



APPENDIX 2

September 13th, 2021**Attn: Mr. Greg Frew, P.Eng.**

Project Manager, Environmental Services

Transportation and Works Department

City of Mississauga

T: 905.615.3200 ext. 3362

E: greg.frew@mississauga.ca

Re: Change Order Request for Construction Administration and Inspection – Applewood Creek Erosion Control at Lakeview Golf Course, PO 4500494836

Dear Greg,

The detailed design, including creek restoration and golf course improvement for the Applewood Creek Erosion Control at Lakeview Golf Course is near completion, and we are looking forward to a successful tendering and implementation program.

At the outset of the project, it was assumed that construction of the creek work would take place over roughly four (4) months between November to March while the golf course was closed. However, due to the extent of the work, including alterations to the golf course itself to accommodate the re-aligned creek, it is understood that the construction duration and the types of specialty inspection services required will be considerably more extensive than originally planned. The creek construction and related golf course restoration work is now expected to extend over (9) nine months from October 12th, 2021 to July 15th, 2022, and will also require technical expertise from the golf course landscape architect and irrigation consultants.

The specific tasks included in this Change Order for your consideration include the following:

TASK 1 - CONSTRUCTION ADMINISTRATION AND INSPECTION

Aquafor will honor the approved rates for construction supervision and administration of the project, covering an extended duration of construction into 2021 - 2022.

Through the EA process, natural restoration of the entire length of Applewood within the study area was selected as the preferred alternative which has been reviewed and agreed by key City stakeholders, Lakeview Golf Course administration team, and the larger public. In addition, the proposed works also include extensive golf course and irrigation system renovation works which also are limited by season and temperature. The total construction budget is estimated to be in the range of ~\$7M.

We understand that the base scope construction administration budget as per the original RFP/Proposal allowed for a 90-day (720 hours) timeframe. However, due to the large scale and complexity of the proposed works, the construction duration is now anticipated to be 190 working days.

For the purpose of this Change Order request, it will include construction services during the remaining 100 days of the total 190-day duration, for which 40 days of full day (8 hours/day) inspection and 60 days of half-day (4 hours/day) inspection are anticipated. The total additional hours of construction inspection are 560 hours. The costs for the additional services have been calculated as per the approved hourly rates within the original proposal

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September 13th, 2021**TASK 2 – GOLF COURSE ARCHITECT & IRRIGATION SUPPORT DURING CONSTRUCTION**

In addition to Aquafor's full time supervision and administration service, technical support and expertise from Schollen and GT Irrigation are required throughout construction when the golf course renovation and irrigation system repair works are being undertaken.

Their technical support will include:

- Bidders meeting and bid evaluation as required
- Review of shop drawings and submittals
- Construction inspection regarding golf course and landscaping features
- Attendance at construction meetings

For the purpose of this Change Order request, we are planning on attendance of weekly meeting by the golf course architect team – Mr. Cam Tyers, as well as additional support from Mark Schollen and Gary Taylor. They will also be onsite throughout the planned construction at all key milestones, ensuring the golf course features are implemented as per plans.

PROPOSED COSTING

Summarized in the table below is the professional fees and disbursement for all tasks noted above. The upset limit of this Change Order request is \$157,305.00, excluding HST.

CONSULTANT NAME:		Aquafor Beech Limited		Aquafor Beech Limited		Schollen & Company Inc		Schollen & Company Inc		GT Irrigation		TOTAL		
ASSIGNED STAFF - PERSON NAME:		Rob Amos		Inspector / Support		Mark Schollen		Cam Tyers		Gary Taylor		"Formula Calculation"		
No.	PROJECT TASKS	"#HRS"	"#HRS" x "HRS"	"#HRS"	"#HRS" x "HRS"	"#HRS"	"#HRS" x "HRS"	"#HRS"	"#HRS" x "HRS"	"#HRS"	"#HRS" x "HRS"	"Formula Calculation"		
		(#) of HOURS	FEES (\$)	(#) of HOURS	FEES (\$)	(#) of HOURS	FEES (\$)	(#) of HOURS	FEES (\$)	(#) of HOURS	FEES (\$)	(#) of HOURS	FEES (\$)	Disbursements (\$)
1	CONSTRUCTION ADMINISTRATION AND INSPECTION (additional 100 days, 560 hours)	150	\$ 19,500.00	560	\$ 44,800.00		0		0		0	710	\$ 64,300.00	\$ 3,215.00
2	GOLF COURSE ARCHITECT & IRRIGATION SUPPORT DURING CONSTRUCTION		0		0	78	\$ 19,578.00	360	\$ 59,940.00	30	\$ 6,000.00	468	\$ 85,518.00	\$ 4,275.90
	Total for this phase	150	\$ 19,500.00	560	\$ 44,800.00	78	\$ 19,578.00	360	\$ 59,940.00	30	\$ 6,000.00	1178	\$ 149,818.00	\$ 7,490.90
	Hourly Rate ("HR\$")	\$	130.00	\$	80.00	\$	251.00	\$	166.50	\$	200.00			
	TOTAL FEES (\$)	\$149,818.00												
	TOTAL Number of HOURS	1,178.00												
	DISBURSEMENTS charges (\$)	\$ 7,490.90												
	TOTAL COST OF THIS PHASE (excluding HST)	\$157,308.90												

Should you require any additional information or clarification regarding this request for budget amendment, please do not hesitate to contact the undersigned at 416.705.2367.

Sincerely,
AQUAFOR BEECH LIMITED

Robert Amos, MAsc. P.Eng.

Aquafor Beech Ltd.

✉ Amos.R@Aquaforbeech.com