



## **MEMO**

*To: Bill Lovallo – Belmont Middle and High School Building Committee*

*From: Justin Ferdenzi, Daedalus Projects Inc.*

*Date: June 14<sup>th</sup>, 2019*

### **RE: The Belmont Middle and High School Project**

*Dear Bill,*

*On April 30<sup>th</sup>, 2019 Daedalus Projects Inc. issued a request for proposals to provide Construction Materials Testing and Inspections Services for the Belmont Middle and High School project through a public advertisement. Four proposal were submitted on or prior to the deadline on May 14<sup>th</sup>, 2019. Below is the list of firms that submitted proposals, included qualifications and pricing.*

- 1. Universal Testing Services of Massachusetts, Inc.*
- 2. The LiRo Group*
- 3. John Turner Consulting, Inc.*
- 4. Fenagh Engineering and Testing*

*After reviewing the submissions received. On May 14<sup>th</sup> and considering each firms' qualifications and price proposals, the preferable firm is **Universal Testing Services of Massachusetts (UTS of Ma)***

*Based on their level of qualifications and price proposal we recommend that UTS of MA be appointed to carry out Construction Materials Testing and Inspection services for the Belmont Middle and High School project for the not to exceed amount of \$250,000.*

ITEM	Unit	Quantity	UTS of MA	Totals	Liro	Totals	John Turner	Totals	Fenagh	Totals
<b>I. SOILS</b>										
Mechanical Gradation Analysis (ASTM D-422)	/ sample		\$ 100	\$ -	\$ 100	\$ -	\$ 85	\$ -	\$ 75	\$ -
Standard Proctor (ASTM D-698)	/ sample		\$ 110	\$ -	\$ 75	\$ -	\$ 80	\$ -	\$ 115	\$ -
Modified Proctor (ASTM D-1557)	/ sample		\$ 110	\$ -	\$ 75	\$ -	\$ 125	\$ -	\$ 115	\$ -
Compaction Testing by Nuclear Methods (ASTM D-2922)	/ half day		\$ 170	\$ -	\$ 88	\$ -	\$ 140	\$ -	\$ 140	\$ -
	/ full day	100	\$ 310	\$ 31,000	\$ 176	\$ 17,600	\$ 280	\$ 28,000	\$ 360	\$ 36,000
Compaction Testing by Sand-Cone Method (ASTM D-1556)	/ half day		\$ 160	\$ -	\$ 88	\$ -	\$ 140	\$ -	\$ 140	\$ -
	/ full day	100	\$ 300	\$ 30,000	\$ 176	\$ 17,600	\$ 280	\$ 28,000	\$ 360	\$ 36,000
Soils Engineer, (Field Tech Engineer) with experience in the classification of rock	/ half day		\$ 500	\$ -	\$ 400	\$ -	\$ 360	\$ -	\$ 500	\$ -
	/ full day	15	\$ 1,000	\$ 15,000	\$ 800	\$ 12,000	\$ 700	\$ 10,500	\$ 1,000	\$ 15,000
Professional Engineering Time	/ hour		\$ 125	\$ -	\$ 125	\$ -	\$ 90	\$ -	\$ 135	\$ -
	/ half day		\$ 500	\$ -	\$ 500	\$ -	\$ 360	\$ -	\$ 540	\$ -
	/ full day	10	\$ 1,000	\$ 10,000	\$ 1,000	\$ 10,000	\$ 700	\$ 7,000	\$ 1,080	\$ 10,800
Sampling at Site	/ visit		\$ 50	\$ -	\$ 50	\$ -	\$ 45	\$ -	\$ 95	\$ -
<b>Sub Total</b>				<b>\$ 86,000</b>		<b>\$ 57,200</b>		<b>\$ 73,500</b>		<b>\$ 97,800</b>
Overtime multiplier	X reg. rate		1.5		1.5		1.5		1.5	
<b>II. CONCRETE</b>										
Field monitoring, lump testing, air testing, fabrication of test	/ half day		\$ 160	\$ -	\$ 88	\$ -	\$ 140	\$ -	\$ 132	\$ -
Field Monitoring	/ full day	100	\$ 300	\$ 30,000	\$ 176	\$ 17,600	\$ 280		\$ 264	\$ 26,400
Cylinder Compression Testing (ASTM C-39)	/specimen	200	\$ 12	\$ 2,400	\$ 10	\$ 2,000	\$ 13		\$ 10	\$ 2,000
Transportation of test specimens to lab	/ trip	30	\$ 50	\$ 1,500	\$ 50	\$ 1,500	\$ 45	\$ 1,350	\$ 60	\$ 1,800
<b>Sub Total</b>				<b>\$ 33,900</b>		<b>\$ 21,100</b>		<b>\$ 1,350</b>		<b>\$ 30,200</b>
Overtime multiplier	X reg. rate		1.5		1.5		1.5		1.5	
<b>III. MASONRY</b>										
Field monitoring, testing and fabrication of test specimens	/ half day		\$ 160	\$ -	\$ 88	\$ -	\$ 140	\$ -	\$ 204	\$ -
	/ full day	60	\$ 300	\$ 18,000	\$ 176	\$ 10,560	\$ 280	\$ 16,800	\$ 408	\$ 24,480
Field monitoring, testing and fabrication of test specimens	/ specimen	100	\$ 12	\$ 1,200	\$ 10	\$ 1,000	\$ 14	\$ 1,400	\$ 10	\$ 1,000
Grout Prism Compression Testing	/ specimen	100	\$ 50	\$ 5,000	\$ 10	\$ 1,000	\$ 17	\$ 1,700	\$ 15	\$ 1,500
<b>Sub Total</b>				<b>\$ 24,200</b>		<b>\$ 12,560</b>		<b>\$ 19,900</b>		<b>\$ 26,980</b>
Overtime multiplier	X reg. rate		1.5		1.5		1.5		1.5	
<b>IV. STRUCTURAL STEEL</b>										
Visual inspection of welds and bolted connections	/ half day		\$ 200	\$ -	\$ 320	\$ -	\$ 380	\$ -	\$ 220	\$ -
Ultrasonic Testing of Full Penetration Welded Connections (ASTM E-164)	/ half day		\$ 225	\$ -	\$ 320	\$ -	\$ 600	\$ -	\$ 260	\$ -
Ultrasonic Testing of Full Penetration Welded Connections (ASTM E-164)	/ full day	100	\$ 425	\$ 42,500	\$ 640	\$ 64,000	\$ 800	\$ 80,000	\$ 520	\$ 52,000
Magnetic Particle Testing of Fillet Welds and Partial Penetration Welds (ASTM E-709)	/ half day		\$ 225	\$ -	\$ 320	\$ -	\$ 600	\$ -	\$ 260	\$ -
	/ full day		\$ 425	\$ -	\$ 640	\$ -	\$ 800	\$ -	\$ 520	\$ -
<b>Sub Total</b>				<b>\$ 42,500</b>		<b>\$ 64,000</b>		<b>\$ 80,000</b>		<b>\$ 52,000</b>
Overtime multiplier	X reg. rate		1.5		1.5		1.5		1.5	
<b>V. FIRE PROOFING</b>										
Fire Proof Thickness Data (ASTM E-605)	/ half day		\$ 160	\$ -	\$ 88	\$ -	\$ 240	\$ -	\$ 200	\$ -
	/ full day	30	\$ 300	\$ 9,000	\$ 176	\$ 5,280	\$ 480	\$ 14,400	\$ 400	\$ 12,000
Fire Proofing Field/ Lab Density and Displacement Testing (ASTM E-605.8.2 & E-605.8.3)	/ half day		\$ 200	\$ -	\$ 88	\$ -	\$ 240	\$ -	\$ 200	\$ -
	/ full day	20	\$ 400	\$ 8,000	\$ 176	\$ 3,520	\$ 480	\$ 9,600	\$ 400	\$ 8,000
Fire Proofing Bond Testing - Cohesion & Adhesion (ASTM E-736)	/ half day		\$ -	\$ -	\$ 88	\$ -	\$ 240	\$ -	\$ 200	\$ -
	/ full day	20	\$ -	\$ -	\$ 176	\$ 3,520	\$ 480	\$ 9,600	\$ 400	\$ 8,000
<b>Sub Total</b>				<b>\$ 17,000</b>		<b>\$ 12,320</b>		<b>\$ 33,600</b>		<b>\$ 28,000</b>
Overtime multiplier	X reg. rate		1.5		1.5		1.5		1.5	
<b>VI. BITUMINOUS CONCRETE</b>										
Field monitoring and testing	/ half day		\$ 160	\$ -	\$ 88	\$ -	\$ 180	\$ -	\$ 220	\$ -
Field monitoring and testing	/ full day	30	\$ 300	\$ 9,000	\$ 176	\$ 5,280	\$ 360	\$ 10,800	\$ 440	\$ 13,200
Extraction analysis	/ sample	50	\$ 75	\$ 3,750	\$ 250	\$ 12,500	\$ 200	\$ 10,000	\$ 175	\$ 8,750
Coring services	/ half day		\$ 450	\$ -	\$ 100	\$ -	\$ 275	\$ -	\$ 500	\$ -
	/ full day	10	\$ 850	\$ 8,500	\$ 200	\$ 2,000	\$ 500	\$ 5,000	\$ 1,000	\$ 10,000
<b>Sub Total</b>				<b>\$ 21,250</b>		<b>\$ 19,780</b>		<b>\$ 25,800</b>		<b>\$ 31,950</b>
Overtime multiplier	X reg. rate		1.5		1.5		1.5		1.5	
<b>Pricing Total:</b>				<b>\$ 224,850</b>		<b>\$ 186,960</b>		<b>\$ 234,150</b>		<b>\$ 266,930</b>
<b>VII. PROFESSIONAL LIABILITY</b>										
Indicate the dollar amount limit of Professional Liability Insurance carried by your firm (Min. \$1 million required):	\$(in millions)		2		2		3		3	
<b>VII. Project Estimate by Vendor</b>										
Estimated provided for Cost of all Testing and Inspections			\$250,000.00		\$130,000.00		\$110,950.00		\$107,747.00	