HARRISON ENGINEERING DEPARTMENT

Town/Village of Harrison Alfred F. Sulla, Jr. Municipal Building 1 Heineman Place Harrison, New York 10528

Michael J. Amodeo, P.E., CFM Town/Village Engineer



January 17, 2022

Supervisor Richard Dionisio and Members of the Town Board Town of Harrison 1 Heineman Place Harrison, New York 10528

Re: Park Lane Wall Project

Dear Supervisor Dionisio and Members of the Town Board:

Town Board authorization is requested to hire ELQ Industries, Inc. for replacement of a failing retaining wall along the Park Lane right-of-way, at a cost not to exceed \$345,000.00.

The wall which supports the west side of the roadway runs for approximately 175 feet and is located between Stonewall Circle and Burns Road.

ELQ Industries, Inc. was awarded the Job Order Contracting (JOC) Services Contract for Region 1, for Paving and Excavating under the Gordian ezIQC - City of White Plains contract #903198.

The scope of services is detailed in the attached proposal.

Funding for this project is available in the Highway Special Services account #003-5110-100-0407.

Further, authorization is requested for the Purchasing Department to issue a Purchase Order payable to ELQ Industries at an amount of \$345,000.00.

Respectfully submitted.

Michael J. Amodeo, PE, CFM

Town/Village Engineer

MJA/mep

Attachments

G:\Capital Projects\Park Lane Wall\TB Letter to Hire ELQ and Issue PO for Park Lane Wall.docx





Contractor's Price Proposal Summary- Category

Work Order #:

110648.00

Title

Harrison Park Lane Retaining Wall

Contractor:

903198 - ELQ Industries

Proposal Value:

\$311,260.14

Proposal Name:

Harrison Park Lane Retaining Wall

To: Michael Amodeo

Town Engineer Town of Harrison 1 Heineman Place Harrison, NY 10528 From: Tony Silva

Chief Estimator ELQ Industries 567 5th Ave

New Rochelle, NY 10801

	New Rochelle, NY 10801
Asphalt Restoration:	* 4400= 45
Backfill/Grading:	\$ 14807.17
Barriers:	\$ 1460.93
Clearing/Grubbing:	\$ 27712.78
Excavation:	\$ 16058.68
Excavation/Demo:	\$ 33777.19
	\$ 36693.47
Guard Rail:	\$ 8980.51
Guardrail Posts:	\$ 687.00
Mobilization:	\$ 2811.05
МРТ:	
Pipe:	\$ 29607.14
Retaining Wall:	\$ 2244.11
Rip Rap Apron:	\$ 127208.36
Striping:	\$ 2011.24
Wall Backfill:	\$ 72.96
	\$ 6266.70
Wall Prep:	\$ 860.84
Vork Order Proposal Total	\$311260.13
	4511200.15

This work order proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.





Contractor's Price Proposal Detail- Category

Work Order #:

110648.00

Title

Harrison Park Lane Retaining Wall

Contractor:

903198 - ELQ Industries

Proposal Value:

\$311,260.14

Proposal Name:

Harrison Park Lane Retaining Wall

CSI Number

Mod.

UOM Description

Line Total

Asphalt	Restoration
----------------	-------------

1 32 12 16 13-0026

TON Hand Placed Hot Mixed Asphalt 3,954 LB/CYFor small areas not reachable by

machine. Includes placement, rolling, finishing and sweeping.

Quantity

Unit Price

ring.

\$14807.17

Installation

40.50

Unit Price \$268.85

Factor 1.3599 = Total \$14,807.17

User Note: Restoration area behind wall to road edge 1080 SF (Binder at 4" top at 2")

Subtotal for Asphalt Restoration:

\$14807.17

Back	cfill/Grading									
2	31 23 16 13-0010		CY	Backfilling or Placing Materials by Machine		e for Trenches wit	th Importe	ed or Stockpiled		\$205.30
				Quantity		Unit Price		Factor	Total	
			Installation	45.20	×	\$3.34	x	1.3599 =	\$205.30	
		User Note:	25.2 Cy at	Wall Footing, 20 CY ur	nder aspi	halt pavement				
3	31 23 16 13-0010	0049	CY	For >20 To 50, Add						\$102.65
				Quantity		Unit Price		Factor	Total	4.02.00
			Installation	45.20	×	\$1.67	v	1 2500 =	\$102.65	

3	31 23 16 13-0010	0049	CY	For >20 To 50, Add						\$102.65
				Quantity		Unit Price		Factor	Total	\$102.00
			Installation	45.20	x	\$1.67	×	1.3599 =	\$102.65	
4	31 23 16 13-0013		CY	Compaction of Fill or Etcetera	Subbase	for Trenches by	Vibratory	Plate, Air Tamper,		\$441.34
			21 70 700 10	Quantity		Unit Price		Factor	Total	
			Installation	45.20	x	\$7.18	×	1.3599 =	\$441.34	
5	31 23 16 33-0016		SY	Finish Grading for Bu	k Excava	ation by Machine				\$243.71
				Quantity		Unit Price		Factor	Total	V 10.11
			Installation	314.40	×	\$0.57	x	1.3599 =	\$243.70	
		User Note:	Front of Wa	II/Behind Wall at Road	Level					
6	31 25 14 16-0003		SY	S75 Single Net Fracio	n Contro	BlanketStraw m	atrix with	do avo deble sheet day		

6	31 25 14 16-0003	a si	Single Net Erosiongle standard phother than the standard phother than	otodegra	ol BlanketStraw n dable polypropyle	natrix with ne netting	degradable thread to as manufactured by		\$467.93
			Quantity		Unit Price		Factor	Total	
		Installation	194.40	x	\$1.77	X	1.3599 =	\$467.93	

User Note: Front of Wall

Subtotal for Backfill/Grading:

\$1460.93

Barriers





Work Order #:

110648.00

Title

Harrison Park Lane Retaining Wall

CSI Number

Mod.

UOM Description

	7	01 22 20 00-0015		HR	LaborerFor tasks no directed by owner of	ot includ	led in the Constru	ction Tas	k Catalog® and as		\$4494.
User Note: 2 laborers 2 days to load and unload barriers5 day for Rip Rap Placement				la stallati	Quantity	illy.	Unit Price		Factor	Total	
		*			40.00		\$82.63	×	1 3500 =		
Prof Foreman, Add Quantity Quantity Quantity Section S			User Note	e: 2 laborers	s 2 days to load and un	load ba	rriers5 day for Ri	p Rap P	acement		
Section Sect	8	01 22 20 00-0015	0002	HR	For Foreman, Add						
Page					Quantity		Unit Price		Factor	Ŧ.	\$112.
Straight Straight				Installation	n 20.00	x	\$4.13	x			
Installation 32.00 x \$72.00 x 1.3599 \$3,133.21	9	01 22 20 00-0059		HR	Flagperson For Traff	ic Contr	rol		1.0033	4112.00	
User Note: 2 Flaggers for Barrier Install/Removal 32.00 x \$72.00 x 1.3599 \$3,133.21				1			Unit Price		Factor	Tetal	\$3133.2
10					32.00			x			
Second Company Compa			User Note	: 2 Flaggers	for Barrier Install/Rem	oval			1.5555	70,100.21	
Installation 2.50 x \$1.824.02 x 1.3599 = \$6,201.21	10	01 22 23 00-0312		DAY	2-1/2 To 2-7/8 CY Hy	draulic I	Excavator With Fu	III-Time (Decator		
User Note: Load and unload barrier from lowbed trailer + 4HRS for Rip Rap Placement S6,201.21					Quantity					-	\$6201.2
11					2.50		\$1,824.02	x	1 2500 =		
State Company Compan			User Note:	load and ur	nload barrier from lowb	ed traile	er + 4HRS for Rip I	Rap Plac	ement		
Installation 20.00 x \$26.12 x 1.3599 = \$710.41	11	01 55 26 00-0052		МО	Type B Flasher (High	Intensit	у)				2710.1
User Note: 2 per barriers, 20*4= \$710.41				Installation			Unit Price		Factor	Total	\$710.4
Section Sect			User Note:			X	\$26.12	x	1.3599 =		
1.2.5 to 20 Concrete Framic Barrier \$21	12	01 55 26 00-0065		MO	N12 51 To 201 O						
Installation						Traffic					\$2175.70
User Note: 10 pieces (20ft) *4 week EA Place And Remove >12.5' Concrete Traffic BarrierIf lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks. Quantity				Installation						Total	
Place And Remove >12.5' Concrete Traffic BarrierIf lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks. Quantity			User Note:	10 pieces (2		^	\$159,99	X	1.3599 =	\$2,175.70	
O0-0000 for mobilization tasks. O0-0000 for mobilization tasks O1 71 13 O0-0000 for mobilization tasks O1 71 13 O1 70 1 13	3	01 55 26 00-0107		EA	Place And Remove >1;	2.5' Con	crete Traffic Barrie	erlf lifting	Aquipment is not		
User Note: 10 Barriers EA Roadside Relocation Of Concrete Traffic BarrierExcludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization. Quantity Unit Price Factor Total Installation 150.00 x \$44.47 x 1 3599 = \$9.071.21					available of Site, See (SI sect	ion 01 22 23 00-0	000 for re	entals tasks, 01 71 13		\$1813.97
User Note: 10 Barriers 10.00 x				Installation	•		Unit Price		Factor	Total	
PAROAdside Relocation Of Concrete Traffic BarrierExcludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization. Quantity Unit Price Factor Total Installation 150.00 x \$44.47 x 1 3599 = \$9.071.21					10.00	X	\$133.39	x	1.3599 =		
Roadside Relocation Of Concrete Traffic BarrierExcludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization. Quantity Unit Price Factor Total Installation 150.00 x \$44.47 x 1 3599 = \$9.071 21			User Note:	10 Barriers							
Quantity Unit Price Factor Total Installation 150.00 x \$44.47 x 1 359 = \$9.071.21		01 55 26 00-0120		v	dorbinetit is tiot availat	e on si	te. See CSI section	xcludes on 01 22	Platbed truck . If lifting 23 00-0000 for rental	\$	9071.21
150.00 x \$44.47 x 1.3599 = \$9.071.21									Factor	Tatal	
Indian William William					150.00	x		×			
User Note: 10 EA*15									1.0055	4-10-11-21	





Work Order #:

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Title

Harrison Park Lane Retaining Wall

CSI Number

Mod.

Cle	DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 ASSESSMENT OF THE PERSON			The same of the sa							
15	01 74 19 00-003	1	CY	Trees, Stumps An	d Brush Lar	odfill Dump For		The state of the s			
				Quantit		Unit Price					\$10892.
			Installation	77.7	-	\$103.09		Factor		Tota	
		User Not	e: Excavation	for retaining wall, 1	570	\$103.09	×	1.3599	-	\$10,892.93	3
				Totaling Wall, 1	73 X 3 X 2						
16	01 74 19 00-0036		СҮМ	Hauling On Paved	Roads, Mile	s Over Initial 1!	5 Miles				
				Quantity		Unit Price	- 1111100	Factor			\$426.0
			Installation	489.51		\$0.64	×	1.3599	=	Tota \$426.04	
		User Note	e: Moriority=2	1.3-15=6.3 Miles*77	.7=489.51			1.5555		¥420.04	
17	31 13 13 00-0004		EA	>425 T- 045 D D							
			LA	>12" To 24" D.B.H. up tree, chipping ar	(Diameter A	t Breast Height) Tree Re	emovalincludes	cutting		\$2900.9
				Quantity	id loading.	Unit Price		Foots			
			Installation	2.00		\$1,066.59	x	Factor	_	Total	
		User Note	: Clear Area fo	or new Wall		\$1,000.03	^	1.3599		\$2,900.91	
18	31 13 13 00-0010		EA :	>6" To 12" Diameter	Stump Ren	novalincludes e	veavation	1 D0000000110			
				stamp and loading.		- ramiolados c	ACGVATION	r necessary to re	move		\$1838.80
				O		Unit Price					
			Inetallation	Quantity		Office Price		Factor		Total	
ubto	tal for Clearing/G		Installation Clearing Area	8.00	x	\$169.02	x	1.3599 ⁼	:	Total \$1,838.80	
_	tal for Clearing/G			8.00	х		X			\$1,838.80	16058.68
			Clearing Area	8.00 a for New Wall		\$169.02		1.3599 =		\$1,838.80	16058.68
xca	/ation		Clearing Area	8.00 a for New Wall		\$169.02		1.3599 ⁼		\$1,838.80 \$	16058.68 28320.18
xca	/ation		Clearing Area	8.00 a for New Wall tixed Asphalt, Conci	rete, Gravel	\$169.02 And Subgrade Unit Price	Material,	1.3599 =		\$1,838.80 \$ Total	
xca	/ation	rubbing:	CY M	8.00 a for New Wall dixed Asphalt, Conci Quantity 303.00	rete, Gravel /	\$169.02 And Subgrade Unit Price \$68.73	Material,	1.3599 =		\$1,838.80 \$	
xca	/ation	rubbing:	CY M	8.00 a for New Wall tixed Asphalt, Conci	rete, Gravel /	\$169.02 And Subgrade Unit Price \$68.73	Material,	1.3599 =		\$1,838.80 \$ Total	
xca	/ation	rubbing:	CY M Installation Excavation for	8.00 a for New Wall dixed Asphalt, Concr Quantity 303.00 retaining wall/Drain	rete, Gravel / x nage stone/S	\$169.02 And Subgrade Unit Price \$68.73	Material,	1.3599 =		\$1,838.80 \$ \$ Total \$28,320.18	28320.18
9	o1 74 19 00-0032	rubbing: User Note:	CY M Installation Excavation for	8.00 a for New Wall dixed Asphalt, Conci Quantity 303.00	rete, Gravel / x nage stone/S	\$169.02 And Subgrade Unit Price \$68.73	Material,	1.3599 = Landfill Dump Fe Factor 1.3599 = one Wall=65)		\$1,838.80 \$ \$ Total \$28,320.18	
9	01 74 19 00-0032 01 74 19 00-0035	rubbing: User Note:	CY M Installation Excavation for CYM Ha	8.00 a for New Wall tixed Asphalt, Conce Quantity 303.00 retaining wall/Drain auling On Paved Ro Quantity 4,180.00	rete, Gravel / x nage stone/S	\$169.02 And Subgrade Unit Price \$68.73 Structural Fill (Fi	Material, x iiil=238 St	Landfill Dump Fe Factor 1.3599 = one Wall=65)		\$1,838.80 \$ Total \$28,320.18	28320.18
9	01 74 19 00-0032 01 74 19 00-0035	rubbing: User Note:	CY M Installation Excavation for CYM Ha	8.00 a for New Wall dixed Asphalt, Conce Quantity 303.00 retaining wall/Drain auling On Paved Ro	rete, Gravel x x nage stone/S	\$169.02 And Subgrade Unit Price \$68.73 Structural Fill (Fi	Material,	1.3599 = Landfill Dump Fe Factor 1.3599 = one Wall=65)		\$1,838.80 \$ \$ Total \$28,320.18	28320.18
9	01 74 19 00-0032	rubbing: User Note:	CY M Installation Excavation for CYM Ha	8.00 a for New Wall tixed Asphalt, Conce Quantity 303.00 retaining wall/Drain auling On Paved Ro Quantity 4,180.00	rete, Gravel x x nage stone/S	\$169.02 And Subgrade Unit Price \$68.73 Structural Fill (Fi	Material, x iiil=238 St	Landfill Dump Fe Factor 1.3599 = one Wall=65)		\$1,838.80 \$ Total \$28,320.18	28320.18
9 o	01 74 19 00-0032 01 74 19 00-0035	rubbing: User Note:	CY M Installation Excavation for CYM Ha	8.00 a for New Wall tixed Asphalt, Conce Quantity 303.00 retaining wall/Drain auling On Paved Ro Quantity 4,180.00	rete, Gravel x x nage stone/S	\$169.02 And Subgrade Unit Price \$68.73 Structural Fill (Fi	Material, x iiil=238 St	Landfill Dump Fe Factor 1.3599 = one Wall=65)		\$1,838.80 \$ Total \$28,320.18 Total \$5,457.01	28320.18
9 o	01 74 19 00-0032 01 74 19 00-0035 01 76 19 00-0035 al for Excavation:	rubbing: User Note:	CY M Installation Excavation for CYM Ha Installation Thalle 11 miles	8.00 a for New Wall dixed Asphalt, Conci Quantity 303.00 retaining wall/Drain auling On Paved Ro Quantity 4,180.00 s*380 CY=4180	x hage stone/S hads, First 15	\$169.02 And Subgrade Unit Price \$68.73 Structural Fill (File 5 Miles Unit Price \$0.96	Material, x iill=238 St	1.3599 = Landfill Dump Fe Factor 1.3599 = one Wall=65) Factor 1.3599 =		\$1,838.80 \$ Total \$28,320.18 Total \$5,457.01	28320.18 \$5457.01
Excange 9	01 74 19 00-0032 01 74 19 00-0035	rubbing: User Note:	CY M Installation Excavation for CYM Ha Installation Thalle 11 miles	8.00 a for New Wall dixed Asphalt, Concr Quantity 303.00 retaining wall/Drain auling On Paved Ro Quantity 4,180.00 * 380 CY= 4180	x hage stone/S hads, First 15	\$169.02 And Subgrade Unit Price \$68.73 Structural Fill (Fill Miles Unit Price \$0.96	Material, x iill=238 St	1.3599 = Landfill Dump Fe Factor 1.3599 = one Wall=65) Factor 1.3599 =		\$1,838.80 \$ Total \$28,320.18 Total \$5,457.01	28320.18 \$5457.01
Excange 9	01 74 19 00-0032 01 74 19 00-0035 01 76 19 00-0035 al for Excavation:	rubbing: User Note:	CY M Installation Excavation for CYM Ha Installation Thalle 11 miles	8.00 a for New Wall tixed Asphalt, Concr Quantity 303.00 retaining wall/Drain auling On Paved Ro Quantity 4,180.00 * 380 CY= 4180	x hage stone/S ads, First 15 x	\$169.02 And Subgrade Unit Price \$68.73 Structural Fill (Fill Miles Unit Price \$0.96	Material, x x iill=238 St	1.3599 = Landfill Dump Fe Factor 1.3599 = one Wall=65) Factor 1.3599 =		\$1,838.80 \$ Total \$28,320.18 Total \$5,457.01	28320.18 \$5457.01
Excange 9	01 74 19 00-0032 01 74 19 00-0035 01 74 19 00-0035 al for Excavation: ation/Demo 02 41 13 13-0020	rubbing: User Note:	CY M Installation Excavation for CYM Ha Installation Thalle 11 miles	8.00 a for New Wall dixed Asphalt, Concr Quantity 303.00 retaining wall/Drain auling On Paved Ro Quantity 4,180.00 * 380 CY= 4180	rete, Gravel, x nage stone/S nads, First 15 x Break-up Ar	\$169.02 And Subgrade Unit Price \$68.73 Structural Fill (Fill Miles Unit Price \$0.96	Material, x iill=238 St	1.3599 = Landfill Dump For Factor 1.3599 = one Wall=65) Factor 1.3599 =		\$1,838.80 \$ Total \$28,320.18 \$5,457.01 \$3:	28320.18 \$5457.01





Work Order #:

110648.00

Title

Harrison Park Lane Retaining Wall

CSI Number

Mod.

UOM Description

Line Total

	avation/Demo				and the same of the same							
22	02 41 16 13-0058		CF	Stone Foo	ting Or Fo	undation	Wall Demolition					\$30628.
			Installation		Quantity		Unit Price		Factor		Tota	
			Installation		1,706.25	x	\$13.20	x	1.3599	=	\$30,628.35	
		User Note	: Wall demo	/removal								
23	02 41 19 13-0015		EA	less than t	he minimu	m charg	e, use this task e	xclusively	saw cutting charge	e is d not		\$1114.4
				be used in		on with a	ny other tasks in	this section				
			Installation		Quantity		Unit Price		Factor		Total	
					1.00	X	\$819.48	×	1,3599	-	\$1,114.41	
		User Note:	Saw Cut P	avement								
24	31 23 16 13-0003		CY	Over 12" V	/ide, Exca	vation fo	Trenching by M	achine in	Soil			\$1903.10
					Quantity		Unit Price		Factor		Total	
			Installation		238.00	x	\$5.88	X	1.3599	•	\$1,903.10	
		User Note:	behind exis	sting stone w	all							
25	31 23 16 13-0003	0045	CY	For >50 To	250, Add							\$475.77
					Quantity		Unit Price		Factor		Total	
			Installation		238.00	x	\$1.47	×	1.3599 =	10	\$475.77	
Subt	otal for Excavation	/Demo:										36693.47
Guar	d Rail	n/Demo:	EA.	Mahilina O	id. D. ii o							
		n/Demo:	EA			rewExcl	udes equipment r	nobilizatio	2000			
Guar	d Rail	n/Demo:			Quantity		Unit Price		Factor		Total	
Guai 26	rd Rail 34 71 13 26-0002	n/Demo:	Installation		Quantity 1.00	×	Unit Price \$1,199.59	nobilizatio x	2000			
Guar	d Rail	n/Demo:		Corrugated	Quantity 1.00 Beam Gui	×	Unit Price \$1,199.59		Factor 1.3599 =		Total \$1,631.32	
Guai 26	rd Rail 34 71 13 26-0002	/Demo:	Installation	Corrugated	Quantity 1.00 Beam Gui Quantity	x ide Railir	Unit Price \$1,199.59 9 Unit Price	х	Factor 1.3599 =		Total \$1,631.32	\$1631.32
Guai 26	rd Rail 34 71 13 26-0002		Installation LF Installation	Corrugated	Quantity 1.00 Beam Gui Quantity 25.00	x ide Railir x	Unit Price \$1,199.59 9 Unit Price \$10.21		Factor 1.3599 =		Total \$1,631.32	\$1631.32 \$347.11
Guai 26	rd Rail 34 71 13 26-0002		Installation	Corrugated	Quantity 1.00 Beam Gui Quantity 25.00	x ide Railir x	Unit Price \$1,199.59 9 Unit Price \$10.21	х	Factor 1.3599 =		Total \$1,631.32	\$1631.32
Guai 26	rd Rail 34 71 13 26-0002		Installation LF Installation New Guard	Corrugated (Rail to repla	Quantity 1.00 Beam Gui Quantity 25.00 ce damag	x ide Railir x ged sectio	Unit Price \$1,199.59 9 Unit Price \$10.21	x	Factor 1.3599 =		Total \$1,631.32	\$1631.32
Guai 26 27	34 71 13 26-0002 34 71 13 26-0006	User Note:	Installation LF Installation New Guard EA	Corrugated (Rail to repla	Quantity 1.00 Beam Gui Quantity 25.00 ce damag	x ide Railin x ged sectio	Unit Price \$1,199.59 9 Unit Price \$10.21 ons	x	Factor 1.3599 = Factor 1.3599 =		Total \$1,631.32 Total \$347.11	\$1631.32 \$347.11
Guai 26 27	34 71 13 26-0002 34 71 13 26-0006 34 71 13 26-0028	User Note:	Installation LF Installation New Guard EA Installation	Corrugated (Rail to repla	Quantity 1.00 Beam Gui Quantity 25.00 ce damag Post for Co Quantity 18.00	x ide Railir x ged section	Unit Price \$1,199.59 9 Unit Price \$10.21 ons I Beam Guide Ra Unit Price \$82.04	x x	Factor 1.3599 = Factor 1.3599 =		Total \$1,631.32 Total \$347.11	\$1631.32 \$347.11
Guai 26 27	34 71 13 26-0002 34 71 13 26-0006	User Note:	Installation LF Installation New Guard EA Installation	Corrugated (Rail to repla Extra Long (Removal An	Quantity 1.00 Beam Gui Quantity 25.00 ce damag Post for Co Quantity 18.00 d Storage	x ide Railir x ged section	Unit Price \$1,199.59 9 Unit Price \$10.21 ons	x x	Factor 1.3599 = Factor 1.3599 =		Total \$1,631.32 Total \$347.11	\$1631.32 \$347.11
Guai 26 27	34 71 13 26-0002 34 71 13 26-0006 34 71 13 26-0028	User Note:	Installation LF Installation New Guard EA Installation LF	Corrugated (Rail to repla Extra Long (Removal An	Quantity 1.00 Beam Gui Quantity 25.00 ce damag Post for Co Quantity 18.00 d Storage	x ide Railir x ged section orrugated x Of Corru	Unit Price \$1,199.59 g Unit Price \$10.21 ons d Beam Guide Ra Unit Price \$82.04 gated Beam Gui Unit Price	x x	Factor 1.3599 = Factor 1.3599 = Factor 1.3599 = g And Post Factor		Total \$1,631.32 Total \$347.11 Total \$2,008.19	\$1631.32 \$347.11 \$2008.19
Guai 26 27	34 71 13 26-0002 34 71 13 26-0006 34 71 13 26-0028	User Note:	Installation LF Installation New Guard EA Installation LF Installation	Corrugated Rail to repla Extra Long (Removal Ar	Quantity 1.00 Beam Gui Quantity 25.00 ce damag Post for Co Quantity 18.00 d Storage	x ide Railir x ged section	Unit Price \$1,199.59 g Unit Price \$10.21 ons l Beam Guide Ra Unit Price \$82.04 gated Beam Gui	x x	Factor 1.3599 = Factor 1.3599 = Factor 1.3599 =		Total \$1,631.32 Total \$347.11 Total \$2,008.19	\$1631.32 \$347.11 \$2008.19
Guai 26 27	34 71 13 26-0002 34 71 13 26-0006 34 71 13 26-0028	User Note:	Installation LF Installation New Guard EA Installation LF Installation	Corrugated Rail to repla Extra Long (Removal Ar	Quantity 1.00 Beam Gui Quantity 25.00 ce damag Post for Co Quantity 18.00 d Storage	x ide Railir x ged section orrugated x Of Corru	Unit Price \$1,199.59 g Unit Price \$10.21 ons d Beam Guide Ra Unit Price \$82.04 gated Beam Gui Unit Price	x x iil x de Railing	Factor 1.3599 = Factor 1.3599 = Factor 1.3599 = g And Post Factor		Total \$1,631.32 Total \$347.11 Total \$2,008.19	\$1631.32 \$347.11 \$2008.19
Guai 26 27	34 71 13 26-0002 34 71 13 26-0006 34 71 13 26-0028	User Note:	Installation LF Installation New Guard EA Installation LF Installation Reset Guard	Corrugated Rail to repla Extra Long (Removal An	Quantity 1.00 Beam Gui Quantity 25.00 ce damag Post for Co Quantity 18.00 d Storage Quantity 185.00	x ide Railin x ged section corrugated x Of Corru	Unit Price \$1,199.59 g Unit Price \$10.21 ons d Beam Guide Ra Unit Price \$82.04 gated Beam Gui Unit Price	x x iil x de Railing	Factor 1.3599 = Factor 1.3599 = Factor 1.3599 = g And Post Factor		Total \$1,631.32 Total \$347.11 Total \$2,008.19 Total \$3,159.86	\$1631.32 \$347.11 \$2008.19 \$3159.86
Guar 226	34 71 13 26-0002 34 71 13 26-0006 34 71 13 26-0028 34 71 13 26-0048	User Note:	Installation LF Installation New Guard EA Installation LF Installation Reset Guard	Corrugated Rail to repla Extra Long Removal An	Quantity 1.00 Beam Gui Quantity 25.00 ce damag Post for Co Quantity 18.00 d Storage Quantity 185.00	x ide Railin x ged section corrugated x Of Corru	Unit Price \$1,199.59 g Unit Price \$10.21 ons d Beam Guide Ra Unit Price \$82.04 gated Beam Gui Unit Price \$12.56	x x iil x de Railing	Factor 1.3599 = Factor 1.3599 = Factor 1.3599 = g And Post Factor		Total \$1,631.32 Total \$347.11 Total \$2,008.19 Total \$3,159.86	\$1631.32 \$347.11 \$2008.19
Guar 226	34 71 13 26-0002 34 71 13 26-0006 34 71 13 26-0028 34 71 13 26-0048	User Note:	Installation LF Installation New Guard EA Installation LF Installation Reset Guard	Corrugated Rail to repla Extra Long (Removal An	Quantity 1.00 Beam Gui Quantity 25.00 ce damag Post for Co Quantity 18.00 d Storage Quantity 185.00	x ide Railin x ged section corrugated x Of Corru	Unit Price \$1,199.59 g Unit Price \$10.21 ons d Beam Guide Ra Unit Price \$82.04 gated Beam Gui Unit Price \$12.56	x x iil x de Railing	Factor 1.3599 = Factor 1.3599 = Factor 1.3599 = g And Post Factor 1.3599 =		Total \$1,631.32 Total \$347.11 Total \$2,008.19 Total \$3,159.86	\$1631.32 \$347.11 \$2008.19 \$3159.86





Work Order #:

110648.00

				1 Description						Line 1
	otal for Guard Ra	ail:								\$8980
Guard	drail Posts									+0000
31	03 05 13 00-0010		CY	Admixture	and Acce	elerating (High Ea	rly Stren	gth), Type E Concrete		\$69
			Installation	Quantity		Unit Price		Factor	Total	1
		Hans No.		5.90	x	\$8.70	×	1.3599 =	\$69.80	
		User Not	e: Guard Rai	il Post Footing						
32	03 05 13 00-0017		CY	Winter Service Or He	at Concr	rete Add				
				Quantity		Unit Price		Ft-		\$32.
			Installation	5.90	x	\$4.06	x	Factor	Total	
33	03 11 13 00-0073		LF	18" Diameter Round			^	1.3599 =	\$32.58	
				Quantity	TOCI TUD	Unit Price				\$584.
			Installation		×	\$28.66	v	Factor	Total	
		User Note	: 15 Guardra			\$20.00	X	1.3599 =	\$584.62	
lobiliz	al for Guardrail F zation 01 71 13 00-0002	Posts:	EA	Equipment Delivery, P	ickup, Mo	obilization And De	mobilizat	ion Using A Rollback		
ubtota flobiliz	zation	Posts:		off loading on site, rigg away. For equipment s	ing, dismi	tie-down of equipr antling, loading fo enchers, skid-stee	ment, del or return a	livery of equipment, and transporting		
lobiliz	zation	Posts:		off loading on site, rigg away. For equipment s industrial warehouse for	ing, disma uch as tre orklifts, sw	tie-down of equipment of the control	ment, del or return a er loaders	ivery of equipment, and transporting s (bobcats),		
lobiliz	zation	Posts:		off loading on site, rigg away. For equipment s	ing, disma uch as tre orklifts, sw	tie-down of equipment of the control	ment, del or return a er loaders	ivery of equipment, and transporting s (bobcats), fts, telescoping and c.		
lobiliz	zation		Installation	off loading on site, rigg away. For equipment s industrial warehouse for articulating boom man Quantity 2.00	ing, disma uch as tre orklifts, sw	antling, loading for enchers, skid-stee veepers, scissor p up to 40' boom ler Unit Price	ment, del or return a er loaders	ivery of equipment, and transporting s (bobcats), fts, telescoping and the factor	Total \$740.19	\$687.0
lobiliz	zation		Installation	off loading on site, rigg away. For equipment s industrial warehouse for articulating boom man Quantity	ing, dismi uch as tre orklifts, sw lifts with u	antling, loading for enchers, skid-stee veepers, scissor p up to 40' boom ler Unit Price	ment, del or return a er loaders latform li ngths, etc	ivery of equipment, and transporting s (bobcats), fts, telescoping and c.	Total \$740.19	
Mobiliz 4	zation		Installation Asphalt Rolle	off loading on site, rigg away. For equipment s industrial warehouse for articulating boom man Quantity 2.00 er/Trench Roller	ing, dismander distribution as tree orklifts, swith L	tle-down of equipri antling, loading for enchers, skid-stee veepers, scissor p up to 40' boom ler Unit Price \$272.15	ment, del or return a er loaders elatform li ngths, etc	ivery of equipment, and transporting s (bobcats), fts, telescoping and Factor 1.3599		
Mobiliz 4	01 71 13 00-0002		Installation Asphalt Rolle EA E	off loading on site, rigg away. For equipment s industrial warehouse for articulating boom man Quantity 2.00 er/Trench Roller Equipment Delivery, Pic frailer With Up To 53' B	ing, dismi uch as tre orklifts, sw lifts with u	tle-down of equipriantling, loading for enchers, skid-stee veepers, scissor pup to 40' boom ler Unit Price \$272.15	ment, del or return a er loaders platform li ngths, etc x	ivery of equipment, and transporting s (bobcats), fts, telescoping and transporting s (bobcats) and transport s (bobcats)	\$740.19	\$740.1
Mobiliz 4	01 71 13 00-0002		Installation Asphalt Rolle EA E	off loading on site, riggs off loading on site, riggs away. For equipment s industrial warehouse for articulating boom man Quantity 2.00 er/Trench Roller Equipment Delivery, Pic frailer With Up To 53' B equipment, off loading of	ing, dismi uch as tre orklifts, sw lifts with u x	te-down of equipriantling, loading for enchers, skid-stee veepers, scissor pup to 40' boom ler Unit Price \$272.15	ment, del or return a er loaders latform li ngths, etc x	ivery of equipment, and transporting s (bobcats), fts, telescoping and . Factor 1.3599 =	\$740.19	\$740.1
Mobiliz 4	01 71 13 00-0002		Installation Asphalt Rolle EA E	off loading on site, rigg away. For equipment sindustrial warehouse for articulating boom man Quantity 2.00 er/Trench Roller Equipment Delivery, Pictification of the property of the propert	ing, dism. uch as tre uch as tre uch as tre uch ifts, sw lifts with u x ckup, Mob edInclude on site, rig equipment	tle-down of equipriantling, loading for enchers, skid-stee veepers, scissor pup to 40' boom ler Unit Price \$272.15 bilization And Demes loading, tie-down gigning, dismantling	ment, del or return a er loaders latform li ngths, etc x	ivery of equipment, and transporting s (bobcats), fts, telescoping and c. Factor 1.3599 =	\$740.19	\$740.1
Mobiliz 4	01 71 13 00-0002		Installation Asphalt Rolle EA T et th	off loading on site, rigg away. For equipment s industrial warehouse for articulating boom man Quantity 2.00 er/Trench Roller Equipment Delivery, Pictrailer With Up To 53's Bequipment, off loading to transporting away. For experience excavators, gronstruction loaders, tra	ing, dism. ing, swith u x ckup, Mob cedinclude on site, rig equipment adalls, ro; ctors, pa	tle-down of equipriantling, loading for enchers, skid-stee veepers, scissor pup to 40' boom ler Unit Price \$272.15 billization And Demes loading, tie-down digning, dismantling to such as bulldoze ad graders, loade vers, rollers, bride	ment, del or return a er loaders elatform li ogths, etc x	ivery of equipment, and transporting s (bobcats), fts, telescoping and c. Factor 1.3599 = on Using A Tractor lipment, delivery of for return and or scrapers, less, heavy duty	\$740.19	\$740.1
Mobiliz 4	01 71 13 00-0002		Installation Asphalt Rolle EA E tr	off loading on site, rigg away. For equipment s industrial warehouse for articulating boom man Quantity 2.00 er/Trench Roller Equipment Delivery, Pic Trailer With Up To 53' B equipment, off loading to ransporting away. For expydraulic excavators, gronstruction loaders, trainstruction forklifts, teleonstruction forklifts, teleons away.	ing, dism.	antling, loading for enchers, skid-stee veepers, scissor pup to 40' boom ler Unit Price \$272.15 billization And Demes loading, tie-downging, dismantling t such as bulldoze ad graders, loade vers, rollers, bridg boom rough terrai	ment, del or return a er loaders latform li ogths, etc x mobilization vn of equ , loading ers, moto r-backho e finishe	ivery of equipment, and transporting s (bobcats), fts, telescoping and c. Factor 1.3599 = on Using A Tractor lipment, delivery of for return and or scrapers, les, heavy duty rs, straight mast successors.	\$740.19	\$740.1
Mobiliz 4	01 71 13 00-0002		Installation Asphalt Rolle EA E tr	off loading on site, rigg away. For equipment sindustrial warehouse for articulating boom man Quantity 2.00 er/Trench Roller Equipment Delivery, Pictorial Frailer With Up To 53's equipment, off loading or ansporting away. For experience of the production of the production of the production of the production forklifts, teles elescoping and articulations in the production of the productio	ing, dism.	te-down of equipriantling, loading for enchers, skid-stee veepers, scissor pup to 40' boom ler Unit Price \$272.15 billization And Demes loading, tie-down at such as bulldoze ad graders, loade vers, rollers, bridg boom rough ternal man lifts with >4	ment, del or return a er loaders latform li ogths, etc x mobilization vn of equ , loading ers, moto r-backho e in constr	ivery of equipment, and transporting s (bobcats), fts, telescoping and c. Factor 1.3599 = on Using A Tractor lipment, delivery of for return and or scrapers, les, heavy duty rs, straight mast successors.	\$740.19	
Mobiliz 4	01 71 13 00-0002	User Note:	Installation Asphalt Rolle EA E tr	off loading on site, rigg away. For equipment sindustrial warehouse for articulating boom man Quantity 2.00 er/Trench Roller Equipment Delivery, Pictorialler With Up To 53' Beguipment, off loading of an apporting away. For experiment, off loading of the properties of the propertie	ing, dism. ing, swith L x ckup, Mot edinclude on site, rig equipmen adalls, ro ctors, pay escoping l ing boom	te-down of equipriantling, loading for enchers, skid-stee veepers, scissor pup to 40' boom ler Unit Price \$272.15 bilization And Deme so loading, tie-down as bulldoze ad graders, loade vers, rollers, bridg boom rough terrain man lifts with >41 Unit Price	ment, del or return a er loaders latform li ogths, etc x mobilization vn of equ, loading ers, moto r-backho e finishe in constri	ivery of equipment, and transporting s (bobcats), ffts, telescoping and c. Factor 1.3599 = on Using A Tractor aipment, delivery of for return and ar scrapers, sees, heavy duty rs, straight mast suction forklifts, engths, etc. Factor	\$740.19 \$	\$740.1
Mobiliz 4	01 71 13 00-0002 01 71 13 00-0003	User Note:	Installation Asphalt Rolle EA E tr h c c te	off loading on site, rigg away. For equipment s industrial warehouse for articulating boom man Quantity 2.00 er/Trench Roller Equipment Delivery, Pic Trailer With Up To 53's Be equipment, off loading or ansporting away. For earnsporting away. For earnsporting in excavators, gronstruction loaders, trainstruction forklifts, telescoping and articulated Quantity 2.00	ing, dism.	te-down of equipriantling, loading for enchers, skid-stee veepers, scissor pup to 40' boom ler Unit Price \$272.15 billization And Demes loading, tie-down at such as bulldoze ad graders, loade vers, rollers, bridg boom rough ternal man lifts with >4	ment, del or return a er loaders latform li ogths, etc x mobilization vn of equ, loading ers, moto r-backho e finishe in constri	ivery of equipment, and transporting s (bobcats), fts, telescoping and c. Factor 1.3599 = On Using A Tractor aipment, delivery of for return and or scrapers, es, heavy duty rs, straight mast auction forklifts, lengths, etc.	\$740.19 \$	\$740.1





Work Order #:

110648.00

Title

Harrison Park Lane Retaining Wall

CSI Number

Mod.

MPT										Line To
36	01 22 20 00-0059)	HR	Flagperson For Tra						
				Quantity						\$26632.
			Installation	272.00		Unit Price		Factor	Total	
		Hear Note	2 Flances			\$72.00	X	1.3599 =	\$26,632.28	
		User Note	e: 2 Flaggers	for Wall Removal/Ins	stallation	17 Days*8 HRS*	2			
37	01 55 26 00-0022		MO	28" Cone With Refl	ective C	ollar				
				Quantity		Unit Price				\$118.0
			Installation	20.00				Factor	Total	
		User Note	: 20 for 1 mor		^	\$4.34	×	1.3599 =	\$118.04	
			. 20 101 1 11101							
38	01 55 26 00-0028		MO	Channelizer Drum						
				Quantity		Unit Price		Faut		\$290.4
			Installation	15.00	×	\$14.24	x	Factor	Total	
		User Note:	15 for 1 mon	th		₩14.24	^	1.3599 =	\$290.47	
19	01 55 26 00-0079									
	01 33 20 00-0079		MO I	Mesh Or Vinyl Roll-u	p Sign W					\$456.06
			Installation	Quantity		Unit Price		Factor	Total	¥ 100.00
		Unas Nata		8.00	×	\$41.92	X	1.3599 =	\$456.06	
		User Note:	8 for 1 month							
0	01 55 26 00-0113		EA P	lace And Remove >	250 Con	os Pu Hand F				
				Quantity	200 0011	Unit Price	Roadsid			\$813.76
			Installation	340.00	X	\$1.76		Factor	Total	
		User Note:	20 for 17 Days		^	\$1.76	×	1.3599 =	\$813.76	
	01 55 26 00-0114		EA P	ace And Remove U	p To 250	Panels/Channeliz	ers By H	and From Roadside		1010 50
				Quantity		Unit Price		Factor	Total	1012.58
			Installation	255.00	x	\$2.92	×	1.3599 =	\$1,012.58	
		User Note:	15 for 17 days					1.0335	41,512.50	
	01 55 26 00-0118		EA PI	and And Danie						
			LA PR	ace And Remove Po Quantity	rtable Si		m Roads			\$283.95
			Installation	80.00	x	Unit Price		Factor	Total	
		User Note: 4	4 Install for dur	ation of work - 4 Inst		\$2.61	×	1.3599 =	\$283.95	
			· motali for don	adon of work - 4 inst	all remov	ve daily (4*19=76	+ 4=80)			
otota	l for MPT:									
e								*	\$29	607.14
Charles and the	33 41 16 00-0003		LF 6" F	2-4-1-1			no management of the			
		_	rr 6"}	Perforated Polyvinyl	Chloride		Piping		\$2	244.11
		Ir	nstallation	Quantity		Unit Price		Factor	Total	
				185.00	x	\$8.92	×	1.3599 =	\$2,244.11	
		Set NOTE: D	rainage behind	wall not included in	wall iter	n				





	W	ork	Ord	er i	¥
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110648.00

Title

Harrison Park Lane Retaining Wall

CSI Numbe

Subtotal for Pipe:

Mod.

UOM Description

Line Total

	otal for Pipe; ining Wall									\$2244.11
44	31 32 19 16-0009		SY 1	10 Oz/SY, 115 Mil, 256 Fabric (Carthage Mills	D LB Gr FX-100	ab Tensile Nonwo	ven Poly	propylene Geotextile		\$1107.64
			Installation	Quantity 450.00	x	Unit Price \$1.81	x	Factor 1.3599 =	Total \$1,107.64	
		User Note:	Fabric for leve	eling pad, wall, backfil	l and ri	o rap		1.5555		
45	31 32 19 16-0009	0071	SY F	or >250 To 500, Add						\$61.20

45	31 32 19 16-0009	0071	SY	For >250 To 500, Add					\$61.20
				Quantity		Unit Price		Factor	Total
			Installation	450.00	×	\$0.10	х	1.3599 =	\$61.20
46	32 32 23 13-0014		SF	4 To 8' Height "Keysto	пе" Турс	Modular Retain	ing Wall S	ystem	\$126039.52
				Quantity		Unit Price		Factor	Total
			Installation	1,422.39	x	\$65.16	x	1.3599 =	\$126,039.52
		Hear Note:	Used for D	adiDaak Mall					

User Note: Used for RediRock Wall

Subtotal for Retaining Wall:	\$127208.36
Rip Rap Apron	

47	31 37 00 00-0003	TON >50	To 100 LB Average	ge Piece:	s Random, Dump	ed From	Truck, Rip Rap	\$2011.24
			Quantity		Unit Price		Factor	Total
		Installation	38.00	x	\$38.92	x	1.3599 =	\$2,011.24

Subtotal for Rip Rap Apron:

\$2011.24

48	32 17 23 13-0003		LF	Single 4" Wide Soli	d Line, Pai	nted Reflective P	avement	Striping	\$60
				Quantity		Unit Price		Factor	Total
			Installation	185.00	X	\$0.24	x 1.3599	1.3599 =	\$60.38
49	32 17 23 13-0003	0052	LF	For Up To 5,000 LF	Add				\$12
				Quantity		Unit Price		Factor	Total
			Installation	185.00	×	\$0.05	×	1.3599 =	\$12.58

Subtotal for Striping:

\$72.96

\$6266.70

Total

\$6,266.70

Wall	Backfill
	MANAGE TO SHARE

50	31 05 16 00-0032

TON	Type 4 Subbase Cour	se (304.	14M)		
trace and accountry of	Quantity		Unit Price		Factor
Installation	225.12	×	\$20.47	×	1 3599 =

1.3599 =

User Note: Retained Wall backfill

Subtotal for Wall Backfill:

\$6266.70

Wall Prep





Work Order #:

110648.00

Title

Harrison Park Lane Retaining Wall

CSI Number

Mod.

UOM Description

Line Total

\$311260.13

					-, ,	TON Crushed Stone (Size 3) (703-0201FM)						
				Quantity		Unit Price		Factor	Total	\$782.7		
			Installation	25.20	x	\$22.84	x	1.3599 =	\$782.71			
52 31	05 16 00-0012	0089		rg Pad (87.36 Tons E For >14 To 35, Add								
		0005		Quantity		Unit Price		Factor	Takal	\$78.13		
			Installation	25.20	x	\$2.28	x	1.3599	Total \$78.13			

This work order proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

The Percent of NPP on this Proposal:

0.00%

HARRISON ENGINEERING DEPARTMENT

Town/Village of Harrison Alfred F. Sulla, Jr. Municipal Building 1 Heineman Place Harrison, New York 10528

Michael J. Amodeo, P.E., CFM Town/Village Engineer



January 17, 2022

Supervisor Richard Dionisio and Members of the Town Board Town of Harrison 1 Heineman Place Harrison, New York 10528

Re: Park Lane Wall Project

Dear Supervisor Dionisio and Members of the Town Board:

Town Board authorization is requested to hire ELQ Industries, Inc. for replacement of a failing retaining wall along the Park Lane right-of-way, at a cost not to exceed \$345,000.00.

The wall which supports the west side of the roadway runs for approximately 175 feet and is located between Stonewall Circle and Burns Road.

ELQ Industries, Inc. was awarded the Job Order Contracting (JOC) Services Contract for Region 1, for Paving and Excavating under the Gordian ezIQC – City of White Plains contract #903198.

The scope of services is detailed in the attached proposal.

Funding for this project is available in the Highway Special Services account #003-5110-100-0407.

Further, authorization is requested for the Purchasing Department to issue a Purchase Order payable to ELQ Industries at an amount of \$345,000.00.

Respectfully submitted

Michael J. Amodeo, PE, CFM Town/Village Engineer

MJA/mep

Attachments

G:\Capital Projects\Park Lane Wall\TB Letter to Hire ELQ and Issue PO for Park Lane Wall.docx





Contractor's Price Proposal Summary- Category

Work Order #:

110648.00

Title

Harrison Park Lane Retaining Wall

Contractor:

903198 - ELQ Industries

Proposal Value:

\$311,260.14

Proposal Name:

Harrison Park Lane Retaining Wall

To: Michael Amodeo

Town Engineer Town of Harrison 1 Heineman Place Harrison, NY 10528 From:

Tony Silva

Chief Estimator ELQ Industries 567 5th Ave

New Rochelle, NY 10801

Asphalt Restoration:	10001
Backfill/Grading:	\$ 14807.17
Barriers:	\$ 1460.93
Clearing/Grubbing:	\$ 27712.78
Excavation:	\$ 16058.68
Excavation/Demo:	\$ 33777.19
Guard Rail:	\$ 36693.47
Guardrail Posts:	\$ 8980.51
Mobilization:	\$ 687.00
MPT:	\$ 2811.05
	\$ 29607.14
Pipe:	\$ 2244.11
Retaining Wall:	\$ 127208.36
Rip Rap Apron:	\$ 2011.24
Striping:	\$ 72.96
Nall Backfill:	
Nall Prep:	\$ 6266.70
Vork Order Proposal Total	\$ 860.84
	\$311260.13
his work order proposal total	

This work order proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.





Contractor's Price Proposal Detail- Category

Work Order #:

110648.00

Title

Harrison Park Lane Retaining Wall

Contractor:

903198 - ELQ Industries

Proposal Value:

\$311,260.14

Proposal Name:

Harrison Park Lane Retaining Wall

CSI Number

Mod.

UOM Description

Line Total

Asphalt Restoration

32 12 16 13-0026

Hand Placed Hot Mixed Asphalt 3,954 LB/CYFor small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.

\$14807.17

\$14,807.17

Installation

Quantity 40.50

Unit Price \$268.85

Factor 1.3599 =

Factor

1.3599 =

Total

User Note: Restoration area behind wall to road edge1080 SF (Binder at 4" top at 2")

Subtotal	for	Asphalt	Restoration:
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\$14807.17

Bac	kfill/Grading									\$14807.1
2	31 23 16 13-0010		CY	Backfilling or Placing Materials by Machine	Subbas	e for Trenches wi	th Import	ted or Stockpiled		\$205.3
			Installation	45.20	x	Unit Price \$3.34	x	Factor 1.3599 =	Total \$205.30	
		User Note:	: 25.2 Cy at	Wall Footing, 20 CY un	der asp	halt pavement				
3	31 23 16 13-0010	0049	CY	For >20 To 50, Add						
			Installation	Quantity 45.20	x	Unit Price \$1.67	x	Factor	Total \$102.65	\$102.65
4	31 23 16 13-0013		CY	Compaction of Fill or S	Subbase			1.3399	\$102.65	\$441.34
			Installation	Quantity 45.20	x	Unit Price \$7.18	x	Factor 1.3599 =	Total \$441.34	
5	31 23 16 33-0016		SY	Finish Grading for Bulk	Excava			1.3599	\$441.34	
			Installation	Quantity 314.40	x	Unit Price \$0.57	×	Factor 1.3599 =	Total \$243.70	\$243.71
		User Note:	Front of Wal	II/Behind Wall at Road L	.evel			1.3355	4240.70	
6	31 25 14 16-0003			S75 Single Net Erosion a single standard photo North American Green.	degrad	BlanketStraw ma	atrix with e netting	degradable thread to as manufactured by		\$467.93

Unit Price

\$1.77

Quantity

194.40

Installation

User Note: Front of Wall

Subtotal for Backfill/Grading:

\$1460.93

Total

\$467.93

Barriers





Work Order #:

110648.00

Title

Harrison Park Lane Retaining Wall

CSI Number

Mod

UOM Description

							-			Line To
Bar	riers									
7	01 22 20 00-001	5	HR	LaborerFor tasks not	included	in the Constru	ction Too	k Catalanta and a		
				directed by owner onl	y.	tric constitu	LUUII IAS	k Calaloge and as		\$4494.
			Installati	Quantity		Unit Price		Factor	Tota	1
			Installation	40.00	×	\$82.63		1 3500 =	\$4,494.74	
		User Not	e: 2 laborer	s 2 days to load and unlo	ad barrie	rs5 day for Ri	p Rap P	acement		
8	01 22 20 00-0015	0002	HR	For Foreman, Add						
				Quantity		Unit Price		Factor		\$112.3
			Installatio		x	\$4.13	x	1.3599 =	Total \$112.33	
9	01 22 20 00-0059		HR	Flagperson For Traffic		¥1.10		1.3599	\$112.33	
				Quantity	- CONTROL	Unit Price		Casta		\$3133.2
			Installatio	32.00	x	\$72.00	x	Factor	Total	
		User Note	: 2 Flagger	s for Barrier Install/Remov		4,2.00	^	1.3599	\$3,133.21	
10	01 22 23 00-0312		DAY	2.1/2 To 2.7/9 CV II. I						
			DAI	2-1/2 To 2-7/8 CY Hydr	aulic Exc		III-Time (\$6201.2
			Installation	Quantity 2.50		Unit Price		Factor	Total	
		Hear Notes		2.50	х	\$1,824.02	x	1.3599 =	\$6,201.21	
		Oser Note.	. Ioau anu u	nload barrier from lowbed	trailer +	4HRS for Rip	Rap Plac	cement		
1	01 55 26 00-0052		МО	Type B Flasher (High In	tensity)					
				Quantity	- ''	Unit Price		Factor		\$710.41
			Installation	20.00	x	\$26.12	×	1.3599 =	Total \$710.41	
		User Note:	2 per barrie	ers, 20*4=				1.3359	\$110.41	
2	01 55 26 00-0065		МО	>12.5' To 20' Concrete T	raffic Ba	rior				
				Quantity	ranic bai	Unit Price		-		\$2175.70
			Installation		x	\$159.99		Factor	Total	
		User Note:	10 pieces (20ft) *4 week	•	¥103.33	×	1.3599 =	\$2,175.70	
	01 55 26 00-0107		EA	Place And P						
			LA	Place And Remove >12.	Concre	ete Traffic Barri	erlf lifting	equipment is not	5	1813.97
				00-0000 for mobilization	lasks	01 22 23 00-0	000 for r	entals tasks, 01 71 13		
				Quantity		Unit Price		Factor	Total	
			Installation	10.00 x	:	\$133.39	×	1.3599 =	\$1,813.97	
		User Note:	10 Barriers					1.0055	41,010.07	
	01 55 26 00-0120		EA	Roadside Relocation Of C	`oncrete	Traffic Parrier	lumbu da	D. W. 1.		
				equipment is not available asks, 01 71 13 00-0000 f	on site.	See CSI section	on 01 22	11atbed truck . If lifting 23 00-0000 for rental	\$	9071.21
				Quantity	JI ITIODINZ	Unit Price		Easter		
		1	Installation	150.00 x		\$44.47	x	Factor	Total \$9.071.21	
		User Note:	10 EA*15	, and a 1		W11.71	^	1.3599 =	\$9,071.21	

Subtotal for Barriers:

\$27712.78





Work Order #:

110648.00

Title

Harrison Park Lane Retaining Wall

CSI Number

	CSI Number	Mod.	00111	Description	1000 1000						Line T
Cle	aring/Grubbing										
15	01 74 19 00-0031	1	CY	Trees, Stumps And	Brush, L	andfill Dump Fee	No.				040000
				Quantity		Unit Price		Factor		Total	\$10892
			Installation	77.70		\$103.09	x	1.3599		\$10,892.93	
		User Note	: Excavation	for retaining wall, 17	'5' x 5' x 2	1					
16	01 74 19 00-0036		СҮМ	Hauling On Paved	Roads, M	iles Over Initial 1	5 Miles				
				Quantity		Unit Price		Factor	8 -	Total	\$426.0
			Installation	489.51	x	\$0.64	x	1.3599	=	\$426.04	
		User Note	: Moriority=2	1.3-15=6.3 Miles*77.	7=489.51						
17	31 13 13 00-0004		EA	>12" To 24" D.B.H. up tree, chipping an	(Diameter	At Breast Heigh	t) Tree Re	emovalincludes	cutting		\$2900.9
				Quantity	a loading.	Unit Price		Factor		7-4-1	
			Installation	2.00	×	\$1,066.59	×	1.3599	=	Total \$2,900.91	
		User Note:	Clear Area f	or new Wall				1.5555		42,000.01	
18	31 13 13 00-0010		EA	>6" To 12" Diameter stump and loading.	Stump Re	emovalincludes e	excavation	n necessary to r	emove		\$1838.80
				O		11 0 - 1					
			In a darling	Quantity		Unit Price		Factor		Total	
iubto	otal for Clearing/G		Installation Clearing Are	8.00 a for New Wall	x	\$169.02	х	Factor 1.3599	=	Total \$1,838.80	
	otal for Clearing/G			8.00	x		x		=	\$1,838.80	6058.68
			Clearing Are	8.00 a for New Wall		\$169.02		1.3599		\$1,838.80 \$1	
Exca	vation		Clearing Are	8.00		\$169.02		1.3599 Landfill Dump F		\$1,838.80 \$1	6058.68 28320.18
Exca	vation	rubbing:	Clearing Are	8.00 a for New Wall		\$169.02 el And Subgrade Unit Price	Material,	1.3599 Landfill Dump F	ee	\$1,838.80 \$1	
Exca	vation	rubbing:	CY Installation	8.00 a for New Wall Aixed Asphalt, Concr Quantity	ete, Grave	\$169.02 el And Subgrade Unit Price \$68.73	Material,	1.3599 Landfill Dump F Factor 1.3599	ee	\$1,838.80 \$1	
Exca	vation	rubbing:	CY M Installation	8.00 a for New Wall Mixed Asphalt, Concr Quantity 303.00 r retaining wall/Drain	ete, Gravi x age stone	\$169.02 el And Subgrade Unit Price \$68.73 e/Structural Fill (F	Material,	1.3599 Landfill Dump F Factor 1.3599	ee	\$1,838.80 \$1 \$1 \$28,320.18	28320.18
Excav	vation 01 74 19 00-0032	rubbing: User Note:	CY M Installation Excavation fo	8.00 a for New Wall Aixed Asphalt, Concr Quantity 303.00	ete, Gravi x age stone	\$169.02 el And Subgrade Unit Price \$68.73 e/Structural Fill (F	Material,	1.3599 Landfill Dump F Factor 1.3599	ee	\$1,838.80 \$1 \$1 Total \$28,320.18	
Excav	vation 01 74 19 00-0032	rubbing: User Note:	CY M Installation Excavation fo CYM H Installation	8.00 a for New Wall Aixed Asphalt, Concr Quantity 303.00 r retaining wall/Drain auling On Paved Ro Quantity 4,180.00	ete, Gravi x age stone	\$169.02 el And Subgrade Unit Price \$68.73 e/Structural Fill (F	Material,	1.3599 Landfill Dump F Factor 1.3599 =	ee	\$1,838.80 \$1 \$1 \$28,320.18	28320.18
Excav	vation 01 74 19 00-0032	rubbing: User Note:	CY M Installation Excavation fo CYM H Installation	8.00 a for New Wall Aixed Asphalt, Concr Quantity 303.00 r retaining wall/Drain auling On Paved Ro Quantity	ete, Grave x age stone ads, First	#169.02 Pel And Subgrade Unit Price \$68.73 PolyStructural Fill (F	Material, x iill=238 Sf	1.3599 Landfill Dump F Factor 1.3599 =	ee	\$1,838.80 \$1 \$1 Total \$28,320.18	28320.18
9 0	vation 01 74 19 00-0032	rubbing: User Note:	CY M Installation Excavation fo CYM H Installation	8.00 a for New Wall Aixed Asphalt, Concr Quantity 303.00 r retaining wall/Drain auling On Paved Ro Quantity 4,180.00	ete, Grave x age stone ads, First	#169.02 Pel And Subgrade Unit Price \$68.73 PolyStructural Fill (F	Material, x iill=238 Sf	1.3599 Landfill Dump F Factor 1.3599 =	ee	\$1,838.80 \$1 \$1 Total \$28,320.18 \$5,457.01	28320.18 35457.01
9 0	01 74 19 00-0032 01 74 19 00-0035	rubbing: User Note:	CY M Installation Excavation fo CYM H Installation	8.00 a for New Wall Aixed Asphalt, Concr Quantity 303.00 r retaining wall/Drain auling On Paved Ro Quantity 4,180.00	ete, Grave x age stone ads, First	#169.02 Pel And Subgrade Unit Price \$68.73 PolyStructural Fill (F	Material, x iill=238 Sf	1.3599 Landfill Dump F Factor 1.3599 =	ee	\$1,838.80 \$1 \$1 Total \$28,320.18 \$5,457.01	28320.18
9 0	01 74 19 00-0032 01 74 19 00-0035 01 74 19 00-0035	rubbing: User Note:	CY MInstallation Excavation for CYM HInstallation Thalle 11 mile	8.00 a for New Wall Aixed Asphalt, Concr Quantity 303.00 r retaining wall/Drain auling On Paved Ro Quantity 4,180.00 s * 380 CY= 4180	ete, Grave x age stone ads, First x	\$169.02 el And Subgrade Unit Price \$68.73 e/Structural Fill (F 15 Miles Unit Price \$0.96	Material, x iill=238 St	1.3599 Landfill Dump F Factor 1.3599 = lone Wall=65) Factor 1.3599 =	ee	\$1,838.80 \$1 \$1 \$28,320.18 \$28,320.18 \$5,457.01	28320.18 55457.01
9 0 ubtot	01 74 19 00-0032 01 74 19 00-0035 01 74 19 00-0035 al for Excavation:	rubbing: User Note:	CY M Installation Excavation fo CYM H Installation Thalle 11 mile	8.00 a for New Wall Aixed Asphalt, Concr Quantity 303.00 r retaining wall/Drain auling On Paved Ro Quantity 4,180.00 s * 380 CY= 4180	ete, Grave x age stone ads, First x	\$169.02 el And Subgrade Unit Price \$68.73 e/Structural Fill (F 15 Miles Unit Price \$0.96	Material, x iill=238 St	1.3599 Landfill Dump F Factor 1.3599 = lone Wall=65) Factor 1.3599 =	ee	\$1,838.80 \$1 \$1 \$28,320.18 \$28,320.18 \$5,457.01 \$333	5457.01
9 0 ubtot	01 74 19 00-0032 01 74 19 00-0035 01 74 19 00-0035 al for Excavation: ation/Demo	rubbing: User Note:	CY M Installation Excavation fo CYM H Installation Thalle 11 mile	8.00 a for New Wall Aixed Asphalt, Concr Quantity 303.00 r retaining wall/Drain auling On Paved Ro Quantity 4,180.00 s * 380 CY= 4180	ete, Grave x age stone ads, First x	\$169.02 el And Subgrade Unit Price \$68.73 e/Structural Fill (F 15 Miles Unit Price \$0.96	Material, x iill=238 St	1.3599 Landfill Dump F Factor 1.3599 = tone Wall=65) Factor 1.3599 =	ee	\$1,838.80 \$1 \$1 \$28,320.18 \$28,320.18 \$5,457.01	28320.18 55457.01 3777.19





Work Order #:

110648.00

Title

Harrison Park Lane Retaining Wall

CSI Number

Mod.

				Description							Line T
Ex	cavation/Demo										
22	02 41 16 13-0058	3	CF	Stone Footing Or F	oundatio	n Wall Demolition					
				Quantity		Unit Price		Fac			\$30628
			Installation		50.	\$13.20			57% ()	Tota \$30,628.35	
		User Note	: Wall demo	removal		♥15.20	^	1.35	99 =	\$30,026.33	,
23	02 41 19 13-0015		EA	Saw Cut Minimum	ChargeFo	or projects where	the total s	aw cutting ch	arge is		\$1114
				less than the minim	ium charg	e, use this task e	xclusively	This task st	ould not		\$1114
				be used in conjunct Quantity	ion with a		this section				
			Installation			Unit Price		Fact		Total	
		11 11-4		1.00	×	\$819.48	X	1.359	9 =	\$1,114.41	
		User Note	: Saw Cut Pa	evement							
4	31 23 16 13-0003		CY	Over 12" Wide, Exc	avation fo	or Trenching by M	achine in	Soil			
				Quantity		Unit Price	acrimic iri	Facto	_		\$1903.
			Installation	238.00	x	\$5.88	x			Total	
		User Note:	behind exist			95.00	^	1.359	9 -	\$1,903.10	
5	31 23 16 13-0003	0045	01/								
	01201010-0003	0045	CY	For >50 To 250, Add	<u> </u>						\$475.
				Quantity		Unit Price		Facto	r	Total	
			Inetallation								
ubt	otal for Excavation	n/Demo:	Installation	238.00	х	\$1.47	x	1.3599	=	\$475.77	20002
uai	rd Rail	n/Demo:							are.		36693.4
_		n/Demo:		Mobilize Guide Rail (udes equipment n) =		
uai	rd Rail	n/Demo:	EA I	Mobilize Guide Rail (Quantity					, =		
iuai	rd Rail 34 71 13 26-0002	n/Demo:	EA I	Mobilize Guide Rail (Quantity 1.00	CrewExclu x	udes equipment m Unit Price \$1,199.59		n.		\$	\$1631.3
iuai	rd Rail	n/Demo:	EA I	Mobilize Guide Rail (Quantity	CrewExclu x	udes equipment m Unit Price \$1,199.59	nobilizatio	n. Factor		\$ Total	\$1631.3
iuai	rd Rail 34 71 13 26-0002		EA I	Mobilize Guide Rail (Quantity 1.00	CrewExclu x	udes equipment m Unit Price \$1,199.59	nobilizatio	n. Factor 1.3599		Total \$1,631.32	\$1631.3
iuai	rd Rail 34 71 13 26-0002		EA I	Mobilize Guide Rail (Quantity 1.00 Corrugated Beam Gu	CrewExclu x	udes equipment n Unit Price \$1,199.59	nobilizatio	n. Factor 1.3599 Factor	=	Total \$1,631.32	\$1631.3
iuai	rd Rail 34 71 13 26-0002		EA I	Mobilize Guide Rail (Quantity 1.00 Corrugated Beam Gu Quantity	CrewExclu x iide Railin x	Unit Price \$1,199.59 19 Unit Price \$10.21	nobilizatio x	n. Factor 1.3599	=	Total \$1,631.32	\$1631.3
uai	rd Rail 34 71 13 26-0002		EA I	Mobilize Guide Rail (Quantity 1.00 Corrugated Beam Gu Quantity 25.00 ail to replace damag	x ide Railin x ged section	Unit Price \$1,199.59 9 Unit Price \$10.21	x x	n. Factor 1.3599 Factor	=	Total \$1,631.32	\$1631.3
uai	34 71 13 26-0002 34 71 13 26-0006		EA I	Mobilize Guide Rail (Quantity 1.00 Corrugated Beam Gu Quantity 25.00 ail to replace damag	x ide Railin x ged section	Udes equipment in Unit Price \$1,199.59 9 Unit Price \$10.21 ons	x x	n. Factor 1.3599 Factor 1.3599	=	Total \$1,631.32 Total \$347.11	\$1631.3 \$347.1
iuai	34 71 13 26-0002 34 71 13 26-0006	User Note:	EA I	Mobilize Guide Rail C Quantity 1.00 Corrugated Beam Gu Quantity 25.00 ail to replace damag	x ide Railin x ged sectio	Udes equipment in Unit Price \$1,199.59 9 Unit Price \$10.21 ons	x x	n. Factor 1.3599 Factor 1.3599	=	Total \$1,631.32 Total \$347.11	
uai	34 71 13 26-0002 34 71 13 26-0006 34 71 13 26-0028	User Note:	EA I Installation LF (Installation New Guard R EA E Installation	Mobilize Guide Rail C Quantity 1.00 Corrugated Beam Gu Quantity 25.00 ail to replace damage xtra Long Post for C Quantity 18.00	x side Railin x ged section	Unit Price \$1,199.59 9 Unit Price \$10.21 ons Beam Guide Rai Unit Price \$82.04	x x	n. Factor 1.3599 Factor 1.3599 Factor 1.3599	=	Total \$1,631.32 Total \$347.11	\$1631.3 \$347.1
iuai	34 71 13 26-0002 34 71 13 26-0006	User Note:	EA I Installation LF (Installation New Guard R EA E Installation	Mobilize Guide Rail C Quantity 1.00 Corrugated Beam Gu Quantity 25.00 ail to replace damag xtra Long Post for C Quantity 18.00 emoval And Storage	x side Railin x ged section	Unit Price \$1,199.59 Unit Price \$10.21 Unit Price \$10.21 Unit Price \$10.24 Unit Price \$82.04 gated Beam Guide Rai	x x	n. Factor 1.3599 Factor 1.3599 Factor 1.3599	=	Total \$1,631.32 Total \$347.11 Total \$2,008.19	\$1631.3 \$347.1 \$2008.19
iuai	34 71 13 26-0002 34 71 13 26-0006 34 71 13 26-0028	User Note:	EA I Installation LF (Installation New Guard R EA E Installation LF R	Mobilize Guide Rail C Quantity 1.00 Corrugated Beam Gu Quantity 25.00 ail to replace damag xtra Long Post for C Quantity 18.00 emoval And Storage Quantity	x ide Railin x ged section orrugated x Of Corru	Unit Price \$1,199.59 Unit Price \$10.21 Unit Price \$10.21 Unit Price \$82.04 gated Beam Guide Raid Unit Price	x x	n. Factor 1.3599 Factor 1.3599 Factor 1.3599 And Post Factor	=	Total \$1,631.32 Total \$347.11 Total \$2,008.19	\$1631.3 \$347.1 \$2008.19
uai	34 71 13 26-0002 34 71 13 26-0006 34 71 13 26-0028	User Note:	EA I Installation LF (Installation New Guard R EA E Installation LF R	Mobilize Guide Rail C Quantity 1.00 Corrugated Beam Gu Quantity 25.00 ail to replace damage extra Long Post for C Quantity 18.00 emoval And Storage Quantity 185.00	x side Railin x ged section	Unit Price \$1,199.59 Unit Price \$10.21 Unit Price \$10.21 Unit Price \$10.24 Unit Price \$82.04 gated Beam Guide Rai	x x	n. Factor 1.3599 Factor 1.3599 Factor 1.3599 And Post	=	Total \$1,631.32 Total \$347.11 Total \$2,008.19	\$1631.3 \$347.1 \$2008.19
iuai	34 71 13 26-0002 34 71 13 26-0006 34 71 13 26-0028	User Note:	EA I Installation LF (Installation New Guard R EA E Installation LF R	Mobilize Guide Rail C Quantity 1.00 Corrugated Beam Gu Quantity 25.00 ail to replace damage extra Long Post for C Quantity 18.00 emoval And Storage Quantity 185.00	x ide Railin x ged section orrugated x Of Corru	Unit Price \$1,199.59 Unit Price \$10.21 Unit Price \$10.21 Unit Price \$82.04 gated Beam Guide Raid Unit Price	x x x x x e Railing	n. Factor 1.3599 Factor 1.3599 Factor 1.3599 And Post Factor	=	Total \$1,631.32 Total \$347.11 Total \$2,008.19	\$1631.3 \$347.1
uai	34 71 13 26-0002 34 71 13 26-0006 34 71 13 26-0028	User Note:	EA I Installation LF (Installation New Guard R EA E Installation LF R Installation Reset Guardra	Mobilize Guide Rail C Quantity 1.00 Corrugated Beam Gu Quantity 25.00 ail to replace damag xtra Long Post for C Quantity 18.00 emoval And Storage Quantity 185.00	x ide Railin x ged sectio orrugated x Of Corru	Unit Price \$1,199.59 Unit Price \$10.21 Unit Price \$2.04 Gated Beam Guide Rai Unit Price \$82.04 Unit Price \$12.56	x x x x x x e Railing	n. Factor 1.3599 Factor 1.3599 Factor 1.3599 And Post Factor	=	Total \$1,631.32 Total \$347.11 Total \$2,008.19	\$1631.3 \$347.1 \$2008.19
iuai	34 71 13 26-0002 34 71 13 26-0006 34 71 13 26-0028 34 71 13 26-0048	User Note:	EA I Installation LF (Installation New Guard R EA E Installation LF R Installation Reset Guardra	Mobilize Guide Rail C Quantity 1.00 Corrugated Beam Gu Quantity 25.00 ail to replace damage extra Long Post for C Quantity 18.00 emoval And Storage Quantity 185.00	x ide Railin x ged sectio orrugated x Of Corru	Unit Price \$1,199.59 Unit Price \$10.21 Unit Price \$10.21 Unit Price \$82.04 gated Beam Guide Unit Price \$12.56 Guide Railing An	x x x x x x e Railing	n. Factor 1.3599 Factor 1.3599 Factor 1.3599 And Post Factor 1.3599	=	Total \$1,631.32 Total \$347.11 Total \$2,008.19 Total \$3,159.86	\$1631.3 \$347.1 \$2008.19
iuai	34 71 13 26-0002 34 71 13 26-0006 34 71 13 26-0028 34 71 13 26-0048	User Note:	EA I Installation LF (Installation New Guard R EA E Installation LF R Installation Reset Guardra	Mobilize Guide Rail (Quantity 1.00 Corrugated Beam Gu Quantity 25.00 ail to replace damage xtra Long Post for C Quantity 18.00 emoval And Storage Quantity 185.00 ail	x ide Railin x ged sectio orrugated x Of Corru	Unit Price \$1,199.59 Unit Price \$10.21 Unit Price \$2.04 Gated Beam Guide Rai Unit Price \$82.04 Unit Price \$12.56	x x x x x x e Railing	n. Factor 1.3599 Factor 1.3599 Factor 1.3599 And Post Factor	=	Total \$1,631.32 Total \$347.11 Total \$2,008.19	\$1631.3 \$347.1 \$2008.19





Work	Orde	er#:
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110648.00

Title

Harrison Park Lane Retaining Wall

Subtotal for Guardrail Posts Subtotal for Guardrail Posts	\$8980.				il:	otal for Guard Ra	Subt
Admiture Admiture Installation Quantity Unit Price Factor Total						rdrail Posts	Gua
	2% Water Reducing and Accelerating (High Early Strength), Type E Concrete \$69.0	and Ac	2% Water Reducing	CY		03 05 13 00-0010	31
User Note: Guard Rail Post Footing S. 90 X \$8.70 X 1.3599 = \$69.80	Quantity Unit Price Factor Total		The state of the s				
2 03 05 13 00-0017 CY Winter Service Or Heat, Concrete Add Quantity Unit Price Factor Total	ation 5.00	x	5.90	Installation			
Country Unit Price Factor Total	Rail Post Footing		Post Footing	Guard Rail	User Note:		
	Y Winter Service Or Heat. Concrete Add	eat. Cor	Winter Service Or H	CY		03 05 13 00-0017	32
Installation 5.90 x	Outputity Link Drive			-			
133 03 11 13 00-0073	tion 500	×	5.90	Installation		1	
User Note: 15 Guardrail Posts: ### Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed TruckIncludes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40 boom lengths, etc. ###################################	F 18" Diameter Round Fiber Tube Formund		18" Diameter Round	LF		03 11 13 00-0073	33
User Note: 15 Guardrail Posts ### Delivery Pickup, Mobilization And Demobilization Using A Rollback Flatbed TruckIncludes loading, ite-down of equipment, delivery of equipment, off loading on sile, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, skid-steer loaders, between particulating boom man lifts with up to 40° boom lengths, etc. ###################################	Quantity \$584.						
User Note: 15 Guardrail Posts: ### Mobilization EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed TruckIncludes loading, tie-down of equipment, delivery of equipment, off loading on sile, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scisor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc. Quantity	tion 45.00	×	5.0	Installation			
Abbilization EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed TruckIncludes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobodasts), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc. Ouanity Unit Price Factor Total \$740.19 User Note: Asphalt Roller/Trench Roller EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' BedIncludes loading, tie-down of equipment, delivery of equipment, sporting away. For equipment such as buildozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom man lifts with 40' boom lengths, etc. Quantity Unit Price Factor Total Installation 2.00 x \$761.40 x 1.3599 = \$2,070.86	1.3599			15 Guardrai	User Note:		
away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc. Quantity Unit Price Factor Total	Flatbed TruckIncludes loading, tie-down of equipment, delivery of equipment	s loading	Flatbed TruckInclude			01 71 13 00-0002	
industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc. Quantity	off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats)	s loading ging, dis such as	Flatbed TruckInclude off loading on site, rig away. For equipment				
User Note: Asphalt Roller/Trench Roller EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' BedIncludes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc. Quantity Unit Price Factor Total Installation 2.00 x \$761.40 x 1.3599 = \$2,070.86	industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and	forklifts,	ndustrial warehouse	1			
User Note: Asphalt Roller/Trench Roller EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' BedIncludes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc. Quantity Unit Price Factor Total Installation	Quantity Unit Price Factor Total		Quantity				
EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' BedIncludes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc. Quantity Unit Price Factor Total Installation 2.00 x \$761.40 x 1.3599 = \$2,070.86	2.00 x \$2/2.15 x 1.3599 = \$740.19	×					
Trailer With Up To 53' BedIncludes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc. Quantity	Roller/Trench Roller		r/Trench Roller	Asphalt Rolle	User Note:		
equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc. Quantity	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor \$2070.86	Pickup, N	quipment Delivery, F	EA E		01 71 13 00-0003	i
transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc. Quantity	Trailer With Up 10 53' Bedincludes loading, tie-down of equipment, delivery of	Bedinch	railer With Up To 53'				
hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc. Quantity	equipment, on loading on site, rigging, dismantling, loading for return and	r equipm	ansporting away. For	tr			
construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc. Quantity	transporting away. For equipment such as hulldozers, motor scrapers	gradalls,	ydraulic excavators,	h			
Installation 2.00 x \$761.40 x 1.3599 = \$2,070.86	transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty	ractors,	onstruction loaders, t	C			
Quantity Unit Price Factor Total Installation 2.00 x \$761.40 x 1.3599 = \$2,070.86	transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast	Plesconi	elescoping and articul	te			
Installation 2.00 x \$761.40 x 1.3599 = \$2,070.86	transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts.	latina ho					
	transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man life with >40' boom lengths, etc.	lating bo	Quantity				
Oser Note: Excavator/DH	transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc. Quantity Unit Price Factor Total	lating bo	Quantity		1		
	transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc. Quantity	lating bo	Quantity	nstallation			





Work Order #:

110648.00

Title

Harrison Park Lane Retaining Wall

CSI Number

Mod

UOM Description

	CSI Number	Mod.	MOU	Description						Line Tota
MPT										
36	01 22 20 00-0059		HR	Flagperson For Tra	ffic Contr	ol				\$26632.2
				Quantity		Unit Price		Factor	Tota	
			Installation	272.00	x	\$72.00	×	1.3599 =	\$26,632.28	
		User Note:	: 2 Flaggers	for Wall Removal/Ins	tallation	17 Days*8 HRS*2	2			
37	01 55 26 00-0022		MO	28" Cone With Refle	ective Co	llar				
				Quantity		Unit Price		Factor	Total	\$118.04
			Installation	20.00	×	\$4.34	×	1.3599	\$118.04	
		User Note:	20 for 1 mo	nth				1.3399		
38	01 55 26 00-0028		MO	Channelizer Drum						
				Quantity		Unit Price		Factor	Table	\$290.47
			Installation	15.00	×	\$14.24	x	1.3599 =	Total \$290.47	
		User Note:	15 for 1 mor				î	1.3599	4.00.4 1	
39	01 55 26 00-0079		MO	Mesh Or Vinyl Roll-u	n Sign W	lith Stand				
				Quantity	p Oigit Vi	Unit Price		Factor	7.1.1	\$456.06
			Installation	8.00	x	\$41.92	×	1.3599 =	Total \$456.06	
		User Note:	8 for 1 mont	h		******	^	1.3589	4400.00	
40	01 55 26 00-0113		EA	Place And Remove >	250 Con	es By Hand From	Roadside			6040.70
				Quantity		Unit Price	, , , , , , , , , , , , , , , , , , , ,	Factor	Total	\$813.76
			Installation	340.00	×	\$1.76	×	1.3599 =	\$813.76	
		User Note:	20 for 17 Da	ys				1.0000		
11	01 55 26 00-0114		EA I	Place And Remove U	p To 250	Panels/Channeli	zers Bv H	and From Roadsid	e	£1010 F0
				Quantity		Unit Price		Factor	Total	\$1012.58
			Installation	255.00	x	\$2.92	×	1.3599 =	\$1,012.58	
		User Note:	15 for 17 day	rs .				1.0000		
2	01 55 26 00-0118		EA F	Place And Remove Po	ortable S	ign And Stand Fr	om Roads	ide		\$283.95
				Quantity		Unit Price		Factor	Total	Ψ200.30
			Installation	80.00	×	\$2.61	×	1.3599 =	\$283.95	
		User Note:	4 Install for di	uration of work - 4 Ins	tall remo	ve daily (4*19=76	6 + 4=80)			
ubtota	al for MPT:			· · · · · · · · · · · · · · · · · · ·						
ipe									\$2	9607.14
3	33 41 16 00-0003		LF 6	" Perforated Polyviny	Chloride	e (PVC) Drainage	Piping			\$2244.11
				Quantity		Unit Price		Factor	Total	WZZ44.11
			Installation	185.00	×	\$8.92	X	1.3599 =	\$2,244.11	
		II M	Danis	ind wall not included						





Title		Harriso	n Park Lan	e Retaining Wall							
	CSI Number	Mod		Description							Line T
Subto	otal for Pipe:										
Retai	ining Wall										\$2244
44	31 32 19 16-0009		SY	10 Oz/SY, 115 Mil, 2 Fabric (Carthage Mil	250 LB G	Grab Tensile Nonw	voven Po	ypropylene Geo	otextile		\$1107
			le stellette	Quantity		Unit Price		Factor		Total	
			Installation	430.00	X	\$1.81	×	1.3599	=	\$1,107.64	
		User Not	e: Fabric for	leveling pad, wall, back	kfill and r	ip rap					
45	31 32 19 16-0009	0071	SY	For >250 To 500, Ad	d						***
				Quantity		Unit Price		Factor		Total	\$61.
			Installation	450.00	×	\$0.10	×	1.3599	=	\$61.20	
46	32 32 23 13-0014		SF	4 To 8' Height "Keyst	one" Typ	e Modular Retain	ing Wall	System			100000
				Quantity		Unit Price		Factor		Total	126039.
			Installation	1,422.39	×	\$65.16	×	1.3599	=	\$126,039.52	
		User Note	: Used for Re	ediRock Wall							
									_		
	31 37 00 00-0003		TON	>50 To 100 LB Average	e Pieces	s Random, Dumo	ed From	Truck Pin Pag			
				>50 To 100 LB Averag	je Pieces	s Random, Dump Unit Price	ed From			Total	\$2011.2
7	31 37 00 00-0003		TON	>50 To 100 LB Average Quantity 38.00	ge Pieces		ed From	Truck, Rip Rap Factor 1.3599		Total \$2,011.24	\$2011.2
7 ubtota	31 37 00 00-0003 al for Rip Rap Ap	pron:		Quantity		Unit Price		Factor		\$2,011.24	
7 ubtota	31 37 00 00-0003 al for Rip Rap Ap	oron:		Quantity		Unit Price		Factor	=	\$2,011.24	
7 ubtota itripin	31 37 00 00-0003 al for Rip Rap Ap	oron:	Installation	Quantity	x	Unit Price \$38.92	x	Factor 1.3599		\$2,011.24	\$2011.2
7 ubtota itripin	31 37 00 00-0003 al for Rip Rap Ap	pron:	Installation	Quantity 38.00 Single 4" Wide Solid L Quantity	x ine, Pain	Unit Price \$38.92 Ited Reflective Pa Unit Price	x	Factor 1.3599 ** Striping Factor		\$2,011.24	\$2011.2
ubtota Stripin	31 37 00 00-0003 al for Rip Rap Ap 9 32 17 23 13-0003		Installation LF Installation	Quantity 38.00 Single 4" Wide Solid L Quantity 185.00	x ine, Pain	Unit Price \$38.92	x	Factor 1.3599 Striping		\$2,011.24	\$2011.2
7 ubtota stripin	31 37 00 00-0003 al for Rip Rap Ap	oron:	Installation LF Installation	Quantity 38.00 Single 4" Wide Solid L Quantity 185.00 For Up To 5,000 LF, Ac	x ine, Pain	Unit Price \$38.92 ted Reflective Pa Unit Price \$0.24	x vement \$	Factor 1.3599 ** Striping Factor		\$2,011.24	\$2011.2 \$2011.2 \$60.34
ubtota Stripin	31 37 00 00-0003 al for Rip Rap Ap 9 32 17 23 13-0003		Installation LF Installation	Quantity 38.00 Single 4" Wide Solid L Quantity 185.00 For Up To 5,000 LF, Ac Quantity	x ine, Pain x dd	Unit Price \$38.92 ited Reflective Pa Unit Price \$0.24	x vement 5	Factor 1.3599 Striping Factor 1.3599 Factor		\$2,011.24 Total \$60.38	\$2011.2 \$60.3
ubtota Stripin	31 37 00 00-0003 al for Rip Rap Ap g 32 17 23 13-0003		LF Installation LF	Quantity 38.00 Single 4" Wide Solid L Quantity 185.00 For Up To 5,000 LF, Ac	x ine, Pain	Unit Price \$38.92 ted Reflective Pa Unit Price \$0.24	x vement \$	Factor 1.3599 ** Striping		\$2,011.24 Total \$60.38	\$2011.2 \$60.3
ubtota stripin 8	31 37 00 00-0003 al for Rip Rap Ap g 32 17 23 13-0003 32 17 23 13-0003		LF Installation LF	Quantity 38.00 Single 4" Wide Solid L Quantity 185.00 For Up To 5,000 LF, Ac Quantity	x ine, Pain x dd	Unit Price \$38.92 ited Reflective Pa Unit Price \$0.24	x vement 5	Factor 1.3599 Striping Factor 1.3599 Factor		\$2,011.24 Total \$60.38	\$2011.2 \$60.3 \$12.56
ubtota Stripin 8	31 37 00 00-0003 al for Rip Rap Ap g 32 17 23 13-0003 32 17 23 13-0003		LF Installation LF Installation	Quantity 38.00 Single 4" Wide Solid L Quantity 185.00 For Up To 5,000 LF, Ac Quantity 185.00	x ine, Pain x dd	Unit Price \$38.92 Ited Reflective Pa Unit Price \$0.24 Unit Price \$0.05	x vement 5	Factor 1.3599 Striping Factor 1.3599 Factor		\$2,011.24 Total \$60.38	\$2011.2 \$60.3 \$12.56
ubtota StripIn 8	31 37 00 00-0003 al for Rip Rap Ap g 32 17 23 13-0003 32 17 23 13-0003		LF Installation LF Installation	Quantity 38.00 Single 4" Wide Solid Li Quantity 185.00 For Up To 5,000 LF, Ac Quantity 185.00	x ine, Pain x dd	Unit Price \$38.92 ted Reflective Pa Unit Price \$0.24 Unit Price \$0.05	x vement 5	Factor 1.3599 Striping Factor 1.3599 Factor		\$2,011.24 Total \$60.38 Total \$12.58	\$2011.2 \$60.3 \$12.58 \$72.96
ubtota StripIn 8	31 37 00 00-0003 al for Rip Rap Ap g 32 17 23 13-0003 32 17 23 13-0003	0052	LF Installation LF Installation	Quantity 38.00 Single 4" Wide Solid Li Quantity 185.00 For Up To 5,000 LF, Ac Quantity 185.00	x dd x	Unit Price \$38.92 ted Reflective Pa Unit Price \$0.24 Unit Price \$0.05	vernent S	Factor 1.3599 = Factor Factor Factor Factor 1.3599 = Factor Factor Factor 1.3599 = Factor Factor Factor Factor Factor 1.3599 = Factor Fact		\$2,011.24 Total \$60.38 Total \$12.58	\$2011.2 \$60.3 \$12.58
ubtota	31 37 00 00-0003 al for Rip Rap Ap g 32 17 23 13-0003 32 17 23 13-0003 al for Striping: ackfill 31 05 16 00-0032	0052	LF Installation LF Installation TON T	Quantity 38.00 Single 4" Wide Solid Li Quantity 185.00 For Up To 5,000 LF, Ac Quantity 185.00 Type 4 Subbase Course Quantity 225.12	x ine, Pain x dd	Unit Price \$38.92 ted Reflective Pa Unit Price \$0.24 Unit Price \$0.05	x vement 5	Factor 1.3599 = Striping Factor 1.3599 = Factor 1.3599 =		\$2,011.24 Total \$60.38 Total \$12.58	\$2011.2 \$60.3 \$12.5 \$72.96
ubtota Stripin 8	31 37 00 00-0003 al for Rip Rap Ap g 32 17 23 13-0003 32 17 23 13-0003 al for Striping: ackfill 31 05 16 00-0032	0052	LF Installation LF Installation	Quantity 38.00 Single 4" Wide Solid Li Quantity 185.00 For Up To 5,000 LF, Ac Quantity 185.00 Type 4 Subbase Course Quantity 225.12	x dd x	Unit Price \$38.92 ted Reflective Pa Unit Price \$0.24 Unit Price \$0.05	vernent S	Factor 1.3599 = Factor Factor Factor Factor 1.3599 = Factor Factor Factor 1.3599 = Factor Factor Factor Factor Factor 1.3599 = Factor Fact		\$2,011.24 Total \$60.38 Total \$12.58	\$2011.2 \$60.3 \$12.58 \$72.96
ubtota tripin s ubtota	31 37 00 00-0003 al for Rip Rap Ap g 32 17 23 13-0003 32 17 23 13-0003 al for Striping: ackfill 31 05 16 00-0032	0052 User Note:	LF Installation LF Installation TON T	Quantity 38.00 Single 4" Wide Solid Li Quantity 185.00 For Up To 5,000 LF, Ac Quantity 185.00 Type 4 Subbase Course Quantity 225.12	x dd x	Unit Price \$38.92 ted Reflective Pa Unit Price \$0.24 Unit Price \$0.05	vernent S	Factor 1.3599 = Factor Factor Factor Factor 1.3599 = Factor Factor Factor 1.3599 = Factor Factor Factor Factor Factor 1.3599 = Factor Fact		\$2,011.24 Total \$60.38 Total \$12.58 \$Total \$6,266.70	\$2011.2 \$60.3 \$12.56 \$72.96





Work Order #:

110648.00

Title

Harrison Park Lane Retaining Wall

CSI Number

UOM Description

51	31 05 16 00-0012		TON	Crushed Stone (Size	3) (703-0	0201FM)				A700 =
		User Note:	Installation 25.2 Levelii	Quantity	×	Unit Price \$22.84	x em)	Factor 1.3599 =	Total \$782.71	\$782.7
52	31 05 16 00-0012	0089	TON	For >14 To 35, Add						070
52	31 05 16 00-0012	0089	TON Installation	For >14 To 35, Add Quantity 25.20	x	Unit Price \$2.28	x	Factor 1.3599 =	Total \$78.13	\$78.1

This work order proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

The Percent of NPP on this Proposal:

0.00%