations School of Toronto, is an educational institution in Toronto dedicated to providing a curriculum rooted in Indigenous culture and teachings. It serves as an example of the commitment to preserve, celebrate, and teach Indigenous languages, values, traditions, and knowledge within an urban environment. The proposed project is on the site of the current building formerly known as "Eastern Commerce" at 16 Phin Ave. The new building is proposed to be three storeys in height and is to be constructed prior to the demolition of the current building. The proposed area of the building for phases 1a and 1b is 66,353 ft2 (6,164m2).

Wandering Spirit School - Overview

- 1. Location: Situated in Toronto, Ontario, the school provides an urban setting for students to engage in a curriculum deeply tied to Indigenous perspectives.
- 2. Education Philosophy: Beyond the standard provincial curriculum, Wandering Spirit School emphasizes the teachings, traditions, languages, and values of Indigenous peoples. The goal is not only to educate but also to instill a sense of pride and identity among Indigenous youth.
- 3. Language and Culture: One of the distinctive features of the school is its commitment to language preservation. Classes are often offered in Indigenous languages, with efforts to ensure students gain fluency and an appreciation for their linguistic heritage.

4. Community Involvement: The school often involves community elders and leaders in its programs, ensuring that teachings are authentic and rooted in lived experiences. This collaboration also strengthens ties between students and the broader Indigenous community.

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- 5. Holistic Approach: Embracing a holistic view of education, Wandering Spirit School integrates physical, emotional, spiritual, and intellectual growth into its programs. Traditional ceremonies, storytelling, land-based learning, and other practices are woven into the daily life of the school.
- 6. Outreach and Collaboration: Recognizing the value of cross-cultural understanding, the school often collaborates with other institutions and engages in outreach activities to promote awareness and appreciation of Indigenous cultures within the broader community.

Objectives and Project Goals

Cultural Representation: To ensure that the design resonates with Indigenous cultural values, traditions, and histories, creating a space that truly represents the community it serves.

Sustainable Design: Incorporate sustainable and eco-friendly materials and construction methods, reflecting Indigenous communities' deep respect and connection to the land.

Flexible Learning Spaces: Create adaptable environments that cater to various teaching methods, from traditional classroom settings to communal gathering areas for ceremonies and storytelling.

Land-based Learning: Incorporate elements that allow for land-based education, such as gardens, outdoor classrooms, or areas dedicated to traditional practices.

Inclusivity: Design spaces that are accessible and welcoming to all, ensuring that every member of the community, including elders and those with disabilities, can fully participate in school activities.

Holistic Wellness: Prioritize the physical, emotional, spiritual, and mental well-being of students and staff by integrating elements like natural lighting, open spaces, and areas dedicated to reflection and meditation.

Community Integration: Ensure the school serves not only as an educational institution but also as a community hub where events, gatherings, and other activities can be held, strengthening the bonds within the community.

Safety and Security: While maintaining an open and inclusive design, ensure the safety and security of students, staff, and community members.

Future Adaptability: Design the school with future growth and changes in mind, ensuring spaces can be easily adapted or expanded to meet evolving needs.

Local Materials and Craftsmanship: Engage local artisans and use local materials, fostering a sense of community ownership and connection to the building, while also minimizing the environmental footprint.

2. Background Information

Client's Vision

The Kapapamahchakwew - Wandering Spirit School in Toronto has a rich history that dates back several decades. The school was established in 1976 and is named after Kapapamahchakwew, a respected Cree warrior and leader. The school was founded with the aim of providing quality education to Indigenous students in Toronto, while also promoting and preserving Indigenous culture, language, and traditions.

Over the years, the Kapapamahchakwew - Wandering Spirit School has played a crucial role in supporting the academic and cultural needs of Indigenous students. The school offers a comprehensive curriculum that incorporates Indigenous perspectives and teachings, ensuring a holistic educational experience. It strives to create a safe and inclusive environment where students can thrive academically, emotionally, and culturally.

The school has been actively involved in community engagement and collaboration, working closely with local Indigenous organizations, elders, and community members. This partnership has helped in the development of culturally relevant programs and initiatives, such as powwows, traditional ceremonies, and language revitalization efforts.

The Kapapamahchakwew - Wandering Spirit School has faced various challenges throughout its history, including limited resources and the ongoing struggle for Indigenous rights and recognition. However, the school has remained resilient and committed to its mission of empowering Indigenous students and fostering cultural pride.

Today, the Kapapamahchakwew - Wandering Spirit School continues to be a beacon of Indigenous education in Toronto. It continues to adapt and evolve, incorporating new technologies and teaching methodologies to meet the changing needs of its students. The school's dedication to providing a supportive and culturally affirming learning environment has made it a respected institution within the Indigenous community and beyond.

Site analysis and context (location, history, existing structures, etc.)

Eastern Commerce Collegiate Institute (ECCI) was a public high school part of Toronto District School Board in Toronto, Ontario, Canada. Opened in 1925, it offered a range of courses leading to all Ministry pathways: University, College, Apprenticeship, and Workplace. Co-operative Education is an integral part of the curriculum.

The school offered a Specialist High Skills Major in Business and Marketing, The National Retail Business Certificate, and an internationally recognized Computer Licence Certificate. In 2002, the department won the Kenneth Fryer Award for mathematics teaching.

The school attracted enrollment to students from all parts of Toronto due to its proximity to Donlands station. Since the school's closure in 2015, the building still hosts Subway Academy I, the First Nations School and the TDSB Historical and Archival Records.

Budget considerations

Design to a budget of \$650/sf, which is higher than the average school construction cost, considering that this school must include unique and sustainable features and building methods.

Project timeline

We anticipate construction start date for Spring, Q2, 2025. There will be continuous construction and no gap. We recommend keeping the school operational while construction of the new build occurs simultaneously. Please refer to phasing diagrams.

3. Design Criteria

Architectural Style & Aesthetics

Contemporary Indigenous design in architecture reflects a profound engagement with Indigenous knowledge, cultural practices, histories, and relationships with the land. This design approach does not just mimic traditional forms but rather interprets and integrates Indigenous principles in modern contexts. Here is a description of some hallmarks of this evolving design style:

1. Land and Place-Based Design: Rooted in an intimate understanding and respect for the land, contemporary Indigenous architecture often starts with a thorough analysis of the site, its history, its ecosystems, and its significance to local Indigenous communities. Buildings are often designed to be in harmony with their surroundings, respecting natural topographies and ecosystems.

- 2. **Cultural and Spiritual Symbolism**: Indigenous cultures are rich in symbolism and spiritual narratives. Contemporary Indigenous design often weaves these symbols and stories into the architecture, whether through building forms, patterns, materials, or spatial experiences.
- 3. **Community-Centered Design Process**: Indigenous design frequently emphasizes collaboration and consultation with the community from the project's inception to completion. This inclusive approach ensures that the final design genuinely reflects the community's values, needs, and aspirations.
- 4. **Sustainability and Environmental Stewardship**: Indigenous cultures have a long history of living sustainably and in balance with nature. Indigenous architecture often emphasizes eco-friendly materials, energy-efficient design strategies, and sustainable construction practices, reflecting a deep respect for Mother Earth.

Spatial requirements (number of rooms, layout preferences, etc.)

The Project has established design goals and spatial requirements. These are clearly identified in the functional program and space allocation list. Please refer to this document for further information.

4. HVAC (Heating, Ventilation, and Air Conditioning)

The aim of this HVAC brief is to outline and create a comfortable and sustainable indoor environment that aligns with the cultural values and needs of the Indigenous community. The proposed HVAC system will incorporate High Efficiency Heat to Air Pumps, Geothermal Displacement Ventilation Systems, and Natural Ventilation techniques.

- 1. Comfort and Well-being: The HVAC system should provide a comfortable indoor environment for students, staff, and visitors, considering factors such as temperature, humidity, and air quality.
- 2. Energy Efficiency: The system should prioritize energy efficiency to minimize environmental impact and reduce operational costs.
- 3. Cultural Sensitivity: The design should respect and incorporate Indigenous cultural values and practices, ensuring the HVAC system aligns with the community's needs and traditions.
- 4. Sustainability: The system should utilize renewable energy sources and sustainable technologies wherever possible, reducing reliance on non-renewable resources.

- 5. Cost-effectiveness: The design should balance performance and cost, ensuring the HVAC system is economically viable and within the project budget.
- 6. Low / No-Carbon: All efforts should be made to provide systems that allow for reduction in carbon emissions.

HVAC System Requirements:

- 1. High Efficiency Heat to Air Pumps: The system should incorporate high-efficiency heat to air pumps to provide heating and cooling. These pumps should be energy-efficient, reliable, and capable of maintaining desired indoor temperatures.
- Geothermal Displacement Ventilation Systems: Utilize geothermal displacement ventilation systems to provide fresh air and maintain indoor air quality. These systems should be designed to minimize energy consumption and provide efficient air distribution.
- 3. Natural Ventilation: Incorporate natural ventilation techniques, such as operable windows and skylights, to allow for fresh air circulation and reduce reliance on mechanical systems.
- 4. Zoning and Controls: Implement a zoning system that allows for individual control of temperature and ventilation in different areas of the school. This will optimize energy usage and cater to varying occupancy levels.
- 5. Integration with Building Design: Ensure seamless integration of the HVAC system with the overall building design, considering architectural aesthetics, space utilization, and structural constraints.
- 6. Maintenance and Serviceability: Design the system for ease of maintenance and serviceability, allowing for regular inspections, filter replacements, and repairs without disrupting the school's operations.

Deliverables:

- 1. Detailed HVAC system design, including equipment specifications, layout plans, and control strategies.
- 2. Energy modeling and analysis to demonstrate the system's energy efficiency and environmental impact.

- 3. Documentation on the integration of Indigenous cultural values and practices into the HVAC system design.
- 4. Operation and maintenance manuals, including recommended maintenance schedules and procedures.
- 5. Cost estimates for the HVAC system installation, operation, and maintenance.

5. Plumbing

The objective of this plumbing brief is to outline the considerations and requirements for implementing sustainable water supply, drainage, wastewater management, water use practices, fixture specifications, and fire protection systems in an Indigenous school. The aim is to ensure efficient and environmentally friendly water management while meeting the specific needs of the school community.

1. Sustainable Water Supply:

- Source: Identify and evaluate potential water sources, such as groundwater, surface water, or rainwater harvesting. Consider the availability, quality, and reliability of each source.
- Purification: Design a water purification system that meets the school's water quality standards, considering filtration, disinfection, and other appropriate treatment methods.
- Storage: Determine the appropriate capacity and location for water storage tanks to ensure a reliable water supply during periods of low availability.

2. Drainage and Wastewater Management:

- Drainage System: Develop a comprehensive drainage system that effectively manages stormwater runoff and prevents flooding, considering the site's topography and local regulations.
- Wastewater Treatment: Design an on-site wastewater treatment system that complies with environmental regulations and minimizes the impact on surrounding ecosystems.

3. Sustainable Water Use Practices:

- Rainwater Harvesting: Incorporate rainwater harvesting systems to collect and store rainwater for non-potable uses, such as irrigation, toilet flushing, and cleaning.
- Greywater Recycling: Implement a greywater recycling system to treat and reuse water from sinks, showers, and laundry for non-potable purposes, reducing the demand for freshwater.

4. Fixture Specifications:

- Sinks and Toilets: Specify water-efficient fixtures that meet or exceed industry standards, such as low-flow faucets, dual-flush toilets, and waterless urinals, to minimize water consumption.
- Maintenance: Consider the ease of maintenance and repair for all fixtures to ensure long-term sustainability and cost-effectiveness.

5. Fire Protection Systems:

- Fire Sprinklers: Design and install an appropriate fire sprinkler system to ensure the safety of students, staff, and the school infrastructure.
- Water Storage: Determine the required water storage capacity for fire protection purposes, considering local fire safety regulations.

6. Electrical

The purpose of this electrical brief is to outline the electrical requirements and considerations for an Indigenous School project. The design will focus on providing reliable power supply, efficient lighting design, emergency backup systems, safety measures, and low-voltage systems to meet the specific needs of the school. Electrical - Power Requirements and Load Calculations:

- Conduct a comprehensive assessment of the school's power requirements, considering the number of classrooms, administrative areas, common spaces, and any specialized facilities.
- 2. Determine the anticipated electrical load for each area, including lighting, equipment, and appliances, to ensure an adequate power supply.
- 3. Consider future expansion plans and potential increases in power demand to accommodate the school's growth.

Lighting Design Criteria:

- 1. Develop a lighting design plan that incorporates both artificial and natural lighting sources to create a comfortable and conducive learning environment.
- 2. Optimize natural lighting by strategically locating windows, skylights, or light wells to maximize daylight penetration while minimizing glare and heat gain.
- 3. Utilize energy-efficient lighting fixtures and controls to reduce energy consumption and maintenance costs.
- 4. Ensure lighting levels meet relevant standards and guidelines for educational facilities.

Emergency Backup Systems:

1. Design and install an emergency backup power system to provide uninterrupted power supply during power outages or emergencies.

- 2. Assess the critical areas that require backup power, such as emergency lighting, communication systems, and essential equipment.
- 3. Specify the appropriate backup power source, such as generators or battery systems, based on the school's specific needs and budget.

Safety Measures:

- 1. Implement proper grounding techniques to ensure electrical safety and protect against electrical faults.
- 2. Install circuit breakers and other protective devices to prevent electrical overloads and short circuits.
- 3. Adhere to local electrical codes and regulations to ensure compliance and safety. 4. Conduct regular inspections and maintenance to identify and address any potential safety hazards.

Low-Voltage Systems:

- 1. Design and integrate low-voltage systems, including data, communication, and security systems, to support the school's technological requirements.
- 2. Collaborate with relevant stakeholders to determine the specific needs and desired functionality of these systems.
- 3. Ensure proper cabling infrastructure and equipment placement to facilitate efficient and reliable low-voltage system operations.

Conclusion:

The above-mentioned key considerations for the electrical systems of an Indigenous School project. By addressing power requirements, lighting design, emergency backup systems, safety measures, and low-voltage systems, the aim is to create a safe, sustainable, and technologically advanced learning environment for the school community.

7. Sustainability

Building Standards:

Adoption of the Toronto Green Standard (TGS) which provides performance measures for sustainable site and building design. The TGS covers various aspects, including energy use, greenhouse gas emissions, and resilience to climate change. New developments in the city are often expected to meet these standards.

Energy Use Reduction:

Setting specific energy use intensity (EUI) targets for different types of buildings (commercial, residential, etc.).

Promote and incorporate passive design strategies, such as enhanced insulation, high-performance windows, and optimal building orientation, to reduce the need for active heating and cooling.

Greenhouse Gas Emission Targets: Toronto's TransformTO plan outlines strategies to significantly reduce local greenhouse gas emissions, aiming to achieve "net-zero" by 2050. This would involve improving energy efficiency across various sectors, including buildings.

Renewable Energy:

Promote the integration of renewable energy sources, such as solar panels and wind turbines, into the energy mix of buildings.

Encourage the implementation of district energy systems that can efficiently serve multiple buildings.

Green Roofs:

The Green Roof Bylaw in Toronto mandates the installation of green roofs on new commercial, institutional, and residential developments with a minimum Gross Floor Area. Green roofs have insulative properties, reducing the energy required for heating and cooling.

Water Efficiency:

Although not directly related to energy, water efficiency measures can indirectly reduce energy consumption, especially when considering the energy involved in water heating and treatment.

Transportation:

While not a building-specific energy goal, Toronto places a strong emphasis on promoting energy-efficient modes of transportation, like public transit, cycling, and walking, which in turn has indirect effects on urban energy consumption.

Public Awareness & Training:

Educate residents and businesses on the importance of energy efficiency, providing them with tools, resources, and training to reduce their energy consumption.

Continuous Monitoring and Reporting:

Encourage or require large buildings and businesses to monitor, benchmark, and publicly report their energy use, which can drive efficiency improvements through increased awareness and competition.

These goals and standards reflect Toronto's commitment to reducing its carbon footprint, promoting sustainability, and creating a healthier urban environment for its residents. Note that goals and regulations can evolve over time, so it's essential to consult current local bylaws, policies, and plans when undertaking new projects or initiatives.

8. Landscape

The objective is to create a regenerative landscape design for an Indigenous school that promotes sustainability, cultural preservation, and a harmonious connection with the natural environment. The design should incorporate site planning and land use strategies, local and sustainable plant selection, hardscape elements, water features and irrigation systems, as well as outdoor lighting and furniture.

Site Planning and Land Use:

- 1. Conduct a thorough analysis of the site, considering its topography, soil conditions, and existing vegetation.
- Collaborate with Indigenous community members and stakeholders to understand their cultural and educational needs, ensuring the design reflects their values and traditions.
- 3. Develop a site plan that optimizes the use of available space, considering areas for outdoor classrooms, gathering spaces, play areas, and ceremonial spaces.
- 4. Incorporate sustainable land use practices, such as rainwater harvesting, composting, and organic waste management.

Plant Selection and Vegetation:

- 1. Prioritize the use of local and indigenous plant species that are well-adapted to the site's climate and require minimal maintenance.
- 2. Incorporate a diverse range of plant species to support biodiversity and provide educational opportunities for students to learn about traditional uses of plants.
- 3. Integrate edible gardens or medicinal plant areas to promote self-sufficiency and cultural knowledge.
- 4. Consider the use of native grasses and groundcovers to reduce the need for irrigation and minimize soil erosion.

Hardscape Elements:

- Design paths, patios, and walls using locally sourced and sustainable materials, such as reclaimed wood or natural stone.
- 2. Ensure that hardscape elements are accessible and inclusive, considering the needs of individuals with disabilities.
- 3. Incorporate culturally significant symbols or patterns into the design of hardscape elements, reflecting the Indigenous community's heritage and identity.

Water Features and Irrigation Systems:

1. Integrate water features, such as rain gardens or small ponds, to promote water conservation and create habitats for local wildlife.

- 2. Design an efficient irrigation system that minimizes water waste through the use of smart controllers, drip irrigation, and rainwater harvesting.
- 3. Consider the incorporation of traditional water management techniques used by the Indigenous community.

Outdoor Lighting and Furniture:

- 1. Design outdoor lighting that enhances safety and security while minimizing light pollution and energy consumption.
- 2. Incorporate solar-powered lighting fixtures where possible to reduce reliance on the electrical grid.
- 3. Select outdoor furniture made from sustainable materials that are durable and comfortable, considering the needs of students, staff, and visitors.

This above outlines the key considerations for creating a regenerative landscape design for an Indigenous school. By incorporating site planning and land use strategies, local and sustainable plant selection, hardscape elements, water features and irrigation systems, as well as outdoor lighting and furniture, the design aims to provide a sustainable and culturally rich environment for the school community.

9. Materials

The objective of the design is to outline the criteria for material selection, local sourcing considerations, preferences for recycled or reclaimed materials, and maintenance and lifecycle considerations for an Indigenous School project. The aim is to create a sustainable, culturally sensitive, and visually appealing learning environment that reflects the values and traditions of the Indigenous community.

Criteria for Material Selection:

- Durability: Materials should be selected based on their ability to withstand the demands of a school environment, ensuring longevity and minimizing the need for frequent replacements.
- 2. Aesthetics: Materials should align with the cultural identity and aesthetics of the Indigenous community, incorporating traditional patterns, colors, and textures where appropriate.
- Sustainability: Preference should be given to materials with low environmental impact, such as those with low embodied energy, minimal carbon footprint, and non-toxic properties.
- 4. Accessibility: Materials should be chosen to ensure accessibility for all students, considering factors such as slip resistance, ease of use, and compliance with relevant accessibility standards.

Local Sourcing Considerations:

- 1. Indigenous Community Involvement: Whenever possible, materials should be sourced from local Indigenous communities, supporting their economic development and preserving traditional craftsmanship.
- Cultural Significance: Materials that hold cultural significance to the Indigenous
 community should be prioritized, promoting a sense of connection and pride within
 the school environment.
- 3. Environmental Impact: Local sourcing should aim to minimize transportation distances, reducing carbon emissions and supporting regional sustainability.

Recycled or Reclaimed Material Preferences:

- Preference for Recycled Materials: Whenever feasible, materials with recycled content should be selected, reducing the demand for virgin resources and promoting a circular economy.
- Reclaimed Materials: Consideration should be given to incorporating reclaimed materials, such as salvaged wood or repurposed building components, to add character and reduce waste.

Maintenance and Lifecycle Considerations:

- 1. Ease of Maintenance: Materials should be selected with low maintenance requirements, ensuring efficient upkeep and reducing long-term costs.
- 2. Longevity: Emphasis should be placed on materials with a long lifecycle, minimizing the need for frequent replacements and reducing waste generation.
- 3. Adaptability: Materials should allow for future modifications or renovations, enabling the school to adapt to changing needs and technologies.

Conclusion:

The above outlines the criteria for material selection, local sourcing considerations, preferences for recycled or reclaimed materials, and maintenance and lifecycle considerations for the Indigenous School project. By adhering to these guidelines, the school will embody sustainability, cultural sensitivity, and longevity, creating a nurturing and inspiring environment for Indigenous students.

10. Miscellaneous Requirements

The following outlines the remaining requirements for the Wandering Spirit School project. This includes considerations for acoustic design, technology and automation integration, as well as universal design and accessibility considerations. The aim is to create a learning environment that promotes inclusivity, cultural sensitivity, and optimal functionality for all students and staff.

Acoustic Considerations:

- 1. Noise Reduction: Implement soundproofing measures to minimize external noise disturbances and create a conducive learning environment.
- 2. Room Acoustics: Optimize the acoustic properties of classrooms, auditoriums, and common areas to ensure clear communication and minimize reverberation.
- Sound System Integration: Install high-quality audio systems in classrooms and assembly areas to facilitate effective communication and enhance learning experiences.

Technology and Automation:

- 1. Automation Controls: Implement automated systems for lighting, temperature control, and audio-visual equipment to improve operational efficiency and user experience.
- 2. ICT Infrastructure: Design a robust and scalable information and communication technology (ICT) infrastructure to support digital learning, connectivity, and administrative functions.

Universal Design and Accessibility Considerations:

- Inclusive Spaces: Ensure that all areas of the school are designed to accommodate students and staff with diverse abilities, including wheelchair accessibility, ramps, and elevators.
- Assistive Technologies: Incorporate assistive technologies such as braille signage, hearing loops, and adjustable furniture to support students with visual, hearing, or mobility impairments.
- Cultural Sensitivity: Integrate Indigenous cultural elements into the design, such as artwork, storytelling spaces, and traditional gathering areas, while ensuring accessibility for all.

The above outlines the miscellaneous requirements for an Indigenous School project, focusing on acoustic considerations, technology and automation integration, as well as universal design and accessibility considerations. By incorporating these elements, the aim is to create an inclusive, technologically advanced, and culturally sensitive learning environment that caters to the needs of all students and staff.



Front of the School During the Day



Front of the School at Night



Cladding Concept

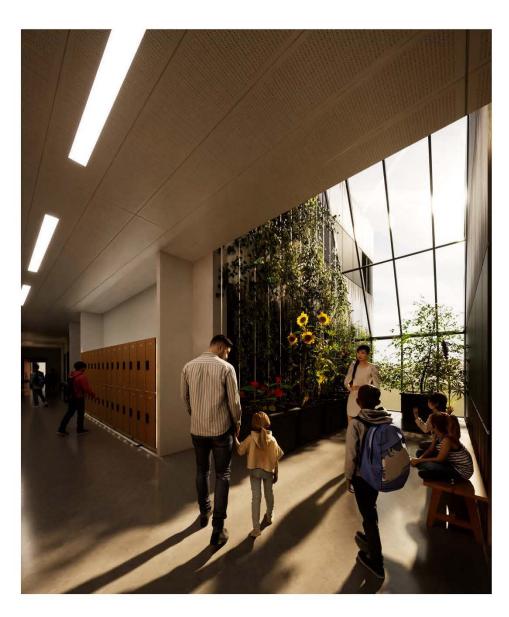


Gathering Space for the Urban Indigenous Education Centre (UIEC)





Appendix D



Interior Greenhouse

MULTIPLE ESTIMATE SUMMARY WANDERING SPIRIT SCHOOL TORONTO



ROUND 2, CLASS D ESTIMATE (Rev.2) OCTOBER 16, 2023

Hard Construction Costs	GFA (m2)	Unit (Cost/m2)	Hard Construction Including Mark-ups	Hard Construction Before Mark-ups	Contractor's General Requirements	Contractor's Fees (OH&P)	Design & Pricing Contingency	Escalation Contingency	Construction Contingency	% of Total
					8.4%	4.0%	12.5%	12.7%	5.0%	
1A TDSB School	5,767	\$6,846	\$39,483,599	\$26,310,302	\$2,215,199	\$1,141,020	\$3,708,315	\$4,228,592	\$1,880,171	75.9%
1B Child Care Centre and EarlyOn	802	\$6,913	\$5,544,125	\$3,694,385	\$311,049	\$160,217	\$520,706	\$593,761	\$264,006	10.7%
2 Site	27,721	\$218	\$6,051,497	\$4,032,477	\$339,515	\$174,880	\$568,359	\$648,100	\$288,167	11.6%
3 Demolition	6,101	\$151	\$919,013	\$612,394	\$51,561	\$26,558	\$86,314	\$98,424	\$43,763	1.8%
Total Estimated Hard Construction Cost	6,569	\$7,916	\$51,998,235	\$34,649,558	\$2,917,324	\$1,502,675	\$4,883,695	\$5,568,877	\$2,476,106	
Imperial Conversion	70,709	\$735	Per SF							

The above cost estimate is an amendment to the full Class D cost report to reflect the scope of demolition and site in Phase1 only.

TDSB Wandering Spirit School

Round 2, Class D Estimate (Rev.1)



Prepared for:

TwO Row Architect - Six Nations Office

Prepared by:



2265 Upper Middle Rd. E Suite 400 Oakville, ON L6H 0G5

T 905.823.8111 F 905.823.5111 info@awhooker.com

www.awhooker.com

October 10, 2023

THE PEOPLE | THE DIFFERENCE*



2265 Upper Middle Rd. E, Suite 400 Oakville, ON, L6H 0G5 T 905.823.8111 F 905.823.5111

info@awhooker.com www.awhooker.com October 10, 2023

Two Row Architect – Six Nations Office 1804 6th Line, Ohsweken Ontario NOA 1M0

Attn: Erik Skouris, BFA, M.Arch

Re: TDSB Wandering Spirit School, Round 2, Class D Estimate (R.1)

Dear Erik,

Please find enclosed our Class D Estimate for the above project. The estimate is based on design drawings and information provided by Two Row Architect – Six Nations Office received on March 15, 2023.

This estimate is meant to reflect the fair market value for the construction of this project; it is not intended to be the prediction of the lowest bid and should be representative of the median bid amount received in a competitive bidding scenario.

We recommend that the owner and/or the design team carefully review the cost estimate report, including line item descriptions, unit price clarifications, exclusions, inclusions and assumptions, contingencies, escalation, and mark-ups. This is to ensure that the design intent is captured within the content of the report.

Please refer to the preamble of our cost report for all exclusions, assumptions, and information pertaining to the estimate.

Requests for modifications of any apparent errors or omissions to this document must be made to A.W. Hooker Associates Ltd. within ten (10) business days of receipt of this estimate. Otherwise, it will be understood that the contents in this estimate have been concurred with and accepted as final version of the cost report.

We trust our work will assist in the decision making process and look forward to our continued involvement in this important project.

Sincerely,

A.W. Hooker Associates Ltd.

Weger Barwari, PQS, C.Tech Senior Quantity Surveyor Sincerely,

A.W. Hooker Associates Ltd

Glenn Hultzer, B.Sc (QS), PQS, MRICS

Partner

Encl. (Round 2, Class D Estimate (R.1) – October 10, 2023)

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1. Introduction to the Estimate

1.1 Project Description

This project involves the demolition of the existing Eastern High School of Commerce and the construction of a new four-storey school with mechanical penthouse. The scope of work includes a gymnasium, pool, multipurpose hall, library, gathering spaces, auditorium, fitness room, child care centre and earlyon, urban indigenous education, and various teaching and related preparation spaces (approximately 9,512 m2 or 102,387 sq. ft.). The project will be taking a three-phase approach: 1) Construct new school 2) Demolition Existing Eastern Commerce 3) Complete Site Work/Landscape.

Site development area 39,858 m2 (429,032 SF).

1.2 Type of Estimate

This Class D Estimate is intended to establish a realistic elemental estimate of the hard construction costs based on the level of design information provided. Detailed quantities have been measured from drawings where possible for the proposed building and associated site development. This estimate reflects our opinion as to the fair market value for the hard construction of this project.

The accuracy of the estimate is based on the documentation provided and design stage is intended to be +/- 25%. This accuracy is based on the definition for Estimate Classifications (Class D) outlined in the *Guide to Cost Predictability in Construction prepared by the Joint Federal Government & an Industry Cost Predictability Taskforce. Contingencies are included to offset the accuracy risk, to the extent that the estimated amount represents the current opinion of the likely fair market value at the time of tender.

The intention of the estimate is not to predict the low bid price received; typically based on historical tender results estimates are more likely to be towards the median value of bids received under competitive conditions. This is a deliberate methodology due to the inherent risk in attempting to predict the low bid and numerous factors which can contribute to lower than anticipated tender submissions which are beyond our control.

*Reference: http://www.cca-acc.com/pdfs/en/CCA/Guide to Cost Predictability.pdf

2. Basis of the Estimate

2.1 General Information

From the design information provided, we have measured quantities where possible and applied typical unit rates for each of the specific elements based on the project specifications. Where specific design information has not been provided, unit rates are based on historical cost data for this type of project. In some instances where design information is limited, we have made reasonable assumptions based on our experience with projects of a similar scope and design. Estimates for mechanical and electrical systems are developed based on historical projects and experience.

Significant changes to the basis of design will impact the estimate value; this is particularly critical where changes are made after the final estimate prior to tender. We recommend that all major design or scope changes be reviewed for their cost, time and constructability impact prior to incorporation in a finalized tender package.

2.2 Location Cost Base

The location cost base for this estimate is Toronto, Ontario.

2.3 Unit Rates

The unit rates in the preparation of the elemental estimate include labour and material, equipment, and subcontractors overheads and profits. We have assumed for pricing purposes that union contractors would perform the work. We have assumed the fair wage policy would be in effect. The unit rates for each of the elements are based on typical mid-range costs for the type of design, construction, and materials proposed.

Unit rates in all estimates combine the material, labour, and equipment components for a single unit cost for ease of presentation. This estimate is not a prediction of low bid. Pricing assumes competitive bidding for every aspect of the work.

2.4 Taxes

Harmonized Sales Tax (HST) is excluded from our estimate.

2.5 Construction Schedule

The estimate has been prepared on the assumption that the work will be performed within the timelines of a normal construction schedule. The duration of the schedule would be based on the work being performed during regular daytime work hours. We have assumed the structural components of the building would be constructed in predominantly non-winter months. No allowances have been included for premium time and after hours work associated with an accelerated construction schedule.

2.6 General Requirements and Fees

The General Requirements for the General Contractor are included as a percentage of the hard construction cost. This estimate of the prime contractor's site overheads includes site supervision and labour, access to the site, site accommodations, site protection, temporary utilities, clean up, equipment, and other miscellaneous project requirements provided by the General Contractor.

The Fee element of the estimate is meant to cover the General Contractor's fee to perform the work. The fee would be based on the competitive nature of the bidding process and the market conditions at the time of tender.

2.7 Bonding and Insurance

We have included the median estimated costs for 50% Performance, 50% Labour and Materials, and 10% bid bonds. These are the traditional bonding requirements commonly requested by the owner. The actual final bonding costs will vary depending on the selected contractors' performance history.

The estimate includes an allowance for general liability and builder's risk insurance based on an average cost per \$1,000 of estimated hard construction costs. The actual insurance costs would be subject to the insurance requirements for the project.

2.8 Procurement

It was assumed for the preparation of this estimate that the project would be tendered to a prequalified list of bidders with a project specific lump sum contract. Pricing is based on competitive tender results with a minimum of four (preferably six tender submissions) at general contractor and major trade level. Pre-qualification with a restrictive list of contractors or subcontractors may result in a higher tendered cost due to the inherent reduction in competitiveness. Tenders receiving two or less submissions (occasionally three) historically tend to have a much higher risk of an overrun in cost when compared to the budget established in an estimate. Ensuring adequate bonafide bidders is a prerequisite for competitive bidding scenarios, on which the estimate is predicated.

2.9 Specifications

Where detailed and comprehensive specifications are unavailable, we have assumed that no onerous special requirements will be applicable to this project. It was assumed that all materials and equipment could be substituted with an alternative product to avoid sole-sourcing which results in a non-competitive market condition.

2.10 Soft Costs

The estimated soft costs have been excluded from this estimate.

3. Contingencies

3.1 Design and Pricing Contingency

A design and pricing contingency has been included in the estimate as a percentage of the hard construction costs including the general requirements and fees. This contingency is meant to cover design and pricing unknowns in the preparation of this estimate and reflect the incomplete nature of the design information provided at the time the estimate is prepared.

The estimate includes the following design and pricing contingencies by discipline:

Design Contingencies							
Architectural	#6	12.5%					
Structural	-	12.5%					
Mechanical	<u>~</u> :	12.5%					
Electrical	= 81	12.5%					
Siteworks	#1	12.5%					

The contingency where included in our estimate is not meant to cover significant additional program space or quality modifications, but rather to provide some flexibility as the design develops. The design contingency typically decreases as the design progresses and more definition and detail is available to refine the basis of the cost estimate. If the owner anticipates significant changes to the basis of design we recommend additional contingency be retained as a reserve for the scope modifications.

3.2 Escalation Contingency

The estimate includes an allowance for escalation. This allowance of is meant to provide for increases in construction costs due to changes in market conditions between the time of the estimate and the potential construction commencement. For projects with a schedule in excess of 12 months, the contingency is based on a timeframe that takes escalation to the midpoint of the construction phase.

Escalation during construction is included in the unit rates; essentially this allowance is the risk carried by the general contractor and trades with a fixed price made years before the work is completed or carried out for some trades.

Escalation	
Assumed Tender Date:	5/1/2024
Duration (months):	36
Construction End Date:	5/1/2026
Mid-Point if excess of 12 months duration	11/1/2026

Year	Assumed Tender Date - Construction End Date	Annual Escalation	# of Months	Monthly %	Total Escalation per annum
2023	Sep 2023 - Dec 2023	8.00%	3	0.67%	2.00%
2024	Jan 2024 - Dec 2024	6.00%	12	0.50%	6.00%
2025	Jan 2025 - May 2025	4.00%	12	0.33%	4.00%
2026	Jan 2026 - Oct 2026	4.00%	10	0.33%	3.33%
	15.33%				

3.3 Construction Contingency (Post Contract Changes)

The estimate includes a contingency for the construction phase of the project. This contingency is meant to cover the potential cost of post contract changes that may occur after the project is tendered.

This allowance of 5% is to provide for increases in construction costs due to Change Orders issued during construction.

This contingency excludes any major program or scope requests by the client; these should form part of an overall project management reserve or be reflected in increased funding.

4. General Liability

4.1 Statement of Probable Costs

A.W. Hooker Associates Ltd. (HOOKER) has no control over the cost of labour and materials, the general contractors or any subcontractors' methods of determining prices, or competitive bidding and market conditions. This opinion of probable cost of construction is based on the experience, qualifications, and best judgment of the professional consultant familiar with the construction industry. HOOKER does not warranty that proposals or actual construction costs will not vary from this or subsequent estimates.

4.2 Ongoing Cost Control

A.W. Hooker Associates Ltd. **recommends** that the owner and/or the design team carefully review the cost estimate report, including line item descriptions, unit price clarifications, exclusions, inclusions and assumptions, contingencies, escalation, and mark-ups. This is to ensure that the design intent is captured within the content of the report. This is especially important at early stage estimates which tend to be based on a lesser level of design completion.

If the project is over budget or there are unresolved budget issues, alternative systems or schemes should ideally be evaluated before proceeding with the design phase. We recommend that cost control be implemented throughout the various stages of the design process to ensure the proposed design remains within the overall budget. It is recommended that the final estimate be produced by HOOKER using Bid Documents to determine overall cost changes, which may have occurred since the preparation of this estimate. The final update estimate will address changes and additions to the documents as well as addenda issued during the bidding process. HOOKER cannot reconcile bid results to any estimate not produced from bid documents including all addenda.

5. Estimate Scope Clarifications

5.1 List of Exclusions

- 1. Harmonized Sales Tax (HST)
- Project Soft Costs (as described in item 2.10 above and shown on Master Estimate Summary)
- 3. Furniture, furnishings, and equipment (except as noted in the estimate)
- 4. Premium time / after hours work
- 5. Accelerated construction schedule
- 6. Abatement and handling of asbestos and other hazardous materials
- 7. Handling and removal of contaminated soils
- 8. Special foundation systems such as caissons or pile foundations
- 9. Premium for construction management or alternate approaches to procurement
- 10. Sole sourced equipment or building control systems

5.2 List of Assumptions

Architectural / Structural / Landscaping:

- The existing soils on the site are adequate to support standard strip and pad foundations to the minimum depth required for frost. No allowances have been made for larger or special foundations such as caissons or piles due to poor soil conditions.
- 2. The existing site is relatively flat and the finished floor and site elevations were set to work with the existing grades to avoid major cut and fill.
- 3. We have allowed for conventional reinforced concrete foundations comprising of strip footings, column pads, walls, stub columns, etc, 1.8m below finish grade due to soil conditions.
- 4. An allowance has been included for winter heating to foundation work, 5 months.
- 5. An allowance has been included for dewatering at pool, assumed 1 months.
- 6. It is assumed that the upper floor and roof construction to be structural steel with separate costing provide for mass timber construction.
- 7. Majority of cladding is assumed to be insulated metal panel with double glazed curtainwall system.
- 8. We have allowed for 2 ply modified bitumen roofing membrane with separate cost for green roof system.
- Interior partitions are assumed to be architectural block with gypsum board partition.
- 10. We have assumed low ranges finishes (i.e. majority of floor finishes to be vct, ceramic tiles at washroom and pool, ACT ceiling, paint finish on walls, etc).
- 11. We have allowed for gym and AV equipment.
- 12. Pool construction is assumed to be concrete.
- 13. Refer to estimate for additional scope and assumptions.



Mechanical:

- 14. Work will be completed by union or fair wage labour
- 15. We have included plumbing fixtures as shown on plans. We have not included for typical TDSB fixture layouts of separate washrooms for kindergarten / day care areas. This would be a premium to our estimate. Please verify our fixture counts are appropriate.
- 16. We have utilized knowledge from working on various TDSB projects to price the base estimate. We have not yet worked on a TDSB net zero facility, however have applied premiums for air source and geo source heat pump systems for heating / cooling in the Separate Estimate Summary for potential costs. The base estimate is designed to TDSB standard (natural gas heating / dx cooling). We have utilized ASHP and GSHP pricing from other projects in our database, as no detailed design is provided.
- 17. Please refer to detailed backup estimate for further assumptions of scope / inclusions

Electrical:

- 18. Work will be performed using union labour during regular working hours.
- 19. An allowance for Utility connection charges of \$85,000 has been included in the estimate.
- 20. Power to the building will be through a 1200A 347/600V main switchboard fed via a secondary feeder from the HYDRO transformer.
- 21. Lighting will generally be provided using LED fixtures.
- 22. Lighting control will generally feature central LV control, occupancy sensors, daylight harvesting and dimming.
- 23. The fire alarm system will be a single stage addressable system with audible and visual signalization.
- 24. Refer to estimate for additional scope and assumptions.

General:

25. Various assumptions have been made based on the design information available and our experience with projects of a similar nature. Please refer to the specific items within the estimate for the detailed assumptions made.

6. Documentation Received

Drawings and design documentation were prepared by the following consultants:

Pages	Documentation Received	Documentation Issued
11 Drawings	2023-09-13_WANDERING SPIRIT SCHOOL-compressed	September 14, 2023
1 File	Revit Model	September 15, 2023
	Email	Various

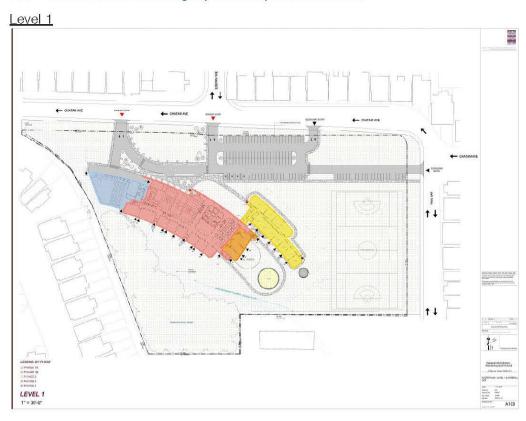
Gross Floor Area Summary 7.

The following gross floor areas of new construction have been measured from floor plan drawings. The areas were measured electronically with a digitizer and checked longhand by dimensioning and scaling. The gross area calculations were performed in accordance with the Standard Method of Measurement published by the Canadian Institute of Quantity Surveyors.

7.1 Summary of New Construction Area

		Gross Floor Area					
Area Description	Floor Elevation	TDSB School	Childcare Centre and EarlyOn	Urban Indigenous Education	Pool Addition	TDSB School Future Addition	Total GFA
Ground Floor	0.0m	3,106	384	1,077	940	0	5,507
Second Floor	4.0m	1,968	390	0	124	76	2,558
Third Floor	8.0m	693	28	O	0	727	1,448
Total Gross Floor Area (square meters)		5,767	802	1,077	1,064	803	9,513
Total Gross Floor Area (square feet)		62,076	8,633	11,593	11,453	8,643	102,398

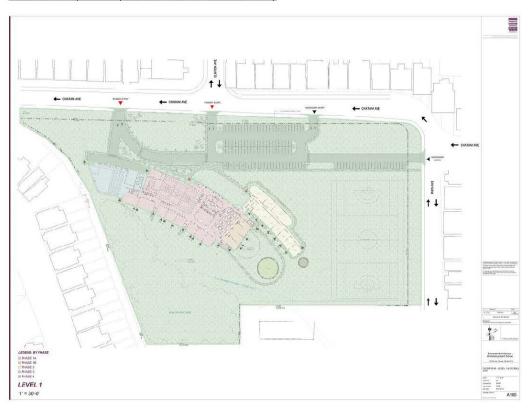
Gross Floor Areas (graphical representations)



Revised cost summary sheet is attached to this report to reflect the cost and GFA for phase 1 only as an amendment to the Full Class D Cost report. Please Refer to the phasing plan for scope of each phase.

Level 2 and 3

Site Development (39,858 m2 or 429,032 SF)



MULTIPLE ESTIMATE SUMMARY WANDERING SPIRIT SCHOOL TORONTO



ROUND 2, CLASS D ESTIMATE (Rev.1) OCTOBER 10, 2023

Hard Construction Costs	GFA (m2)	Unit (Cost/m2)	Estimated Total	% of Total
1A TDSB School	5,767	\$7,008	\$40,416,000	45.9%
1B Child Care Centre and EarlyOn	802	\$7,076	\$5,675,000	6.4%
2 Urban Indigenous Education	1,077	\$5,966	\$6,425,000	7.3%
3 Pool	1,064	\$16,952	\$18,037,000	20.5%
4 TDSB School Future Addition	803	\$3,308	\$2,656,000	3.0%
5 Site	39,858	\$213	\$8,501,000	9.6%
6 Demolition	52,270	\$123	\$6,423,000	7.3%
Total Estimated Hard Construction Cost	9,513	\$9,264	\$88,133,000	
Imperial Conversion	102,398	\$861	Per SF	

Separate Estimates: (Not Included Above)

Revised cost summary sheet is attached to this report to reflect the cost for phase 1 only as an amendment to the Full Class D Cost report

MASTER ESTIMATE SUMMARY WANDERING SPIRIT SCHOOL TORONTO

A.W. HOOKER ® QUANTITY SURVEYORS

ROUND 2, CLASS D ESTIMATE (Rev.1) OCTOBER 10, 2023

			GFA	Unit	Sub	Estimated	% of
	Hard Construction Costs		(m2)	(Cost/m2)	Total	Total	Total
1	Building Shell		9,513	\$2,252.68		\$21,429,766	24.3%
	- Sub Structure		,	\$288.42	\$2,743,747	, , , , , , , , , , , , , , , , , , , ,	
	- Structure			\$952.55	\$9,061,566		
	- Exterior Enclosure			\$1,011.72	\$9,624,453		
2	Building Interiors		9,513	\$1,150.63		\$10,945,928	12.4%
	- Partitions and Doors			\$252.37	\$2,400,840		
	- Finishes			\$350.85	\$3,337,612		
	- Fittings and Equipment			\$547.41	\$5,207,476		
3	Mechanical		9,513	\$1,174.87		\$11,176,572	12.7%
	- Plumbing and Drainage			\$173.17	\$1,647,337		
	- Fire Protection - Heating, Ventilation, Air Conditioning			\$54.40 \$853.95	\$517,507 \$8,123,638		
	- Controls			\$93.36	\$888,090		
					φοσο,σσο		
4	Electrical		9,513	\$431.61		\$4,105,945	4.7%
1	- Service and Distribution			\$133.31	\$1,268,143		
	- Lighting, Devices, and Heating - Systems and Ancillaries			\$151.05 \$147.26	\$1,436,924 \$1,400,879		
	- Systems and Anchianes			53.	Ψ1,400,019		
5	Site Work		9,513	\$581.72		\$5,533,863	6.3%
	- Site Development (prep, surfaces, landscaping)			\$405.54	\$3,857,883		
	- Mechanical Site Services - Electrical Site Services			\$133.65 \$42.52	\$1,271,450 \$404,529		
	- Electrical Site Services				ψ404,323		
6	Ancillary Work		9,513	\$439.57		\$4,181,600	4.7%
	- Demolition - Alterations			\$439.57	\$4,181,600		
	- Alterations			\$0.00	\$0		
7	Contractor's General Requirements	6.0%	9,513	\$507.79		\$4,830,584	5.5%
8	Contractor's Fees (OH&P)	4.0%	9,513	\$261.54		\$2,488,000	2.8%
9	Design & Pricing Contingency	12.5%	9,513	\$850.06		\$8,086,600	9.2%
Ľ	Boolgit a Friend Containguity	12.070	0,010	φοσσ.σσ		φο,σοσ,σσσ	0.270
	Sub Total (current dollars)		9,513	\$7,650.47		\$72,778,900	
10	Escalation Contingency	15.3%	9,513	\$1,172.82		\$11,157,000	12.7%
		. 3.3 70	2,3.0	Ţ.,., <u>Z.</u>		+ , 101 ,000	,0
	Sub Total (including escalation to Q2 2026)		9,513	\$8,823.29		\$83,936,000	
11	Construction Contingency (Post Contract Changes)	5.0%	9,513	\$441.16		\$4,196,800	4.8%
	g, (,		-,	4		.,,	
	Total Estimated Hard Construction Cost		9,513	\$9,264.48		\$88,133,000	
	Imperial Conversion		102.200	\$000.00		Par SE	
	Imperial Conversion		102,398	\$860.69		Per SF	

Estimated Construction Costs (Breakdown by Major Component)	GFA m2	Unit Cost/m2	Estimated Total	% of Total
1 Building	9,513	\$7,695.68	\$73,209,000	83.1%
2 Alterations and Demolition	9,513	\$675.18	\$6,423,000	7.3%
3 Site Work (including M&E site services)	9,513	\$893.62	\$8,501,000	9.6%
4 Soft Costs	9,513	\$0.00	Excluded	0.0%
Total Estimated Hard and Soft Construction Costs	9,513	\$9,264.48	\$88,133,000	
Imperial Conversion	102,398	\$860.69	Per SF	

ITEMIZED AND SEPARATE ESTIMATE SUMMARY WANDERING SPIRIT SCHOOL TORONTO



ROUND 2, CLASS D ESTIMATE (Rev.1) OCTOBER 10, 2023

No. Description	Quant.	Unit	Rate	Sub Total
Separate Estimates: (Not Included Above)				
The Separate costs listed below are EXCLUDED from our estimate. The amount identification mark ups on a prorated basis (General Requirements, Fee and Contingencies).	tified for each	item is incl	lusive of all	
Premium for mass timber wood construction in lieu of structural steel, including glulam columns, glulam beams, and clt decking	1			\$1,231,301
2 Premium for ASHP heating with backup electric boilers in lieu of natural gas heating / domestic water heating. Including electrical power connection with line and load side wiring for ASHP equipment				\$2,458,941
3 Premium for GSHP heating / cooling with backup electric boilers in lieu of natural gas heating / domestic water heating. Including electrical power connection with line and load side wiring for GSHP equipment				\$6,525,173
4 Provisional sum allowance for Irrigation system to green roof c/w valves, drip line, drip elements, controller and the like	•			\$46,084
5 Photovoltaic solar panels on roof (99 units), including roof structure to support additional loading, pv support framing and pv panels, 58.4kW PV system c/w associated infrastructure				\$449,930
6 PV Parking Canopies (106 units) including foundation, structure and pv panels, 32kW PV system c/w associated infrastructure				\$4,321,574
7 Bioswale, assumed 1129m2 including, geotextile, seed and topsoil, rip rap, and culverts				\$459,585
8 Green roofs (281m2 or 3,025 SF)				\$43,165
Sub Total of Separate Estimates				\$15,535,752
Total Itemized and Separate Estimates Cost				\$15,535,752

Revised cost summary sheet is attached to this report to reflect the cost for phase 1 only as an amendment to the Full Class D Cost report

MECHANICAL ESTIMATE SUMMARY **WANDERING SPIRIT SCHOOL TORONTO**

ROUND 2, CLASS D ESTIMATE (Rev.1) OCTOBER 10, 2023

Gross Floor Area 9,513 m2

Description Element\Sub-Element	Specialty Sub Break down	Sub Element Total	Element Total	\$ per m2 Sub Element	\$ per m2 Element	% Element
C1 Mechanical						
C1.1 Plumbing & Drainage			\$1,647,337		\$173.17	13.2%
C1.11 - Plumbing Fixtures C1.12 - Domestic Water C1.13 - Sanitary Waste & Vent C1.14 - Storm C1.15 - Natural Gas C1.16 - Specialty Systems: - C1.16.1 - Irrigation	\$15,000	\$247,338 \$523,215 \$313,929 \$266,364 \$66,591 \$15,000		\$26.00 \$55.00 \$33.00 \$28.00 \$7.00 \$1.58		
C1.17 - Miscellaneous Works and General Accounts	ψ10,000	\$214,900		\$22.59		
C1.2 Fire Protection			\$517,507		\$54.40	4.2%
C1.21 - Standpipe C1.22 - Sprinklers C1.23 - Specialty Systems C1.24 - Fire Extinguisher C1.25 - Miscellaneous Works and General Accounts		\$190,130 \$321,377 \$0 \$6,000 \$0		\$19.99 \$33.78 \$0.00 \$0.63 \$0.00		
C1.3 Heating, Ventilation & Air Conditioning			\$8,123,638		\$853.95	65.3%
C1.31 - Liquid Heat Transfer (Heating) C1.32 - Liquid Heat Transfer (Cooling) C1.33 - Steam and Condensate C1.34 - Air Distribution C1.35 - Exhaust Systems C1.36 - Specialty Systems C1.37 - Support Systems and Works - C1.37.1 - Noise and Vibration Isolation - C1.37.3 - Balancing and Commissioning - C1.37.7 - Pool water heating System	\$83,596 \$190,260			\$160.00 \$0.00 \$0.00 \$503.63 \$15.00 \$23.65 \$40.35		
- C1.37.9 - 24/7 Cooling Systems C1.38 - Miscellaneous Works and General Accounts	\$110,000 \$0			\$111.32		
C1.4 Controls		30.000	\$888,090		\$93.36	7.1%
C1.41 - Controls and Automation C1.42 - Miscellaneous Works and General Accounts		\$888,090 \$0		\$93.36 \$0.00		
Total Building (C1) Mechanical			\$11,176,572		\$1,174.87	Per m2
Imperial Conversion		102,398	SF		\$109.15	Per SF
D1.2 Siteworks - Mechanical Summary					39,858	
D1.2 Site Works			\$1,271,450		\$133.65	10.2%
D1.21 - Water D1.22 - Sanitary D1.23 - Storm D1.24 - Natural Gas D1.25 - Specialty Systems D1.26 - Miscellaneous Works and General Accounts		\$75,000 \$75,000 \$1,071,450 \$0 \$50,000 \$0		\$7.88 \$7.88 \$112.63 \$0.00 \$5.26 \$0.00		
Total Siteworks (D1.2) Mechanical			\$1,271,450		\$133.65	Per m2
Imperial Conversion		429,032	SF		\$2.96	Per SF
Total Building (C1) and Siteworks (D1.2) Mechanical			\$12,448,022	Transfer of the state of the st	\$1,308.53	Per m2
Imperial Conversion		102,398	SF		\$121.57	Per SF

ELECTRICAL ESTIMATE SUMMARY

WANDERING SPIRIT SCHOOL TORONTO

ROUND 2, CLASS D ESTIMATE (Rev.1) OCTOBER 10, 2023

Gross Floor Area 9,513 m2

Description Element\Sub-Element	Sub Element Total	Element Total	\$ per m2 Sub Element	\$ per m2 Element	% Element
C2 Electrical					
C2.1 Service & Distribution		\$1,268,143		\$133.31	28.1%
C2.11 - Main Service C2.12 - Emergency Power C2.13 - Distribution C2.14 - Feeders C2.15 - Motor Controls & Wiring C2.16 - Miscellaneous C2.17 - Electrical Contractors Overhead	\$127,700 \$272,780 \$242,582 \$260,265 \$102,863 \$90,556 \$171,398		\$13.42 \$28.67 \$25.50 \$27.36 \$10.81 \$9.52 \$18.02		
C2.2 Lighting, Devices & Heating		\$1,436,924		\$151.05	31.9%
C2.21 - Lighting C2.22 - Branch Devices & Wiring C2.23 - Heating C2.24 - Electrical Contractors Overhead	\$951,298 \$268,062 \$0 \$217,564		\$100.00 \$28.18 \$0.00 \$22.87		
C2.3 Systems & Ancillaries		\$1,400,879		\$147.26	31.1%
C2.31 - Fire Alarm System C2.32 - Security System C2.33 - Communications C2.34 - P.A. System C2.35 - Miscellaneous C2.36 - Electrical Contractors Overhead	\$216,623 \$247,931 \$307,968 \$186,726 \$237,027 \$204,604		\$22.77 \$26.06 \$32.37 \$19.63 \$24.92 \$21.51		
Total Building (C2) Electrical		\$4,105,945		\$431.61	Per m2
Imperial Conversion	102,398	SF		\$40.10	Per SF
D1.3 Siteworks - Electrical Summary		Site \	Work Area	39,858	m2
D1.3 Electrical Site Services		\$404,529		\$42.52	9.0%
D1.31 - Site - Power D1.32 - Site - Communications D1.33 - Site - Lighting D1.34 - Site - Electrical Contractors Overhead	\$210,986 \$47,839 \$96,400 \$49,304		\$22.18 \$5.03 \$10.13 \$5.18		
Total Siteworks (D1.3) Electrical		\$404,529		\$42.52	Per m2
Imperial Conversion	429,032	SF		\$0.94	Per SF
Total Building (C2) and Siteworks (D1.3) Electrical	į	\$4,510,474	2	\$474.14	Per m2
Imperial Conversion	102,398	SF		\$44.05	Per SF

ELEMENTAL SUMMARY WANDERING SPIRIT SCHOOL TORONTO

ROUND 2, CLASS D ESTIMATE (Rev.1) OCTOBER 10, 2023



Gross Floor Area 9,513 m2 **Elemental Cost** \$ per m2 Unit Sub \$ per m2 % Description Sub Element\Sub-Element Ratio Unit Quantity Element Total Element Rate Element A. SHELL A1. Sub-Structure \$2,743,747 \$288.42 3 1% A1.1 Foundations 0.58 5,507 m2 \$457.85 \$2,521,36 \$265.04 A1.2 Basement Excavation \$222 380 \$23.38 0 24 2 284 m3 \$97.36 \$9.061.566 \$952.55 10.3% A2. Structure A2.1 Lowest Floor Construction 0.58 5,507 m2 \$173.78 \$956,984 \$100.60 A2.2 Upper Floor Construction 4,006 \$939.51 \$3,763,682 \$395.64 0.42 m2 A2.3 Roof Construction 0.58 5,507 \$788.25 \$4,340,900 \$456.31 m2 \$9,624,453 \$1,011.72 10.9% A3. Exterior Enclosure A3 1 Walls Below Grade 0.00 \$0.00 \$0.00 m2 \$0 A3.2 Walls Above Grade 0.57 5,407 m2 \$1,199.02 \$6,482,521 \$681.44 631 m2 A3.3 Windows & Entrances \$1,455.92 \$918,800 \$96.58 0.07 A3.4 Roof Finish 0.58 5,507 m2 \$341.80 \$1,882,292 \$197.87 9,513 m2 \$340,840 A3.5 Projections 1.00 \$35.83 \$35.83 **B. INTERIORS** \$2,400,840 **B1 Partitions & Doors** \$252.37 2 7% **B1.1 Partitions** 6,324 \$258.34 \$1,633,690 \$171.73 m2 B1.2 Doors 289 \$2,655.68 \$767,150 \$80.64 0.03 m2 **B2** Finishes \$3,337,612 \$350.85 3.8% 8,562 \$140.75 **B2 1 Floor Finishes** 0.90 m2 \$1,205,142 \$126.68 **B2.2 Ceiling Finishes** 0.90 8,562 m2 \$82.28 \$704,451 \$74.05 B2.3 Wall Finishes 16,005 \$89.22 \$1,428,019 \$150.11 1.68 **B3 Fittings & Equipment** \$5,207,476 \$547.41 5.9% **B3.1 Fittings & Fixtures** 1.00 9,513 m2 \$151.65 \$1,442,680 \$151.65 9 513 m2 \$378 41 \$3,599,796 \$378 41 **B3.2 Equipment** 1.00 **B3.3 Conveying Systems** 1.00 9,513 m2 \$17.34 \$165,000 \$17.34 C. SERVICES C1 Mechanical \$11,176,572 \$1,174.87 12.7% C1.1 Plumbing & Drainage 1.00 9.513 m2 \$173.17 \$1.647.337 \$173.17 \$517,507 C1.2 Fire Protection 9,513 m2 1.00 \$54.40 \$54.40 C1.3 HVAC 1.00 9,513 m2 \$853.95 \$8,123,638 \$853.95 C1.4 Controls 1.00 9,513 m2 \$93.36 \$888,090 \$93.36 C2 Electrical \$4,105,945 \$431.61 4 7% 9,513 \$133.31 \$1,268,143 \$133.31 C2.1 Service & Distribution 1.00 m2 C2.2 Lighting, Devices & Heating 1.00 9.513 m2 \$151.05 \$1,436,924 \$151.05 C2.3 Systems & Ancillaries 1.00 9,513 m2 \$147.26 \$1,400,879 \$147.26 D. SITE & ANCILLARY WORK D1 Site Work \$5,533,863 \$581.72 6.3% 39.858 m2 \$96.79 \$3,857,883 \$405.54 D1.1 Site Development 4 19 39,858 m2 D1.2 Mechanical Site Services \$1,271,450 \$133.65 4 19 \$31.90 D1.3 Electrical Site Services 4.19 39,858 m2 \$10.15 \$404,529 \$42.52 \$4,181,600 D2 Ancillary Work \$439.57 4.7% D2.1 Demolition 1.00 9,513 m2 \$439.57 \$4,181,600 \$439.57 D2.2 Alterations 0.00 m2 \$0.00 \$0.00 0 \$0 Z. GENERAL REQUIREMENTS & CONTINGENCIES \$7.318.584 \$769.32 8.3% Z1 General Requirements & Fees Z1.1 General Requirements 1.00 9,513 m2 \$507.79 \$4,830,584 \$507.79 Z1.2 Fees 1.00 9,513 m2 \$261.54 \$2,488,000 \$261.54 Z2 Allowances \$23,440,400 \$2,464.04 26.6% Z2.1 Design & Pricing Contingency 9.513 m2 \$850.06 \$8,086,600 \$850.06 1.00 Z2.2 Escalation Contingency 1.00 9,513 m2 \$1,172.82 \$11,157,000 \$1,172.82 **Z2.3 Construction Contingency** 1.00 9,513 m2 \$441.16 \$4,196,800 \$441.16 TOTAL ESTIMATED CONSTRUCTION COST (nearest .000) \$88,133,000 \$9,264 100.0%

No.	Description	Quant. Unit	Rate	Sub Total	Total
	A. SHELL				
	A1.1 SUB-STRUCTURE - Foundations				
	A1.11 - Standard Foundations				
	Note: We have assumed normal soil conditions exist in the proposed building location and that load bearing soil is present at the levels shown on the architectural/structural drawings.				
1	Strip topsoil and stockpile on site		În	cluded in Site	
	TDSB School:				
2	Excavation to foundations	3,258 m3	\$16.00	\$52,128	
3	Backfill with excavated material, assumed 50%	1,548 m3	\$18.00	\$27,855	
4	Backfill with imported granular, assumed 50%	1,548 m3	\$60.00	\$92,850	
5	Dispose excess excavated material off site	1,538 m3	\$25.00	\$38,438	
6	Exterior strip footings, assumed 1200mm x 200mm, including:	178 m	\$277.76		\$49,442
6.1	- hand trim	214 m2	\$10.00	\$2,140	
6.2	- formwork	72 m2	\$240.00	\$17,280	
6.3	- reinforcing steel, assumed 68kg/m3	2.9 TN	\$3,600.00	\$10,440	
6.4	- concrete, 25MPa	43 m3	\$414.00	\$17,802	
6.5	- keyway	178 m	\$10.00	\$1,780	
7	Exterior pad footings, assumed 1400mm x 1400mm x 200mm, including:	39 NO	\$521.48	20	\$20,338
7.1	- hand trim	76 m2	\$10.00	\$764	
7.2	- formwork	44 m2	\$240.00	\$10,483	
7.3	- reinforcing steel, assumed 56kg/m3	0.8 TN	\$3,600.00	\$2,880 \$6.210	
7.4 8	- concrete, 25MPa Interior pad footings, assumed 1200mm x 1200mm x 200mm, including:	15 m3 49 NO	\$414.00 \$421.86	\$6,210	\$20,671
			2002/ACM 2003M	P706	\$20,071
8.1 8.2	- hand trim - formwork	71 m2 47 m2	\$10.00 \$240.00	\$706 \$11,290	
8.3	- reinforcing steel, assumed 56kg/m3	0.8 TN	\$3,600.00	\$2,880	
8.4	- concrete, 25MPa	14 m3	\$414.00	\$5,796	
9	Exterior foundation walls including:	293 m2	\$638.44		\$187,062
9.1	- formwork	586 m2	\$240.00	\$140,640	
9.2	- reinforcing steel, assumed 62kg/m3	4.5 TN	\$3,600.00	\$16,200	
9.3	- concrete, 25MPa	73 m3	\$414.00	\$30,222	
10	Exterior pilasters, assumed 600mm x 600mm x 1400mm, including:	39 NO	\$556.92		\$21,720
	- formwork	14 m2	\$240.00	\$3,360	,
10.1 10.2	- reinforcing, assumed 140kg/m3	2.8 TN	\$3,600.00	\$10,080	
10.3	- concrete, 25MPa	20 m3	\$414.00	\$8,280	
11	Interior piers, assumed 400mm x 400mm x 1000mm, including:	49 NO	\$187.59	* *	\$9,192
11.1	- formwork	8 m2	\$240.00	\$1,920	
11.2	- reinforcing, assumed 140kg/m3	1.1 TN	\$3,600.00	\$3,960	
11.3	- concrete, 25MPa	8 m3	\$414.00	\$3,312	
12	Perimeter weeping tile and granular	178 m	\$60.00	\$10,680	
13	Perimeter insulation	293 m2	\$80.00	\$23,440	
14	Miscellaneous embedded metals	1 LS	\$8,000.00	\$8,000	
		1 NO			
15	Elevator foundations		\$18,000.00	\$18,000	
16	Stair foundations	5 NO	\$12,000.00	\$60,000	
17	Allowance for winter heating, assumed 2 months	1 LS	\$50,000.00	\$50,000	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	Child Care Centre and EarlyON:				
18	Excavation to foundations	1,688 m3	\$16.00	\$27,008	
19	Backfill with excavated material, assumed 50%	789 m3	\$18.00	\$14,202	
20	Backfill with imported granular, assumed 50%	789 m3	\$60.00	\$47,340	
21	Dispose excess excavated material off site	787 m3	\$25.00	\$19,675	
22	Exterior strip footings, assumed 1200mm x 200mm, including:	153 m	\$278.22	[\$42,568
22.1	- hand trim	184 m2	\$10.00	\$1,840	
22.2 22.3	- formwork - reinforcing steel, assumed 68kg/m3	62 m2 2.5 TN	\$240.00 \$3,600.00	\$14,880 \$9,000	
22.4	- concrete, 25MPa	37 m3	\$414.00	\$15,318	
22.5	- keyway	153 m	\$10.00	\$1,530	
23	Exterior pad footings, assumed 1400mm \times 1400mm \times 200mm, including:	18 NO	\$529.40		\$9,529
23.1	- hand trim	35 m2	\$10.00	\$353	
23.2	- formwork	20 m2 0.4 TN	\$240.00	\$4,838	
23.3 23.4	- reinforcing steel, assumed 56kg/m3 - concrete, 25MPa	7 m3	\$3,600.00 \$414.00	\$1,440 \$2,898	
24	Interior pad footings, assumed 1200mm x 1200mm x 200mm, including:	7 NO	\$414.51	[\$2,902
24.1	- hand trim	10 m2	\$10.00	\$101	
24.2	- formwork	7 m2	\$240.00	\$1,613	
24.3 24.4	- reinforcing steel, assumed 56kg/m3 - concrete, 25MPa	0.1 TN 2 m3	\$3,600.00 \$414.00	\$360 \$828	
25	Exterior foundation walls including:	225 m2	\$639.04	,,,,,,	\$143,784
25.1	formunel	450 m2	\$240.00	\$108,000	
25.1	- formwork - reinforcing steel, assumed 62kg/m3	3.5 TN	\$3,600.00	\$12,600	
25.3	- concrete, assumed 250mm, 25MPa	56 m3	\$414.00	\$23,184	
26	Exterior pilasters, assumed $600 mm \times 600 mm \times 1400 mm$, including:	18 NO	\$547.00	[\$9,846
26.1	- formwork	6 m2	\$240.00	\$1,440	
26.2 26.3	- reinforcing, assumed 140kg/m3	1.3 TN 9 m3	\$3,600.00	\$4,680 \$3,726	
	- concrete, 25MPa		\$414.00	\$3,7∠0 F	<u> </u>
27	Interior piers, assumed 400mm x 400mm x 1000mm, including:	7 NO	\$144.86	L	\$1,014
27.1 27.2	- formwork	1 m2 0.1 TN	\$240.00 \$3,600.00	\$240 \$360	
27.2	- reinforcing, assumed 140kg/m3 - concrete, 25MPa	1 m3	\$414.00	\$414	
28	Perimeter weeping tile and granular	153 m	\$60.00	\$9,180	
29	Perimeter insulation	225 m2	\$80.00	\$18,000	
30	Miscellaneous embedded metals	1 LS	\$2,000.00	\$2,000	
31	Stair foundations	1 NO	\$12,000.00	\$12,000	
32	Allowance for winter heating, assumed 0.5 months	1 LS	\$12,500.00	\$12,500	
	Urban Indigenous Education Centre:				
33	Excavation to foundations	575 m3	\$16.00	\$9,200	
34	Backfill with excavated material, assumed 50%	273 m3	\$18.00	\$4,914	
35	Backfill with imported granular, assumed 50%	273 m3	\$60.00	\$16,380	
36	Dispose excess excavated material off site	270 m3	\$25.00	\$6,750	
37	Exterior strip footings, assumed 1200mm x 200mm, including:	33 m	\$278.85		\$9,202
37.1	- hand trim	40 m2	\$10.00	\$400	
37.1	- nand triff - formwork	40 m2	\$240.00	\$3,360	
37.3	- reinforcing steel, assumed 68kg/m3	0.5 TN	\$3,600.00	\$1,800	
37.4 37.5	- concrete, 25MPa	8 m3 33 m	\$414.00 \$10.00	\$3,312 \$330	
J1.J	- keyway	33 III	φ10.00	\$330	

14 may	No.	Description	Quant. Unit	Rate	Sub Total	Total
38.2 -formwork	38	Exterior pad footings, assumed 1400mm x 1400mm x 200mm, including:	7 NO	\$568.69	[\$3,981
38.3 - centroring steel, assumed 56kg/m3 3.2 TN \$3,80.00 \$72.0	38.1	- hand trim	14 m2	\$10.00	\$137	
184	38.2	- formwork	8 m2	\$240.00	\$1,882	
Interior pad footings, assumed 1200mm x 1200mm x 200mm, including: 30.1	38.3	- reinforcing steel, assumed 56kg/m3	0.2 TN	\$3,600.00	\$720	
1	38.4	- concrete, 25MPa	3 m3	\$414.00	\$1,242	
39.2 -formwork	39	Interior pad footings, assumed 1200mm x 1200mm x 200mm, including:	8 NO	\$393.30	[\$3,146
39.3 -reinforcing steel, assumed 56kg/m3 2 m3 \$34,00 \$350				202	50 S	
Second Color				100 500		
### Exterior foundation walls including: ### 108 m2						
108 m2 \$240,00 \$25,920 \$3,200	39.4	- concrete, 25MPa	2 m3	\$414.00	\$828	
10.2 - reinforcing steel, assumed 62kg/m3 14 m3 \$414.00 \$5.796 Exterior pliasters, assumed 600mm x 600mm x 1400mm, including: 7 NO \$648.00 \$4.536 11.	40	Exterior foundation walls including:	54 m2	\$647.33	[\$34,956
40.3 -concrete, assumed 250mm, 25MPa	40.1	- formwork	108 m2	\$240.00	\$25,920	
### Exterior pilasters, assumed 600mm x 600mm x 1400mm, including: ### 7 NO \$848.00 \$1.536 ### 3 \$240.00 \$7.20 ### 3 \$240.00 \$2.160 ### 3 \$140.00 \$1.556 ### 3 \$140.00 \$1.556 ### 3 \$140.00 \$1.556 ### 3 \$141.00 \$1.556 ### 3 \$141.00 \$1.556 ### 3 \$141.00 \$1.556 ### 3 \$141.00 \$1.556 ### 3 \$141.00 \$1.556 ### 3 \$141.00 \$1.556 ### 3 \$141.00 \$1.556 ### 3 \$141.00 \$1.556 ### 3 \$14.00 \$1.556 ### 3 \$14.00 \$1.556 ### 3 \$14.00 \$1.556 ### 3 \$1.014 ### 42.1 - formwork ### 42.1 - formwork ### 42.2 - reinforcing, assumed 140kg/m3 \$1.011 ### 42.3 - concrete, 25MPa ### 42.4 Perimeter weeping tile and granular ### 43.3 ### 4.00 \$1.00 \$1.00 ### 4.00 \$1.00 ### 4.00 \$1.00 ### 4.00 \$1.00 ### 4.00 \$1.00 ### 4.00 \$1.00 ### 4.00 \$1.00 ### 4.00						
41.1	40.3	- concrete, assumed 250mm, 25MPa	14 m3	\$414.00	\$5,796	
1.1	41	Exterior pilasters, assumed 600mm x 600mm x 1400mm, including:	7 NO	\$648.00	[\$4,536
1.1	41.1	- formwork	3 m2	\$240.00	\$720	
A m3						
42.1						
Perimeter weeping tile and granular Samued 140kg/m3 Samued 1	42	Interior piers, assumed 400mm x 400mm x 1000mm, including:	8 NO	\$126.75	[\$1,014
Perimeter weeping tile and granular Samued 140kg/m3 Samued 1	10.1	5	1	¢240.00	6240	
42.3 -concrete, 25MPa						
Perimeter weeping tile and granular 33 m \$60,00 \$1,980						
44 Perimeter insulation \$4 m2 \$80.00 \$4,320 45 Miscellaneous embedded metals 1 LS \$2,000.00 \$2,000 46 Allowance for winter heating, assumed 0.5 months 1 LS \$12,500.00 \$12,500 Pool: 47 Excavation to foundations 1,356 m3 \$16.00 \$21,696 48 Backfill with excavated material, assumed 50% 643 m3 \$18.00 \$11,574 49 Backfill with imported granular, assumed 50% 643 m3 \$60.00 \$38,580 50 Dispose excess excavated material off site 639 m3 \$25.00 \$15,975 51 Exterior strip footings, assumed 1200mm x 200mm, including: 80 m \$274.83 \$21,986 51.1 - hand trim 96 m2 \$10.00 \$960 51.2 - formwork 32 m2 \$240.00 \$7,880 51.3 - reinforcing steel, assumed 68kg/m3 1.3 TN \$3,600.00 \$4,880 51.5 - keyway 80 m \$10.00 \$966 52.2 - formwork 20 m2 \$240.00 \$4,880 52.1		and the second contract of the second contrac				
Miscellaneous embedded metals 1 LS \$2,000.00 \$2,000		Perimeter weeping tile and granular		15 31	12 to	
Allowance for winter heating, assumed 0.5 months Pool: Texavation to foundations 1,356 m3 \$16.00 \$21,696 8 Backfill with excavated material, assumed 50% 643 m3 \$18.00 \$11,574 9 Backfill with imported granular, assumed 50% 643 m3 \$60.00 \$38,580 50 Dispose excess excavated material off site 639 m3 \$25.00 \$15,975 51 Exterior strip footings, assumed 1200mm x 200mm, including: 80 m \$274.83 \$21,986 51.1 - hand trim 96 m2 \$10.00 \$960 51.2 - formwork 32 m2 \$240.00 \$7,880 51.3 - reinforcing steel, assumed 68kg/m3 1.3 TN \$3,000.00 \$4,680 51.5 - keyway 80 m \$10.00 \$800 \$50.00 \$4,680 \$50.0	44	Perimeter insulation	54 m2	\$80.00	\$4,320	
Pool:	45	Miscellaneous embedded metals	1 LS	\$2,000.00	\$2,000	
Excavation to foundations	46	Allowance for winter heating, assumed 0.5 months	1 LS	\$12,500.00	\$12,500	
Backfill with excavated material, assumed 50% Backfill with imported granular, assumed 1200mm x 200mm, including: Backfill with imported granular, assumed 1200mm x 1200mm x 1200mm, including: Backfill with imported granular, assumed 50% Backfill with imported granular, assumed 1200mm x 1200mm x 200mm, including: Backfill with imported granular, assumed 50% Backfill with imported granular, assumed 50% Backfill with imported granular, assumed 50% Backfill with imported gaune samed gaune		Pool:				
Backfill with imported granular, assumed 50% 643 m3 \$60.00 \$38,580	47	Excavation to foundations	1,356 m3	\$16.00	\$21,696	
50 Dispose excess excavated material off site 639 m3 \$25.00 \$15,975 51 Exterior strip footings, assumed 1200mm x 200mm, including: 80 m \$274.83 \$21,986 51.1 - hand trim 96 m2 \$10.00 \$960 51.2 - formwork 32 m2 \$240.00 \$7,880 51.3 - reinforcing steel, assumed 68kg/m3 1.3 TN \$3,600.00 \$4,880 51.4 - concrete, 25MPa 19 m3 \$414.00 \$7,866 51.5 - keyway 80 m \$10.00 \$800 52 Exterior pad footings, assumed 1400mm x 1400mm x 200mm, including: 18 NO \$529.40 \$9,529 52.1 - hand trim 35 m2 \$10.00 \$353 52.2 - formwork 20 m2 \$240.00 \$4,838 52.3 - reinforcing steel, assumed 56kg/m3 0.4 TN \$3,600.00 \$1,440 52.4 - concrete, 25MPa 7 m3 \$414.00 \$2,898 53 Interior pad footings, assumed 1200mm x 1200mm x 200mm, including: 15 NO \$403.20 <td>48</td> <td>Backfill with excavated material, assumed 50%</td> <td>643 m3</td> <td>\$18.00</td> <td>\$11,574</td> <td></td>	48	Backfill with excavated material, assumed 50%	643 m3	\$18.00	\$11,574	
51 Exterior strip footings, assumed 1200mm x 200mm, including: 80 m \$274.83 \$21,986 51.1 - hand trim 96 m2 \$10.00 \$960 51.2 - formwork 32 m2 \$240.00 \$7,680 51.3 - reinforcing steel, assumed 68kg/m3 1.3 TN \$3,600.00 \$4,680 51.4 - concrete, 25MPa 19 m3 \$414.00 \$7,866 51.5 - keyway 80 m \$10.00 \$800 52 Exterior pad footings, assumed 1400mm x 1400mm x 200mm, including: 18 NO \$529.40 \$9,529 52.1 - hand trim 35 m2 \$10.00 \$353 52.2 - formwork 20 m2 \$240.00 \$4,838 52.3 - reinforcing steel, assumed 56kg/m3 0.4 TN \$3,600.00 \$1,440 52.4 - concrete, 25MPa 7 m3 \$414.00 \$2,898 53 Interior pad footings, assumed 1200mm x 1200mm x 200mm, including: 15 NO \$403.20 \$6,048 53.1 - hand trim 22 m2 \$10.00 \$34.60 53.2 - formwork 22 m2 \$10.00 \$3,456<	49	Backfill with imported granular, assumed 50%	643 m3	\$60.00	\$38,580	
51.1 - hand trim 96 m2 \$10.00 \$960 51.2 - formwork 32 m2 \$240.00 \$7,680 51.3 - reinforcing steel, assumed 68kg/m3 1.3 TN \$3,600.00 \$4,680 51.4 - concrete, 25MPa 19 m3 \$414.00 \$7,866 51.5 - keyway 80 m \$10.00 \$800 52 Exterior pad footings, assumed 1400mm x 1400mm x 200mm, including: 18 NO \$529.40 \$9,529 52.1 - hand trim 35 m2 \$10.00 \$353 52.2 - formwork 20 m2 \$240.00 \$4,838 52.3 - reinforcing steel, assumed 56kg/m3 0.4 TN \$3,600.00 \$1,440 52.4 - concrete, 25MPa 7 m3 \$414.00 \$2,898 53 Interior pad footings, assumed 1200mm x 1200mm x 200mm, including: 15 NO \$403.20 \$6,048 53.1 - hand trim 22 m2 \$10.00 \$3,456 53.2 - formwork 14 m2 \$240.00 \$3,456 53.3 - reinforcing steel, assumed 56kg/m3 0.2 TN \$3,600.00 \$720 </td <td>50</td> <td>Dispose excess excavated material off site</td> <td>639 m3</td> <td>\$25.00</td> <td>\$15,975</td> <td></td>	50	Dispose excess excavated material off site	639 m3	\$25.00	\$15,975	
51.2 - formwork 32 m2 \$240.00 \$7,680 51.3 - reinforcing steel, assumed 68kg/m3 1.3 TN \$3,600.00 \$4,680 51.4 - concrete, 25MPa 19 m3 \$414.00 \$7,866 51.5 - keyway 80 m \$10.00 \$800 52 Exterior pad footings, assumed 1400mm x 1400mm x 200mm, including: 18 NO \$529.40 \$9,529 52.1 - hand trim 35 m2 \$10.00 \$353 52.2 - formwork 20 m2 \$240.00 \$4,838 52.3 - reinforcing steel, assumed 56kg/m3 0.4 TN \$3,600.00 \$1,440 52.4 - concrete, 25MPa 7 m3 \$414.00 \$2,898 53 Interior pad footings, assumed 1200mm x 1200mm x 200mm, including: 15 NO \$403.20 \$6,048 53.1 - hand trim 22 m2 \$10.00 \$216 53.2 - formwork 24 m2 \$10.00 \$3,456 53.3 - reinforcing steel, assumed 56kg/m3 0.2 TN \$3,600.00 \$720	51	Exterior strip footings, assumed 1200mm x 200mm, including:	80 m	\$274.83]	\$21,986
51.2 - formwork 32 m2 \$240.00 \$7,680 51.3 - reinforcing steel, assumed 68kg/m3 1.3 TN \$3,600.00 \$4,680 51.4 - concrete, 25MPa 19 m3 \$414.00 \$7,866 51.5 - keyway 80 m \$10.00 \$800 52 Exterior pad footings, assumed 1400mm x 1400mm x 200mm, including: 18 NO \$529.40 \$9,529 52.1 - hand trim 35 m2 \$10.00 \$353 52.2 - formwork 20 m2 \$240.00 \$4,838 52.3 - reinforcing steel, assumed 56kg/m3 0.4 TN \$3,600.00 \$1,440 52.4 - concrete, 25MPa 7 m3 \$414.00 \$2,898 53 Interior pad footings, assumed 1200mm x 1200mm x 200mm, including: 15 NO \$403.20 \$6,048 53.1 - hand trim 22 m2 \$10.00 \$216 53.2 - formwork 24 m2 \$10.00 \$3,456 53.3 - reinforcing steel, assumed 56kg/m3 0.2 TN \$3,600.00 \$720	51.1	hand trim	96 m2	\$10.00	\$960	
51.3 - reinforcing steel, assumed 68kg/m3 1.3 TN \$3,600.00 \$4,680 51.4 - concrete, 25MPa 19 m3 \$414.00 \$7,866 51.5 - keyway 80 m \$10.00 \$800 52 Exterior pad footings, assumed 1400mm x 1400mm x 200mm, including: 18 NO \$529.40 \$9,529 52.1 - hand trim 35 m2 \$10.00 \$353 52.2 - formwork 20 m2 \$240.00 \$4,838 52.3 - reinforcing steel, assumed 56kg/m3 0.4 TN \$3,600.00 \$1,440 52.4 - concrete, 25MPa 7 m3 \$414.00 \$2,898 53 Interior pad footings, assumed 1200mm x 1200mm x 200mm, including: 15 NO \$403.20 \$6,048 53.1 - hand trim 22 m2 \$10.00 \$216 53.2 - formwork 14 m2 \$240.00 \$3,456 53.3 - reinforcing steel, assumed 56kg/m3 0.2 TN \$3,600.00 \$720						
51.4 - concrete, 25MPa 19 m3 \$414.00 \$7,866 51.5 - keyway 80 m \$10.00 \$800 52 Exterior pad footings, assumed 1400mm x 1400mm x 200mm, including: 18 NO \$529.40 \$9,529 52.1 - hand trim 35 m2 \$10.00 \$353 52.2 - formwork 20 m2 \$240.00 \$4,838 52.3 - reinforcing steel, assumed 56kg/m3 0.4 TN \$3,600.00 \$1,440 52.4 - concrete, 25MPa 7 m3 \$414.00 \$2,898 53 Interior pad footings, assumed 1200mm x 1200mm x 200mm, including: 15 NO \$403.20 \$6,048 53.1 - hand trim 22 m2 \$10.00 \$216 53.2 - formwork 14 m2 \$240.00 \$3,456 53.3 - reinforcing steel, assumed 56kg/m3 0.2 TN \$3,600.00 \$720						
51.5 - keyway 80 m \$10.00 \$800 52 Exterior pad footings, assumed 1400mm x 1400mm x 200mm, including: 18 NO \$529.40 \$9,529 52.1 - hand trim 35 m2 \$10.00 \$353 52.2 - formwork 20 m2 \$240.00 \$4,838 52.3 - reinforcing steel, assumed 56kg/m3 0.4 TN \$3,600.00 \$1,440 52.4 - concrete, 25MPa 7 m3 \$414.00 \$2,898 53 Interior pad footings, assumed 1200mm x 1200mm x 200mm, including: 15 NO \$403.20 \$6,048 53.1 - hand trim 22 m2 \$10.00 \$216 53.2 - formwork 14 m2 \$240.00 \$3,456 53.3 - reinforcing steel, assumed 56kg/m3 0.2 TN \$3,600.00 \$720						
52.1 - hand trim 35 m2 \$10.00 \$353 52.2 - formwork 20 m2 \$240.00 \$4,838 52.3 - reinforcing steel, assumed 56kg/m3 0.4 TN \$3,600.00 \$1,440 52.4 - concrete, 25MPa 7 m3 \$414.00 \$2,898 53 Interior pad footings, assumed 1200mm x 1200mm x 200mm, including: 15 NO \$403.20 \$6,048 53.1 - hand trim 22 m2 \$10.00 \$216 53.2 - formwork 14 m2 \$240.00 \$3,456 53.3 - reinforcing steel, assumed 56kg/m3 0.2 TN \$3,600.00 \$720						
52.2 - formwork 20 m2 \$240.00 \$4,838 52.3 - reinforcing steel, assumed 56kg/m3 0.4 TN \$3,600.00 \$1,440 52.4 - concrete, 25MPa 7 m3 \$414.00 \$2,898 53 Interior pad footings, assumed 1200mm x 1200mm x 200mm, including: 15 NO \$403.20 \$6,048 53.1 - hand trim 22 m2 \$10.00 \$216 53.2 - formwork 14 m2 \$240.00 \$3,456 53.3 - reinforcing steel, assumed 56kg/m3 0.2 TN \$3,600.00 \$720	52	Exterior pad footings, assumed 1400mm x 1400mm x 200mm, including:	18 NO	\$529.40	[\$9,529
52.2 - formwork 20 m2 \$240.00 \$4,838 52.3 - reinforcing steel, assumed 56kg/m3 0.4 TN \$3,600.00 \$1,440 52.4 - concrete, 25MPa 7 m3 \$414.00 \$2,898 53 Interior pad footings, assumed 1200mm x 1200mm x 200mm, including: 15 NO \$403.20 \$6,048 53.1 - hand trim 22 m2 \$10.00 \$216 53.2 - formwork 14 m2 \$240.00 \$3,456 53.3 - reinforcing steel, assumed 56kg/m3 0.2 TN \$3,600.00 \$720	52.1	- hand trim	35 m2	\$10.00	\$353	
52.3 - reinforcing steel, assumed 56kg/m3 0.4 TN 7 m3 \$3,600.00 \$1,440 \$2,898 52.4 - concrete, 25MPa 7 m3 \$414.00 \$2,898 53 Interior pad footings, assumed 1200mm x 1200mm x 200mm, including: 15 NO \$403.20 \$6,048 53.1 - hand trim 22 m2 \$10.00 \$216 53.2 - formwork 14 m2 \$240.00 \$3,456 53.3 - reinforcing steel, assumed 56kg/m3 0.2 TN \$3,600.00 \$720						
52.4 - concrete, 25MPa 7 m3 \$414.00 \$2,898 53 Interior pad footings, assumed 1200mm x 1200mm x 200mm, including: 15 NO \$403.20 \$6,048 53.1 - hand trim 22 m2 \$10.00 \$216 53.2 - formwork 14 m2 \$240.00 \$3,456 53.3 - reinforcing steel, assumed 56kg/m3 0.2 TN \$3,600.00 \$720						
53.1 - hand trim 22 m2 \$10.00 \$216 53.2 - formwork 14 m2 \$240.00 \$3,456 53.3 - reinforcing steel, assumed 56kg/m3 0.2 TN \$3,600.00 \$720						
53.2 - formwork 14 m2 \$240.00 \$3,456 53.3 - reinforcing steel, assumed 56kg/m3 0.2 TN \$3,600.00 \$720	53	Interior pad footings, assumed 1200mm x 1200mm x 200mm, including:	15 NO	\$403.20	[\$6,048
53.3 - reinforcing steel, assumed 56kg/m3 0.2 TN \$3,600.00 \$720		- hand trim	22 m2	\$10.00	\$216	
		- formwork				
53.4 - concrete, 25MPa 4 m3 \$414.00 \$1,656						
	53.4	- concrete, 25MPa	4 m3	\$414.00	\$1,656	

	Description	Quant. Unit	Rate	Sub Total	Total
54	Exterior foundation walls including:	133 m2	\$636.86		\$84,702
54.1	- formwork	266 m2	\$240.00	\$63,840	
4.2	- reinforcing steel, assumed 62kg/m3	2.0 TN	\$3,600.00	\$7,200	
4.3	- concrete, assumed 250mm, 25MPa	33 m3	\$414.00	\$13,662	
55	Exterior pilasters, assumed 600mm x 600mm x 1400mm, including:	18 NO	\$547.00		\$9,846
5.1	- formwork	6 m2	\$240.00	\$1,440	
5.2	- reinforcing, assumed 140kg/m3	1.3 TN	\$3,600.00	\$4,680	
5.3	- concrete, 25MPa	9 m3	\$414.00	\$3,726	
6	Interior piers, assumed 400mm x 400mm x 1000mm, including:	15 NO	\$159.20		\$2,388
6.1	- formwork	2 m2	\$240.00	\$480	
6.2	- reinforcing, assumed 140kg/m3	0.3 TN	\$3,600.00	\$1,080	
6.3	- concrete, 25MPa	2 m3	\$414.00	\$828	
57	Perimeter weeping tile and granular	80 m	\$60.00	\$4,800	
58	Perimeter insulation	133 m2	\$8,000.00	\$1,064,000	
59	Miscellaneous embedded metals	1 LS	\$4,000.00	\$4,000	
30	Allowance for winter heating, assumed 2 months	1 LS	\$50,000.00	\$50,000	
	A1.12 - Special Foundations				
31	NIL				
	TOTAL FOR SUB-STRUCTURE - Foundations	0.58 5,507 m2	\$457.85	\$2,521,367	
	A1.2 SUB-STRUCTURE - Basement Excavation				
	A1.2 SUB-STRUCTURE - Basement Excavation Pool:				
32	<u>Pool:</u>	1.356 m3	\$16.00	\$21.696	
	Pool: Bulk excavation to pool	1,356 m3 928 m3	\$16.00 \$18.00	\$21,696 \$16.704	
62 63 64	Pool: Bulk excavation to pool Trench excavation to perimeter	928 m3	\$18.00	\$16,704	
63 64	Pool: Bulk excavation to pool Trench excavation to perimeter Backfill trench with imported material, assumed 100%	928 m3 928 m3	\$18.00 \$60.00	\$16,704 \$55,680	
63 64 65	Pool: Bulk excavation to pool Trench excavation to perimeter Backfill trench with imported material, assumed 100% Dispose excess excavated material off site	928 m3 928 m3 2,284 m3	\$18.00 \$60.00 \$25.00	\$16,704 \$55,680 \$57,100	
63 64 65 66	Pool: Bulk excavation to pool Trench excavation to perimeter Backfill trench with imported material, assumed 100% Dispose excess excavated material off site Allowance for dewatering, 2 months	928 m3 928 m3 2,284 m3 1 LS	\$18.00 \$60.00 \$25.00 \$20,000.00	\$16,704 \$55,680 \$57,100 \$20,000	
63 64 65 66 67	Pool: Bulk excavation to pool Trench excavation to perimeter Backfill trench with imported material, assumed 100% Dispose excess excavated material off site	928 m3 928 m3 2,284 m3	\$18.00 \$60.00 \$25.00	\$16,704 \$55,680 \$57,100	
63 64 65 66 67 67.1	Pool: Bulk excavation to pool Trench excavation to perimeter Backfill trench with imported material, assumed 100% Dispose excess excavated material off site Allowance for dewatering, 2 months Dewatering, assumed minor, including: - discharge of Water Permit	928 m3 928 m3 2,284 m3 1 LS 26 days	\$18.00 \$60.00 \$25.00 \$20,000.00 \$1,933.86	\$16,704 \$55,680 \$57,100 \$20,000	
53 54 55 56 57 57.1 57.2	Pool: Bulk excavation to pool Trench excavation to perimeter Backfill trench with imported material, assumed 100% Dispose excess excavated material off site Allowance for dewatering, 2 months Dewatering, assumed minor, including: - discharge of Water Permit - mobilization / demobilization	928 m3 928 m3 2,284 m3 1 LS 26 days	\$18.00 \$60.00 \$25.00 \$20,000.00 \$1,933.86	\$16,704 \$55,680 \$57,100 \$20,000	
53 54 55 66 57 57.1 57.2 57.3	Pool: Bulk excavation to pool Trench excavation to perimeter Backfill trench with imported material, assumed 100% Dispose excess excavated material off site Allowance for dewatering, 2 months Dewatering, assumed minor, including: - discharge of Water Permit - mobilization / demobilization - building dewatering system installation - building dewatering system rental (pump + manifold + fittings + connection +	928 m3 928 m3 2,284 m3 1 LS 26 days	\$18.00 \$60.00 \$25.00 \$20,000.00 \$1,933.86	\$16,704 \$55,680 \$57,100 \$20,000	
63 64 65 66 67 67.1 67.2 67.3	Pool: Bulk excavation to pool Trench excavation to perimeter Backfill trench with imported material, assumed 100% Dispose excess excavated material off site Allowance for dewatering, 2 months Dewatering, assumed minor, including: - discharge of Water Permit - mobilization / demobilization - building dewatering system installation - building dewatering system rental (pump + manifold + fittings + connection + filtration tank + monitoring + maintenance (daily site maintenance)	928 m3 928 m3 2,284 m3 1 LS 26 days	\$18.00 \$60.00 \$25.00 \$20,000.00 \$1,933.86	\$16,704 \$55,680 \$57,100 \$20,000	
63 64 65 66 67 67.1 67.2 67.3 67.4	Pool: Bulk excavation to pool Trench excavation to perimeter Backfill trench with imported material, assumed 100% Dispose excess excavated material off site Allowance for dewatering, 2 months Dewatering, assumed minor, including: - discharge of Water Permit - mobilization / demobilization - building dewatering system installation - building dewatering system rental (pump + manifold + fittings + connection + filtration tank + monitoring + maintenance (daily site maintenance) - treatment for water mobilization / demobilization	928 m3 928 m3 2,284 m3 1 LS 26 days	\$18.00 \$60.00 \$25.00 \$20,000.00 \$1,933.86	\$16,704 \$55,680 \$57,100 \$20,000	
63 64 65 66 67 67.1 67.2 67.3 67.4 67.5 67.6	Pool: Bulk excavation to pool Trench excavation to perimeter Backfill trench with imported material, assumed 100% Dispose excess excavated material off site Allowance for dewatering, 2 months Dewatering, assumed minor, including: - discharge of Water Permit - mobilization / demobilization - building dewatering system installation - building dewatering system rental (pump + manifold + fittings + connection + filtration tank + monitoring + maintenance (daily site maintenance) - treatment for water mobilization / demobilization - discharge of water (assumed no charge for sanitary sewer discharge) - treatment of water (assumed a carbon treatment process that meets sanitary	928 m3 928 m3 2,284 m3 1 LS 26 days	\$18.00 \$60.00 \$25.00 \$20,000.00 \$1,933.86	\$16,704 \$55,680 \$57,100 \$20,000 \$51,200	
63 64 65 66 67 67.1 67.2 67.3 67.4 67.5 67.6	Pool: Bulk excavation to pool Trench excavation to perimeter Backfill trench with imported material, assumed 100% Dispose excess excavated material off site Allowance for dewatering, 2 months Dewatering, assumed minor, including: - discharge of Water Permit - mobilization / demobilization - building dewatering system installation - building dewatering system rental (pump + manifold + fittings + connection + filtration tank + monitoring + maintenance (daily site maintenance) - treatment for water mobilization / demobilization - discharge of water (assumed no charge for sanitary sewer discharge)	928 m3 928 m3 2,284 m3 1 LS 26 days	\$18.00 \$60.00 \$25.00 \$20,000.00 \$1,933.86	\$16,704 \$55,680 \$57,100 \$20,000 \$51,200	
63 64 65 66 67	Pool: Bulk excavation to pool Trench excavation to perimeter Backfill trench with imported material, assumed 100% Dispose excess excavated material off site Allowance for dewatering, 2 months Dewatering, assumed minor, including: - discharge of Water Permit - mobilization / demobilization - building dewatering system installation - building dewatering system rental (pump + manifold + fittings + connection + filtration tank + monitoring + maintenance (daily site maintenance) - treatment for water mobilization / demobilization - discharge of water (assumed no charge for sanitary sewer discharge) - treatment of water (assumed a carbon treatment process that meets sanitary	928 m3 928 m3 2,284 m3 1 LS 26 days	\$18.00 \$60.00 \$25.00 \$20,000.00 \$1,933.86	\$16,704 \$55,680 \$57,100 \$20,000 \$51,200	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	A2.1 STRUCTURE - Lowest Floor Construction				
	TDSB School:				
68	Level and compact subgrade	3,106 m2	\$5.00	\$15,530	
39	Concrete slab on grade at change rooms, including:	3,106 m2	\$128.71	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$399,78
59.1 59.2 59.3 59.4	- granular sub base, assumed 200mm - air vapour barrier - wire mesh reinforcing	621 m3 3,106 m2 3,106 m2 388 m3	\$60.00 \$15.00 \$25.00 \$414.00	\$37,260 \$46,590 \$77,650 \$160,632	
9.5 9.6	 concrete, assumed 125mm thick, 25MPa screed and cure steel trowel finish 	3,106 m2 3,106 m2	\$15.00 \$10.00	\$46,590 \$31,060	
70	Allowance for slab thickening at CMU walls	408 m	\$200.00	\$81,600	
1	Pits and trenches	1 LS	\$8,000.00	\$8,000	
2	Curbs and pads for mechanical equipment	1 LS	\$15,000.00	\$15,000	
	Child Care Centre and EarlyON:				
73	Level and compact subgrade	384 m2	\$5.00	\$1,920	
' 4	Concrete slab on grade at change rooms, including:	384 m2	\$128.78		\$49,45
4.1 4.2 4.3 4.4 4.5	- granular sub base, assumed 200mm - air vapour barrier - wire mesh reinforcing - concrete, assumed 125mm thick, 25MPa - screed and cure - steel trowel finish	77 m3 384 m2 384 m2 48 m3 384 m2 384 m2	\$60.00 \$15.00 \$25.00 \$414.00 \$15.00 \$10.00	\$4,620 \$5,760 \$9,600 \$19,872 \$5,760 \$3,840	
75	Allowance for slab thickening at CMU walls	100 m	\$200.00	\$20,000	
6	Pits and trenches	1 LS	\$2,000.00	\$2,000	
	Urban Indigenous Education Centre:				
7	Level and compact subgrade	1,077 m2	\$5.00	\$5,385	
8	Concrete slab on grade at change rooms, including:	1,077 m2	\$128.87		\$138,7
8.1 8.2 8.3 8.4 8.5 8.6	- granular sub base, assumed 200mm - air vapour barrier - wire mesh reinforcing - concrete, assumed 125mm thick, 25MPa - screed and cure - steel trowel finish	215 m3 1,077 m2 1,077 m2 135 m3 1,077 m2 1,077 m2	\$60.00 \$15.00 \$25.00 \$414.00 \$15.00 \$10.00	\$12,900 \$16,155 \$26,925 \$55,890 \$16,155 \$10,770	
9	Allowance for slab thickening at CMU walls	216 m	\$200.00	\$43,200	
0	Pits and trenches	1 LS	\$2,000.00	\$2,000	
1	Curbs and pads for mechanical equipment	1 LS	\$2,000.00	\$2,000	
	Pool:				
2	Level and compact subgrade	940 m2	\$5.00	\$4,700	
3	Concrete slab on grade at change rooms, including:	480 m2	\$188.75		\$90,60
3.1 3.2 3.3 3.4 3.5 3.6 3.7	- granular sub base, assumed 200mm - air vapour barrier - insulation - wire mesh reinforcing - concrete, assumed 125mm thick, 25MPa - screed and cure - steel trowel finish	96 m3 480 m2 480 m2 480 m2 60 m3 480 m2 480 m2	\$60.00 \$15.00 \$60.00 \$25.00 \$414.00 \$15.00 \$10.00	\$5,760 \$7,200 \$28,800 \$12,000 \$24,840 \$7,200 \$4,800	

No.	Description	Quant. Unit	Rate	Sub Total	Total
84	Concrete slab on grade to Swimming Pool, including:	460 m2	\$97.87		\$45,020
84.1	- granular sub base	92 m3	\$60.00	\$5,520	
84.2	- air vapour barrier	460 m2	\$15.00	\$6,900	
84.3	- insulation	460 m2	\$60.00	\$27,600	
84.4	- concrete pump, excluded from Pool budget	1 LS	\$5,000.00	\$5,000 led in item 339	
84.5 84.6	- reinforcement - concrete, assumed 300mm thick, 35MPa			led in item 339	
84.7	- screed and cure			led in item 339	
84.8	- steel trowel finish		Includ	led in item 339	
84.9	- membrane + water stops + water test		Includ	Included in item 339	
85	Allowance for slab thickening at CMU walls	60 m	\$200.00	\$12,000	
86	Pits and trenches	1 LS	\$10,000.00	\$10,000	
87	Curbs and pads for mechanical equipment	1 LS	\$10,000.00	\$10,000	
	TOTAL FOR STRUCTURE - Lowest Floor Construction	0.58 5,507 m2	\$173.78	\$956,984	
	A2.2 STRUCTURE - Upper Floor Construction				
	A2.21 - Upper Floor Construction				
	TDSB School:				
88	Structural steel upper floor construction, including:	2,660 m2	\$900.00	\$2,394,000	
88.1	- base plates and anchor bolts				
88.2	 structural steel columns structural steel beams, assumed some beams will need to be cranked for 				
88.3	curved building shape				
88.4	- open web steel joists				
88.5	- bridging and bracing				
88.6	- metal deck				
88.7 88.8	- concrete topping - screed and cure				
88.9	- steel trowel finish				
89	Framing to floor openings	1 LS	\$8,000.00	\$8,000	
90	Allowance for spray fireproofing to upper floor structure, assumed 20%	532 m2	\$80.00	\$42,560	
	Child Care Centre and EarlyON:				
91	Structural steel upper floor construction, including:	418 m2	\$800.00	\$334,400	
91.1	- base plates and anchor bolts				
91.2	- structural steel columns				
91.3	- structural steel beams, assumed some beams will need to be cranked for				
91.4	curved building shape - open web steel joists				
91.5	- bridging and bracing				
91.6	- metal deck				
91.7	- concrete topping				
91.8	- screed and cure				
91.9	- steel trowel finish		Section 10		
92	Framing to floor openings	1 LS	\$4,000.00	\$4,000	
93	Allowance for spray fireproofing to upper floor structure, assumed 20%	84 m2	\$80.00	\$6,688	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	<u>Pool:</u>				
94	Structural steel upper floor construction, including:	124 m2	\$800.00	\$99,200	
94.1 94.2 94.3 94.4 94.5 94.6 94.7 94.8 94.9	- base plates and anchor bolts - structural steel columns - structural steel beams - open web steel joists - bridging and bracing - metal deck - concrete topping - screed and cure - steel trowel finish				
95	Structural support and CTL deck	124 m2	\$400.00	\$49,600	
96	Framing to floor openings	1 LS	\$8,000.00	\$8,000	
97	Allowance for spray fireproofing to upper floor structure, assumed 100%	124 m2	\$80.00	\$9,920	
	TDSB School Future Addition:				
98	Structural steel upper floor construction, including:	804 m2	\$800.00	\$643,200	
98.1 98.2 98.3 98.4 98.5 98.6 98.7 98.8 98.9	- base plates and anchor bolts - structural steel columns - structural steel beams, assumed some beams will need to be cranked for curved building shape - open web steel joists - bridging and bracing - metal deck - concrete topping - screed and cure - steel trowel finish				
99	Framing to floor openings	1 LS	\$8,000.00	\$8,000	
100	Allowance for spray fireproofing to upper floor structure, assumed 20%	161 m2	\$80.00	\$12,864	
	A2.22 - Stair Construction				
	TDSB School:				
101 101.1 101.2	Metal pan concrete filled stairs, including: - tread - landing	86 m 43 m2	\$350.00 \$450.00	\$30,100 \$19,350	
102 102.1 102.2	Feature staircase - tread - landing	115 m 10 m2	\$500.00 \$600.00	\$57,500 \$6,000	
	Child Care Centre and EarlyON:				
103 103.1 103.2	Metal pan concrete filled stairs, including: - tread - landing	57 m 23 m2	\$350.00 \$450.00	\$19,950 \$10,350	
	TOTAL FOR STRUCTURE - Upper Floor Construction	0.42 4,006 m2	\$939.51	\$3,763,682	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	A2.3 STRUCTURE - Roof Construction				
	A2.31 - Roof Construction				
	TDSB School:				
104	Structural steel roof construction including:	3,106 m2	\$700.00	\$2,174,200	
104.1 104.2 104.3 104.4 104.5 104.6	- base plates and anchor bolts - structural steel columns - structural steel beams - open web steel joists - bridging and bracing - metal deck				
105	Framing to roof openings	1 LS	\$4,000.00	\$4,000	
	Child Care Centre and EarlyON:				
106	Structural steel roof construction including:	384 m2	\$700.00	\$268,800	
106.1 106.2 106.3 106.4 106.5 106.6	 base plates and anchor bolts structural steel columns structural steel beams open web steel joists bridging and bracing metal deck 				
107	Framing to roof openings	1 LS	\$4,000.00	\$4,000	
	Urban Indigenous Education Centre:				
108	Structural steel roof construction including:	1,077 m2	\$700.00	\$753,900	
108.1 108.2 108.3 108.4 108.5 108.6	 base plates and anchor bolts structural steel columns structural steel beams open web steel joists bridging and bracing metal deck 				
109	Framing to roof openings	1 LS	\$4,000.00	\$4,000	
	<u>Pool:</u>				
110	Structural steel roof construction including:	940 m2	\$800.00	\$752,000	
110.1 110.2 110.3 110.4 110.5 110.6	- base plates and anchor bolts - structural steel columns - structural steel beams - open web steel joists - bridging and bracing - metal deck				
111	Structural support and CTL deck	940 m2	\$400.00	\$376,000	
112	Framing to roof openings	1 LS	\$4,000.00	\$4,000	
	TOTAL FOR STRUCTURE - Roof Construction	0.58 5,507 m2	\$788.25	\$4,340,900	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	A3.2 EXTERIOR ENCLOSURE - Walls Above Grade				
	A3.21 - Walls Above Grade				
	TDSB School:				
113	Insulated metal panel cladding, assembly assumed, including:	1,287 m2	\$788.00	[\$1,014,156
113.1	- prefinished insulated metal panel	1,287 m2	\$600.00	\$772,200	
113.2	- thermally improved cladding support	1,287 m2		Included above	
113.3	- 200mm insulation	1,287 m2		Included above	
113.4	- air/vapour barrier	1,287 m2		Included above	
113.5	- exterior gypsum sheathing	1,287 m2	\$45.00	\$57,915	
113.6 113.7	- load bearing metal studs	1,287 m2 1,287 m2	\$110.00	\$141,570	
113.7	- gypsum board	1,207 1112	\$33.00	\$42,471	- 5
114	Insulated metal panel cladding (structural) at North facade, assembly assumed, including:	1,832 m2	\$1,700.00	[\$3,114,400
114.1	- prefinished insulated metal panel	1,832 m2	\$600.00	\$1,099,200	
114.2	- thermally improved cladding support	1,832 m2		Included above	
114.3	- 200mm insulation	1,832 m2		Included above	
	- air / vapour barrier	m2		Included above	
114.4	- concrete block wall, grout filled and reinforced	1,832 m2	\$500.00	\$916,000	
114.5	- air / vapour barrier	1,832 m2		Included below	
114.6	- 200mm insulation	1,832 m2		Included below	
114.7	thermally improved cladding support prefinished insulated metal panel	1,832 m2	\$600.00	Included below \$1,099,200	
115	\$190 and 190 a	38 m2	\$750.00	φ1,000,200 Γ	\$28,500
	Elevator overrun, assembly assumed, including:		8	<u>l</u>	\$20,500
115.1 115.2	- Insulated metal panel with furring channels - air space	38 m2 38 m2	\$250.00	\$9,500 Info Only	
115.2	- 400mm concrete block wall	38 m2	\$500.00	\$19,000	
	Child Care Centre and EarlyON:				
116	Insulated metal panel cladding, assembly assumed, including:	264 m2	\$788.00	[\$208,032
116.1	- prefinished insulated metal panel	264 m2	\$600.00	\$158,400	
116.2	- thermally improved cladding support	264 m2		Included above	
116.3	- 200mm insulation	264 m2		Included above	
116.4	- air/vapour barrier	264 m2		Included above	
116.5	- exterior gypsum sheathing	264 m2	\$45.00	\$11,880	
116.6	- load bearing metal studs	264 m2	\$110.00	\$29,040	
116.7	- gypsum board	264 m2	\$33.00	\$8,712	
117	Insulated metal panel cladding (structural) at North facade, assembly assumed, including:	248 m2	\$1,700.00		\$421,600
117.1	- prefinished insulated metal panel	248 m2	\$600.00	\$148,800	
117.2	- thermally improved cladding support	248 m2		Included above	
117.3	- 200mm insulation	248 m2		Included above	
117.4	- air / vapour barrier	248 m2		Included above	
117.5	- concrete block wall, grout filled and reinforced	248 m2	\$500.00	\$124,000	
117.6	- air / vapour barrier	248 m2		Included below	
117.7	- 200mm insulation	248 m2		Included below	
	- thermally improved cladding support	248 m2		Included below	
	- prefinished insulated metal panel	248 m2	\$600.00	\$148,800	
	Urban Indiqenous Education Centre:				
118	Insulated horizontal hardboard siding wall (W1), assembly assumed, including:	758 m2	\$523.00	[\$396,434
118.1	- insulated horizontal hardboard siding	758 m2	\$200.00	\$151,600	
118.2	- air/vapour barrier	758 m2	\$30.00	\$22,740	
118.3	- rigid insulation	758 m2	\$80.00	\$60,640	
118.4	- exterior gypsum sheathing	758 m2	\$45.00	\$34,110	
118.5	- load bearing metal studs	758 m2	\$110.00	\$83,380	
118.6	- batt insulation	758 m2	\$25.00	\$18,950	
118.7	- gypsum board	758 m2	\$33.00	\$25,014	

No.	Description	Quant. Uni	t Rate	Sub Total	Total
	<u>Pool:</u>				
119	Insulated metal panel cladding, assembly assumed, including:	348 m2	\$788.00		\$274,224
119.1 119.2 119.3 119.4	- prefinished insulated metal panel - thermally improved cladding support - 200mm insulation	348 m2 348 m2 348 m2		Included above Included above	
119.4 119.5 119.6 119.7	 air/vapour barrier exterior gypsum sheathing load bearing metal studs gypsum board 	348 m2 348 m2 348 m2 348 m2	\$45.00 \$110.00 \$33.00	\$38,280	
120	Insulated metal panel cladding (structural) at North facade, assembly assumed including:	438 m2	\$1,700.00		\$744,600
120.1 120.2 120.3 120.4 120.5 120.6 120.7	- prefinished insulated metal panel - thermally improved cladding support - 200mm insulation - air / vapour barrier - concrete block wall, grout filled and reinforced - air / vapour barrier - 200mm insulation - thermally improved cladding support - prefinished insulated metal panel	438 m2 438 m2 438 m2 438 m2 438 m2 438 m2 438 m2 438 m2 438 m2		Included above Included above Included above \$219,000 Included below Included below Included below	
121	A3.22 - Structural Walls Above Grade NIL				
	A3.23 - Glazed Curtain Wall				
	TDSB School:				
122	Aluminum framed curtain wall system, assumed double glazed, low e coating, and argon filled, reduced by 20% and added as cladding system	126 m2	\$1,450.00	\$182,700	
	Child Care Centre and EarlyON:				
123	Aluminum framed curtain wall system, assumed double glazed, low e coating, and argon filled, reduced by 20% and added as cladding system	14 m2	\$1,450.00	\$20,300	
	Urban Indiqenous Education Centre:				
124	Aluminum framed curtain wall system, assumed double glazed, low e coating, and argon filled	3.5 m2	\$1,450.00	\$5,075	
	<u>Pool:</u>				
125	Aluminum framed curtain wall system, assumed double glazed, low e coating, and argon filled, reduced by 20% and added as cladding system	50 m2	\$1,450.00	\$72,500	
	TOTAL FOR EXT. ENCLOSURE - Walls Above Grade	0.57 5,407 m2	\$1,199.02	\$6,482,521	
	A3.3 EXTERIOR ENCLOSURE - Windows & Entrances				
	A3.31 - Windows & Louvers				
	TDSB School:				
126	Aluminum framed windows, assumed double glazed, low e coating, and argon filled, reduced by 20% and added as cladding system	218 m2	\$1,200.00	\$261,600	
127	Small aluminum framed windows at North facade, assumed double glazed, low e coating, and argon filled, reduced by 20% and added as cladding system	64 m2	\$900.00	\$57,600	
128	Louvers to mechanical room	100 m2	\$1,200.00	\$120,000	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	Child Care Centre and EarlyON:				
129	Aluminum framed windows, assumed double glazed, low e coating, and argon filled, reduced by 20% and added as cladding system	62 m2	\$1,200.00	\$74,400	
	Urban Indigenous Education Centre:				
130	Aluminum framed windows, assumed double glazed, low e coating, and argon filled, reduced by 20% and added as cladding system	70 m2	\$1,200.00	\$84,000	
	<u>Pool:</u>				
131	Small aluminum framed windows at North facade, assumed double glazed, low e coating, and argon filled, reduced by 20% and added as cladding system	20 m2	\$900.00	\$18,000	
	A3.32 - Entrance Glazed Screens				
132	Aluminum framed glazed entrance screens				
	A3.33 - Exterior Doors				
	TDSB School:				
133	Aluminum framed fully glazed doors including installation, hardware and finish				
133.1 133.2	- single, assumed 950mm x 2450mm - double, assumed 2 - 915mm x 2450mm	9 NO 5 PR	\$6,200.00 \$12,000.00	\$55,800 \$60,000	
134 134.1	Insulated hollow metal door and frame including installation and paint finish - single, assumed 950mm \times 2150mm	2 NO	\$3,100.00	\$6,200	
135	Door hardware supply allowance		In	cluded Above	
136	Barrier free operators	5 NO	\$4,500.00	\$22,500	
137	Overhead doors, 3048mm x 2743mm	1 NO	\$15,000.00	\$15,000	
	Child Care Centre and EarlyON:				
138 138.1	Aluminum framed fully glazed doors including installation, hardware and finish - single, assumed $950mm \times 2450mm$	4 NO	\$6,200.00	\$24,800	
139	Door hardware supply allowance		In	cluded Above	
140	Barrier free operators	3 NO	\$4,500.00	\$13,500	
	Urban Indigenous Education Centre:				
141 141.1	Aluminum framed fully glazed doors including installation, hardware and finish - single, assumed $$ 950mm \times 2450mm	8 NO	\$6,200.00	\$49,600	
142 142.1	Insulated hollow metal door and frame including installation and paint finish - single, assumed 950mm \times 2150mm	1 NO	\$3,100.00	\$3,100	
143	Door hardware supply allowance		In	cluded Above	
144	Barrier free operators	2 NO	\$4,500.00	\$9,000	
	<u>Pool:</u>				
145 145.1 145.2	Aluminum framed fully glazed doors including installation, hardware and finish - single, assumed 950mm x 2450mm - double, assumed 2 - 915mm x 2450mm	1 NO 1 PR	\$6,200.00 \$12,000.00	\$6,200 \$12,000	
146	Door hardware supply allowance		In	cluded Above	
147	Barrier free operators	2 NO	\$4,500.00	\$9,000	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	TDSB School Future Addition:				
148 148.1	Aluminum framed fully glazed doors including installation, hardware and finish - double, assumed 2 - 915mm x 2450mm	1 PR	\$12,000.00	\$12,000	
149	Door hardware supply allowance		Ir	ncluded Above	
150	Barrier free operators	1 NO	\$4,500.00	\$4,500	
	TOTAL FOR EXT. ENCLOSURE - Windows & Entrances	0.07 631 m2	\$1,455.92	\$918,800	
	A3.4 EXTERIOR ENCLOSURE - Roof Covering				
	A3.41 - Roofing				
	TDSB School:				
151	$2\ ply modified bitumen roofing including membrane, vapour barrier, insulation, and sheathing$	3,106 m2	\$350.00	\$1,087,100	
152	Green roof including membrane, soil, and growing medium		Included as	Separate Cost	
153	Tapered insulation		1r	ncluded Above	
154	Flashing to vertical surfaces	354 m	\$80.00	\$28,320	
155	Flashing to openings	1 LS	\$4,000.00	\$4,000	
156	Concrete pads and curbs for mechanical equipment	1 LS	\$10,000.00	\$10,000	
157	Allowance for roof fall protection system including welded roof anchors, lifeline cable and testing	1 LS	\$40,000.00	\$40,000	
158	Allowance for roof pavers, assumed 20% of roof area	621 m2	\$80.00	\$49,696	
	Child Care Centre and EarlyON:				
159	$2\ ply modified bitumen roofing including membrane, vapour barrier, insulation, and sheathing$	384 m2	\$350.00	\$134,400	
160	Tapered insulation		Ir	ncluded Above	
161	Flashing to vertical surfaces	28 m	\$80.00	\$2,240	
162	Flashing to openings	1 LS	\$2,000.00	\$2,000	
163	Concrete pads and curbs for mechanical equipment	1 LS	\$2,000.00	\$2,000	
164	Allowance for roof fall protection system including welded roof anchors, lifeline cable and testing	LS	\$20,000.00	\$0	
165	Allowance for roof pavers, assumed 20% of roof area	77 m2	\$80.00	\$6,144	
	Urban Indigenous Education Centre:				
166	$2\ ply modified bitumen roofing including membrane, vapour barrier, insulation, and sheathing$	1,077 m2	\$350.00	\$376,950	
167	Tapered insulation		Ir	ncluded Above	
168	Flashing to vertical surfaces	5 m	\$80.00	\$400	
169	Flashing to openings	1 LS	\$2,000.00	\$2,000	
170	Concrete pads and curbs for mechanical equipment	1 LS	\$2,000.00	\$2,000	
171	Allowance for roof fall protection system including welded roof anchors, lifeline cable and testing	1 LS	\$20,000.00	\$20,000	
172	Allowance for roof pavers, assumed 20% of roof area	215 m2	\$80.00	\$17,232	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	Pool:				
173	$2\ \mbox{ply}$ modified bitumen roofing including membrane, vapour barrier, insulation, and sheathing	151 m2	\$350.00	\$52,850	
174	Green roof	789 m2	\$0.00	\$0	
175	Tapered insulation		lr	ncluded Above	
176	Flashing to openings	1 LS	\$2,000.00	\$2,000	
177	Concrete pads and curbs for mechanical equipment	1 LS	\$4,000.00	\$4,000	
178	Allowance for roof fall protection system including welded roof anchors, lifeline cable and testing	1 LS	\$20,000.00	\$20,000	
179	Allowance for roof pavers	237 m2	\$80.00	\$18,960	
	TOTAL FOR EXT. ENCLOSURE - Roof Covering	0.58 5,507 m2	\$341.80	\$1,882,292	
	A3.5 EXTERIOR ENCLOSURE - Projections				
	A3.51 - Projections				
	TDSB School:				
180	Exterior wall parapets including roofing membrane, cant strip, blocking, and prefinished cap flashing (exterior wall assembly included A3.2)	566 m	\$240.00	\$135,840	
181	Soffit finish to roof overhangs, assumed wood	1 LS	\$20,000.00	\$20,000	
182	Roof ladder, galvanized including safety guard, assumed	6 NO	\$900.00	\$5,400	
183	Bollards at overhead doors, assumed	2 NO	\$1,000.00	\$2,000	
184 184.1 184.2 184.3 184.4 184.5	Sun airfoil blades, including - assumed 800mm x 800mm - assumed 1600mm x 800mm - assumed 2400mm x 800mm - assumed 3200mm x 800mm - assumed 4000mm x 800mm	12 NO 9 NO 1 NO 18 NO 5 NO	\$300.00 \$610.00 \$910.00 \$1,210.00 \$1,510.00	\$3,600 \$5,490 \$910 \$21,780 \$7,550 Excluded	
185.1 185.2 185.3 185.4 185.5 185.6	Roof terrace, including: - pavers on adjustable pedestal - furniture - landscaping - small pooted trees - large pooted trees - planter boxes, assumed 3500mm x 600mm x 762mm high			LAUIUEU	
186	Exterior building signature signage	1 LS	\$60,000.00	\$60,000	
	Child Care Centre and EarlyON:				
187	Exterior wall parapets including roofing membrane, cant strip, blocking, and prefinished cap flashing (exterior wall assembly included A3.2)	96 m	\$240.00	\$23,040	
188	Roof ladder, galvanized including safety guard, assumed	1 NO	\$900.00	\$900	
189	Sun airfoil blades, assumed 1600mm x 800mm	3 NO	\$610.00	\$1,830	

lo.	Description	Quant. Unit	Rate	Sub Total	Total
	Urban Indigenous Education Centre:				
90	Exterior wall parapets including roofing membrane, cant strip, blocking, and prefinished cap flashing (exterior wall assembly included A3.2)	215 m	\$240.00	\$51,600	
91	Roof ladder, galvanized including safety guard, assumed	1 NO	\$900.00	\$900	
	Pool:				
92	Exterior wall parapets including roofing membrane, cant strip, blocking, and prefinished cap flashing (exterior wall assembly included A3.2)	148 m	\$240.00	\$35,520	
93	Roof ladder, galvanized including safety guard, assumed	1 NO	\$900.00	\$900	
	TOTAL FOR EXT. ENCLOSURE - Projections	1.00 9,513 m2	\$35.83	\$340,840	
	B. INTERIORS				
	B1.1 PARTITIONS & DOORS - Partitions				
	B1.11 - Fixed Partitions				
	TDSB School:				
94	CMU walls, assumed 10%	409 m2	\$350.00	\$143,115	
95	Gypsum board partitions (P1), including:	3,680 m2	\$171.00		\$629,297
95.1	- gypsum board	3,680 m2	\$33.00	\$121,443	
95.2 95.3	- metal stud - sound attenuation batts	3,680 m2 3,680 m2	\$80.00 \$25.00	\$294,408 \$92,003	
95.4	- gypsum board	3,680 m2	\$33.00	\$121,443	
96	Hollow metal framed glazed partitions, assumed	17 m2	\$800.00	\$13,360	
97	Rough carpentry	5,767 m2	\$10.00	\$57,670	
98	Caulking, sealing, and firestopping	5,767 m2	\$8.00	\$46,136	
	Child Care Centre and EarlyON:				
99	CMU walls, assumed 10%	58 m2	\$350.00	\$20,335	
:00	Gypsum board partitions (P1), including:	523 m2	\$171.00		\$89,416
200.1	- gypsum board	523 m2	\$33.00	\$17,256	
.00.2 .00.3	- metal stud - sound attenuation batts	523 m2 523 m2	\$80.00 \$25.00	\$41,832 \$13,073	
200.4	- gypsum board	523 m2	\$33.00	\$17,256	
01	Rough carpentry	802 m2	\$10.00	\$8,020	
02	Caulking, sealing, and firestopping	802 m2	\$8.00	\$6,416	
	Urban Indiqenous Education Centre:				
:03	CMU walls, assumed 10%	68 m2	\$350.00	\$23,765	
04	Gypsum board partitions (P1), including:	611 m2	\$171.00		\$104,498
04.1	- gypsum board	611 m2	\$33.00	\$20,166	
04.2 04.3	- metal stud - sound attenuation batts	611 m2 611 m2	\$80.00 \$25.00	\$48,888 \$15,278	
04.4	- gypsum board	611 m2	\$33.00	\$20,166	
05	Rough carpentry	1,077 m2	\$10.00	\$10,770	
06	Caulking, sealing, and firestopping	1,077 m2	\$8.00	\$8,616	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	Pool:				
207	CMU walls, assumed 60%	89 m2	\$350.00	\$31,080	
208	Gypsum board partitions (P1), including:	59 m2	\$161.00		\$9,531
208.1 208.2 208.3 208.4	- gypsum board - metal stud - sound attenuation batts - gypsum board	59 m2 59 m2 59 m2 59 m2	\$33.00 \$80.00 \$15.00 \$33.00	\$1,954 \$4,736 \$888 \$1,954	
209	Rough carpentry	1,064 m2	\$15.00	\$15,960	
210	Caulking, sealing, and firestopping	1,064 m2	\$20.00	\$21,280	
	TDSB School Future Addition:				
211	CMU walls, assumed 40%	221 m2	\$350.00	\$77,280	
212	Gypsum board partitions (P1), including:	331 m2	\$161.00		\$53,323
212.1 212.2 212.3 212.4	- gypsum board - metal stud - sound attenuation batts - gypsum board	331 m2 331 m2 331 m2 331 m2	\$33.00 \$80.00 \$15.00 \$33.00	\$10,930 \$26,496 \$4,968 \$10,930	
213	Rough carpentry	803 m2	\$15.00	\$12,045	
214	Caulking, sealing, and firestopping	803 m2	\$20.00	\$16,060	
	B1.12 - Moveable Partitions				
	<u>NIL</u>				
	B1.13 - Structural Partitions & Shear Walls TDSB School:				
215	Concrete partitions at elevator and stair, including	258 m2	\$913.63	[\$235,716
215.1 215.2 215.3 215.4 215.5	- formwork - reinforcing steel, assumed 140 kg/m3 - concrete, assumed 400mm, 25MPa - metal furring - gypsum board TOTAL FOR INTERIOR PARTITIONS & DOORS - Partitions	516 m2 14 TN 103 m3 258 m2 258 m2	\$240.00 \$3,600.00 \$414.00 \$40.00 \$33.00	\$123,840 \$50,400 \$42,642 \$10,320 \$8,514	
	B1.2 PARTITIONS & DOORS - Interior Doors B1.21 - Interior Doors & Hardware TDSB School:	0.00 0,924 III.	\$250.51	V 1,550,500	
216	Aluminum framed fully glazed doors including installation, hardware and finish				
216.1 216.2	- single, 950mm x 2450mm - double, 2 - 915mm x 2450mm	5 NO 3 PR	\$6,000.00 \$12,000.00	\$30,000 \$36,000	
217 217.1 217.2	Hollow metal door and frame including installation and paint finish - single, 950mm \times 2150mm - double, 2 - 915mm \times 2150mm	39 NO 14 PR	\$2,300.00 \$4,400.00	\$89,700 \$61,600	
218	Door hardware supply allowance	67 NO	\$1,800.00	\$120,600	
219	Barrier free operators, assumed to all barrier free washrooms, change rooms	10 NO	\$4,500.00	\$45,000	
220	Glazed sidelights and windows	61 m2	\$800.00	\$48,800	
221	View panels, door glazing, and transoms	1 LS	\$13,000.00	\$13,000	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	Child Care Centre and EarlyON:				
222 222.1	Aluminum framed fully glazed doors including installation, hardware and finish - single, $950 \text{mm} \times 2450 \text{mm}$	1 NO	\$6,000.00	\$6,000	
223 223.1	Hollow metal door and frame including installation and paint finish - single, $950 \text{mm} \times 2150 \text{mm}$	17 NO	\$2,300.00	\$39,100	
224	Door hardware supply allowance	17 NO	\$1,800.00	\$30,600	
225	Glazed windows	8 m2	\$800.00	\$6,400	
226	Barrier free operators	3 NO	\$4,500.00	\$13,500	
227	View panels, door glazing, and transoms	1 LS	\$3,000.00	\$3,000	
	Urban Indiqenous Education Centre:				
228 228.1	Aluminum framed fully glazed doors including installation, hardware and finish - single, $950 \text{mm} \times 2450 \text{mm}$	1 NO	\$6,000.00	\$6,000	
229 229.1 229.2	Hollow metal door and frame including installation and paint finish - single, 950mm \times 2150mm - double, 2 - 915mm \times 2150mm	15 NO 3 PR	\$2,300.00 \$4,400.00	\$34,500 \$13,200	
230	Door hardware supply allowance	21 NO	\$1,800.00	\$37,800	
231	View panels, door glazing, and transoms	1 LS	\$4,000.00	\$4,000	
	Pool:				
232 232.1 232.2	Hollow metal door and frame including installation and paint finish - single, 950mm x 2150mm - double, 2 - 915mm x 2150mm	2 NO 2 PR	\$2,300.00 \$4,400.00	\$4,600 \$8,800	
233	Door hardware supply allowance	6 NO	\$1,800.00	\$10,800	
234	Barrier free operators	2 NO	\$4,500.00	\$9,000	
235	View panels, door glazing, and transoms	1 LS	\$1,000.00	\$1,000	
	TDSB School Future Addition:				
236 236.1 236.2	Hollow metal door and frame including installation and paint finish - single, $968mm \times 2150mm$ - double, $2-968mm \times 2150mm$	13 NO 2 PR	\$2,300.00 \$4,400.00	\$29,900 \$8,800	
237	Door hardware supply allowance	17 NO	\$1,800.00	\$30,600	
238	Barrier free operators	4 NO	\$4,500.00	\$18,000	
239	Glazed sidelights	7 m2	\$550.00	\$3,850	
240	View panels, door glazing, and transoms	1 LS	\$3,000.00	\$3,000	
	TOTAL FOR INTERIOR PARTITIONS & DOORS - Doors	0.03 289 m2	\$2,655.68	\$767,150	
	B2.1 FINISHES - Floor Finishes				
	B2.11 - Floor Finishes				
	TDSB School:				
241	Allowance for low ranges finishes expect at gym	5,190 m2	\$183.00	\$949,770	
242	Flooring bases		li	ncluded above	
	Child Care Centre and EarlyON:				
243	Allowance for low ranges finishes	722 m2	\$78.00	\$56,316	
244	Flooring bases		lı	ncluded above	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	Urban Indigenous Education Centre:				
245	Allowance for low ranges finishes	969 m2	\$60.00	\$58,140	
246	Flooring bases		lr	icluded above	
	Pool:				
247	Allowance for mid ranges finishes	958 m2	\$132.00	\$126,456	
248	Ceramic tile to lane pool and leisure pool		Included in Ad	uatics Budget	
249	Flooring bases		Îr	icluded above	
	TDSB School Future Addition:				
250	Concrete sealer only	723 m2	\$20.00	\$14,460	
	TOTAL FOR FINISHES - Floor Finishes	0.90 8,562 m2	\$140.75	\$1,205,142	
	B2.2 FINISHES - Ceiling Finishes				
	B2.21 - Ceiling Finishes				
	TDSB School:				
251	Allowance for low ranges finishes	5,190 m2	\$85.00	\$441,150	
252	Gypsum board bulkheads	1 LS	\$44,000.00	\$44,000	
	Child Care Centre and EarlyON:				
253	Allowance for low ranges finishes	722 m2	\$80.00	\$57,760	
254	Gypsum board bulkheads	1 LS	\$6,000.00	\$6,000	
	<u>Urban Indigenous Education Centre:</u>		6	22	
255	Allowance for low ranges finishes	969 m2	\$65.00	\$62,985	
256	Gypsum board bulkheads	1 LS	\$6,000.00	\$6,000	
	Pool:				
257	Allowance for low ranges finishes, assumed expose treated glulam structure at pool area	958 m2	\$82.00	\$78,556	
258	Gypsum board bulkheads	1 LS	\$8,000.00	\$8,000	
	TDSB School Future Addition:				
259	No finishes	723 m2		Info Only	
	TOTAL FOR FINISHES - Ceiling Finishes	0.90 8,562 m2	\$82.28	\$704,451	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	B2.3 FINISHES - Wall Finishes				
	B2.31 - Wall Finishes				
	TDSB School:				
260	Allowance for mid ranges finishes	10,381 m2	\$106.00	\$1,100,386	
261	Allowance for feature walls			Excluded	
	Child Care Centre and EarlyON:				
262	Allowance for mid ranges finishes	1,444 m2	\$46.00	\$66,424	
263	Allowance for feature walls			Excluded	
	Urban Indigenous Education Centre:				
264	Allowance for mid ranges finishes	1,939 m2	\$57.00	\$110,523	
265	Allowance for feature walls			Excluded	
	Pool:				
266	Allowance for mid ranges finishes	1,277 m2	\$118.00	\$150,686	
267	Ceramic tile to Pool		Included	in pool budget	
	TDSB School Future Addition:				
268	Allowance for mid ranges finishes	964 m2		Info Only	
	TOTAL FOR FINISHES - Wall Finishes	1.68 16,005 m2	\$89.22	\$1,428,019	
	B3.1 FITTINGS & EQUIPMENT - Fittings & Fixtures				
	B3.11 - Miscellaneous Metals				\$287,150
	TDSB School:				
269	Miscellaneous metals including lintels, bracing, and so forth	5,767 m2	\$10.00	\$57,670	
270	Wall mounted handrails at stair wall, assumed painted metal	80 m	\$250.00	\$20,000	
271	Floor mounted handrails and balustrades at featured stairs, assumed glazed	205 m	\$350.00	\$71,750	
272	Floor mounted handrails and balustrades at featured stairs, assumed glazed	49 m	\$1,800.00	\$88,200	
273	Elevator pit ladder	1 NO	\$1,000.00	\$1,000	
274	Elevator hoist beam	1 NO	\$1,500.00	\$1,500	
275	Wall mounted bracket to sinks	7 PR	\$250.00	\$1,750	
	Child Care Centre and EarlyON:				
276	Miscellaneous metals including lintels, bracing, and so forth	802 m2	\$10.00	\$8,020	
277	Wall mounted handrails at stair wall, assumed painted metal	34 m	\$250.00	\$8,500	
78	Floor mounted handrails and balustrades at stair wells, assumed painted metal	21 m	\$350.00	\$7,350	
	Urban Indigenous Education				
79	Miscellaneous metals including lintels, bracing, and so forth	1,077 m2	\$10.00	\$10,770	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	<u>Pool</u>				
280	Miscellaneous metals including lintels, bracing, and so forth	1,064 m2	\$10.00	\$10,640	
281	Floor mounted handrails to pool, assumed stainless steel		Included i	n Pool Budget	
282	Pool ladders, assumed stainless steel		Included i	n Pool Budget	
	TDSB School Future Addition:				
283	NIL				
	B3.12 - Millwork				\$320,300
	TDSB School:				
284	Washroom vanities counters at washroom rooms, assumed solid surface	14 m	\$1,400.00	\$19,600	
285	Reception desk, assumed solid surface	4 m	\$4,500.00	18,000	
286	Allowance for unspecified millwork	1 LS	\$100,000.00	\$100,000	
	Child Care Centre and EarlyON:				
287	Washroom vanities counters at washroom rooms, assumed solid surface	3 m	\$1,400.00	\$4,200	
288	Kitchen type counter with lower cabinets	39 m	\$1,500.00	\$58,500	
289	Allowance for unspecified millwork	1 LS	\$40,000.00	\$40,000	
	Urban Indigenous Education				
290	Allowance for unspecified millwork	1 LS	\$20,000.00	\$20,000	
	<u>Pool</u>				
291	Allowance for unspecified millwork	1 LS	\$60,000.00	\$60,000	
	TDSB School Future Addition:				
292	NIL				
	B3.13 - Specialties			[\$835,230
	TDSB School:				
293 293.1	Washroom partitions, assumed powder coated steel	20 NO	64 200 00	¢24.000	
293.2	- standard - barrier free	9 NO	\$1,200.00 \$1,500.00	\$24,000 \$13,500	
293.3	- urinals	1 NO	\$500.00	\$500	
294 294.1	Washroom accessories including: - toilet paper dispenser	26 NO	\$75.00	\$1,950	
294.2	- soap dispenser	20 NO	\$100.00	\$2,000	
294.3 294.4	- paper towel dispenser - grab bars	12 NO 19 PR	\$450.00 \$450.00	\$5,400 \$8,550	
294.5	- swing grab bars	9 PR	W. 1. CONTROL CONTROL	\$0	
294.6 294.7	- sanitary dispenser - sanitary disposal	2 NO	\$60.00	Excluded \$120	
294.8	- shower soap dish	14 NO	\$40.00	\$560	
294.9 294.10	- fold down shower seat - shower curtain and rod	2 NO 14 NO	\$400.00 \$40.00	\$800 \$560	
294.11	- shower grab bars	2 PR	\$250.00	\$500	
294.12	- mirrors	38 NO	\$400.00	\$15,200	
294.13 294.14	- waste receptacles - hand dryers	12 NO 4 NO	\$400.00 \$1,800.00	\$4,800 \$7,200	
294.15	- adult change table			Excluded	
294.16	- coat hooks	15 NO	\$60.00	\$900	

No.	Description	Quant. Unit	Rate	Sub Total	Total
295	Lockers, assumed three tier power coated steel lockers, 305mm W x 380mm D x 1800mm H at north east corridor on first and second level and at changing rooms on third and fourth level	173 NO	\$500.00	\$86,500	
296	Allowance for Tack boards and White boards class rooms, HSP rooms, FNST rooms, head start center rooms, special education room, visual arts, drama/dance, language and music rooms	24 NO	\$1,000.00	\$24,000	
297	Entrance pedimat	22 m2	\$1,400.00	\$30,800	
298	Allowance for tactile warning strips, assumed at stairs	1 LS	\$30,000.00	\$30,000	
299	Comer guards, assumed stainless steel	34 NO	\$350.00	\$11,900	
300	Window shades, assumed manually operated	218 m2	\$90.00	\$19,620	
301	Interior signage (doors only)	67 NO	\$150.00	\$10,050	
302	Allowance for wayfinding signage	1 LS	\$100,000.00	\$100,000	
303	Nookpod			Excluded	
304	Bench cubbies	37 m	\$4,000.00	\$148,000	
305	Acoustic panels	1 LS	\$150,000.00	\$150,000	
	Child Care Centre and EarlyON:				
306	Washroom partitions, assumed powder coated steel				
306.1	- privacy screen	3 NO	\$500.00	\$1,500	
307 307.1 307.2 307.3 307.4 307.5 307.6 307.7 307.8	Washroom accessories including: - toilet paper dispenser - soap dispenser - paper towel dispenser - grab bars - mirrors - waste receptacles - hand dryers - adult change table	4 NO 4 NO 4 NO 2 PR 4 NO 4 NO 2 NO	\$75.00 \$100.00 \$450.00 \$450.00 \$400.00 \$400.00 \$1,800.00	\$300 \$400 \$1,800 \$900 \$1,600 \$1,600 \$3,600 Excluded	
	Allowance for Tack boards and White boards class rooms, HSP rooms, FNST	F-84-2	27. 222. 227		
308	rooms, head start center rooms, special education room, visual arts, drama/dance, language and music rooms	4 NO	\$1,000.00	\$4,000	
309	Allowance for tactile warning strips, assumed at stairs	1 LS	\$5,000.00	\$5,000	
310	Comer guards, assumed stainless steel	6 NO	\$350.00	\$2,100	
311	Window shades, assumed manually operated	62 m2	\$90.00	\$5,580	
312	Interior signage (doors only)	17 NO	\$150.00	\$2,550	
313	Allowance for wayfinding signage	1 LS	\$20,000.00	\$20,000	
	Urban Indigenous Education				
314	Allowance for Tack boards and White boards class rooms, HSP rooms, FNST rooms, head start center rooms, special education room, visual arts, drama/dance, language and music rooms	10 NO	\$1,000.00	\$10,000	
315	Window shades, assumed manually operated	70 m2	\$90.00	\$6,300	
316	Interior signage (doors only)	21 NO	\$150.00	\$3,150	
317	Allowance for wayfinding signage	1 LS	\$10,000.00	\$10,000	

lo.	Description	Quant. Unit	Rate	Sub Total	Total
	<u>Pool</u>				
18	Washroom partitions, assumed powder coated steel				
18.1	- standard	20 NO	\$1,200.00	\$24,000	
19	change rooms accessories including:	0.110	640.00	6000	
9.1 9.2	- shower soap dish - fold down shower seat	8 NO 3 NO	\$40.00 \$400.00	\$320 \$1,200	
9.3	- shower curtain and rod	8 NO	\$40.00	\$320	
9.4	- shower grab bars	2 PR	\$250.00	\$500	
9.5	- mirrors	8 NO	\$400.00	\$3,200	
9.6	- coat hooks	20 NO	\$60.00	\$1,200	
20	Lockers, assumed three tier power coated steel lockers, 305mm W x 380mm D x 1800mm H at north east corridor on first and second level and at changing rooms on third and fourth level	38 NO	\$500.00	\$19,000	
11	Window shades, assumed manually operated	20 m2	\$90.00	\$1,800	
22	Interior signage (doors only)	6 NO	\$150.00	\$900	
3	Allowance for wayfinding signage	1 LS	\$5,000.00	\$5,000	
	TDSB School Future Addition:				
24	NIL				
	B3.14 - Furniture				
:5	Loose furniture			Excluded	
	TOTAL FOR FITTINGS & EQUIP Fittings & Fixtures 1.0	00 9,513 m2	\$151.65	\$1,442,680	
	TOTAL FOR FITTINGS & EQUIP Fittings & Fixtures 1.0	9,513 m2	\$151.65	\$1,442,680	
		9,513 m2	\$151.65	\$1,442,680	
	B3.2 FITTINGS & EQUIPMENT - Equipment	00 9,513 m2	\$151.65	\$1,442,680	
	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment	9,513 m2	\$151.65	\$1,442,680	
ĥ	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School:	00 9,513 m2	\$151.65		
	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment	9,513 m2	\$151.65	Excluded	
7	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment	9,513 m2	\$151.65	Excluded Excluded	
26 27 28	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment Wrestling equipment	9,513 m2	\$151.65	Excluded	
27 28 29	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment Wrestling equipment Gymnasium equipment	<u> </u>		Excluded Excluded Excluded	
7 8 9 9.1	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment Wrestling equipment Gymnasium equipment - Timing and Scorekeeping, assumed 6NO	6 NO	\$14,000.00	Excluded Excluded Excluded \$84,000	
7 8 9 9.1 9.2	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment Wrestling equipment Gymnasium equipment	<u> </u>		Excluded Excluded Excluded	
7 8 9 9.1 9.2 9.3 9.4	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment Wrestling equipment Gymnasium equipment - Timing and Scorekeeping, assumed 6NO - Gymnasium divider	6 NO 1 LS	\$14,000.00 \$24,000.00	Excluded Excluded Excluded \$84,000 \$24,000	
7 8 9 9.1 9.2 9.3 9.4 9.5	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment Wrestling equipment Gymnasium equipment - Timing and Scorekeeping, assumed 6NO - Gymnasium divider - Basketball Backstops & Volleyball/Badminton Poles Volleyball equipment - Badminton equipment	6 NO 1 LS	\$14,000.00 \$24,000.00	Excluded Excluded Excluded \$84,000 \$24,000	
7 8 9 9.1 9.2 9.3 9.4 9.5 9.6	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment Wrestling equipment Gymnasium equipment - Timing and Scorekeeping, assumed 6NO - Gymnasium divider - Basketball Backstops & Volleyball/Badminton Poles - Volleyball equipment - Badminton equipment - Pickle ball equipment	6 NO 1 LS	\$14,000.00 \$24,000.00	Excluded Excluded Excluded \$84,000 \$24,000	
9 9.9.1 9.2 99.3 99.4 99.5 99.6 99.7	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment Wrestling equipment Gymnasium equipment - Timing and Scorekeeping, assumed 6NO - Gymnasium divider - Basketball Backstops & Volleyball/Badminton Poles - Volleyball equipment - Badminton equipment - Badminton equipment - Pickle ball equipment - Shuffleboard equipment	6 NO 1 LS	\$14,000.00 \$24,000.00	Excluded Excluded Excluded \$84,000 \$24,000	
7 8 9 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment Wrestling equipment Gymnasium equipment - Timing and Scorekeeping, assumed 6NO - Gymnasium divider - Basketball Backstops & Volleyball/Badminton Poles - Volleyball equipment - Badminton equipment - Pickle ball equipment	6 NO 1 LS	\$14,000.00 \$24,000.00	Excluded Excluded Excluded \$84,000 \$24,000	
7 8 9 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment Wrestling equipment Gymnasium equipment - Timing and Scorekeeping, assumed 6NO - Gymnasium divider - Basketball Backstops & Volleyball/Badminton Poles - Volleyball equipment - Badminton equipment - Pickle ball equipment - Pickle ball equipment - Shuffleboard equipment - Shuffleboard equipment - Basketball equipment (6 x ceiling mounted, retractable basketball backstops)	6 NO 1 LS 1 LS	\$14,000.00 \$24,000.00 \$92,000.00	Excluded Excluded Excluded \$84,000 \$24,000 \$92,000	
9 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment Wrestling equipment Gymnasium equipment - Timing and Scorekeeping, assumed 6NO - Gymnasium divider - Basketball Backstops & Volleyball/Badminton Poles - Volleyball equipment - Badminton equipment - Pickle ball equipment - Shuffleboard equipment - Basketball equipment - Basketball equipment (6 x ceiling mounted, retractable basketball backstops) - Telescopic bleachers	6 NO 1 LS 1 LS	\$14,000.00 \$24,000.00 \$92,000.00	Excluded Excluded Excluded \$84,000 \$24,000 \$92,000	
99.1 99.1 99.2 99.3 99.4 99.5 99.6 99.7 99.8 99.9	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment Wrestling equipment Gymnasium equipment - Timing and Scorekeeping, assumed 6NO - Gymnasium divider - Basketball Backstops & Volleyball/Badminton Poles - Volleyball equipment - Badminton equipment - Pickle ball equipment - Pickle ball equipment - Shuffleboard equipment - Basketball equipment (6 x ceiling mounted, retractable basketball backstops) - Telescopic bleachers AV equipment, including: Services & Warranty - av systems mock-up	6 NO 1 LS 1 LS 39 m 5,767 m2	\$14,000.00 \$24,000.00 \$92,000.00 \$2,400.00 \$4.00	Excluded Excluded Excluded \$84,000 \$24,000 \$92,000	
27 28 29 29.1 29.2 29.3 29.4 29.5 29.6 29.7 29.8 29.9	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment Wrestling equipment Gymnasium equipment - Timing and Scorekeeping, assumed 6NO - Gymnasium divider - Basketball Backstops & Volleyball/Badminton Poles - Volleyball equipment - Badminton equipment - Pickle ball equipment - Pickle ball equipment - Basketball equipment - Basketball equipment (6 x ceiling mounted, retractable basketball backstops) - Telescopic bleachers AV equipment, including: Services & Warranty - av systems mock-up - training sessions	6 NO 1 LS 1 LS 39 m 5,767 m2	\$14,000.00 \$24,000.00 \$92,000.00 \$2,400.00 \$4.00	Excluded Excluded Excluded \$84,000 \$24,000 \$92,000	
7 3 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	B3.2 FITTINGS & EQUIPMENT - Equipment B3.21 - Equipment TDSB School: Kitchen equipment Office and classroom equipment Wrestling equipment Gymnasium equipment - Timing and Scorekeeping, assumed 6NO - Gymnasium divider - Basketball Backstops & Volleyball/Badminton Poles - Volleyball equipment - Badminton equipment - Pickle ball equipment - Pickle ball equipment - Shuffleboard equipment - Basketball equipment (6 x ceiling mounted, retractable basketball backstops) - Telescopic bleachers AV equipment, including: Services & Warranty - av systems mock-up	6 NO 1 LS 1 LS 39 m 5,767 m2	\$14,000.00 \$24,000.00 \$92,000.00 \$2,400.00 \$4.00	Excluded Excluded Excluded \$84,000 \$24,000 \$92,000	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	Child Care Centre and EarlyON:				
332	Kitchen equipment			Excluded	
333	Office and classroom equipment			Excluded	
334 335 335.1 335.2 335.3 335.4	AV equipment, including: Services & Warranty - av systems mock-up - training sessions - warranty, support & maintenance (1-year standard) - close-out documentation	802 m2 802 m2	\$4.00 \$3.60	\$3,208 \$2,887	
	Urban Indiqenous Education Centre:				
336	Office and classroom equipment			Excluded	
337 338 338.1 338.2 338.3 338.4	AV equipment, including: Services & Warranty - av systems mock-up - training sessions - warranty, support & maintenance (1-year standard) - close-out documentation	1,077 m2 1,077 m2	\$4.00 \$3.60	\$4,308 \$3,877	
	Pool including change rooms:				
339.1 339.2 339.3 339.4 339.5 339.6	Leisure and Lane pool, including: - Concrete Swimming Pools Tanks and Decks Works including Formwork, reinforcing, accessories, poured concrete, waterproofing admixture, water stops, inserts and control joints - Concrete Swimming Pools Tiling Finishes - Swimming Pools Accessories - Swimming Pools Equipment - Swimming Pools Commissioning & Submittals - Swimming Pool Warranties	450 m2	\$7,200.00	\$3,240,000	
340 341 341.1 341.2 341.3 341.4	AV equipment, including: Services & Warranty - av systems mock-up - training sessions - warranty, support & maintenance (1-year standard) - close-out documentation TDSB School Future Addition:	1,064 m2 1,064 m2	\$4.00 \$3.60	\$4,256 \$3,830	
342	NIL				
	TOTAL FOR FITTINGS & EQUIP Equipment	1.00 9,513 m2	\$378.41	\$3,599,796	
	B3.3 FITTINGS & EQUIPMENT - Conveying Systems				
	B3.31 - Elevators				
	TDSB School:				
343 343.1	Elevator, hydraulic, including: - Passenger elevator, serving 3 stops	3 STP	\$55,000.00	\$165,000	
	TOTAL FOR FITTINGS & EQUIP Conveying Systems	1.00 9,513 m2	\$17.34	\$165,000	

o	Description	Quant. Unit	Rate	Sub Total	Total
	C1. SERVICES - MECHANICAL				
	C1.1 Plumbing & Drainage				
	C1.11 - Plumbing Fixtures				\$247,
4	Commercial quality, water conserving fixtures and fittings serving new area c/w drain/waste assembly fittings, hoses, mounting accessories and hardware for fully functional operation:				
4.1	- Water closet - wall mounted c/w electronic flush valve			Included	
4.2	- Urinal - wall hung c/w electronic flush valve			Included	
4.3	- Lavatories - wall hung c/w electronic no touch faucet			Included	
4.4	- Shower assembly - hand held shower c/w manual mixing valve and trim			Included	
4.5	- Janitor mop sink - Precast floor mounted, faucet with hose set.			Included	
4.6	- Eyewash station for every janitor mop room			Included	
4.7	- Classroom counter sinks - double compartments sinks			Included	
4.8	- Kitchen counter sinks - double compartments sinks			Included	
4.9	- Drinking water fountain - wall mounted, barrier free	\$250,000 (\$250,000	gox beach - Zanna	Included	
4.10	- TDSB School	5,767 m2	\$26.00	\$149,942	
4.11	- Child Care Centre and EarlyOn	802 m2	\$26.00	\$20,852	
4.12	- Urban Indigenous Education	1,077 m2	\$26.00	\$28,002	
4.13 4.14	- Pool - TDSB School Future Addition	1,064 m2 803 m2	\$26.00 \$26.00	\$27,664 \$20,878	
4.14	- 1000 School Future Addition	0U3 MZ	⊅∠ 0.UU	\$20,878	
	C1.12 - Domestic Water			Į.	\$523
5	Allowance to provide new domestic cold/hot/recirculation piping to serve the				
	building new washrooms including all necessary valving and accessories.				
5.1	 Incoming domestic water service c/w backflow preventor 			Included	
5.2	- Packaged duplex booster pump set			Included	
5.3	- Indirect hot water storage tank equal to PVI (capacity unknown)			Included	
5.4	- Recirculation loop and recirculation pump			Included	
5.5	- Replaceable bladder expansion tank			Included	
5.6 5.7	- Thermostatic mixing valve (electronic type) - Domestic water piping, copper type "L" c/w joints, fittings and supports			Included Included	
5.8	- Thermal insulation for above piping			Included	
5.9	- Isolation, check and balancing valves			Included	
5.10	- Exterior non-freeze hosebibbs			Included	
5.11	- Interior hose bibbs serving washrooms and mech rooms			Included	
5.12	- Piping accessories such as shock absorbers, vents, drain valves, etc.			Included	
5.13	- Make-up water for hydronic system, swimming pool c/w BFP			Included	
5.14	- Electronic trap seal primers c/w PVC tubing			Included	
5.15	- TDSB School	5,767 m2	\$55.00	\$317,185	
5.16	- Child Care Centre and EarlyOn	802 m2	\$55.00	\$44,110	
5.17	- Urban Indigenous Education	1,077 m2	\$55.00	\$59,235	
5.18	- Pool	1,064 m2	\$55.00	\$58,520	
5.19	- TDSB School Future Addition	803 m2	\$55.00	\$44,165	
	C1.13 - Sanitary Waste & Vent				\$313
6	Allowance to provide new sanitary sewer piping to serve the building				
6.1	washrooms and shower areas including all necessary drains Connection to outgoing sanitary sewer line c/w main cleanout			Included	
6.2	Below grade sanitary sewer piping, PVC / DWV copper c/w fittings			Included	
6.3	- Excavation, trenching, bedding and backfilling			Included	
6.4	- Above grade sanitary piping copper DWV/cast iron hubless system			Included	
6.5	- Above grade vent piping, copper DWV c/w joints, fittings and supports			Included	
6.6	- Floor / Funnel Floor / trench drains c/w trap primer assembly			Included	
6.7	- Cleanouts and line items			Included	
6.8	- TDSB School	5,767 m2	\$33.00	\$190,311	
6.9	- Child Care Centre and EarlyOn	802 m2	\$33.00	\$26,466	
6.10	- Urban Indigenous Education	1,077 m2	\$33.00	\$35,541	
		1.004	\$33.00	\$35,112	
6.11 6.12	- Pool - TDSB School Future Addition	1,064 m2 803 m2	\$33.00	\$26,499	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	C1.14 - Storm				\$266,364
347	Allowance for full flow rain/storm water drainage system serving main and			_	
347.1	ancillary roofs c/w roof drains, leaders and laterals - TDSB School	5,767 m2	\$28.00	\$161,476	
347.2	- Child Care Centre and EarlyOn	802 m2	\$28.00	\$22,456	
347.3 347.4	- Urban Indigenous Education - Pool	1,077 m2 1,064 m2	\$28.00 \$28.00	\$30,156 \$29,792	
347.5	- TDSB School Future Addition	803 m2	\$28.00	\$22,484	
	C1.15 - Natural Gas				\$66,591
348	Allowance for natural gas system to boilers, water heaters and generator - cost prorated to all areas.				
348.1	- TDSB School	5,767 m2	\$7.00	\$40,369	
348.2 348.3	- Child Care Centre and EarlyOn - Urban Indigenous Education	802 m2 1,077 m2	\$7.00 \$7.00	\$5,614 \$7,539	
348.4	- Pool	1,064 m2	\$7.00	\$7,448	
348.5	- TDSB School Future Addition	803 m2	\$7.00	\$5,621	
	C1.16 - Specialty Systems:				\$15,000
	C1.16.1 - Irrigation				\$15,000
349	Provisional sum allowance for Irrigation system to green roof c/w valves, drip line, drip elements, controller and the like		See sepa	arate estimate	
350	Provisional sum allowance for Irrigation system to green roof terrace garden c/w valves, drip line, drip elements, controller and the like	1 LS	\$15,000.00	\$15,000	
	C1.17 - Miscellaneous Works and General Accounts				\$214,900
351	Supervision, job set up, clean up, small tools, rentals, submittal, permits $\&$ inspections, site and office, overhead and profit, etc.	1 NO	\$128,900.00	\$128,900	
352	Supervision, job set up, clean up, small tools, rentals, submittal, permits $\&$ inspections, site and office, overhead and profit, etc.	1 NO	\$17,900.00	\$17,900	
353	Supervision, job set up, clean up, small tools, rentals, submittal, permits & inspections, site and office, overhead and profit, etc.	1 NO	\$24,100.00	\$24,100	
354	Supervision, job set up, clean up, small tools, rentals, submittal, permits & inspections, site and office, overhead and profit, etc.	1 NO	\$23,800.00	\$23,800	
355	Supervision, job set up, clean up, small tools, rentals, submittal, permits & inspections, site and office, overhead and profit, etc.	1 NO	\$20,200.00	\$20,200	
	TOTAL FOR MECHANICAL - Plumbing & Drainage	1.00 9,513 m2	\$173.17	\$1,647,337	
	C1.2 Fire Protection			-	A.551
250	C1.21 - Standpipe	7.110	645.000.00	C45 000	\$190,130
356 357	Incoming fire water services c/w BFP and double check valve assembly	1 NO 1 NO	\$15,000.00	\$15,000 \$75,000	
357	An electric fire water booster pump assembly Fire department connection c/w check valve	1 NO	\$75,000.00 \$5,000.00	\$75,000 \$5,000	
359	Fire hose coverage is provided at each side of stage connected to sprinkler	1 110	Ψ0,000.00	Ψ0,000	
	mains. Fire hose valves are provided at each level at egress stairs and supplemented throughout as required.				
359.1 359.2	- TDSB School - Child Care Centre and EarlyOn	5,767 m2 802 m2	\$10.00 \$10.00	\$57,670 \$8,020	
359.3	- Urban Indigenous Education	1,077 m2	\$10.00	\$10,770	
359.4 359.5	- Pool - TDSB School Future Addition	1,064 m2 803 m2	\$10.00 \$10.00	\$10,640 \$8,030	
555.5	- 1505 CONTON I MAN C PAGNION	003 III2	ψ10.00	ψ0,030	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	C1.22 - Sprinklers				\$321,377
360	A complete sprinkler system to ordinary hazard NFPA 13 standards consisting of supervised valve & alarm check valve assembly, sch.40 black steel piping c/w joints, fittings, supports, drops and/or sprigs, & upright/concealed sprinkler heads will be provided. supervised sprinkler shutoff valve, flow switch, and test valve arrangement shall be provided at each level.				
360.1	- TDSB School	5,767 m2	\$33.00	\$190,311	
360.2	- Child Care Centre and EarlyOn	802 m2	\$33.00	\$26,466	
360.3 360.4	- Urban Indigenous Education - Pool	1,077 m2 1,064 m2	\$33.00 \$40.00	\$35,541 \$42,560	
360.5	- TDSB School Future Addition	803 m2	\$33.00	\$26,499	
	C1.24 - Fire Extinguisher				\$6,000
361	Fire extinguishers will be provided and located in accordance with Ontario Fire				
361.1	Code and City of Toronto requirements - TDSB School	14 NO	\$250.00	\$3,500	
361.2	- Child Care Centre and EarlyOn	2 NO	\$250.00	\$5,500 \$500	
361.3	- Urban Indigenous Education	3 NO	\$250.00	\$750	
361.4 361.5	- Pool - TDSB School Future Addition	3 NO 2 NO	\$250.00 \$250.00	\$750 \$500	
	C1.25 - Miscellaneous Works and General Accounts			Г	\$0
			9 9	L 100 T	
362	Supervision, site office, head office overheads, submittals, clean up, small tools, rentals and the like, rigging and preparation of 3D co-ordination drawings		Incli	uded in above	
	TOTAL FOR MECHANICAL - Fire Protection	00 9,513 m2	\$54.40	\$517,507	
	C1.3 Heating, Ventilation & Air Conditioning	00 9,513 m2	\$54.40	\$517,507	
		00 9,513 m2	\$54.40	\$517,507	\$1,522,080
363	C1.3 Heating, Ventilation & Air Conditioning C1.31 - Liquid Heat Transfer (Heating) Allowance for heating water plant including: natural gas boilers, circulation pumps, expansion tanks, air separator, chemical treatment plant, perimeter radiators, cabinet heaters, distribution pipes, line valves and hook-up	00 9,513 m2	\$54.40	\$517,507	\$1,522,080
	C1.3 Heating, Ventilation & Air Conditioning C1.31 - Liquid Heat Transfer (Heating) Allowance for heating water plant including: natural gas boilers, circulation pumps, expansion tanks, air separator, chemical treatment plant, perimeter				\$1,522,080
363.1 363.2	C1.3 Heating, Ventilation & Air Conditioning C1.31 - Liquid Heat Transfer (Heating) Allowance for heating water plant including: natural gas boilers, circulation pumps, expansion tanks, air separator, chemical treatment plant, perimeter radiators, cabinet heaters, distribution pipes, line valves and hook-up connections - TDSB School - Child Care Centre and EarlyOn	5,767 m2 802 m2	\$160.00 \$160.00	\$922,720 \$128,320	\$1,522,080
363.1 363.2 363.3	C1.3 Heating, Ventilation & Air Conditioning C1.31 - Liquid Heat Transfer (Heating) Allowance for heating water plant including: natural gas boilers, circulation pumps, expansion tanks, air separator, chemical treatment plant, perimeter radiators, cabinet heaters, distribution pipes, line valves and hook-up connections - TDSB School - Child Care Centre and EarlyOn - Urban Indigenous Education	5,767 m2 802 m2 1,077 m2	\$160.00 \$160.00 \$160.00	\$922,720 \$128,320 \$172,320	\$1,522,080
363.1 363.2 363.3	C1.3 Heating, Ventilation & Air Conditioning C1.31 - Liquid Heat Transfer (Heating) Allowance for heating water plant including: natural gas boilers, circulation pumps, expansion tanks, air separator, chemical treatment plant, perimeter radiators, cabinet heaters, distribution pipes, line valves and hook-up connections - TDSB School - Child Care Centre and EarlyOn	5,767 m2 802 m2	\$160.00 \$160.00	\$922,720 \$128,320	\$1,522,080
363.1 363.2 363.3 363.4	C1.3 Heating, Ventilation & Air Conditioning C1.31 - Liquid Heat Transfer (Heating) Allowance for heating water plant including: natural gas boilers, circulation pumps, expansion tanks, air separator, chemical treatment plant, perimeter radiators, cabinet heaters, distribution pipes, line valves and hook-up connections - TDSB School - Child Care Centre and EarlyOn - Urban Indigenous Education - Pool	5,767 m2 802 m2 1,077 m2 1,064 m2	\$160.00 \$160.00 \$160.00 \$160.00	\$922,720 \$128,320 \$172,320 \$170,240	
363.1 363.2 363.3 363.4	C1.3 Heating, Ventilation & Air Conditioning C1.31 - Liquid Heat Transfer (Heating) Allowance for heating water plant including: natural gas boilers, circulation pumps, expansion tanks, air separator, chemical treatment plant, perimeter radiators, cabinet heaters, distribution pipes, line valves and hook-up connections - TDSB School - Child Care Centre and EarlyOn - Urban Indigenous Education - Pool - TDSB School Future Addition	5,767 m2 802 m2 1,077 m2 1,064 m2	\$160.00 \$160.00 \$160.00 \$160.00	\$922,720 \$128,320 \$172,320 \$170,240	\$1,522,080 \$1,522,080 \$4,791,007
363.1 363.2 363.3 363.4	C1.3 Heating, Ventilation & Air Conditioning C1.31 - Liquid Heat Transfer (Heating) Allowance for heating water plant including: natural gas boilers, circulation pumps, expansion tanks, air separator, chemical treatment plant, perimeter radiators, cabinet heaters, distribution pipes, line valves and hook-up connections - TDSB School - Child Care Centre and EarlyOn - Urban Indigenous Education - Pool - TDSB School Future Addition	5,767 m2 802 m2 1,077 m2 1,064 m2 803 m2	\$160.00 \$160.00 \$160.00 \$160.00	\$922,720 \$128,320 \$172,320 \$170,240	
363.1 363.2 363.3 363.4 363.5	C1.3 Heating, Ventilation & Air Conditioning C1.31 - Liquid Heat Transfer (Heating) Allowance for heating water plant including: natural gas boilers, circulation pumps, expansion tanks, air separator, chemical treatment plant, perimeter radiators, cabinet heaters, distribution pipes, line valves and hook-up connections - TDSB School - Child Care Centre and EarlyOn - Urban Indigenous Education - Pool - TDSB School Future Addition C1.34 - Air Distribution TDSB School Heat recovery units - variable air volume unit consisting of dampers, mixing section, filters, glycol heating coil, split dx cooling with remote condenser, enthalpy wheel, supply fan with VSD, return fan with VSD, safeties and accessories - equal to Engineered Air Allowance for air distribution system including:	5,767 m2 802 m2 1,077 m2 1,064 m2 803 m2 5,767 m2 46,540 CFM	\$160.00 \$160.00 \$160.00 \$160.00 \$160.00	\$922,720 \$128,320 \$172,320 \$170,240 \$128,480	
363.1 363.2 363.3 363.4 363.5	C1.3 Heating, Ventilation & Air Conditioning C1.31 - Liquid Heat Transfer (Heating) Allowance for heating water plant including: natural gas boilers, circulation pumps, expansion tanks, air separator, chemical treatment plant, perimeter radiators, cabinet heaters, distribution pipes, line valves and hook-up connections - TDSB School - Child Care Centre and EarlyOn - Urban Indigenous Education - Pool - TDSB School Future Addition C1.34 - Air Distribution TDSB School Heat recovery units - variable air volume unit consisting of dampers, mixing section, filters, glycol heating coil, split dx cooling with remote condenser, enthalpy wheel, supply fan with VSD, return fan with VSD, safeties and accessories - equal to Engineered Air Allowance for air distribution system including: - VAV units	5,767 m2 802 m2 1,077 m2 1,064 m2 803 m2 5,767 m2 46,540 CFM	\$160.00 \$160.00 \$160.00 \$160.00 \$22.00	\$922,720 \$128,320 \$172,320 \$170,240 \$128,480	
363.1 363.2 363.3 363.4 363.5	C1.3 Heating, Ventilation & Air Conditioning C1.31 - Liquid Heat Transfer (Heating) Allowance for heating water plant including: natural gas boilers, circulation pumps, expansion tanks, air separator, chemical treatment plant, perimeter radiators, cabinet heaters, distribution pipes, line valves and hook-up connections - TDSB School - Child Care Centre and EarlyOn - Urban Indigenous Education - Pool - TDSB School Future Addition C1.34 - Air Distribution TDSB School Heat recovery units - variable air volume unit consisting of dampers, mixing section, filters, glycol heating coil, split dx cooling with remote condenser, enthalpy wheel, supply fan with VSD, return fan with VSD, safeties and accessories - equal to Engineered Air Allowance for air distribution system including:	5,767 m2 802 m2 1,077 m2 1,064 m2 803 m2 5,767 m2 46,540 CFM	\$160.00 \$160.00 \$160.00 \$160.00 \$160.00	\$922,720 \$128,320 \$172,320 \$170,240 \$128,480	
363.1 363.2 363.3 363.4 363.5 364 365.3 365.1 365.2 365.3 365.3	C1.3 Heating, Ventilation & Air Conditioning C1.31 - Liquid Heat Transfer (Heating) Allowance for heating water plant including: natural gas boilers, circulation pumps, expansion tanks, air separator, chemical treatment plant, perimeter radiators, cabinet heaters, distribution pipes, line valves and hook-up connections - TDSB School - Child Care Centre and EarlyOn - Urban Indigenous Education - Pool - TDSB School Future Addition C1.34 - Air Distribution TDSB School Heat recovery units - variable air volume unit consisting of dampers, mixing section, filters, glycol heating coil, split dx cooling with remote condenser, enthalpy wheel, supply fan with VSD, return fan with VSD, safeties and accessories - equal to Engineered Air Allowance for air distribution system including: - VAV units - Galvanized steel sheet metal distribution c/w thermal insulation - Thermal insulation - Air diffusion devices	5,767 m2 802 m2 1,077 m2 1,064 m2 803 m2 5,767 m2 46,540 CFM 47 NO 18,300 KG 2,820 m2 5,767 m2	\$160.00 \$160.00 \$160.00 \$160.00 \$160.00 \$22.00 \$26.00 \$50.00 \$18.00	\$922,720 \$128,320 \$172,320 \$170,240 \$128,480 \$1,023,880 \$69,810 \$475,800 \$141,000 \$103,806	
363.1 363.2 363.3 363.4 363.5 364 365.5 365.1 365.2 365.3	C1.3 Heating, Ventilation & Air Conditioning C1.31 - Liquid Heat Transfer (Heating) Allowance for heating water plant including: natural gas boilers, circulation pumps, expansion tanks, air separator, chemical treatment plant, perimeter radiators, cabinet heaters, distribution pipes, line valves and hook-up connections - TDSB School - Child Care Centre and EarlyOn - Urban Indigenous Education - Pool - TDSB School Future Addition C1.34 - Air Distribution TDSB School Heat recovery units - variable air volume unit consisting of dampers, mixing section, filters, glycol heating coil, split dx cooling with remote condenser, enthalpy wheel, supply fan with VSD, return fan with VSD, safeties and accessories - equal to Engineered Air Allowance for air distribution system including: - VAV units - Galvanized steel sheet metal distribution c/w thermal insulation - Thermal insulation	5,767 m2 802 m2 1,077 m2 1,064 m2 803 m2 5,767 m2 46,540 CFM	\$160.00 \$160.00 \$160.00 \$160.00 \$160.00 \$22.00 \$26.00 \$50.00	\$922,720 \$128,320 \$172,320 \$170,240 \$128,480 \$1,023,880 \$69,810 \$475,800 \$141,000	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	Child Care Centre and EarlyOn	802 m2			
366	Heat recovery units - variable air volume unit consisting of dampers, mixing section, filters, glycol heating coil, split dx cooling with remote condenser, enthalpy wheel, supply fan with VSD, return fan with VSD, safeties and accessories - equal to Engineered Air	6,500 CFM	\$22.00	\$143,000	
367	Allowance for air distribution system including:				
367.1 367.2	VAV units Galvanized steel sheet metal distribution c/w thermal insulation	7 NO 2,900 KG	\$1,500.00	\$9,750	
367.3	- Galvanized steel sheet metal distribution c/w thermal insulation - Thermal insulation	2,900 KG 450 m2	\$26.00 \$50.00	\$75,400 \$22,500	
367.4	- Air diffusion devices	802 m2	\$18.00	\$14,436	
367.5	- Motorized dampers	1 LS	\$5,000.00	\$5,000	
367.6 367.7	 Fire dampers Ductwork components such as dampers, turning vanes and duct connector 	1 LS 1 NO	\$5,000.00 \$7,540.00	\$5,000 \$7,540	
307.7	- Ductwork components such as dampers, turning values and duct connector	1 NO	\$7,540.00	Ψ1,340	
	Urban Indigenous Education	1,077 m2			
368	Heat recovery units - variable air volume unit consisting of dampers, mixing section, filters, glycol heating coil, split dx cooling with remote condenser, enthalpy wheel, supply fan with VSD, return fan with VSD, safeties and accessories - equal to Engineered Air	8,700 CFM	\$22.00	\$191,400	
369	Allowance for air distribution system including:		ž	2	
369.1 369.2	- VAV units - Galvanized steel sheet metal distribution c/w thermal insulation	9 NO	\$1,500.00	\$13,050 \$104.000	
369.2 369.3	- Galvanized steel sheet metal distribution c/w thermal insulation - Thermal insulation	4,000 KG 620 m2	\$26.00 \$50.00	\$104,000	
369.4	- Air diffusion devices	1,077 m2	\$18.00	\$19,386	
369.5	- Motorized dampers	1 LS	\$5,000.00	\$5,000	
369.6 360.7	- Fire dampers	1 LS 1 NO	\$5,000.00	\$5,000 \$10,400	
369.7	- Ductwork components such as dampers, turning vanes and duct connector	1 NO	\$10,400.00	\$10,400	
	Pool Addition	1,064 m2			
370	100% Outdoor constant air volume dehumidification/Natatorium unit c/w mixing dampers, mixing section, filters, split dx cooling with remote condenser, glycol heating coil, reheat coil, exhaust air heat recovery coil, associated outside air pre-heat coil, supply and return fans	31,900 CFM	\$40.00	\$1,276,000	
371	Allowance for air distribution system including terminal units including:				
371.1	- Aluminum ductwork to pool / change room areas	7,975 KG	\$75.00	\$598,125	
371.2	- Air diffusion devices	1,064 m2	\$50.00	\$53,200	
371.3	- Motorized dampers	1 LS	\$5,000.00	\$5,000	
371.4 371.5	 Fire dampers Ductwork components such as dampers, turning vanes and duct connector 	1 LS 1 NO	\$5,000.00 \$17,900.00	\$5,000 \$17,900	
	TDSB School Future Addition	803 m2			
372	Heat recovery units - variable air volume unit consisting of dampers, mixing section, filters, glycol heating coil, split dx cooling with remote condenser, enthalpy wheel, supply fan with VSD, return fan with VSD, safeties and accessories - equal to Engineered Air	6,900 CFM	\$22.00	\$151,800	
373	Allowance for air distribution system including:			20.	
373.1	VAV units Galvanized steel sheet metal distribution c/w thermal insulation	7 NO	\$1,500.00	\$10,350 \$75,400	
373.2 373.3	- Galvanized steel sheet metal distribution c/w thermal insulation - Thermal insulation	2,900 KG 450 m2	\$26.00 \$50.00	\$75,400 \$22,500	
373.4	- Air diffusion devices	803 m2	\$18.00	\$14,454	
373.5	- Motorized dampers	1 LS	\$5,000.00	\$5,000	
373.6	- Fire dampers	1 LS	\$5,000.00 \$7,540.00	\$5,000 \$7,540	
373.7	- Ductwork components such as dampers, turning vanes and duct connector	1 NO	\$7,540.00	\$7,540	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	C1.35 - Exhaust Systems				\$142,695
374	Central washroom / locker exhaust system with roof mounted exhaust fan, exhaust sheetmetal ductwork and grilles. Exhaust air is exhausted via a heat reclaim device. Kitchenette's are ducted to general exhaust. Mechanical and electrical rooms are provided with inline exhaust fan, intake and exhaust louvers, exhaust sheetmetal ductworks and grilles.				
374.1	- TDSB School	5,767 m2	\$15.00	\$86,505	
374.2	- Child Care Centre and EarlyOn	802 m2	\$15.00	\$12,030	
374.3 374.4	- Urban Indigenous Education - Pool	1,077 m2 1,064 m2	\$15.00 \$15.00	\$16,155 \$15,960	
374.5	- TDSB School Future Addition	803 m2	\$15.00	\$12,045	
	C1.36 - Specialty Systems				\$225,000
	Kitchen Exhaust				
375	Provisional sum allowance for NFPA rated kitchen exhaust c/w ecology unit	1 NO	\$150,000.00	\$150,000	
	Smudging Exhaust				
376	Provisional sum allowance for smudging exhaust	1 NO	\$75,000.00	\$75,000	
	C1.37 - Support Systems and Works				\$383,856
	C1.37.1 - Noise and Vibration Isolation				\$83,596
377	Vibration isolators and ductwork silencers will be provided to ensure quiet operation and to ensure noise levels from operation do not exceed above the required levels				
377.1	- TDSB School	5,767 m2	\$8.00	\$46,136	
377.2 377.3	- Child Care Centre and EarlyOn - Urban Indigenous Education	802 m2 1,077 m2	\$10.00 \$10.00	\$8,020 \$10,770	
377.4	- Pool	1,064 m2	\$10.00	\$10,640	
377.5	- TDSB School Future Addition	803 m2	\$10.00	\$8,030	
	C1.37.2 - Mechanical Wiring and Starters				\$0
378	All starters, motor control centers, line and load side wiring by Electrical Contractor				
	C1.37.3 - Balancing and Commissioning				\$190,260
379	The HVAC systems are balanced to design flow rates and equipment placed				
379.1	into prime operating condition via enhanced commissioning practices TDSB School	5,767 m2	\$20.00	\$115,340	
379.2	- Child Care Centre and EarlyOn	802 m2	\$20.00	\$16,040	
379.3	- Urban Indigenous Education - Pool	1,077 m2	\$20.00	\$21,540	
379.4 379.5	- TDSB School Future Addition	1,064 m2 803 m2	\$20.00 \$20.00	\$21,280 \$16,060	
	C1.37.6 - Generator Support				\$0
380	Assume self contained outdoor mounted natural gas generator with integral			Info Only	
	ventilation system. No mechanical support is required				

No.	Description	Quant. Uni	it Rate	Sub Total	Total
	C1.37.7 - Pool water heating System			Г	\$110,000
	Pool Water Heating System				-
381 381.1 381.2	Allowance for pool heating water heat exchanger c/w titanium plates - Heat exchanger for the pool - Heat exchanger heat-up for the pool	2 NO 2 NO	\$20,000.00 \$25,000.00	\$40,000 \$50,000	
382	Hook-up connection for pool heat exchangers c/w capped and valved connection for pool system connection	4 NO	\$5,000.00	\$20,000	
	Secondary side piping and associated system accessories by pool contractor			Info Only	
	C1.37.8 - Selective Demolition				\$0
	Demolition of existing school building is carried elsewhere in this estimate			By G.C	
	C1.38 - Miscellaneous Works and General Accounts				\$1,059,000
383	Supervision, job set up, clean up, small tools, rentals, submittal, permits & inspections, site and office, overhead and profit, etc.	1 NO	\$480,000.00	\$480,000	
384	Supervision, job set up, clean up, small tools, rentals, submittal, permits & inspections, site and office, overhead and profit, etc.	1 NO	\$67,000.00	\$67,000	
385	Supervision, job set up, clean up, small tools, rentals, submittal, permits & inspections, site and office, overhead and profit, etc.	1 NO	\$101,000.00	\$101,000	
386	Supervision, job set up, clean up, small tools, rentals, submittal, permits $\&$ inspections, site and office, overhead and profit, etc.	1 NO	\$343,000.00	\$343,000	
387	Supervision, job set up, clean up, small tools, rentals, submittal, permits $\&$ inspections, site and office, overhead and profit, etc.	1 NO	\$68,000.00	\$68,000	
	TOTAL FOR MECHANICAL - HVAC	1.00 9,513 m2	\$853.95	\$8,123,638	
	C1.4 MECHANICAL - Controls				
	C1.41 - Controls and Automation			[\$888,090
388	A new Building Automation System (BAS) consisting of direct digital controls (DDC) connected to TDSB central controls system is provided. The BAS controls and monitors all HVAC systems and equipment. System allows operators to start and stop equipment and will automatically control zone temperatures, air and water flow rates. System and system graphics allow full monitoring, trending and reporting of set points, equipment control and alarm functions. Damper and valve actuators are electric/electronic type with direct digital control (DDC). Ventilation rates are controlled by carbon dioxide sensors (demand ventilation) throughout the facility.				
388.1 388.2	- TDSB School - Child Care Centre and EarlyOn	5,767 m2 802 m2	\$90.00 \$90.00	\$519,030 \$72,180	
388.3 388.4 388.5	- Urban Indigenous Education - Pool - TDSB School Future Addition	1,077 m2 1,064 m2 803 m2	\$90.00 \$120.00 \$90.00	\$96,930 \$127,680 \$72,270	
	C1.42 - Miscellaneous Works and General Accounts			г	\$0
389	Supervision, site office, head office overheads, submittals, clean up, small tools rentals and the like, rigging and preparation of 3D co-ordination drawings		Included	in above rates	40
	TOTAL FOR MECHANICAL - Controls	1.00 9,513 m2	\$93.36	\$888,090	
		Total Mech Unit Rat	e \$1,174.87		

No.	Description	Quant. Unit	Rate	Sub Total	Total
	C2. SERVICES - ELECTRICAL				
	C2.1 ELECTRICAL - Service & Distribution				
	C2.11 - Main Service				\$127,700
	TDSB School				
390	1200A 347/600V main switchboard with main LSIG breakers, distribution breakers, SPD, DM \dots	1 NO	\$126,000.00	\$126,000	
391	HYDRO meter	1 NO	\$1,700.00	\$1,700	
	C2.12 - Emergency Power				\$272,780
	TDSB School				
392	130kW 347/600V natural gas generator	1 NO	\$135,900.00	\$135,900	
393	200A 347/600V generator distribution panel	1 NO	\$7,100.00	\$7,100	
394	100A 347/600V ATS c/w bypass	2 NO	\$21,800.00	\$43,600	
395	Emergency power distribution system with 347/600V mechanical distribution panels, 120/208V power and lighting panels and associated transformers	5,767 m2	\$10.20	\$58,823	
	Child Care Centre and EarlyOn				
396	Emergency power distribution system with 347/600V mechanical distribution panels, 120/208V power and lighting panels and associated transformers	802 m2	\$10.20	\$8,180	
	Urban Indigenous Education				
397	Emergency power distribution system with 347/600V mechanical distribution panels, 120/208V power and lighting panels and associated transformers	1,077 m2	\$10.20	\$10,985	
	TDSB School Future Addition				
398	Emergency power distribution system with 347/600V mechanical distribution panels, 120/208V power and lighting panels and associated transformers	803 m2	\$10.20	\$8,191	
	C2.13 - Distribution				\$242,582
	TDSB School				
399	Normal power distribution system with 347/600V mechanical distribution panels, 120/208V power and lighting panels and associated transformers	5,767 m2	\$25.50	\$147,059	
	Child Care Centre and EarlyOn				
400	Normal power distribution system with 347/600V mechanical distribution panels, 120/208V power and lighting panels and associated transformers	802 m2	\$25.50	\$20,451	
	Urban Indigenous Education				
401	Normal power distribution system with 347/600V mechanical distribution panels, 120/208V power and lighting panels and associated transformers	1,077 m2	\$25.50	\$27,464	
	<u>Pool</u>				
402	Normal power distribution system with 347/600V mechanical distribution panels, 120/208V power and lighting panels and associated transformers	1,064 m2	\$25.50	\$27,132	
	TDSB School Future Addition				
403	Normal power distribution system with 347/600V mechanical distribution panels, 120/208V power and lighting panels and associated transformers	803 m2	\$25.50	\$20,477	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	C2.14 - Feeders				\$260,265
	TDSB School				
404	Feeders for the above distribution equipment using rw90 copper conductors in EMT conduit	5,767 m2	\$28.56	\$164,706	
	Child Care Centre and EarlyOn				
405	Feeders for the above distribution equipment using rw90 copper conductors in EMT conduit	802 m2	\$28.56	\$22,905	
	Urban Indigenous Education				
406	Feeders for the above distribution equipment using rw90 copper conductors in EMT conduit	1,077 m2	\$28.56	\$30,759	
	<u>Pool</u>				
407	Feeders for the above distribution equipment using rw90 copper conductors in EMT conduit	1,064 m2	\$22.44	\$23,876	
	TDSB School Future Addition				
408	Feeders for the above distribution equipment using rw90 copper conductors in EMT conduit	803 m2	\$22.44	\$18,019	
	C2.15 - Motor Controls & Wiring				\$102,863
	TDSB School				
409	Elevator power connection including line and load side wiring and disconnect switch	1 NO	\$3,680.00	\$3,680	
410	Power connection with line and load side wiring for mechanical equipment	5,767 m2	\$10.20	\$58,823	
	Child Care Centre and EarlyOn				
411	Power connection with line and load side wiring for mechanical equipment	802 m2	\$10.20	\$8,180	
	<u>Urban Indiqenous Education</u>				
412	Power connection with line and load side wiring for mechanical equipment	1,077 m2	\$10.20	\$10,985	
	<u>Pool</u>				
413	Power connection with line and load side wiring for mechanical equipment	1,064 m2	\$15.30	\$16,279	
	TDSB School Future Addition				
414	Power connection with line and load side wiring for mechanical equipment	803 m2	\$6.12	\$4,914	
	C2.16 - Miscellaneous				\$90,556
	TDSB School				
415	Building grounding system	5,767 m2	\$2.55	\$14,706	
416	Lightning protection system	1 LS	\$60,000.00	\$60,000	
417	Supply and install roof-mounted 34.65kW PV system (99 solar panels)		See	separate price	
418	Infrastructure for roof mounted 34.65kW PV system		See	separate price	
419	Supply and install carport mounted 37.1kW PV system (106 solar panels)		See	separate price	
420	Infrastructure for carport mounted 37.1kW PV system		See	separate price	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	Child Care Centre and EarlyOn				
421	Building grounding system	802 m2	\$2.55	\$2,045	
	Urban Indigenous Education				
422	Building grounding system	1,077 m2	\$2.55	\$2,746	
	<u>Pool</u>				
423	Building grounding system	1,064 m2	\$2.55	\$2,713	
424	Pool grounding system	1 LS	\$6,300.00	\$6,300	
	TDSB School Future Addition				
425	Building grounding system	802 m2	\$2.55	\$2,045	
	C2.17 - Electrical Contractors Overhead				\$171,398
426 427 428 429 430 431 432 433 434 435 436 437 438 439	Supervision Premium time, etc. Job set-up, etc. Rentals, small tools, etc. Permits & inspections Insurance Performance bond Labour & material bond Contingency TDSB School Child Care Centre and EarlyOn Urban Indigenous Education Pool TDSB School Future Addition	1 LS 1 LS 1 LS 1 LS 1 LS	\$51,795.00 \$0.00 \$80,611.00 \$23,032.00 \$14,971.00 \$2,303.00 \$0.00 \$0.00 \$1.00	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$129,461 \$9,726 \$13,061 \$11,023 \$8,126	
	TOTAL FOR ELECTRICAL - Service & Distribution	1.00 9,513 m2	\$133.31	\$1,268,143	

C2.2 ELECTRICAL - Lighting, Devices & Heating

	C2.21 - Lighting			\$951,298
	Fixture costs include the supply and installation of fixtures with associated wiring and supports			
	TDSB School			
440	LED lighting to be provided throughout and based on the following:	5,767 m2	\$96.90	\$558,822
440.1 440.2 440.3 440.4 440.5	- Classroom, program room, offices, staff room, activity room using recessed troffers and potlights dimmable LED fixture - GYM using highbay LED fixtures - Changerooms and washrooms using surface mounted vapour tide LED fixtures - Circulation space using recessed potlights and wall mounted fixtures - Storage and service rooms using suspended industrial fixtures			
441	Exit signage, supplemental battery units, and emergency lighting control system		Included in	above rate
	Child Care Centre and EarlyOn			
442	LED lighting to be provided throughout and based on the following:	802 m2	\$96.90	\$77,714
442.1	- Classroom, program room, offices, staff room, activity room using recessed troffers and potlights dimmable LED fixture			
442.2 442.3 442.4	- Washrooms using surface mounted vapour tide LED fixtures - Circulation space using recessed pollights and wall mounted fixtures - Storage and service rooms using suspended industrial fixtures			
443	Exit signage, supplemental battery units, and emergency lighting control system		Included in	above rate

No.	Description	Quant. Unit	Rate	Sub Total	Total
	Urban Indigenous Education				
444	LED lighting to be provided throughout and based on the following:	1,077 m2	\$96.90	\$104,361	
444.1 444.2 444.3 444.4	- Classroom, program room, offices, staff room, activity room using recessed troffers and potlights dimmable LED fixture - Washrooms using surface mounted vapour tide LED fixtures - Circulation space using recessed potlights and wall mounted fixtures - Storage and service rooms using suspended industrial fixtures				
445	Exit signage, supplemental battery units, and emergency lighting control system		Included	in above rate	
	<u>Pool</u>				
446	LED lighting to be provided throughout and based on the following:	1,064 m2	\$178.50	\$189,924	
446.1	- Pool area using dual pendant highbay and surface mounted IP66 wet location				
446.2	LED fixtures - Changerooms and washrooms using surface mounted vapour tide LED fixtures				
446.3	- Circulation space using recessed potlights and wall mounted fixtures				
447	Exit signage, supplemental battery units, and emergency lighting control system		Included	in above rate	
	TDSB School Future Addition				
448	LED lighting to be provided throughout and based on the following:	803 m2	\$25.50	\$20,477	
448.1	- Using suspended industrial fixtures				
449	Exit signage, supplemental battery units, and emergency lighting control system		Included in above rate		
	C2.22 - Branch Devices & Wiring				\$268,062
	TDSB School				
450	Specialty/convenience receptacles and power connections c/w conduit and wire	5,767 m2	\$17.85	\$102,941	
451	Lighting control system including local switch/dimmer, occupancy sensors, daylight harvesting, etc	5,767 m2	\$12.75	\$73,529	
	Child Care Centre and EarlyOn				
452	Specialty/convenience receptacles and power connections c/w conduit and wire	802 m2	\$17.85	\$14,316	
453	Lighting control system including local switch/dimmer, occupancy sensors, daylight harvesting, etc	802 m2	\$12.75	\$10,226	
	Urban Indigenous Education				
454	Specialty/convenience receptacles and power connections c/w conduit and wire	1,077 m2	\$17.85	\$19,224	
455	Lighting control system including local switch/dimmer, occupancy sensors, daylight harvesting, etc	1,077 m2	\$12.75	\$13,732	
	<u>Pool</u>				
456	Specialty/convenience receptacles and power connections c/w conduit and wire	1,064 m2	\$15.30	\$16,279	
457	Lighting control system including local switch/dimmer, occupancy sensors, daylight harvesting, etc	1,064 m2	\$10.20	\$10,853	
	TDSB School Future Addition				
458	Specialty/convenience receptacles c/w conduit and wire	803 m2	\$5.10	\$4,095	
459	Lighting control system including local switch, etc	803 m2	\$3.57	\$2,867	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	C2.23 - Heating				\$0
460	Power connection with line and load side wiring for heating equipment	See (C2.15 - Motor Cor	ntrols & Wiring	
	C2.24 - Electrical Contractors Overhead				\$217,564
461 462 463 464 465 466 467 468 469 470 471 472 473 474	Supervision Premium time, etc. Job set-up, etc. Rentals, small tools, etc. Permits & inspections Insurance Performance bond Labour & material bond Contingency TDSB School Child Care Centre and EarlyOn Urban Indigenous Education Pool TDSB School Future Addition	1 LS 1 LS 1 LS 1 LS 1 LS	\$83,129.00 \$0.00 \$89,623.00 \$25,607.00 \$16,644.00 \$2,561.00 \$0.00 \$0.00 \$131,194.43 \$18,244.83 \$24,500.85 \$38,728.18 \$4,895.71	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$131,194 \$18,245 \$24,501 \$38,728 \$4,896	
	TOTAL FOR ELECTRICAL - Lighting, Devices & Heating	1.00 9,513 m2	\$151.05	\$1,436,924	
	C2.3 ELECTRICAL - Systems & Ancillaries			-	
	C2.31 - Fire Alarm System			L	\$216,623
475	TDSB School Addressable single stage fire alarm system consisting of a control panel c/w integral annunciator, pullstations, smoke/heat detectors, audible/visual alarms, etc	5,767 m2	\$23.46	\$135,294	
	Child Care Centre and EarlyOn				
476	Addressable single stage fire alarm system c/w integral annunciator, pullstations, smoke/heat detectors, audible/visual alarms, etc	802 m2	\$23.46	\$18,815	
	<u>Urban Indigenous Education</u>				
477	Addressable single stage fire alarm system c/w integral annunciator, pullstations, smoke/heat detectors, audible/visual alarms, etc	1,077 m2	\$23.46	\$25,266	
	Pool including changing room				
478	Addressable single stage fire alarm system c/w integral annunciator, pullstations, smoke/heat detectors, audible/visual alarms, etc	1,064 m2	\$23.46	\$24,961	
479	TDSB School Future Addition Addressable single stage fire alarm system c/w integral annunciator, pullstations, smoke/heat detectors, audible/visual alarms, etc	803 m2	\$15.30	\$12,286	
	C2.32 - Security System TDSB School				\$247,931
480	Security empty infrastructure system for access control system, video surveillance system, intercom system, and duress and intrusion system	5,767 m2	\$10.20	\$58,823	
481	Supply, programming, and installation of new security equipment	5,767 m2	\$18.36	\$105,882	
	Child Care Centre and EarlyOn				
482	Security empty infrastructure system for access control system, video surveillance system, intercom system, and duress and intrusion system	802 m2	\$10.20	\$8,180	
483	Supply, programming, and installation of new security equipment	802 m2	\$18.36	\$14,725	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	Urban Indigenous Education				
484	Security empty infrastructure system for access control system, video surveillance system, intercom system, and duress and intrusion system	1,077 m2	\$10.20	\$10,985	
485	Supply, programming, and installation of new security equipment	1,077 m2	\$18.36	\$19,774	
	Pool				
486	Security empty infrastructure system for access control system, video surveillance system, intercom system, and duress and intrusion system	1,064 m2	\$8.16	\$8,682	
487	Supply, programming, and installation of new security equipment	1,064 m2	\$15.30	\$16,279	
	TDSB School Future Addition				
488	Trunk conduit running to shell space	1 LS	\$4,600.00	\$4,600	
	C2.33 - Communications				\$307,968
	TDSB School				
489	Communications empty infrastructure system consisting of wall, floor, furniture, and ceiling mounted outlets, cable tray, plywood backboards, and sleeves	5,767 m2	\$10.20	\$58,823	
490	Vertical and horizontal cabling system c/w racks, patch-panels, and wire management	5,767 m2	\$25.50	\$147,059	
491	Allowance for backbone cabling	1 LS	\$8,700.00	\$8,700	
	Child Care Centre and EarlyOn				
492	Communications empty infrastructure system consisting of wall, floor, furniture, and ceiling mounted outlets, cable tray, plywood backboards, and sleeves	802 m2	\$10.20	\$8,180	
493	Vertical and horizontal cabling system c/w racks, patch-panels, and wire management	802 m2	\$25.50	\$20,451	
	Urban Indigenous Education				
494	Communications empty infrastructure system consisting of wall, floor, furniture, and ceiling mounted outlets, cable tray, and sleeves	1,077 m2	\$10.20	\$10,985	
495	Vertical and horizontal cabling system	1,077 m2	\$25.50	\$27,464	
	<u>Pool</u>				
496	Communications empty infrastructure system consisting of wall, floor, furniture, and ceiling mounted outlets, cable tray, and sleeves	1,064 m2	\$5.10	\$5,426	
497	Vertical and horizontal cabling system	1,064 m2	\$15.30	\$16,279	
	TDSB School Future Addition				
498	Trunk conduit running to shell space	1 LS	\$4,600.00	\$4,600	
	C2.34 - P.A. System				\$186,726
	TDSB School				
499	Public Address system c/w equipment devices and wiring	5,767 m2	\$12.75	\$73,529	
500	Audio visual device outlets and conduit infrastructure	5,767 m2	\$5.10	\$29,412	
501	Supply and installation of Audio visual cabling - equipment by others	5,767 m2	\$3.06	\$17,647	
	Child Care Centre and EarlyOn				
502	Public Address system c/w equipment devices and wiring	802 m2	\$12.75	\$10,226	
503	Audio visual device outlets and conduit infrastructure	802 m2	\$5.10	\$4,090	
504	Supply and installation of Audio visual cabling - equipment by others	802 m2	\$3.06	\$2,454	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	Urban Indigenous Education				
505	Public Address system c/w equipment devices and wiring	1,077 m2	\$12.75	\$13,732	
506	Audio visual device outlets and conduit infrastructure	1,077 m2	\$5.10	\$5,493	
507	Supply and installation of Audio visual cabling - equipment by others	1,077 m2	\$3.06	\$3,296	
	<u>Pool</u>				
508	Public Address system c/w equipment devices and wiring	1,064 m2	\$12.75	\$13,566	
509	Audio visual device outlets and conduit infrastructure	1,064 m2	\$5.10	\$5,426	
510	Supply and installation of Audio visual cabling - equipment by others	1,064 m2	\$3.06	\$3,256	
	TDSB School Future Addition				
511	Trunk conduit running to shell space	1 LS	\$4,600.00	\$4,600	
	C2.35 - Miscellaneous				\$237,027
	TDSB School				
512	Allowance for miscellaneous systems (Delivery intercom, gymnasium equipment, clocks)	5,767 m2	\$5.10	\$29,412	
513	Interspec classroom control panel	28 NO	\$4,500.00	\$126,000	
	Child Care Centre and EarlyOn				
514	Allowance for miscellaneous systems (Delivery intercom, gymnasium equipment, clocks)	802 m2	\$5.10	\$4,090	
515	Interspec classroom control panel	3 NO	\$4,500.00	\$13,500	
	Urban Indigenous Education				
516	Allowance for miscellaneous systems (clocks)	1,077 m2	\$2.55	\$2,746	
517	Interspec classroom control panel	10 NO	\$4,500.00	\$45,000	
	<u>Pool</u>				
518	Allowance for miscellaneous systems (Pool equipment outlet, clocks)	1,064 m2	\$15.30	\$16,279	
	C2.36 - Electrical Contractors Overhead				\$204,604
519 520 521 522 523 524 525 526 527 528 529 530 531 532	Supervision Premium time, etc. Job set-up, etc. Rentals, small tools, etc. Permits & inspections Insurance Performance bond Labour & material bond Contingency TDSB School Child Care Centre and EarlyOn Urban Indigenous Education Pool TDSB School Future Addition	1 LS 1 LS 1 LS 1 LS 1 LS	\$72,715.00 \$0.00 \$87,926.00 \$25,122.00 \$16,329.00 \$0.00 \$0.00 \$1.00 \$1.00 \$1.7,909.25 \$28,176.33 \$18,840.43 \$4,461.58	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$135,216 \$17,909 \$28,176 \$18,840 \$4,462	
	TOTAL FOR ELECTRICAL - Systems & Ancillaries	1.00 9,513 m2	\$147.26	\$1,400,879	
		Total Elec Unit Rate	\$431.61		

Total Elec Unit Rate \$431.61

lo.	Description	Quant. Unit	Rate	Sub Total	Total
	D. SITE & ANCILLARY WORK				
	D1.1 SITEWORK - Site Development				
	D1.11 - Preparation			[\$1,489,359
33	Clear and grub site	39,858 m2	\$5.00	\$199,290	
34	Strip topsoil and stockpile on site, assumed 150mm	5,979 m3	\$16.00	\$95,659	
35	Rough grading including cut and fill	45,365 m2	\$18.00	\$816,570	
36	Site protection and erosion control	932 m	\$80.00	\$74,560	
37	Temporary mud mat	1 LS	\$20,000.00	\$20,000	
38 38.1 38.2 38.3	Demolition of existing site elements including: - hard surfaces, assumed asphalt paving - soft surfaces, assumed sod - trees	6,582 m2 33,276 m2 1 LS	\$40.00 I \$20,000.00	\$263,280 ncluded Above \$20,000	
	D1.12 - Hard Surfaces			[\$913,030
39	Asphalt paving to parking and laneways	5,414 m2	\$90.00	\$487,260	
40	Concrete curbs	2,117 m	\$80.00	\$169,360	
11	Concrete paving to walkways	1,911 m2	\$120.00	\$229,320	
42	Allowance for concrete equipment pads	1 LS	\$5,000.00	\$5,000	
43 43.1 43.2 43.3 43.4 43.5	Line painting to parking lot - standard stalls - disable signage (paint on parking lot) - arrow markings - handicapped stalls - pedestrian crossing line paint	116 NO 4 NO 8 NO 26 m2 49 NO	\$50.00 \$250.00 \$250.00 \$40.00 \$250.00	\$5,800 \$1,000 \$2,000 \$1,040 \$12,250	
	D1.13 - Improvements			[\$521,922
44	Chain link fence	903 m	\$150.00	\$135,450	
45	Allowance for parking signage	18 NO	\$1,200.00	\$21,600	
46	Sweat lodge	43 m2	\$2,000.00	\$86,000	
47	Lacrosse Field	5,854 m2	\$18.00	\$105,372	
48	Outdoor Gathering Space/Pavilion	225 m2	\$500.00	\$112,500	
49	Children playground	305 m2	\$200.00	\$61,000	
	D1.14 - Landscaping			[\$933,572
50	Seed and topsoil	19,734 m2	\$5.00	\$98,672	
51	Regenerative forest, assume heavily forested trees and ground covers	6,054 m2	\$100.00	\$605,400	
52	Allowance for planting beds including topsoil and planting material	1 LS	\$100,000.00	\$100,000	
53	Allowance for trees (larger, small)	53 NO	\$1,500.00	\$79,500	
54	Allowance for shrubs, plantings, and ground covers	1 LS	\$50,000.00	\$50,000	

	D1.2 SITEWORK - Mechanical Site Services				
	<u>D1.21 - Water</u>				\$75,000
555	Provide new incoming water service to building	1 NO	\$75,000.00	\$75,000	
	D1.22 - Sanitary				\$75,000
556	Provide new outgoing sanitary service	1 NO	\$75,000	\$75,000	
	D1.23 - Storm				\$1,071,450
557	Provide new outgoing storm service	1 NO	\$75,000.00	\$75,000	
558	Provide storm water drainage to site including catchbasins, manholes, oil/grit interceptor, storm water management tanks, piping, etc.	39,858 m2	\$25.00	\$996,450	
	D1.24 - Natural Gas			[\$0
559	New incoming gas service by Enbridge				
	D1.25 - Specialty Systems			[\$50,000
560	Allowance for irrigation	1 LS	\$50,000.00	\$50,000	
	D1.26 - Miscellaneous Works and General Accounts			[\$0
561	Included in above rates				
	TOTAL FOR SITE WORK - Mechanical Site Services	4.19 39,858 m2	\$31.90	\$1,271,450	
	D1.3 SITEWORK - Electrical Site Services				
	D1.31 - Site - Power				\$210,986
562	Allowance for Utility cabling and connection charge	1 LS	\$85,000.00	\$85,000	
563	Transformer and generator concrete pad and grounding	2 NO	\$13,600.00	\$27,200	
564	4-103mm PVC concrete encased ductbank for primary power	30 m	\$385.98	\$11,579	
565	6-103mm PVC concrete encased ductbank for secondary power	40 m	\$551.83	\$22,073	
566	#500 rwu90 secondary conductor	600 m	\$69.23	\$41,538	
567	#2/0 rwu90 secondary ground conductor	150 m	\$21.20	\$3,180	
568	2-103mm PVC concrete encased ductbank for generator	30 m	\$385.98	\$11,579	
569	#3/0 rwu90 generator conductor	160 m	\$25.94	\$4,150	
570	#2 rwu90 generator ground conductor	40 m	\$12.14	\$486	
571	Power and communication connection to exterior pylon sign	1 NO	\$4,200.00	\$4,200	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	D1.32 - Site - Communications				\$47,839
572	4-103mm incoming communications ductbank	40 m	\$385.98	\$15,439	
573	Allowance for exterior CCTV camera	1 LS	\$32,400.00	\$32,400	
	D1.33 - Site - Lighting				\$96,400
574	Allowance for efficient LED lighting to be provided throughout and based on the following:	1 LS	\$94,600.00	\$94,600	
574.1 574.2 574.3	- Surface mounted fixtures - Bollard lights for walkway - Pole mounted fixtures	40 6 8			
575	Exterior lighting controller c/w contactor, photocell, timeclock	1 LS	\$1,800.00	\$1,800	
	D1.34 - Site - Electrical Contractors Overhead				\$49,304
576 577 578 579 580 581 582 583 584 585	Supervision Premium time, etc. Job set-up, etc. Rentals, small tools, etc. Permits & inspections Insurance Performance bond Labour & material bond Contingency Site	1 LS	\$10,140.00 \$26,109.00 \$7,460.00 \$4,849.00 \$7.00 \$0.00 \$0.00 \$0.00 \$0.00 \$49,304.00	\$0 NA \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	
	TOTAL FOR SITE WORK - Electrical Site Services D2.1 ANCILLARY WORK - Demolition	4.19 39,000 III2	\$10.15	J4U4,J23	
	D2.11 - Demolition				
586	Demolish and dispose existing building D2.12 - Hazardous Materials	52,270 m2	\$80.00	\$4,181,600	
587	This estimate excludes allowances for asbestos abatement and the handling of hazardous materials			Excluded	
	TOTAL FOR ANCILLARY WORK - Demolition	1.00 9,513 m2	\$439.57	\$4,181,600	
588	D2.2 ANCILLARY WORK - Alterations D2.21 - Alterations NIL				
	TOTAL FOR ANCILLARY WORK - Alterations	0.00 0 m2	\$0.00	\$0	

No.	Description	Quant. Unit	Rate	Sub Total	Total
	Z. GENERAL REQUIREMENTS & CONTINGENCIES				
	Z1.1 GENERAL REQUIREMENTS & FEES - General Requirements				
	Z1.11 - Supervision & Labour Expenses				
589	Allowance for the General Contractor's supervision & labour expenses as follows:	1 LS	\$3,442,420	\$3,442,400	6.0%
589.1 589.2 589.3	- supervision and coordination of subcontractors - site superintendent and vehicle - general labour expenses				
	Cash Allowances				\$0
590	Independent inspection and testing			Excluded	
591	Door hardware supply		Inc	luded in B 1.2	
	Z1.13 - Permits, Insurance & Bonds			Г	\$1,388,184
592	Building permit	1 LS	\$412,184	\$412,184	
593	General Liability and Builder's Risk insurance	1 LS	\$402,000	\$402,000	
594	Labour & Material and Performance bonding	1 LS	\$574,000	\$574,000	
	TOTAL FOR GEN. REQ'MENTS & FEES - Gen. Req'ments	1.00 9,513 m2	\$507.79	\$4,830,584	
	Z1.2 GENERAL REQUIREMENTS & FEES - Fees				
	Z1.21 - General Contractor's Fees				
595	Allowance for the General Contractor's Fees (Head Office Overhead, Profit and Risk). (applied to measured works plus general requirements)	1 LS	\$2,488,170	\$2,488,000	4.0%
	TOTAL FOR GEN. REQ'MENTS & FEES - Fees	1.00 9,513 m2	\$261.54	\$2,488,000	
	Z2.1 ALLOWANCES - Design Contingency				
596	Design Contingency as a percentage of the above to cover increases in the overall scope of the design during the remaining stages of the design phase (applied to measured works plus general requirements and fees)				
596.1 596.2 596.3 596.4 596.5	- Architectural - Structural - Siteworks - Mechanical Services - Electrical Services	1 LS 1 LS 1 LS 1 LS 1 LS	\$3,488,700 \$1,663,900 \$780,000 \$1,575,300 \$578,700	\$3,488,700 \$1,663,900 \$780,000 \$1,575,300 \$578,700	12.5% 12.5% 12.5% 12.5% 12.5%
	TOTAL FOR ALLOWANCES - Design Contingency	1.00 9,513 m2	\$850.06	\$8,086,600	

No.	Description	Quant. Unit	Rate	Sub Total	Total
597	Z2.2 ALLOWANCES - Escalation Contingency Contingency for escalation that might occur between the date of the estimate and the anticipated tender date (applied to measured works plus general requirements, fees and Design Contingency)	1 LS	\$11,157,000	\$11,157,000	15.3%
	TOTAL FOR ALLOWANCES - Escalation Contingency	1.00 9,513 m2	\$1,172.82	\$11,157,000	
598	Z2.3 ALLOWANCES - Construction Contingency Construction Contingency for post contract changes (applied to measured works plus general requirements, fees, Design Contingency and Escalation Contingency)	1 LS	\$4,196,800	\$4,196,800	5.0%
	TOTAL FOR ALLOWANCES - Construction Contingency	1.00 9,513 m2	\$441.16	\$4,196,800	

Kapapa	mahchakwew - Wandering Spirit School	Total	School	Childcare
	Unique Costs		80%	20%
Building				
PREMIUM	FOR NET ZERO MEASURES - PHASE 1			
	Premium for mass timber wood	\$850,000	\$680,000	\$136,000
	Premium for ASHP heating with backup electric boiler	\$1,698,000	\$1,358,400	\$271,680
	Premium for GSHP heating / cooling with	\$4,506,000	\$3,604,800	\$720,960
	Provisional sum allowance for Irrigation	\$32,000	\$25,600	\$5,120
	Photovoltaic solar panels on roof	\$311,000	\$248,800	\$49,760
	PV Parking Canopies including foundation	\$3,006,000	\$2,404,800	\$480,960
	Bioswale including, geotextile	\$320,000	\$256,000	\$51,200
	Total	\$10,723,000	\$8,578,400	\$1,715,680
Building				
	Premium for Deep Foundation	\$420,000	\$336,000	\$84,000
Site				
Abatemer	t & Disposal			
Estimated	Abatement Fees	\$4,277,650	\$3,422,120	\$855,530
Soil Dispo	sal and Re-use			
	contaminated soils, poor soils, construction dewatering	\$5,458,471	\$4,366,777	\$1,091,694.25
Municipal	/ Other Costs			
	Air Quality - Short Term Bicycle Parking	\$7,280	\$5,824	\$1,456
	Air Quality - Connectivity & Sidewalk Space	\$58,348	\$46,678	\$11,670
	Urban Heat Island Reduction at Grade	\$14,586	\$11,669	\$2,334
	Air Quality - Green & Cool Roofs	\$165,984	\$132,787	\$26,557
	Ecology - Tree Protection \$	\$20,000	\$16,000	\$3,200
	Ecology - Tree Planting/Urban Forest	\$18,480	\$14,784	\$2,957
	Ecology - Soil Volumes	\$19,320	\$15,456	\$3,091
	Ecology - Bird Friendly Glazing	\$106,120	\$84,896	\$16,979
	Stormwater Management	\$65,000	\$52,000	\$10,400
	Sidewalk widening and reconstruction	\$75,797	\$60,638	\$12,128
	Off-Site Infrastructure Improvements - Storm	\$112,000	\$89,600	\$17,920
	Municipal Servicing City Works Premium - Sanitary & Wa	\$22,400	\$17,920	\$3,584
	Hydro Vault	\$42,860	\$34,288	\$6,858
	Toronto Hydro Premium \$	\$22,400	\$17,920	\$3,584
	Enbridge Gas Premium \$	\$4,000	\$3,200	\$640
	Total	\$754,575	\$603,660	\$123,357

Kapapamahchakwew - Wandering Spirit School

Appendix G

		Start	Finish
Pre-Design	Ministry Project Approval	April 2024	
	Architect Selection	May 2024	July 2024
Design	Schematic Design	July 2024	Nov 2024
	Background Site Studies	Oct 2024	8
	Class C Estimate (25%)	Dec 2024	Feb 2025
	Design Development	Feb 2025	July 2025
Approvals	SPA Pre-Consultation Meeting	Jan 2025	
	Zoning Review	Jan 2025	Feb-25
	Site Plan Approval	Dec 2024	June 2026
	Minor Variance (if required)		
	NOAC		June 2026
	Building Permit	June 2026	Sep-26
Construction Documents			
	30% Construction doc Submission	July 2025	Nov-25
	85% Construction doc Submission	Nov 2025	May-26
	Class B Estimate and Board Review	May 2026	Jun-26
Bidding & Negotiation	Tender	Sept 2026	Nov 2026
	Award Construction Contract	Nov 2026	Dec 2026
Construction	Construction (incl partial demolition of eastern commerce)	Jan 2027	Jul-28
	Occupancy	July 2028	Aug-28
	School Opening	Sept 2028	Sep-28