

FACILITIES AND SERVICES

APPENDIX "B" TO REPORT NUMBER 133 OF THE PLANNING AND BUDGET COMMITTEE – October 28, 2009

TO:	Planning and Budget Committee
SPONSOR:	Ron Swail, Assistant Vice-President, Facilities and Services
CONTACT INFO:	416-978-5855 or email: ron.swail@utoronto.ca
DATE:	October 8 for October 28, 2009

AGENDA ITEM: 6

## **ITEM IDENTIFICATION:**

Utilities Infrastructure Renewal for the St. George Campus

#### JURISDICTIONAL INFORMATION:

The Planning and Budget Committee considers reports of project planning committees and recommends to the Academic Board approval in principle of infrastructure renewal projects with a projected cost of more than \$2 million (i.e. site, space plan, overall cost and sources of funds).

#### **PREVIOUS ACTION TAKEN:**

A report tabled at the Planning and Budget Committee in May 2008 and later approved by Governing Council described the imminent problems of power shortages in the southeast quadrant of the St. George campus. That report concentrated on refeeding the Wallberg Building but noted that a subsequent plan would be drafted to address the same issue at the Medical Sciences Building.

#### **HIGHLIGHTS:**

The continual growth of research and academic activities on campus has put a strain on the existing electrical distribution system that supports both the facilities themselves and the cooling systems needed to keep them operating. New buildings necessitate the extension of district energy systems to supply heat and cooling.

This program can be broken down into three projects:

1. The construction of a new electrical feeder from the University's system to the Medical Sciences Building. This will allow MSB to be separated from the Sandford Fleming Building feeder loop, making more power available to both over-subscribed buildings. The Galbraith Building, which is also at capacity, can be sub-fed from Sandford Fleming. The estimated cost is \$5 million.

- 2. The chiller plant that serves most of the buildings in the southeast quadrant of the campus is not able to provide sufficient capacity during the hottest parts of the summer. An additional chiller and cooling tower would improve the existing problem as well as provide capacity to serve new buildings planned for this area. The estimated cost is \$3.55 million.
- 3. Most buildings on campus are provided with efficiently produced heat from the Central Steam Plant at Russell Street. While this plant has sufficient nominal boiler capacity to serve the new facilities that are planned to be built, bottlenecks exist in the water treatment capacity and emergency oil storage that effectively reduce the amount of steam that can be distributed. The estimated cost for correction of these issues is \$2.6 million.

## FINANCIAL AND/OR PLANNING IMPLICATIONS:

In order to allow the enlargement of the research mission of the University and the continued servicing of all facilities with reliable, efficient energy sources a substantial capital investment is required now.

#### **RISK IMPLICATIONS:**

Failure of any segment of the electrical feeder loop that serves Sandford Fleming and Medical Sciences as it stands now would necessitate load shedding in order to partially supply the buildings while a full repair is implemented. After the work described above, such an emergency situation would be dealt with by relatively quick switching and no load shedding would be needed.

While it may be an understandable situation to have insufficient cooling capacity during periods of extreme temperatures in some buildings, it is less acceptable in buildings that specialize in medical research.

Failure to remediate the underground fuel tank that provides back-up supplies to the central plant would result in the forced decommissioning of the tank under the orders of the Technical Standards and Safety Authority.

#### **RECOMMENDATION:**

It is recommended that the Planning and Budget Committee recommend to the Academic Board:

- THAT the Utilities Infrastructure Renewal program of projects be approved, at a total cost not to exceed \$11.232 million, with funding as follows:
  - \$5 million from utilities infrastructure renewal funds and the balance a loan to be repaid by increasing the annual utilities budget by \$720,000.

## Project Planning Report for a Program of Utilities Infrastructure Renewal Projects for the St. George Campus

## I Background Information

The constant increase of research activities and academic growth on campus has put a strain on the existing electrical distribution system that supports both the laboratories themselves and the heating and cooling systems needed to keep them operating. In May 2008, a report to the Planning and Budget Committee (which was eventually approved at Governing Council) noted that the southeast quadrant of the campus urgently needed new power sources. That first report concentrated on re-feeding the Wallberg Building from Toronto Hydro, a project which is now complete. It also noted that a subsequent plan would be drafted to address the same issue at the Medical Sciences Building.

The Medical Sciences Building contains a central chiller plant serving 15 surrounding buildings including the Terrence Donnelly Centre for Cellular Bio-molecular Research, the Leslie Dan Pharmacy Building, the Tanz Neuroscience Building, the Fitzgerald Building and other academic and administrative buildings. The portfolio of facilities served by this plant has grown without always a corresponding increase in production capacity. During the past two summers during periods of high heat and humidity, the chillers have not been able to keep up with the cooling requirements of the area, resulting in warmer, more humid space conditions. While this may be an acceptable and understandable situation during heat waves in other functional type buildings, it is not acceptable in laboratory buildings which specialize in medical research. Therefore, another chiller will need to be added to the Medical Sciences central plant to correct this problem.

Unfortunately, a new chiller cannot simply be added to the existing system as it now stands. Spare electrical capacity is not available at the Medical Sciences Building. At the same time, spare electrical capacity is now unavailable in both the Sandford Fleming Building and the Galbraith Building. In fact, the electrical feeder loop that supplies the south east area of the campus is already overloaded. Should there be a failure of any segment of the loop the normal procedure is to feed power to a building in the reverse direction, bypassing the failed segment. This allows the power to be quickly restored through simple switching. As it stands now, a feeder failure would necessitate load shedding in order to partially supply the buildings while a full repair is implemented.

In addition, building projects either now in the planning or construction stage such as the Rotman expansion or on the horizon such as the developments at Site #12 will tax the remaining spare steam production capacity requiring improvements to be made in order that these facilities may be fed from the efficient district energy system that the University has developed.

#### II. Impact on the Academic Plan

Failure to deal with the capacity shortage of heating, cooling and electricity would mean that certain new buildings would not benefit from efficiencies inherent in district energy systems, and existing facilities with expanding programs would not be served adequately. If power is not re-supplied to Medical Sciences, the growing research program in the southeast quadrant of the campus can not be accommodated and the southeast area would suffer from inadequate cooling capacity. New buildings projected for the area like Enabling Technologies in the longer term would have to have their own local cooling systems instead of being able to connect to a centralized system which saves equipment costs and valuable floor area in the buildings.

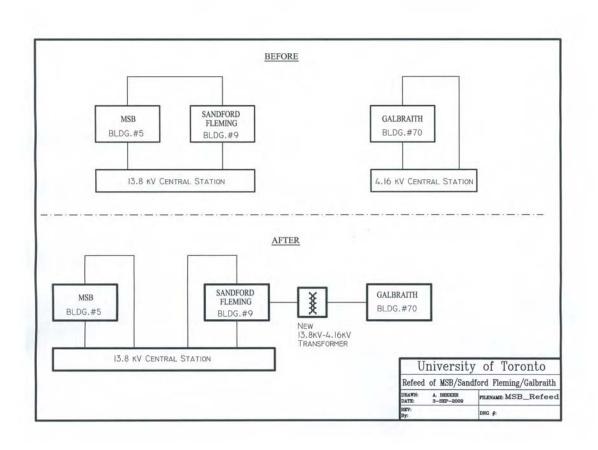
## III. Project Description

# (a) New electrical feed to Medical Sciences, Sandford Fleming and Galbraith buildings

The Medical Sciences Building and the Sandford Fleming Building are both fed from Loop 1 on the 13,800 volt system. The Galbraith Building is fed from Loop 6 on the 4,160 volt system. A plan has been proposed to re-feed the Medical Sciences Building with a new 13,800 volt feeder in a new buried duct bank from the central station at Russell Street. This will provide the Medical Sciences Building with full capacity from the loop feeders without de-rating due to heat build-up in the ducts. The Galbraith Building will then be re-fed from the Sandford Fleming Building which is fed from the existing 13.8kV loop feeders.

The capacity available at the University's central station is the result of re-feeding certain large buildings such as the Bahen Centre for Information Technology and the Wallberg/Pratt Building directly from Toronto Hydro to deal with shortfalls on the distribution feeder system.

The implementation of this plan will entail burying a 13.8 kV duct bank from Russell and Huron, across St. George Street to the Medical Sciences Building to create a new loop. Sandford Fleming will remain in the existing loop and sub-feed the Galbraith Building. Since the Galbraith Building has been fed at a different voltage until now, a new substation with new transformers would have to be located there, requiring an allocation of space and re-work of the building components. Re-work of the feeders and high voltage equipment at the Sandford Fleming end of the system would also have to take place. Allocation of space and re-work of the high voltage switchboard is required to accommodate additional switchgear in order to sub-feed Galbraith's other loads.

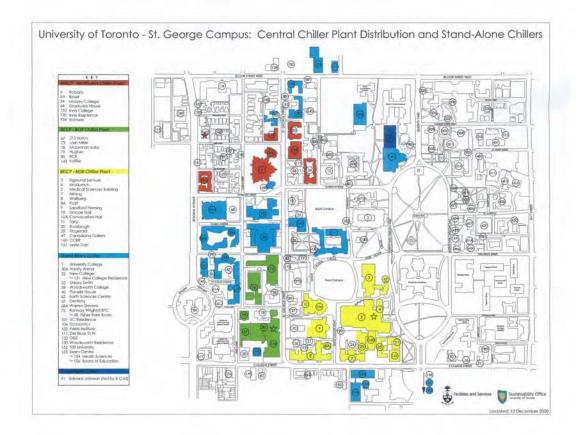


#### (b) New chiller for the southeast quadrant of campus

The chiller plant housed in the Medical Sciences Building feeds chilled water for air conditioning to 15 buildings in the area (Gerstein, Canadiana, McMurrich, Tanz, Leslie Dan Pharmacy, Fitzgerald, CCBR, Rosebrugh, Mining, Wallberg, Pratt, Sandford Fleming, Simcoe Hall, Convocation Hall and MSB). Loads from steadily growing research, academic and administrative activities in many of these buildings have increased to the point where it is not possible to maintain proper cooling and dehumidification in many of the facilities during hot periods of the summer. It is inevitable that this trend will continue, putting critical research at risk – there is now no effective standby capacity to cover potential breakdowns of equipment.

It is proposed to augment the capacity in the plant with a new 2,500 Rton chiller. There is sufficient space in the MSB chiller room for this equipment. As well, cooling tower and pumping capacity will be augmented.

It is important to note that this project can only be initiated if the companion project – the electrical re-feed of MSB, Sandford Fleming and Galbraith – is completed.



## (c) Increasing heat production at the Central Steam Plant

The Central Steam Plant on Russell Street provides heat to 85% of campus buildings as well as the Trinity, St. Michael's and Victoria College campuses. The plant consists of 4 large boilers as well as a waste heat boiler that uses heat from the cogeneration operation and a direct contact heat recovery system that further gleans heat from the exhaust gases that would otherwise be wasted up the chimney. While the total capacity of this equipment is sufficient to heat the space planned for development on campus, various bottlenecks in the system such as the capacity to produce treated feed water, and the limited quantity of oil we have as a standby fuel for periods when natural gas is not available prevent the full boiler capacity from being used.

While the heat distribution system returns more than 90% of its condensate to the plant conserving the residual heat, this water must be processed in a de-aerator. The existing equipment is operating at its maximum. The water treatment facility must be expanded to allow additional boiler capacity to be exploited.

The Technical Standards and Safety Authority has indicated that the 405,000 litre underground concrete oil storage tanks that serves the plant will no longer be acceptable in its current form. This problem can be solved by installing independent metal or plastic tanks inside the concrete vault of the old tanks. This will allow us to keep sufficient oil stored on site to cover periods when natural gas is not available, either from an emergency in the system, or when Enbridge exercises its right to curtail the gas supply as part of the terms of the lucrative interruptible contract that saves the University about \$1 million per year.

## IV. Special Considerations

#### Landscaping

Routing cable under university roads and paved or landscaped areas must be performed by tunneling or open cut excavations with restoration of the area to the original condition included in the project.

## V. Resource Implications

#### Capital cost estimate

The Total Project Cost Estimate for this program of projects can be summarized as:

Re-feed power to Medical Sciences, Sandford Fleming and Galbraith	5,000,000
Additional chiller in southeast chiller plant	3,550,000
Increase steam plant capacity	2,600,000
Construction financing	<u>82,000</u>
Total	\$11,232,000

(See Appendix A for detailed breakdown)

## **Operating Costs**

Increased power and natural gas costs will be incurred by the University as a result of the research performed in new labs and buildings and will be captured in the reports for those facilities.

## VI. Funding Sources

Required funds will be obtained by borrowing internally for a period of 25 years with the principal and interest paid from the annual utilities budget. The cost of the annual principal and interest payments would be added to the central utilities budget and spread equitably across the St. George divisions in accordance with the new budget model. In addition, an annual contribution of \$1,000,000 will be made in each of the first five years from the utilities infrastructure renewal reserve fund.

Should there be surpluses available in the central utilities budget due to energy purchases less than budget, these surpluses will be put towards paying down the principal.

Assuming current interest rates for a loan with a 25 year term, payments will be \$720,000 per year.

## VII. Schedule

The increased capacity provided by this work is required as soon as possible in order to allow certain research initiatives to proceed without inconvenient scheduling of academic activities to prevent overloads. It is proposed that the chiller project be initiated after the start of the electrical re-feed project in order to provide the required lead time.

A proposed project schedule is attached as Appendix B.

## VIII. Recommendations

It is recommended that the Planning and Budget Committee recommend to the Academic Board:

- THAT the Utilities Infrastructure Renewal program of projects be approved, at a total cost not to exceed \$11.232 million, with funding as follows:
  - \$5 million from utilities infrastructure renewal funds and the balance a loan to be repaid by increasing the annual utilities budget by \$720,000.

## Appendices:

- Total Project Costs Estimates Project timeline A.
- B.

## **APPENDIX A**

Total project cost estimates

NO     TEM     REMARKS     BASE COST     GST(1.65%)     COST       855730     Main contract     \$950,000     \$15,575     \$995,000     \$15,575     \$995,000     \$15,575     \$995,000     \$16,585     \$995,000     \$16,585     \$995,000     \$16,586     \$965,756     \$15,575     \$995,000     \$1,686     \$965,756     \$15,000     \$1,585     \$15,575     \$15,000     \$1,585,85     \$15,000     \$1,585,85     \$15,000     \$1,585,85     \$15,000     \$1,585,95     \$15,575     \$11,759,575		COST ESTIMATE	PROJECT: Increased steam capacity at CS	P		
CONSTRUCTION     S5730     Main contract     \$9560.000     \$15.675     \$9065.       85730     Main contract     \$0     \$0     \$0     \$0       85752     Other contract     \$0     \$0     \$0     \$0       85757     Construction Contingency     10%     \$95.000     \$11.660     \$00       85756     Demotion     \$0     \$0     \$0     \$0     \$101.000     \$11.670     \$11.700       85766     Demotion     \$0     \$0     \$0     \$11.770     \$11			U OF T PROJECT NO:	DAGE GOOT		000T
835730     Main contract     \$980.000     \$15.675     \$9857.8       835742     Other contract     \$0     \$0     \$0       835747     Construction Contingency     10%     \$35.000     \$1.688     \$86.       835747     Construction Contingency     10%     \$35.000     \$1.688     \$87.600     \$1.688     \$87.600     \$1.688     \$87.600     \$1.688     \$87.600     \$1.688     \$87.600     \$1.680     \$87.600     \$1.680     \$87.600     \$1.680     \$87.600     \$1.680     \$87.600     \$1.680     \$87.600 </td <td></td> <td></td> <td>REMARKS</td> <td>BASE COST</td> <td><u>GST(1.65%)</u></td> <td>COST</td>			REMARKS	BASE COST	<u>GST(1.65%)</u>	COST
83572     Other contract     \$0     \$0       83574     Secondary effects     \$0     \$0       83575     Construction Cenningency     10%     \$85.000     \$24.48       83576     Secondary effects     \$100,000     \$1.680     \$51.680       83576     Demolition     \$0     \$0     \$111,790       83575     Landscaping     \$0     \$0     \$117,790       83575     Landscaping     \$0     \$0     \$0       7total Construction     \$0     \$0     \$1,779       83575     Landscaping     \$0     \$0     \$0       83576     Steproparation     \$0     \$0     \$0       83576     Steproparation     \$0     \$0     \$0     \$0       83576     Steproparation     \$1,000     \$1,650     \$101,1     \$0				<b>*</b> • <b>•</b> ••••	<b>*</b> • <b>- - - -</b>	<b>*</b> ***
38774     Secondary effects     \$0     \$0       88776     Construction Confingency     10%     \$15,000     \$1,560       88776     Demolition     \$10     \$15,000     \$1,660       88776     Demolition     \$0     \$15,000     \$1,650       88776     Demolition     \$0     \$16,000     \$1,650       88776     Construction     \$16,000     \$1,650     \$16,000       88770     Narrance     \$0     \$0     \$16,000       88700     Consultants - dichurements     \$0     \$0     \$16,000       88700     Consultants - dichurements     \$0     \$0     \$0       88700     Consultants - dichurements     \$0     \$0     \$0       88700     Consultants - dichurements						\$965,675
83577     Construction Contingency     10%     \$95.000     \$1,586     \$96, 83768     \$16,000     \$1,680     \$16,000     \$1,680     \$10,000     \$1,580     \$10,000     \$1,580     \$10,000     \$1,580     \$10,000     \$1,580     \$10,000     \$1,580     \$10,000     \$1,580     \$10,000     \$1,580     \$10,000     \$1,580     \$10,000     \$1,580     \$10,000     \$1,580     \$10,000     \$1,550     \$10,000     \$1,550     \$10,000     \$1,550     \$10,000     \$1,550     \$10,000     \$1,550     \$10,000     \$1,550     \$101,000     \$1	1					\$0
835762     Hazardous materials removal 83576     \$15,000     \$2,440     \$15, 500     \$10,000     \$1,650     \$10, 500     \$10,000     \$1,650     \$10, 500     \$11,79       835765     Landscaping     \$0     \$0     \$0     \$11,79       835765     Landscaping     \$0     \$0     \$11,79       835400     Permits     \$0     \$0     \$11,79       835400     Permits     \$50     \$0     \$0     \$50       PROFESSIONALTFEES     \$50,000     \$1,650     \$101, 305201     \$10,300     \$1,238     \$10, 30521     \$10,300     \$110, 30521     \$10,300     \$110, 30521     \$10,300     \$12,38     \$10, 300     \$10,300     \$111, 30521     \$110,300     \$12,38     \$10,300     \$111, 30521     \$111,300     \$111,300     \$111,300     \$111,300     \$11,330     \$111,300     \$11,300 <td< td=""><td></td><td>5</td><td></td><td></td><td>+ ·</td><td>\$0</td></td<>		5			+ ·	\$0
83756     Demolition     \$100,000     \$1,650     \$101,       36766     Site preparation     \$0     \$0     \$11,179,       1ANDSCAPING     \$0     \$0     \$0     \$0       83756     Landscaping     \$0     \$0     \$0     \$0       Total Construction     S50     \$0     \$0     \$0     \$0     \$0       83756     Site preparation     \$0 <td>835757</td> <td>Construction Contingency</td> <td>10%</td> <td>\$95,000</td> <td>\$1,568</td> <td>\$96,568</td>	835757	Construction Contingency	10%	\$95,000	\$1,568	\$96,568
835768     Site preparation     \$50     \$50       LANDSCAPING     \$50     \$51,179,       S35755     Landscaping     \$50     \$50       S35750     Landscaping     \$50     \$50       S35750     Lanstrance     \$50     \$50       FMPTIS, INSURANCE     \$50     \$50     \$50       S35700     Insurance     \$50     \$50       FORFESSIONALTFEES     \$100,000     \$1,650     \$101,       S35200     Consultants - disbursements     \$50     \$50       S35200     Consultants - disbursements     \$510,000     \$1,238       S35720     Legal fees     \$50     \$50       S35725     Management fees - Capital Projects     \$3,50%     \$40,600     \$525;       S5726     Stite Services     \$40,600     \$50     \$413     \$225;       COMPUTER WIRING AND TELEPHONES     \$250     \$243,000     \$255;     \$255;       S7110     Computer infrastructure     \$30     \$30     \$30     \$30       S37100     Noraging and Staging     \$30	835762	Hazardous materials removal		\$15,000	\$248	\$15,248
835768     Site preparation     \$50     \$50       LANDSCAPING     \$50     \$51,179,       S35755     Landscaping     \$50     \$50       S35750     Landscaping     \$50     \$50       S35750     Lanstrance     \$50     \$50       FMPTIS, INSURANCE     \$50     \$50     \$50       S35700     Insurance     \$50     \$50       FORFESSIONALTFEES     \$100,000     \$1,650     \$101,       S35200     Consultants - disbursements     \$50     \$50       S35200     Consultants - disbursements     \$510,000     \$1,238       S35720     Legal fees     \$50     \$50       S35725     Management fees - Capital Projects     \$3,50%     \$40,600     \$525;       S5726     Stite Services     \$40,600     \$50     \$413     \$225;       COMPUTER WIRING AND TELEPHONES     \$250     \$243,000     \$255;     \$255;       S7110     Computer infrastructure     \$30     \$30     \$30     \$30       S37100     Noraging and Staging     \$30	835765	Demolition		\$100,000	\$1,650	\$101,650
Total Construction     \$11,179,       SADSCAPING     \$50     \$50       SATSS Landscaping     \$50     \$50       Total Landscaping     \$50     \$50       PERMITS, INSURANCE     \$50     \$50       SASTOS     Insurance     \$50     \$50       PROFESSIONAL FEES     \$50     \$50     \$51       SASTOS     Consultants: -Architects, Engineers     \$100,000     \$1,280     \$101,000       SASTO     Consultants: -Architects, Engineers     \$100,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$1,280     \$101,000     \$10,000     \$1,280     \$101,000     \$10,000     \$1,280     \$101,000     \$10,000     \$10,000     \$10,000 <td>835768</td> <td>Site preparation</td> <td></td> <td></td> <td>\$0</td> <td>\$0</td>	835768	Site preparation			\$0	\$0
LANDSCAPING     S0     S0       357755     Landscaping     TSSA     \$5,000     \$83       S35750     Insurance     \$0     \$0     \$55       PROFESIONALFEES     \$100,000     \$1,650     \$101,000     \$1,650     \$101,000       S352700     Insurance     \$0     \$0     \$50     \$55       PROFESIONALFEES     \$100,000     \$1,650     \$101,000     \$1,650     \$101,000       S35200     Consultants - idstructmements     \$100,000     \$1,650     \$101,000     \$1,650     \$101,000       S35201     Legal fees     \$0     \$0     \$0     \$0     \$0     \$0     \$0     \$357     \$1238     \$76,000     \$12,38     \$76,000     \$12,38     \$76,000     \$12,38     \$76,000     \$12,38     \$76,000     \$12,38     \$76,000     \$12,38     \$76,000     \$12,38     \$76,000     \$12,38     \$76,000     \$12,38     \$76,000     \$12,38     \$76,000     \$12,38     \$76,000     \$12,38     \$76,000     \$12,38     \$12,38     \$218,000     \$12,38				Ψ°	<i>+•</i>	\$1,179,140
83755     Landscaping     \$0     \$0       Total Landscaping     \$0     \$0       PERMITS, INSURANCE     TSSA     \$5,000     \$433       83400     Permits     \$5,000     \$63       83500     Consultants: -Architects, Engineers     \$100,000     \$1,650     \$101,       835200     Consultants: -Architects, Engineers     \$100,000     \$1,650     \$101,       835201     Consultants: -Architects, Engineers     \$100,000     \$1,650     \$101,       835201     Consultants: -Architects, Engineers     \$100,000     \$1,650     \$101,       835201     Legal fees     \$20     \$0     \$0     \$0       835720     Legal fees     \$20     \$0     \$0     \$20       835721     External Project Manager     \$3.50%     \$40,000     \$240,     \$228,       835700     Site services A capital Projects     \$3.50%     \$40,000     \$248,       835700     Site services A capital Projects     \$3.50%     \$40,000     \$228,       837100     Noring and Site services A capital Projects     \$3.50% </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>ψ1,175,140</td>						ψ1,175,140
Total Landscaping     TSA       B35400     Permits     S5.00     \$83       B35700     Insurance     \$500     \$50       Total Permits, Insurance     \$100,00     \$1,650     \$51       B3500     Consultants - disturements     \$100,00     \$1,650     \$101,00       B3504     Consultants - disturements     \$00     \$0     \$0       B3504     Consultants - disturements     \$0     \$0     \$0       B3504     Consultants - disturements     \$0     \$0     \$0       B35204     Construction management fees     \$0     \$0     \$0       B3720     Legal fees     \$0     \$0     \$0       B3721     External Project Manager     \$0     \$0     \$218,     \$25,       Cond Professional fees     \$0     \$0     \$228,     \$218,     \$25,     \$228,     \$228,     \$228,     \$228,     \$228,     \$228,     \$228,     \$228,     \$228,     \$228,     \$228,     \$228,     \$228,     \$228,     \$228,     \$228,     \$228,     \$228,<				¢o	¢o	¢0
PERMITS, INSURANCE     TSSA     S5.000     \$83     S5.000     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.0000     \$11.650     \$10.00000     \$10.00000     \$10.000000	835755			<b>\$</b> 0	\$U	\$0
835400     Permits     TSSA     \$5,000     \$83     \$5, \$0       836700     Insurance     \$0     \$0     \$0       70512     Consultants: -Architeds, Engineers     \$100,000     \$1,650     \$101, \$0       835200     Consultants: -Architeds, Engineers     \$100,000     \$1,650     \$101, \$0       835204     Consultants: -Architeds, Engineers     \$100,000     \$1,650     \$101, \$0       835204     Consultants     \$50     \$0     \$0       835702     Design fees-In House     \$50     \$0     \$0       835721     External Project Manager     \$0     \$0     \$40, \$128     \$25,000     \$413     \$25,500       S1011     Infrastructure     \$25,000     \$413     \$25,500     \$413     \$25,500       S1010     Total Ste Services     Total Ste Services     \$0     \$0     \$25,500       S1010     Total Ste Services     \$0     \$0     \$0     \$0       S1010     Total Ste Services     \$0     \$0     \$0     \$0       S1010     Total Ste Se						\$0
836700     Insurance     \$0     \$0       Total Permits, insurance     \$0     \$55       PROFESSIONAL FEES     \$100,000     \$1,650     \$101,       835200     Consultants - disbursements     \$0     \$0     \$0       835204     Construction management fees     \$77,000     \$1,238     \$76,       835201     Legal fees     \$0     \$0     \$200       835720     Design fees-InHouse     \$0     \$0     \$240,       835721     External Project Manager     \$3,50%     \$40,600     \$0     \$441,       \$25725     Management fees-Capital Projects     \$3,50%     \$40,600     \$248,       \$35700     Site services & Capital Projects     \$3,50%     \$40,600     \$241,       \$2575     Management fees-Capital Projects     \$3,50%     \$413     \$25,       Total Project Manager     \$3,50%     \$413     \$25,     \$25,       Total Project Management fees-Capital Projects     \$50     \$50     \$2110     \$2110     \$2110     \$25,     \$25,000     \$413     \$25,5,000     \$241,3		•				
Total Permits, insurance     S5;       PROFESSIONALFEES     \$100,000     \$1,660     \$101,0       835201     Consultants - dichiessments     \$0     \$0     \$10,000     \$1,660     \$101,0       835201     Consultants - dichiessments     \$0 </td <td>835400</td> <td>Permits</td> <td>TSSA</td> <td>\$5,000</td> <td></td> <td>\$5,083</td>	835400	Permits	TSSA	\$5,000		\$5,083
PROFESSIONAL FEES     S100,000     \$1,650     \$101,000       835200     Consultants - Architects, Engineers     \$100,000     \$1,650     \$101,000       835201     Consultants - disbursements     \$00     \$00     \$00     \$00       835204     Consultants     \$00     \$00     \$00     \$00     \$00       835210     Legal fees     \$00     \$00     \$00     \$00     \$00       835721     External Project Manager     \$00     \$00     \$400     \$00     \$400     \$00       835725     Management fees     \$25,000     \$413     \$25,     \$218.     \$250     \$413     \$25,       Contal Ste Services Constructure     \$00     \$00     \$00     \$24,000     \$00     \$24,000     \$00     \$413     \$25,     \$225,000     \$413     \$25,     \$25,000     \$413     \$25,000     \$413     \$25,000     \$413     \$25,000     \$413     \$25,000     \$413     \$25,000     \$413     \$25,000     \$413     \$25,000     \$413     \$25,000     \$413     \$25,000	836700	Insurance		\$0	\$0	\$0
PROFESSIONAL FEES     S100,000     \$1,650     \$101,000       835200     Consultants - Architects, Engineers     \$100,000     \$1,650     \$101,000       835201     Consultants - disbursements     \$00     \$00     \$00     \$00       835204     Consultants     \$00     \$00     \$00     \$00     \$00       835210     Legal fees     \$00     \$00     \$00     \$00     \$00       835721     External Project Manager     \$00     \$00     \$400     \$00     \$400     \$00       835725     Management fees     \$25,000     \$413     \$25,     \$218.     \$250     \$413     \$25,       Contal Ste Services Constructure     \$00     \$00     \$00     \$24,000     \$00     \$24,000     \$00     \$413     \$25,     \$225,000     \$413     \$25,     \$25,000     \$413     \$25,000     \$413     \$25,000     \$413     \$25,000     \$413     \$25,000     \$413     \$25,000     \$413     \$25,000     \$413     \$25,000     \$413     \$25,000     \$413     \$25,000		Total Permits. Insurance				\$5,083
335200     Consultants: -Architects, Engineers     \$100,000     \$1,650     \$101;       35201     Consultants: -disburgements     \$0     \$10     \$0       835201     Consultants: -disburgements     \$0     \$101;     \$0       835201     Construction management fees     \$0     \$0     \$0       835201     Consultants: -disburgements     \$0     \$0     \$0       835202     Design fees-In House     \$0     \$0     \$0       835721     External Project Management fees - Capital Projects     \$2.50%     \$40, 5216,	PROFESS					. ,
835201     Consultants - disburgement fees     \$0     \$0     \$0       835204     Construction management fees     \$76,000     \$1,238     \$76,000       835204     Consultants     \$0     \$0     \$0       835210     Legal fees     \$0     \$0     \$0       835720     Design fees-In House     \$0     \$0     \$0       835721     External Project Manager     \$3,50%     \$40,600     \$0     \$40,000       \$35725     Management fees-Capital Projects     \$3,50%     \$40,000     \$0     \$40,000       \$35720     Dite Services Capital Projects     \$3,50%     \$40,600     \$0     \$2218,       \$65700     Site services & infrastructure     \$20     \$0     \$225,     \$225,000     \$413     \$225,       \$0     S0     \$0     \$0     \$0     \$20,00     \$0     \$226,000     \$0       \$0     S0     \$0     \$0     \$0     \$0     \$0     \$226,000     \$0     \$226,000     \$0     \$226,000     \$0     \$20,000     \$0	1		re	\$100.000	\$1.650	\$101,650
383204     Construction management fees     \$75,000     \$1,238     \$76,       383206     Other consultants     \$0     \$0       835201     Legal fees     \$0     \$0       835720     Design fees-In House     \$0     \$0       835727     Xatemal Project Manager     \$0     \$0     \$0       835727     Management fees-Capital Projects     3.50%     \$40,600     \$0     \$40,7       Total Site Services     3.50%     \$40,600     \$0     \$218,7     \$218,7     \$218,000     \$413     \$225,7     \$225,7     \$2110     Computer Miring & Telephones     \$0     \$0     \$40,7     \$25,7     \$25,7     \$2110     \$25,000     \$413     \$225,7     \$25,7     \$2110     Computer Miring & Telephones     \$0     \$0     \$0     \$2110     \$25,7     \$25,7     \$25,7     \$25,7     \$25,7     \$25,7     \$2110     \$21,7     \$25,7     \$25,7     \$25,7     \$25,7     \$25,7     \$25,7     \$2110     \$21,7     \$21,7     \$21,7     \$21,7     \$21,7     \$21,7     \$21,7<	1				, ,	\$0
835206     Other consultants     0     50     50       835210     Legal fees     80     80     80       835720     Design fees-In House     80     80     80       835721     External Project Manager     80     80     80       835725     Management fees     \$25.000     \$40.000     \$218.       835700     Site services     \$25.000     \$413     \$25.7       Total Professional fees     \$25.000     \$413     \$25.7     \$25.000     \$218.       835700     Site services     \$0     \$0     \$0     \$25.000     \$218.       825110     Computer Wiring & Telephones     \$0     \$0     \$0     \$0       837100     Moving and Staging     \$0     \$0     \$0     \$0       7 total Moving and Staging     \$0     \$0     \$0     \$0     \$0       7 total Moving and Staging     \$0     \$0     \$0     \$0     \$0       7 total Moving and Staging     \$0     \$0     \$0     \$0     \$0     \$0						
835210     Legal fees     \$0     \$0       835720     Design fees-In House     \$0     \$0     \$0       835721     External Project Manager     \$0     \$0     \$0       835725     Management fees-Capital Projects     \$1.50%     \$0     \$0       835726     Total Professional fees     \$25,000     \$210.     \$218.       SERVICES TO SITE     \$35700     \$15 esrvices & infrastructure     \$25,000     \$413     \$25,       COMPUTER WIRING AND TELEPHONES     \$0     \$0     \$0     \$25,     \$25,       ROVING AND STAGING     \$0     \$0     \$0     \$0     \$0     \$0       837100     Telephone     \$0     \$0     \$0     \$0     \$0       837101     Staging     \$0     \$0     \$0     \$0     \$0     \$0       837101     Staging     \$0     \$0     \$0     \$0     \$0     \$0       820101     Furnishings and Equipment     \$0     \$0     \$0     \$0     \$0       821610     Scientific Equipmen						\$76,238
35720     Design fees-in House     \$0     \$0       35721     External Project Manager     \$0     \$0     \$0       35721     External Project Manager     \$0     \$0     \$20       35721     External Project Manager     \$0     \$0     \$210       35700     Site services X infrastructure     \$25,000     \$413     \$25,       Computer Infrastructure     \$0     \$0     \$0     \$2110       Computer Infrastructure     \$0     \$0     \$0     \$0       35010     Telephone     \$0     \$0     \$0     \$0       MOVING AND STAGING     \$0     \$0     \$0     \$0     \$0       37101     Staging     \$0     \$0     \$0     \$0     \$0       70tal Moving and Staging     \$0     \$0     \$0     \$0     \$0     \$0       70tal Moving and Staging     \$0     \$0     \$0     \$0     \$0     \$0       70tHER     \$0     \$0     \$0     \$0     \$0     \$0     \$0     \$0     \$0						\$0
835721     External Project Manager 835725     \$0     \$0     \$40,000     \$0     \$40,000     \$0     \$20,0       SERVICES TO SITE 835700     \$16 services & infrastructure Total Streservices & infrastructure     \$25,000     \$413     \$25,000     \$218, \$25,000     \$213, \$25,000     \$213,000     \$213,000     \$213,000     \$213,000     \$213,000     \$213,000     \$213,000     \$213,000     \$213,000     \$200,000     \$213,000     \$213,000     \$213,000     \$200,000     \$213,000     \$213,000     \$213,000     \$213,000     \$213,000     \$213,000     \$213,000     \$213,000     \$214,000     \$214,000     \$213,000     \$214,000     \$214,000     \$214,000     \$214,000     \$214,000     \$214,000     \$214,000     \$214,000     \$214,000     \$214,000     \$214,000     \$214,000     \$214,000     \$214,000     \$214,000     \$214,000     \$214,000     \$214,000 <td< td=""><td>1</td><td>Legal fees</td><td></td><td></td><td></td><td>\$0</td></td<>	1	Legal fees				\$0
835725     Management fees-Capital Projects     3.50%     \$40,600     \$0     \$40,600     \$216,       SERVICES TO SITE     \$25,000     \$413     \$226,     \$25,000     \$413     \$25,       Conducts Note Services & Infrastructure     \$0     \$0     \$0     \$25,000     \$413     \$25,       Computer Infrastructure     \$0     \$0     \$0     \$25,000     \$2110     \$25,000     \$2110     \$25,000     \$2110     \$25,000     \$213     \$25,000     \$2110     \$25,000     \$2110     \$25,000     \$2110     \$25,000     \$2010     \$21100     \$200     \$2000	835720	Design fees-In House		\$0	\$0	\$0
835725     Management fees-Capital Projects     3.50%     \$40,600     \$0     \$40,600     \$216,       SERVICES TO SITE     \$25,000     \$413     \$226,     \$25,000     \$413     \$25,       Conducts Note Services & Infrastructure     \$0     \$0     \$0     \$25,000     \$413     \$25,       Computer Infrastructure     \$0     \$0     \$0     \$25,000     \$2110     \$25,000     \$2110     \$25,000     \$2110     \$25,000     \$213     \$25,000     \$2110     \$25,000     \$2110     \$25,000     \$2110     \$25,000     \$2010     \$21100     \$200     \$2000	835721	External Project Manager		\$0	\$0	\$0
Total Professional fees     \$218,       SERVICES TO SITE     \$25,000     \$413     \$25,       33700     Site services & infrastructure     \$20     \$413     \$25,       COMPUTER WIRING AND TELEPHONES     \$0     \$0     \$25,     \$25,000     \$413     \$25,       S21110     Computer infrastructure     \$0     \$0     \$0     \$0     \$0       Total Computer Wiring & Telephones     \$0	835725		3.50%	\$40,600		\$40,600
SERVICES TO SITE   \$25,000   \$413   \$25,     835700   Site services & infrastructure   \$25,000   \$413   \$25,     COMPUTER WIRING AND TELEPHONES   \$0   \$0   \$25,     835100   Telephone   \$0   \$0     Total Computer Wiring & Telephones   \$0   \$0   \$0     MOVING AND STAGING   \$0   \$0   \$0     837100   Moving   \$0   \$0   \$0     837100   Moving and Staging   \$0   \$0   \$0     FURNISHINGS AND EQUIPMENT   \$0   \$0   \$0   \$0     820101   Equipment   \$0   \$0   \$0     8211010   Scientific Equipment   \$0   \$0   \$0     821101   Scientific Equipment   \$0   \$0   \$0     820101   Furnishings and Equipment   \$0   \$0   \$0     7011   Signage-Interior   \$0   \$0   \$0     820101   Signage-Interior   \$0   \$0   \$0     835070   Courier, misc.   \$0   \$0   \$0     835764   Cl		• • •		• • • • • •		\$218,488
835700     Site services & infrastructure     \$25,000     \$413     \$25, \$25,000       COMPUTER WIRING AND FILEPHONES     \$0     \$0     \$0       835100     Total Computer infrastructure     \$0     \$0       835010     Telephone     \$0     \$0       Total Computer Wiring & Telephones     \$0     \$0       MOVING AND STAGING     \$0     \$0       837100     Moving     \$0     \$0       Total Computer Wiring & Telephones     \$0     \$0       MOVING AND STAGING     \$0     \$0       837100     Moving     \$0     \$0       Total Moving and Staging     \$0     \$0       FURNISHINGS AND EQUIPMENT     \$0     \$0       820101     Equipment     \$0     \$0       821510     AV for classrooms     \$0     \$0       821610     Scientific Equipment     \$0     \$0       820011     Signage-Interior     \$0     \$0       821325     Security & Access systems     \$0     \$0       835766     Ceremonies     \$0	SERVICE					<i>\\</i> 210,100
Total Site Services     \$0     \$25,       COMPUTER WiRikG AND TELEPHONES     \$0     \$0     \$0       835010     Telephone     \$0     \$0     \$0       Total Computer infrastructure     \$0     \$0     \$0     \$0       MOVING AND STAGING     \$0     \$0     \$0     \$0     \$0       837100     Moving and Staging     \$0     \$0     \$0     \$0     \$0       Total Moving and Staging     \$0     \$0     \$0     \$0     \$0     \$0       FURNISHINGS AND EQUIPMENT     \$0     \$0     \$0     \$0     \$0     \$0       820101     Equipment     GST is not applicable     \$0     \$0     \$0     \$0       821610     Solentific Equipment     GST is not applicable     \$0     \$0     \$0       820011     Signage-Interior     \$0     \$0     \$0     \$0       820111     Signage-Exterior     \$0     \$0     \$0     \$0       835766     Ceremonies     Ground breaking, Top off, Grand opening     \$0     \$0	1			¢05.000	¢440	¢05 440
COMPUTER WIRING AND TELEPHONES   \$0   \$0     821110   Computer infrastructure   \$0   \$0     33010   Telephone   \$0   \$0     MOVING AND STAGING   \$0   \$0   \$0     837100   Moving   \$0   \$0   \$0     Total Moving and Staging   \$0   \$0   \$0   \$0     TOtal Moving and Staging   \$0   \$0   \$0   \$0     FURNISHINGS AND EQUIPMENT   \$0   \$0   \$0   \$0     820010   Furnishings   \$0   \$0   \$0     821101   Scignage-Interior   \$0   \$0   \$0     820111   Signage-Interior   \$0   \$0   \$0     835765   Signage-Exterior   \$0   \$0   \$0     835766   Ceremonies   \$0   \$	035700			\$25,000	\$413 	\$25,413
821110     Computer infrastructure     \$0     \$0       833010     Telephone     \$0     \$0       Total Computer Wiring & Telephones     \$0     \$0       MOVING AND STAGING     \$0     \$0       837100     Moving     \$0     \$0       837101     Staging     \$0     \$0       FURNISHINGS AND EQUIPMENT     \$0     \$0     \$0       820101     Equipment     \$0     \$0     \$0       8211010     Equipment     \$0     \$0     \$0       821610     Scientific Equipment     GST is not applicable     \$0     \$0       Total Furnishings and Equipment     GST is not applicable     \$0     \$0       Total Furnishings and Equipment     \$0     \$0     \$0       Staft Courier, misc.     \$0     \$0     \$0       820011     Signage-Interior     \$0     \$0     \$0       835765     Courier, misc.     \$0     \$0     \$0       835766     Courier, misc.     \$0     \$0     \$0       835766     Co						\$25,413
835010     Telephone     \$0     \$0       Total Computer Wiring & Telephones     \$0     \$0       837100     Moving     \$0     \$0       837100     Moving     \$0     \$0       837101     Staging     \$0     \$0       Total Moving and Staging     \$0     \$0     \$0       FURNISHINGS AND EQUIPMENT     \$0     \$0     \$0       820101     Furnishings     \$0     \$0       821610     Scientific Equipment     \$0     \$0       S0     \$0     \$0     \$0       821610     Scientific Equipment     \$0     \$0       Total Furnishings and Equipment     \$0     \$0     \$0       820111     Signage-Interior     \$0     \$0     \$0       820112     Security & Access systems     \$0     \$0     \$0       830700     Courier, misc.     \$0     \$0     \$0       835764     Client Construction expenses     \$0     \$0     \$0       835766     Ceremonies     Ground breaking, Top off, Grand openi	1					
Total Computer Wiring & Telephones     MOVING AND STAGING     837100   Moving     837101   Staging     Total Moving and Staging   \$0     FURNISHINGS AND EQUIPMENT   \$0     820010   Furnishings     821510   AV for classrooms     821610   Scientific Equipment     GST is not applicable   \$0     Total Furnishings and Equipment   GST is not applicable     Total Furnishings and Equipment   \$0     Stagnage-Interior   \$0     820011   Signage-Interior     820012   Courier, misc.     835070   Courier, misc.     835764   Client Construction expenses     Ground breaking, Top off, Grand opening   \$0     \$0   \$0     \$0   \$0     \$0   \$0     \$0   \$0     \$0   \$0     \$0   \$0     \$0   \$0     \$0   \$0     \$0   \$0     \$0   \$0     \$0   \$0     \$0   \$0     \$0	1	•				\$0
MOVING AND STAGING   \$0   \$0     837100   Moving   \$0   \$0     337101   Staging   \$0   \$0     FURNISHINGS AND EQUIPMENT   \$0   \$0   \$0     820010   Furnishings   \$0   \$0     821010   Equipment   \$0   \$0     821610   Scientific Equipment   GST is not applicable   \$0     Total Furnishings and Equipment   GST is not applicable   \$0   \$0     Total Furnishings and Equipment   GST is not applicable   \$0   \$0     Total Furnishings and Equipment   \$0   \$0   \$0     Stignage-Interior   \$0   \$0   \$0     820011   Signage-Interior   \$0   \$0     835765   Signage-Exterior   \$0   \$0     835766   Ceremonies   Ground breaking, Top off, Grand opening   \$0   \$0     836430   Donor recognition   \$0   \$0   \$30,000   \$0   \$330,00     836757   SUB TOTAL   \$1458,   \$1458,   \$330,000   \$0   \$330,00     FINANCE COSTS   \$33300	835010	Telephone		\$0	\$0	\$0
MOVING AND STAGING   \$0   \$0     837100   Moving   \$0   \$0     337101   Staging   \$0   \$0     FURNISHINGS AND EQUIPMENT   \$0   \$0   \$0     820010   Furnishings   \$0   \$0     821010   Equipment   \$0   \$0     821610   Scientific Equipment   GST is not applicable   \$0     Total Furnishings and Equipment   GST is not applicable   \$0   \$0     Total Furnishings and Equipment   GST is not applicable   \$0   \$0     Total Furnishings and Equipment   \$0   \$0   \$0     Stignage-Interior   \$0   \$0   \$0     820011   Signage-Interior   \$0   \$0     835765   Signage-Exterior   \$0   \$0     835766   Ceremonies   Ground breaking, Top off, Grand opening   \$0   \$0     836430   Donor recognition   \$0   \$0   \$30,000   \$0   \$330,00     836757   SUB TOTAL   \$1458,   \$1458,   \$330,000   \$0   \$330,00     FINANCE COSTS   \$33300		Total Computer Wiring & Teleph	nones			\$0
837101   Staging   \$0   \$0     Total Moving and Staging   \$0   \$0   \$0     820010   Furnishings   \$0   \$0     820110   Equipment   \$0   \$0     821510   AV for classrooms   \$0   \$0     821610   Scientific Equipment   GST is not applicable   \$0     Total Furnishings and Equipment   GST is not applicable   \$0     Total Furnishings and Equipment   \$0   \$0     GST01   Signage-Interior   \$0   \$0     820011   Signage-Interior   \$0   \$0     820012   Signage-Interior   \$0   \$0     835765   Signage-Exterior   \$0   \$0     835766   Ceremonies   \$0   \$0     835766   Ceremonies   \$0   \$0     836430   Donor recognition   \$0   \$0     836430   Donor recognition   \$0   \$0     836758   Project Contingency   \$1.458.     PROJECT CONTINGENCY   \$0   \$0     835708   Project Contingency   \$0 <t< td=""><td>MOVING</td><td>AND STAGING</td><td></td><td></td><td></td><td></td></t<>	MOVING	AND STAGING				
837101   Staging   \$0   \$0     Total Moving and Staging   \$0   \$0   \$0     820010   Furnishings   \$0   \$0     820110   Equipment   \$0   \$0     821510   AV for classrooms   \$0   \$0     821610   Scientific Equipment   GST is not applicable   \$0     Total Furnishings and Equipment   GST is not applicable   \$0     Total Furnishings and Equipment   \$0   \$0     GST01   Signage-Interior   \$0   \$0     820011   Signage-Interior   \$0   \$0     820012   Signage-Interior   \$0   \$0     835765   Signage-Exterior   \$0   \$0     835766   Ceremonies   \$0   \$0     835766   Ceremonies   \$0   \$0     836430   Donor recognition   \$0   \$0     836430   Donor recognition   \$0   \$0     836758   Project Contingency   \$1.458.     PROJECT CONTINGENCY   \$0   \$0     835708   Project Contingency   \$0 <t< td=""><td>837100</td><td>Moving</td><td></td><td>\$0</td><td>\$0</td><td>\$0</td></t<>	837100	Moving		\$0	\$0	\$0
Total Moving and StagingFURNISHINGS AND EQUIPMENT820010Furnishings820101Equipment820101EquipmentScientific EquipmentGST is not applicableTotal Furnishings and EquipmentGST is not applicableTotal Furnishings and EquipmentS0OTHER\$0820011Signage-Interior820125Security & Access systems835070Courier, misc.835070Courier, misc.835766Signage-Exterior835766CeremoniesS0\$0835766CeremoniesGround breaking, Top off, Grand opening\$0\$0\$0836430Donor recognition836730L of three\$0\$0\$3578Project ContingencyTotal Vingency\$0\$3578Sub TOTAL\$3578Stopic ContingencyTotal Finance Costs\$0\$35300Finance Costs\$35300Finance Costs\$35300Finance Costs\$35300Finance Costs\$35300Finance Costs\$35300S0\$35300S0\$35300Finance Costs\$35300\$0\$35300S0\$35300S0\$35300S0\$35300S0\$35300S0\$35300S0\$35300S0\$35300S0\$35300S0\$35300S0\$35300S0	1	•				\$0
FURNISHINGS AND EQUIPMENT   \$20010   Furnishings   \$0   \$0     821010   Equipment   \$0   \$0   \$0     821510   AV for classrooms   \$0   \$0   \$0     821610   Scientific Equipment   GST is not applicable   \$0   \$0     Total Furnishings and Equipment     OTHER     820011   Signage-Interior   \$0   \$0     820011   Signage-Interior   \$0   \$0     820011   Signage-Interior   \$0   \$0     820012   Solentific Construction expenses   \$0   \$0     835766   Ceremonies   Ground breaking, Top off, Grand opening   \$0   \$0     835766   Ceremonies   Ground breaking, Top off, Grand opening   \$0   \$0     836430   Donor recognition   \$0   \$0   \$30,000   \$0   \$30,000     890670   U of T Trades   \$1,458,   \$30,000   \$0   \$30,000   \$0     835758   Project Contingency   \$0   \$0   \$0   \$0   \$30,000   \$0   \$30,00   \$0				Ψ°	<i>+•</i>	\$0
820010     Furnishings     \$0     \$0       821010     Equipment     \$0     \$0       821510     AV for classrooms     \$0     \$0       821610     Scientific Equipment     GST is not applicable     \$0       Total Furnishings and Equipment     GST is not applicable     \$0     \$0       Total Furnishings and Equipment     GST is not applicable     \$0     \$0       20011     Signage-Interior     \$0     \$0     \$0       821025     Security & Access systems     \$0     \$0     \$0       835070     Courier, misc.     \$0     \$0     \$0       835764     Client Construction expenses     Ground breaking, Top off, Grand opening     \$0     \$0       835766     Ceremonies     Ground breaking, Top off, Grand opening     \$0     \$0       835764     Client Construction expenses     \$30,000     \$0     \$30,000     \$0       835764     Donor recognition     \$30,000     \$0     \$30,000     \$0     \$30,000     \$0       8306758     Project Contingency     \$1,458, <td< td=""><td></td><td></td><td></td><td></td><td></td><td>ψυ</td></td<>						ψυ
821010     Equipment     \$0     \$0       821510     AV for classrooms     \$0     \$0       821610     Scientific Equipment     GST is not applicable     \$0     \$0       Total Furnishings and Equipment     GST is not applicable     \$0     \$0     \$0       OTHER     \$20011     Signage-Interior     \$0     \$0     \$0     \$0       821025     Security & Access systems     \$0     \$0     \$0     \$0     \$0       835070     Courier, misc.     \$35756     \$ignage-Exterior     \$0     \$0     \$0       835766     Ceremonies     Ground breaking, Top off, Grand opening     \$0     \$0     \$0       835766     Ceremonies     Ground breaking, Top off, Grand opening     \$0     \$0     \$0       836430     Donor recognition     \$30,000     \$0     \$30,000     \$0       836430     Donor recognition     \$30,000     \$0     \$30,     \$30,       890670     U of T Trades     \$1,458,     \$0     \$0     \$30,       Total Other     SUB TOTA	1			¢ο	¢o	¢o
821510   AV for classrooms   \$0   \$0     821610   Scientific Equipment   GST is not applicable   \$0     Total Furnishings and Equipment   \$0   \$0     OTHER   \$0   \$0     820011   Signage-Interior   \$0   \$0     821325   Security & Access systems   \$0   \$0     835070   Courier, misc.   \$0   \$0     835756   Signage-Exterior   \$0   \$0     835764   Client Construction expenses   \$0   \$0     835766   Ceremonies   Ground breaking, Top off, Grand opening   \$0   \$0     835900   Advertising   \$0   \$0   \$0     836430   Donor recognition   \$0   \$0   \$30,     836430   Donor recognition   \$0   \$0   \$30,     8369070   U of T Trades   \$1,458,   \$1,458,     PROJECT CONTINGENCY   \$0   \$0   \$1,458,     835758   Project Contingency   \$0   \$0     Total Project Contingency   \$0   \$0   \$0     Total Project Contingency	1					\$0
821610   Scientific Equipment   GST is not applicable   \$0     Total Furnishings and Equipment       0THER   820011   Signage-Interior   \$0   \$0     821021   Security & Access systems   \$0   \$0   \$0     821025   Security & Access systems   \$0   \$0   \$0     835070   Courier, misc.   \$0   \$0   \$0     835756   Signage-Exterior   \$0   \$0   \$0     835766   Ceremonies   Ground breaking, Top off, Grand opening   \$0   \$0     835766   Ceremonies   Ground breaking, Top off, Grand opening   \$0   \$0     835900   Advertising   \$0   \$0   \$0     836430   Donor recognition   \$0   \$0   \$30,     836430   Donor recognition   \$0   \$0   \$30,     836430   Donor recognition   \$0   \$0   \$30,     836430   Donor recognition   \$0   \$30,   \$0     PROJECT CONTINGENCY   \$1,458,   \$30,000   \$0   \$33,0,00     835758   Project C						\$0
Total Furnishings and EquipmentOTHER8200118201325Security & Access systems835070Courier, misc.835756Signage-Exterior835764Client Construction expenses835766Ground breaking, Top off, Grand opening\$0\$0835900Advertising835900Advertising835900Advertising\$0\$14.58.\$14.58.\$25.58\$25.00\$0\$25.50\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0\$0<	1					\$0
OTHER     \$0     \$0       820011     Signage-Interior     \$0     \$0       821325     Security & Access systems     \$0     \$0       835070     Courier, misc.     \$0     \$0       835756     Signage-Exterior     \$0     \$0       835764     Client Construction expenses     \$0     \$0       835766     Ceremonies     \$0     \$0       835766     Ceremonies     Ground breaking, Top off, Grand opening     \$0     \$0       835766     Ceremonies     \$0     \$0     \$0       835766     Ceremonies     Ground breaking, Top off, Grand opening     \$0     \$0       835900     Advertising     \$0     \$0     \$0       836430     Donor recognition     \$0     \$0     \$30,       890670     U of T Trades     \$30,000     \$0     \$30,       Total Other     SUB TOTAL     \$1,458,     \$30,       835758     Project Contingency     \$0     \$0       Total Project Constingency     \$0     \$0     \$0	821610			\$0	\$0	\$0
820011     Signage-Interior     \$0     \$0       821325     Security & Access systems     \$0     \$0       835070     Courier, misc.     \$0     \$0       835076     Signage-Exterior     \$0     \$0       835766     Ceremonies     \$0     \$0       835900     Advertising     \$0     \$0       836430     Donor recognition     \$0     \$0       836430     Donor recognition     \$0     \$0       890670     U of T Trades     \$1,458     \$30,000     \$0       Total Other     SUB TOTAL     \$1,458     \$1,458       PROJECT CONTINGENCY     \$0     \$0     \$0       835300     Finance Costs     \$0     \$0     \$0       835300		Total Furnishings and Equipme	nt			\$0
820011     Signage-Interior     \$0     \$0       821325     Security & Access systems     \$0     \$0       835070     Courier, misc.     \$0     \$0       835076     Signage-Exterior     \$0     \$0       835766     Ceremonies     \$0     \$0       835900     Advertising     \$0     \$0       836430     Donor recognition     \$0     \$0       836430     Donor recognition     \$0     \$0       890670     U of T Trades     \$1,458     \$30,000     \$0       Total Other     SUB TOTAL     \$1,458     \$1,458       PROJECT CONTINGENCY     \$0     \$0     \$0       835300     Finance Costs     \$0     \$0     \$0       835300	OTHER					
821325     Security & Access systems     \$0     \$0       835070     Courier, misc.     \$0     \$0       835756     Signage-Exterior     \$0     \$0       835764     Client Construction expenses     \$0     \$0       835766     Ceremonies     \$0     \$0       835766     Ceremonies     \$0     \$0       835900     Advertising     \$0     \$0       836430     Donor recognition     \$0     \$0       890670     U of T Trades     \$0     \$30,       Total Other     \$UB TOTAL     \$1,458,       PROJECT CONTINGENCY     \$0     \$0       835758     Project Contingency     \$0       Total Project Contingency     \$0     \$0       FINANCE COSTS     \$0     \$0     \$0       835300     Finance Costs     \$0     \$0     \$0	820011	Signage-Interior		\$0	\$0	\$0
835070     Courier, misc.     \$0     \$0       835756     Signage-Exterior     \$0     \$0       835764     Client Construction expenses     \$0     \$0       835766     Ceremonies     \$0     \$0       835766     Ceremonies     Ground breaking, Top off, Grand opening     \$0     \$0       835900     Advertising     \$0     \$0     \$0       836430     Donor recognition     \$0     \$0     \$0       836430     Donor recognition     \$0     \$0     \$30,       890670     U of T Trades     \$0     \$30,     \$0       Total Other     \$UB TOTAL     \$30,000     \$0     \$30,       PROJECT CONTINGENCY     \$UB TOTAL     \$1,458,     \$0     \$1,458,       PROJECT Contingency     \$0     \$0     \$0     \$0     \$0       Total Project Contingency     \$0     \$0     \$0     \$0     \$0       FINANCE COSTS     \$0     \$0     \$0     \$0     \$0     \$0       835300     Finance Costs <td< td=""><td></td><td></td><td>   </td><td></td><td></td><td>\$0</td></td<>						\$0
835756   Signage-Exterior     835756   Client Construction expenses     835766   Ceremonies     835700   Advertising     836430   Donor recognition     890670   U of T Trades     Total Other   \$30,000     \$30,000   \$0     \$35758   Project Contingency     Total Project Contingency   \$0     FINANCE COSTS   \$0     835300   Finance Costs     Total Finance Costs   \$0						\$0 \$0
835764   Client Construction expenses   \$0   \$0   \$0     835766   Ceremonies   Ground breaking, Top off, Grand opening   \$0   \$0     835900   Advertising   \$0   \$0   \$0     836430   Donor recognition   \$0   \$0   \$0     890670   U of T Trades   \$30,000   \$0   \$330,000     Total Other   SUB TOTAL   \$330,000   \$0   \$330,     PROJECT CONTINGENCY     835758   Project Contingency   \$0   \$0     Total Project Contingency   \$0   \$0   \$0     FINANCE COSTS   \$0   \$0   \$0     835300   Finance Costs   \$0   \$0     Total Finance Costs   \$0   \$0   \$0	1					\$0 \$0
835766   Ceremonies   Ground breaking, Top off, Grand opening   \$0   \$0     835900   Advertising   \$0   \$0   \$0     836430   Donor recognition   \$0   \$0   \$0     890670   U of T Trades   \$30,000   \$0   \$330,     Total Other   SUB TOTAL   \$1,458,     PROJECT CONTINGENCY   \$0   \$0   \$1,458,     835758   Project Contingency   \$0   \$0     Total Project Contingency   \$0   \$0   \$0     FINANCE COSTS   \$35300   Finance Costs   \$0   \$0     Total Finance Costs   \$0   \$0   \$0   \$0						
835900 Advertising \$0 \$0   836430 Donor recognition \$0 \$0   890670 U of T Trades \$30,000 \$0   Total Other \$UB TOTAL \$30,000 \$0   PROJECT CONTINGENCY \$0 \$1,458,   835758 Project Contingency \$0 \$0   Total Project Contingency \$0 \$0   FINANCE COSTS \$0 \$0   835300 Finance Costs \$0 \$0	1	•				\$0
836430   Donor recognition   \$0   \$0     890670   U of T Trades   \$30,000   \$0     Total Other   \$UB TOTAL   \$30,000   \$30,     PROJECT CONTINGENCY   \$0   \$1,458,     835758   Project Contingency   \$0   \$0     Total Project Contingency   \$0   \$0   \$0     FINANCE COSTS   \$0   \$0   \$0     835300   Finance Costs   \$0   \$0     Total Finance Costs   \$0   \$0   \$0	1		Ground breaking, Top off, Grand opening			\$0
890670   U of T Trades   \$30,000   \$0   \$30,     Total Other   SUB TOTAL   \$30,000   \$0   \$30,     PROJECT CONTINGENCY   \$35758   Project Contingency   \$0   \$0   \$1,458,     S35758   Project Contingency   \$0   \$0   \$0   \$0   \$0     FINANCE COSTS   \$35300   Finance Costs   \$0   \$0   \$0   \$0     Total Finance Costs   \$0   \$0   \$0   \$0   \$0   \$0   \$0	1					\$0
890670   U of T Trades   \$30,000   \$0   \$30,     Total Other   SUB TOTAL   \$30,000   \$0   \$30,     PROJECT CONTINGENCY   \$35758   Project Contingency   \$0   \$0   \$1,458,     S35758   Project Contingency   \$0   \$0   \$0   \$0   \$0     FINANCE COSTS   \$35300   Finance Costs   \$0   \$0   \$0   \$0     Total Finance Costs   \$0   \$0   \$0   \$0   \$0   \$0   \$0	836430	Donor recognition		\$0	\$0	\$0
Total Other \$30,   SUB TOTAL \$1,458,   PROJECT CONTINGENCY \$0   835758 Project Contingency   Total Project Contingency \$0   FINANCE COSTS \$0   835300 Finance Costs   Total Finance Costs \$0	890670	U of T Trades		\$30,000	\$0	\$30,000
SUB TOTAL \$1,458,   PROJECT CONTINGENCY \$0 \$0   835758 Project Contingency \$0 \$0   Total Project Contingency \$0 \$0 \$0   FINANCE COSTS \$0 \$0 \$0   835300 Finance Costs \$0 \$0   Total Finance Costs \$0 \$0 \$0		Total Other			1	\$30,000
PROJECT CONTINGENCY   \$0   \$0     835758   Project Contingency   \$0   \$0     Total Project Contingency   \$0   \$0   \$0     FINANCE COSTS   \$0   \$0   \$0     835300   Finance Costs   \$0   \$0     Total Finance Costs   \$0   \$0   \$0						\$1,458,123
835758 Project Contingency Total Project Contingency FINANCE COSTS 835300 Finance Costs Total Finance Costs 0 0 0 0 0 0 0 0 0	PROJECT					÷.,100,120
Total Project Contingency   Image: Contingency     FINANCE COSTS   835300     835300   Finance Costs     Total Finance Costs   \$0     Subscription   Subscription	1			¢o	¢∩	¢∩
FINANCE COSTS   \$0   \$0     835300   Finance Costs   \$0   \$0     Total Finance Costs   0   0   0	030100			<b>Ф</b> О	<b>Ф</b> О	\$0
835300 Finance Costs \$0 \$0						\$0
Total Finance Costs	1					
	835300			\$0	\$0	\$0
TOTAL PROJECT COST: \$1,458,		Total Finance Costs			Ī	\$0
TOTAL PROJECT COST: \$1,458,						
			TOTAL PROJECT COST:			\$1,458,123
						, ,,

Recommended by: Date:

NO     TEM     REMARKS     BASE COST     OST(1.65%)     COST       835730     Min contract     357.60.00     \$12.28     \$776.00     \$776.00     \$776.00     \$776.00     \$776.00     \$776.00     \$776.00     \$776.00     \$776.00     \$776.00			PROJECT: Underground oil tank replaceme U OF T PROJECT NO:	ent		
CONSTRUCTION     \$750,000     \$12,375     \$776,237       835720     Other contract     0il contamination testing     \$776,000     \$12,375     \$776,237       835720     Strand Mark Contingency     10%     \$776,000     \$12,38     \$762,37       835720     Tearondary effects     \$0     \$0     \$0     \$38       835720     Tearondary effects     \$376,000     \$12,38     \$762,37       835720     Tearondary effects     \$350,000     \$12,38     \$762,37       835720     Fazeronal and the envolation and train tenvolation and the envolation and train tenvolation and tenvolationand tenvolation and tenvolationand tenvolation and tenvol						
838730     Main contract     alcontamination testing     \$750,000     \$71,2375     \$7762,000     \$71,2375     \$7762,000     \$71,238     \$7162,000     \$71,238     \$7			REMARKS	BASE COST	<u>GST(1.65%)</u>	COST
383762     Other contract     oil contamination testing     \$75,000     \$71,288     \$76,280     \$8387       835767     Construction Contingency     10%     \$75,000     \$838     \$856       835767     Total Construction     10%     \$75,000     \$838     \$856       83576     Demolition     \$80,000     \$833     \$81,320     \$813,20       83576     Demolition     \$15,000     \$248     \$15,24     \$15,24       10%     S76,000     \$15,000     \$248     \$15,24     \$15,24       10%     S76,000     \$150,000     \$160,000				<b>*750000</b>	<b>*</b> • • • • • • •	<b>*</b> =00.0==
383754     Secondary effects     So     So <thso< th="">     So     <thso< th="">     So<td></td><td></td><td></td><td></td><td></td><td></td></thso<></thso<>						
383767     Construction Contingency     10%     \$75,000     \$81,238     \$76,228       383768     Demolition     \$80,000     \$81,320     \$81,320     \$81,320       383768     Ste proparation     \$81,000     \$13,20     \$81,32     \$81,32       383768     Ste proparation     \$15,000     \$248     \$15,220     \$10,165,50       AUNSCAPING     \$10,000     \$165     \$10,165,50     \$10,165,50     \$10,165,50       AUNSCAPING     \$10,000     \$165     \$10,165,50     \$10,165,50     \$10,000     \$165,50     \$10,50     \$10,50     \$10,50     \$10,50     \$10,50     \$10,50     \$10,50<			oil contamination testing			
836762     Hazardous materials removal     \$5,000     \$8,33     \$5,000       836765     Berreparation     \$80,000     \$1,320     \$81,33       836766     Demolition     \$80,000     \$1,320     \$81,33       836765     Demolition     \$10,000     \$1,320     \$81,33       835765     Landscaping     \$0     \$0     \$0       7041     Landscaping     \$10,000     \$16,50     \$10,168       835000     Permits     \$10,000     \$16,50     \$10,168       835000     Constructon management fees     \$50,000     \$80     \$50       835200     Constructon management fees     \$0     \$0     \$2       835200     Constructon management fees     \$3,500     \$20     \$35     \$3       835211     Constructon management fees     \$3,500     \$30     \$2     \$35,500     \$30     \$2       835212     External Project Manage     \$0     \$30     \$2     \$35,500     \$30     \$2       835212     Stell services A infrastructure     \$3,500     \$30 <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$0</td>						\$0
383765 Demolition \$81.32 \$13.20 \$13.20 \$13.20   383768 Site preparation \$15.000 \$14.20 \$11.20   383756 Site preparation \$15.000 \$12.20 \$11.20   383756 Site preparation \$0 \$0 \$0   383757 Site Andersepring \$0 \$0 \$0   7014 Prote Fastion Mat. Fachitets, Engineers \$55.000 \$908 \$55.900   383200 Consultants - Architets, Engineers \$0 \$0 \$0   383201 Consultants - Architets, Engineers \$0 \$0 \$0   383701 Telephone \$0 \$0 \$0   \$13202 Descripter <td>835757</td> <td>Construction Contingency</td> <td>10%</td> <td>\$75,000</td> <td>\$1,238</td> <td>\$76,238</td>	835757	Construction Contingency	10%	\$75,000	\$1,238	\$76,238
383768     Site preparation     \$15,000     \$248     \$15,228       LANDSCAPING     \$0 <td>835762</td> <td>Hazardous materials removal</td> <td></td> <td>\$5,000</td> <td>\$83</td> <td>\$5,083</td>	835762	Hazardous materials removal		\$5,000	\$83	\$5,083
Site preparation     \$15,000     \$248     \$15,224       Total Construction     \$10,000     \$0     \$       ANDSCAPING     \$0     \$0     \$       835755     Landscaping     \$     \$     \$       Total Landscaping     \$     \$     \$     \$     \$       835400     Permits     \$     <	835765	Demolition		\$80,000	\$1,320	\$81,320
Total Construction     \$1,016,56       LANDSCAPINO     \$0     \$       335755     Landscaping     \$0     \$       Total Landscaping     \$0     \$     \$       \$2570     Permits     \$10,000     \$     \$       \$36700     Permits     \$     \$     \$     \$       \$36700     Permits     \$     <	835768	Site preparation		\$15,000	\$248	\$15,248
LANDSCAPING     \$0     \$0     \$0     \$0       S3756     Landscaping     \$10,000     \$165     \$10,000     \$165       S35400     Permits     \$10,000     \$165     \$10,100     \$165     \$10,100       S35400     Permits     \$10,000     \$165     \$10,100     \$165     \$10,100       S35700     Consultants - disturates     \$55,000     \$808     \$55,000     \$808     \$55,000     \$808     \$55,000     \$808     \$55,000     \$808     \$55,000     \$808     \$55,000     \$808     \$55,000     \$808     \$55,000     \$808     \$55,000     \$808     \$55,000     \$808     \$55,000     \$808     \$85,220     \$210     Construction management fees     \$50		• •				\$1,016,500
953755     Landscaping     \$0     \$0     \$       Total Landscaping     \$10,000     \$165     \$10,000     \$165       9ERMITS, INSURANCE     \$10,000     \$165     \$10,100     \$165       836700     Permits, Insurance     \$10,000     \$165     \$10,100       PROFESSIONAL FEES     \$55,000     \$265     \$50,000     \$255,000     \$265,000       835204     Consultants - disbursements     \$50,000     \$263     \$35,000     \$30						\$ 1,0 10,000
Total Landscaping     3       PERMITS, INSURANCE     \$10,000     \$165       835400     Permits     \$10,000     \$165       836700     Insurance     \$10,000     \$165       7018     Permits     \$10,000     \$165       836700     Consultants-instructions, Engineera     \$55,000     \$938       835200     Consultants-instructions, Engineera     \$50     \$00       835204     Construction management fees     \$00     \$00     \$55,000       835720     Edge fees-     \$00     \$00     \$55,000     \$38       835721     External Professional fees     \$00     \$00     \$55,000     \$55,000       \$35725     Management fees-Capital Projects     \$3,50%     \$35,000     \$00     \$55,000       \$35725     Site services & infrastructure     \$30     \$00     \$55,000     \$55,000       \$35725     Site services & infrastructure     \$00     \$00     \$55,000     \$50     \$50       \$35700     Site services & infrastructure     \$00     \$00     \$50     \$50     \$				¢o	¢o	\$0
PERMITS, INSURANCE     \$10,000     \$165     \$10,10       835400     Permits     \$0     \$10,10       83500     Consultants: Architects, Engineers     \$55,000     \$835       835200     Consultants: Architects, Engineers     \$50     \$50     \$50       835201     Consultants: Architects, Engineers     \$50     \$50     \$50     \$50       835201     Consultants: Architects, Engineers     \$50     \$50     \$50     \$50       835201     Legal fees     \$50     \$50     \$50     \$50     \$50       835201     Legal fees     \$50     \$0     \$5     \$50 <td< td=""><td>033733</td><td></td><td></td><td>φυ</td><td>φυ</td><td>\$0 \$0</td></td<>	033733			φυ	φυ	\$0 \$0
834400     Permits     \$10,000     \$1665     \$10,10       PROFESIGNAL FEES     \$50     \$0     \$10,10       845200     Consultants - Architects, Engineers     \$55,000     \$56,000     \$55,000     \$58,000     \$55,500     \$55,500	DEDMITO					<b>Ф</b> О
836700     Insurance     \$0     \$0     \$10,16       PROFESSIONAL FEES     \$55,000     \$908     \$55,900     \$908     \$55,000     \$908     \$55,900     \$908     \$55,900     \$908     \$55,000     \$908     \$55,000     \$908     \$55,000     \$83     \$55,000     \$83     \$55,000     \$83     \$55,000     \$83     \$55,000     \$83     \$55,000     \$83     \$55,000     \$83     \$55,000     \$83     \$55,000     \$83     \$55,000     \$83     \$55,000     \$83     \$55,000     \$83     \$55,000     \$83     \$55,000     \$83     \$85,000     \$85,90				<b>*</b> • • • • • •	<b>0</b> 4 0 5	<b>*</b> • • • • • • •
Total Permits, Insurance     \$10.10       B05200     Consultants: -Architects, Engineers     \$55,000     \$55,000       835201     Consultants: -Architects, Engineers     \$55,000     \$55,000       835204     Consultants: - disbursements     \$50,000     \$55,000       835204     Construction management fees     \$0     \$0     \$0       835205     Other consultants     \$0     \$0     \$0     \$0       835206     Other consultants     \$0     \$0     \$0     \$0     \$0       835727     External Project Manager     \$0						
PROFESSIONAL FEES     Sol	836700	Insurance		\$0	\$0	\$0
835200     Consultants - Architects, Engineers     \$55,000     \$56,000     \$56,000     \$56,000     \$56,000     \$56,000     \$56,000     \$56,000     \$56,000     \$56,000     \$56,000     \$56,000     \$56,000     \$56,000     \$50		Total Permits, Insurance				\$10,165
835201     Consultants     \$5,000     \$83     \$5,000       835204     Consultants     \$0     \$0     \$0       835204     Consultants     \$0     \$0     \$0       835204     Other consultants     \$0     \$0     \$0       835710     Legal fees     \$0     \$0     \$0       835721     External Project Manager     \$0     \$0     \$35       835721     External Project Ananger     \$0     \$0     \$35       835700     Site services & infrastructure     \$0     \$0     \$35       7011     Professional fees     \$0     \$0     \$35       82710     Site services & infrastructure     \$0     \$0     \$0       82710     Computer Wiring & Telephones     \$0     \$0     \$0       MOVING AND STAGING     \$0     \$0     \$0     \$0     \$0       83710     Moving and Staging     \$0     \$0     \$0     \$0     \$0       70141     Professional equipment     \$0     \$0     \$0     \$0	PROFESS	SIONAL FEES				
835201     Consultants     \$5,000     \$83     \$5,000       835204     Consultants     \$0     \$0     \$0       835204     Consultants     \$0     \$0     \$0       835204     Other consultants     \$0     \$0     \$0       835710     Legal fees     \$0     \$0     \$0       835721     External Project Manager     \$0     \$0     \$35       835721     External Project Ananger     \$0     \$0     \$35       835700     Site services & infrastructure     \$0     \$0     \$35       7011     Professional fees     \$0     \$0     \$35       82710     Site services & infrastructure     \$0     \$0     \$0       82710     Computer Wiring & Telephones     \$0     \$0     \$0       MOVING AND STAGING     \$0     \$0     \$0     \$0     \$0       83710     Moving and Staging     \$0     \$0     \$0     \$0     \$0       70141     Professional equipment     \$0     \$0     \$0     \$0	835200		's	\$55.000	\$908	\$55,908
825204     Construction management fees     \$0     \$0     \$0       835206     Other consultants     \$0     \$0     \$0       835207     Design fees-In House     \$0     \$0     \$0     \$35       835720     Design fees-In House     \$0     \$0     \$35     \$0     \$0     \$35       835721     External Project Manager     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0     \$35,000     \$0						\$5,083
835206     Other consultants     \$0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$0,000</td>						\$0,000
835210     Legal fees     \$0     \$0     \$1       835720     Design fees-In House     \$0     \$0     \$35       835720     External Project Manager     \$35,000     \$0     \$35,000						\$0 \$0
383720     Design fees-in House     \$0     \$						
835721     External Project Manager 835725     \$0     \$0     \$35.00     \$0     \$35.00     \$0     \$35.00     \$0     \$35.00     \$0     \$35.00     \$0     \$35.00     \$0     \$35.00     \$0     \$35.00     \$0     \$35.00     \$0     \$35.00     \$0     \$35.00     \$0     \$35.00     \$0     \$35.00     \$0     \$35.00     \$0     \$35.00     \$0     \$35.00     \$0 <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$0</td>						\$0
835725     Management fees-Capital Projects     3.50%     \$35,000     \$						\$0
Total Professional fees\$95,95SERVICES TO SITE\$0\$0So Total Site services & infrastructure\$0\$0Total Site Services\$0\$0S21110Computer Infrastructure\$0\$0S3500Total Computer Wiring & Telephones\$0\$0MOVING AND STAGING\$0\$0\$S37100Moving\$0\$0\$S37100Moving\$0\$0\$S21101Staging\$0\$0\$Total Moving and Staging\$0\$0\$FURNISHINGS AND EQUIPMENT\$0\$0\$S20101Furnishings\$0\$0\$S21101Av for classrooms\$0\$0\$S21101Signage-Interior\$0\$0\$S35766Signage-Exterior\$0\$0\$S35766Courier, misc.\$0\$0\$S35766Courier, misc.\$0\$0\$S35767Courier, misc.\$0\$0\$S35768Ground breaking, Top off, Grand opening\$0\$0\$S35780Project Contingency\$\$\$Total OtherSUB TOTAL\$\$11,137,65S35780Project Contingency\$0\$0\$S35780Frade Costs\$0\$0\$S35780Frade Costs\$0\$0\$S35780Frade Costs\$0\$0\$S35780Frade Costs\$0\$0 <td>835721</td> <td></td> <td></td> <td>\$0</td> <td></td> <td>\$0</td>	835721			\$0		\$0
SERVICES TO SITE     \$0	835725	Management fees-Capital Projects	3.50%	\$35,000	\$0	\$35,000
SERVICES TO SITE     \$0		Total Professional fees				\$95,990
835700     Site services & infrastructure     \$0     \$0     \$       COMPUTER WRING AND TELEPHONES     \$0     \$0     \$0     \$       835010     Telephone     \$0     \$0     \$     \$       MOVING AND STAGING     \$0     \$0     \$ </td <td>SERVICES</td> <td>S TO SITE</td> <td></td> <td></td> <td></td> <td></td>	SERVICES	S TO SITE				
Total Site Services     S       COMPUTER WIRING AND TELEPHONES     \$0				\$0	\$0	\$0
COMPUTER WIRING AND TELEPHONES     \$0	000700			ψŪ	ΨŬ	\$0
821110     Computer infrastructure     \$0 <t< td=""><td>COMPLITE</td><td></td><td></td><td></td><td></td><td>φυ</td></t<>	COMPLITE					φυ
835010     Telephone     \$0     \$0     \$0     \$1       MOVING AND STAGING     \$0     <				¢o	<b>¢</b> 0	¢o
Total Computer Wiring & Telephones     S       MOVING AND STAGING     \$0     <						\$0
MOVING AND STAGING     S0	835010			\$0	\$0	\$0
837100     Moving     \$0			iones			\$0
837101     Staging Total Moving and Staging     \$0	MOVING A	AND STAGING				
Total Moving and Staging     Sol     Sol <thsol< th="">     Sol     <thsol< th=""></thsol<></thsol<>	837100	Moving		\$0	\$0	\$0
FURNISHINGS AND EQUIPMENT     \$0	837101	Staging		\$0	\$0	\$0
FURNISHINGS AND EQUIPMENT     \$0		Total Moving and Staging				\$0
820010     Furnishings     \$0	FURNISH					
821010     Equipment     \$0				\$0	\$0	\$0
821510     AV for classrooms     \$0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$0 \$0</td>						\$0 \$0
821610   Scientific Equipment   GST is not applicable   \$0   \$0   \$0     Total Furnishings and Equipment   \$0   \$0   \$0   \$0     OTHER   \$0   \$0   \$0   \$0   \$0     820011   Signage-Interior   \$0   \$0   \$0   \$0     821325   Security & Access systems   \$0   \$0   \$0   \$0     835070   Courier, misc.   \$0   \$0   \$0   \$0   \$0     835756   Signage-Exterior   \$0   \$15,00   \$0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
Total Furnishings and Equipment     3       OTHER     \$0     \$15,00     \$0						\$0
OTHER \$0 \$0 \$0   820011 Signage-Interior \$0 \$0 \$0   821325 Security & Access systems \$0 \$0 \$0   835070 Courier, misc. \$0 \$0 \$0   835756 Signage-Exterior \$0 \$0 \$0   835766 Ceremonies \$0 \$0 \$0   835766 Ceremonies Ground breaking, Top off, Grand opening \$0 \$0   835766 Ceremonies Ground breaking, Top off, Grand opening \$0 \$0   835760 Donor recognition \$0 \$0 \$3   836430 Donor recognition \$0 \$0 \$3   8390670 U of T Trades \$15,000 \$0 \$15,000   Total Other SUB TOTAL \$11,137,65   PROJECT CONTINGENCY   835758 Project Contingency \$0 \$0   Total Project Contingency \$0 \$0 \$   FINANCE COSTS \$0 \$0 \$   835300 Finance Costs \$0 \$ \$	821610			\$0	\$0	\$0
820011     Signage-Interior     \$0 <td></td> <td>Total Furnishings and Equipme</td> <td>nt</td> <td></td> <td></td> <td>\$0</td>		Total Furnishings and Equipme	nt			\$0
821325     Security & Access systems     \$0						
821325     Security & Access systems     \$0	820011			\$0	\$0	\$0
835070     Courier, misc.     \$0     \$0     \$3       835756     Signage-Exterior     \$0     \$0     \$0     \$0     \$3       835764     Client Construction expenses     \$0     \$15,00     \$0     \$15,00     \$0     \$15,00     \$0     \$15,00     \$0     \$15,00     \$0     \$15,00     \$0     \$15,00     \$0     \$0     \$0     \$0     \$0     \$0     \$0     \$0	821325			\$0	\$0	\$0
835756   Signage-Exterior   \$0   \$0   \$0   \$0     835764   Client Construction expenses   Ground breaking, Top off, Grand opening   \$0   \$0   \$0     835766   Ceremonies   Ground breaking, Top off, Grand opening   \$0   \$0   \$0     835900   Advertising   \$0   \$0   \$0   \$0   \$0     836430   Donor recognition   \$0   \$0   \$0   \$0   \$0     836430   Donor recognition   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0   \$0						\$0
835764Client Construction expenses 835766Ground breaking, Top off, Grand opening\$0\$0\$835766Ceremonies \$35900Advertising \$0\$0\$0\$\$836430Donor recognition \$90670U of T Trades \$15,000\$0\$0\$\$836776U of T Trades \$15,000\$0\$15,000\$0\$\$7010Other\$UB TOTAL\$15,000\$0\$\$980670U of T Trades \$15,000\$0\$\$\$\$7010Other\$UB TOTAL\$\$\$\$9805758Project Contingency Total Project Contingency\$0\$\$\$7011Project Contingency Total Finance Costs\$\$\$\$9835300Finance Costs\$\$\$\$\$9835300Finance Costs\$\$\$\$\$9835300Finance Costs\$\$\$\$\$9835300Finance Costs\$\$\$\$\$9835300Finance Costs\$\$\$\$\$9835300Finance Costs\$\$\$\$\$9835300Finance Costs\$\$\$\$\$9835300Finance Costs\$\$\$\$\$9835300Finance Costs\$\$\$\$\$9835300Finance Costs\$\$\$\$\$ <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$0</td>						\$0
835766   Ceremonies   Ground breaking, Top off, Grand opening   \$0   \$0   \$3     835900   Advertising   \$0   \$0   \$0   \$0   \$0     836430   Donor recognition   \$0   \$0   \$0   \$0   \$3     836430   Donor recognition   \$0   \$0   \$0   \$0   \$3     890670   U of T Trades   \$15,000   \$0   \$15,000   \$0   \$15,000     Total Other   SUB TOTAL   \$115,000   \$0   \$115,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$11,137,650   \$11,137,650   \$0   <						\$0 \$0
835900   Advertising   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$15,000   \$0   \$11,137,650   \$11,137,650   \$0			Cround brooking. Top off. Orand analise			
836430   Donor recognition   \$0   \$0   \$0     890670   U of T Trades   \$15,000   \$0   \$15,000     Total Other   SUB TOTAL   \$15,000   \$0   \$15,000     PROJECT CONTINGENCY   SUB TOTAL   \$1,137,65     835758   Project Contingency   \$0   \$0   \$     Total Project Contingency   \$0   \$   \$   \$     FINANCE COSTS   \$35300   Finance Costs   \$   \$   \$   \$     835300   Finance Costs   \$			Ground breaking, Top on, Grand opening			\$0 \$0
890670   U of T Trades   \$15,000   \$0   \$15,000     Total Other   SUB TOTAL   \$15,000   \$0   \$15,000     PROJECT CONTINGENCY   SUB TOTAL   \$1,137,650   \$0   \$0   \$15,000     835758   Project Contingency   \$0		0				\$0
Total Other\$15,00SUB TOTAL\$1,137,65PROJECT CONTINGENCY 835758\$0\$0835758Project Contingency Total Project Contingency\$0\$0FINANCE COSTS 835300\$0\$0\$0835300Finance Costs Total Finance Costs\$0\$0Substance Costs Total Finance Costs\$0\$0\$0Substance Costs\$0\$0\$0						\$0
SUB TOTAL   \$1,137,65     PROJECT CONTINGENCY   \$0   \$1,137,65     835758   Project Contingency   \$0   \$0   \$     Total Project Contingency   \$0   \$   \$   \$     FINANCE COSTS   \$0   \$   <	890670			\$15,000	\$0	\$15,000
SUB TOTAL   \$1,137,65     PROJECT CONTINGENCY   \$0   \$0   \$1,137,65     835758   Project Contingency   \$0   \$0   \$     Total Project Contingency   \$0   \$0   \$   \$     FINANCE COSTS   \$0   \$0   \$   \$   \$   \$   \$     835300   Finance Costs   \$		Total Other				\$15,000
PROJECT CONTINGENCY   \$0			SUB TOTAL			\$1,137,655
835758   Project Contingency   \$0   \$0   \$     Total Project Contingency   \$   \$   \$     FINANCE COSTS   \$   \$   \$     835300   Finance Costs   \$   \$   \$     Total Finance Costs   \$   \$   \$   \$	PROJECT					
Total Project Contingency S   FINANCE COSTS \$0   835300 Finance Costs   Total Finance Costs \$0				\$0	\$0	\$0
FINANCE COSTS \$0 \$0 \$0   835300 Finance Costs \$0 \$0 \$   Total Finance Costs \$ \$ \$	555750	, , ,		ψΟ	ΨΟ	\$0 \$0
835300 Finance Costs \$0 \$0 \$0 \$						<b>\$</b> 0
Total Finance Costs				<b>*</b> -	<b>*</b> -	<b>*</b> -
	835300			\$0	\$0	\$0
TOTAL PROJECT COST: \$1 137 65		Total Finance Costs				\$0
TOTAL PROJECT COST: \$1 137 65						
φι,ισι,ισε			TOTAL PROJECT COST:			\$1,137,655

PROJECT					
		U OF T PROJECT NO:	DAGE GOOT	007(1.07%)	
NO	ITEM	REMARKS	BASE COST	GST(1.67%)	COST
CONSTRU					
835730	Main contract		\$0	\$0	\$2,800,000
835752	Other contract		\$0	\$0	\$0
835754	Secondary effects		\$0	\$0	\$0
835757	Construction Contingency	10%	\$0	\$0	\$280,000
835762	Hazardous materials removal	1070	\$0	\$0	\$70,000
835765	Demolition		\$0	\$0	\$0
835768	Site preparation		\$0	\$0	\$0
	Total Construction				\$3,150,000
LANDSCA	APING				
835755	Landscaping		\$0	\$0	\$0
000100	Total Landscaping		ψu	ψu	\$0
					φι
	INSURANCE				
835400	Permits		\$0	\$0	\$0
836700	Insurance		\$0	\$0	\$0
	Total Permits, Insurance			ſ	\$(
PROFFSS	IONAL FEES				
835200		10%	\$0	\$0	¢200.000
	Consultants: -Architects, Engineer	10%			\$280,000
835201	Consultants - disbursements		\$0	\$0	\$0
835204	Construction management fees		\$0	\$0	\$0
835206	Other consultants		\$0	\$0	\$0
835210	Legal fees		\$0	\$0 \$0	\$0
835720	Design fees-In House		\$0	\$0	\$0
835721	External Project Manager		\$0	\$0	\$0
835725	Management fees-Capital Projects	3.50%	\$0	\$0	\$110,250
	Total Professional fees				\$390,250
SERVICES					<i>\\</i> 0000,200
			<b>A</b> A	<b>A</b> A	•
835700	Site services & infrastructure		\$0	\$0	\$0
	Total Site Services				\$0
COMPUTE	ER WIRING AND TELEPHONES				
821110	Computer infrastructure		\$0	\$0	\$0
835010	Telephone		\$0	\$0	\$0
000010			φυ	φυ	
	Total Computer Wiring & Teleph	ones			\$0
	AND STAGING				
837100	Moving		\$0	\$0	\$0
837101	Staging		\$0	\$0	\$0
	Total Moving and Staging		ΨŪ	¢°	\$0
	INGS AND EQUIPMENT				ψι
820010	Furnishings		\$0	\$0	\$0
821010	Equipment		\$0	\$0	\$0
821510	AV for classrooms		\$0	\$0	\$0
821610	Scientific Equipment	GST is not applicable	\$0	\$0	\$0
021010			ΨΟ	ΨΟ	\$(
071155	Total Furnishings and Equipme	n			\$(
OTHER					
820011	Signage-Interior		\$0	\$0	\$0
821325	Security & Access systems		\$0	\$0	\$0
835070	Courier, misc.		\$0	\$0	\$0
835756	Signage-Exterior		\$0	\$0 \$0	\$0
835764	Client Construction expenses		\$0	\$0	\$0
835766	Ceremonies	Ground breaking, Top off, Grand opening	\$0	\$0	\$0
835900	Advertising		\$0	\$0	\$0
836430	Donor recognition		\$0	\$0	\$0
890670	U of T Trades		\$0 \$0	\$0 \$0	\$10,000
010060			\$0	\$U	
	Total Other				\$10,000
		SUB TOTAL			\$3,550,250
PROJECT	CONTINGENCY				· ·
835758	Project Contingency		\$0	\$0	\$0
000700	, ,		φU	φυ	
	Total Project Contingency				\$0
FINANCE	COSTS				
835300	Finance Costs		\$0	\$0	\$
	Total Finance Costs				\$(
					ψ
		TOTAL PROJECT COST:	1	1	\$3,550,250

Recommended by: Date:



Facilities and Services TOTAL PROJECT COST (TPC) [Preliminary] PROJECT NUMBER: PROJECT NAME: Re-feed power to PROJECT MANAGER: CAMPUS: St. George PROJECT DURATION:

Barry Land	TOTAL PROJECT COST (TPC) [Preliminary]	PROJECT NAME: Re-feed power to S.Fleming, Galbraith & Medical Sciences	PROJECT DURAT	ION:	
Number	Item	Remarks	Base Cost	GST (1.65%)	Cost
CONSTRUCTIO		Relliarks	Base Cost	GST (1.05 %)	COSI
	Construction: Main Contract		3,523,600	58,139	3,581,739
835752	Construction: Other Contract	Space for substation in Galbraith	150,000	2,475	152,475
835754	Secondary Effects		100,000	-	-
835757	Construction Contingency		352,360	5,814	358,174
835762	Hazardous Waste Removal		50,000	825	50,825
835765	Demolition Services		-	-	-
835768	Site Preparation			-	-
				Total Construction	\$4,143,213
	Landscaping Services		-	-	-
			-	Total Landscaping	\$0
PERMITS, INSU	JRANCE			1 3	
	Licences / Permits		-	-	-
836700	Insurance	Calculated at 0.30% of Main Contract	10,571	174	10,745
			,	Permits, Insurance	\$10,745
PROFESSIONA			10100	i ermus, msurunee	\$10,745
	Consulting	10	465,115	7,674	472,790
835201	Consultants: Disbursements	12	-70 -400,110	-	
835204	Construction Management Fees			_	_
835206	Other Consultants			-	-
835210	Legal Services		-	-	-
	External Project Manager		-	-	-
895720	Design Fees: In House		-	-	-
	Design: Disbursements	Meals, parking, mileage, printing	-	-	-
	Project Disbursements	Meals, parking, mileage, printing		-	-
895725	Project Management: Fees	3.50%	146,159	-	146,159
			Tota	l Professional Fees	\$618,948
SERVICES TO	SITE				<i>t t</i> ,
	Site Services and Infrastructure	City charges	100,000	1,650	101,650
			,	Total Site Services	\$101,650
	IRING AND TELEPHONES			Total She Services	\$101,050
	Equipment: Computing: Purchase	Computing & Network Services			
835010	Telephone Line Service	Computing & Network Services		-	-
000010			Total Commutan W	iring & Telephones	\$0
MOVING AND	STACING	I	Total Computer W	iring & Telephones	<i>\$0</i>
	Moving				
837100			-	-	-
037101	Staging			-	- \$0
			10101 N	<i>Moving and Staging</i>	\$U
820010	Furniture: Purchase Equipment: Purchase		-	-	-
821010 821510	Equipment: Purchase Equipment: Audio / Visual: Purchase		-	-	-
821610	Equipment: Research: Purchase	PST is not applicable		-	-
021010	Equipment. Research. Furchase			1 5	- ¢0
		1	i otat Furnishi	ngs and Equipment	\$0
OTHERS	Interior Olymposis D. J. (D. )	la chude d in Meire Contra t			
820011	Interior Signage: Purchase / Design	Included in Main Contract	-	-	-
821325	Security and Access Systems	Included in Main Contract	-	-	-
	Courier Exterior Signage: Purchase / Design	Included in Main Contract		-	-
835764	Client Construction Expenses			-	-
835766 835766	Ceremonies	Ground breaking, top off, grand opening			-
835900	Advertising / Marketing	Ground breaking, top on, grand opening			
836430	Donor Recognition	Plaques			
890670	Facilities Repair/ Renovation: Internal	Trades Incl. Fire-Utilities-Consultant		-	-
				Total Others	\$0
	ITINGENCY			SUB TOTAL:	\$4,874,557
PROJECT CON	-		101.004		101.004
835758	Project Contingency		121,864	-	121,864
			Total I	Project Contingency	\$121,864
FINANCE COS	-				
835305	Interest Charges	Excluded	-	-	-
				Total Finance Costs	\$0
			ΤΟΤΑ	L PROJECT COST:	\$4,996,421
					÷ .,•••, •= 1
Project Manag	ement Fees	Recommended by:	Approved by:		
\$146,159	Updated Jan 07, 2008	10/22/2009 22:46	Date:		
	GEGATES JULL MI. LUUD		Duic.		

## **APPENDIX B**

## **Project timeline**

		FY 2010										FY 2011													FY 2012				
(A) TIMELINE	A	S	0	N	D	ГJ	F	M	Α	М	J	J	A	S	0	Ν	D	IJ	F	Μ	Α	М	J	J	A				
MSB Re-feed						t –																							
Selection of consultant		+		→	·	<u> </u>												-											
Design					-		┢											_											
Tender								┢										_											
Delivery of equipment									-						➡			_											
Interior construction						-			-					_	➡														
Exterior construction									•						-														
CSP Capacity Improvements		-				Ļ												<u> </u>				-			<u> </u>				
(a) De-aerator/water softeners		$\vdash$	-					-																	⊢				
Design								-		_								—							-				
Tender		r-			<b>–</b>	¦ ₩→		-		_								-							-				
Delivery of equipment								-									_	—							-				
Construction		-				i–				_					-			—											
Construction		-	_			i		-		_					┍╸			—							<u> </u>				
						i-												<u> </u>							$\vdash$				
(b) Replace U/G oil tank						<u> </u>												-											
Selection of consultant			•	►	·	<u> </u>																							
Design					•	⊨	┢																						
Tender						-												-											
Delivery of equipment						÷																							
Construction						i						•			┢														
						i –												i											
MSB - Chiller & cooling tower						i												i—											
Selection of consultant					-	Ì→												<u> </u>											
Design						1	•											<b>—</b>											
Tender						1		$\leftrightarrow$			•																		
Delivery of equipment						1			•							-													
Tower installation						t –							•					_											
Chiller installation						<u> </u>									•														
						<u> </u>												-											