

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

E-5

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



Job Order Contract

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

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.



Job Order Contract

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.	\$14807.17
---	------------------	-----	---	------------

	Quantity		Unit Price		Factor		Total
Installation	40.50	x	\$268.85	x	1.3599	=	\$14,807.17

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

Subtotal for Asphalt Restoration:

\$14807.17

Backfill/Grading

2	31 23 16 13-0010	CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine	\$205.30
---	------------------	----	--	----------

	Quantity		Unit Price		Factor		Total
Installation	45.20	x	\$3.34	x	1.3599	=	\$205.30

User Note: 25.2 Cy at Wall Footing, 20 CY under asphalt pavement

3	31 23 16 13-0010	0049	CY	For >20 To 50, Add	\$102.65
---	------------------	------	----	--------------------	----------

	Quantity		Unit Price		Factor		Total
Installation	45.20	x	\$1.67	x	1.3599	=	\$102.65

4	31 23 16 13-0013		CY	Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera	\$441.34
---	------------------	--	----	---	----------

	Quantity		Unit Price		Factor		Total
Installation	45.20	x	\$7.18	x	1.3599	=	\$441.34

5	31 23 16 33-0016		SY	Finish Grading for Bulk Excavation by Machine	\$243.71
---	------------------	--	----	---	----------

	Quantity		Unit Price		Factor		Total
Installation	314.40	x	\$0.57	x	1.3599	=	\$243.70

User Note: Front of Wall/Behind Wall at Road Level

6	31 25 14 16-0003		SY	S75 Single Net Erosion Control BlanketStraw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.	\$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



Contractor's Price Proposal Detail- Category Continued..

Work Order #: 110648.00
Title Harrison Park Lane Retaining Wall

CSI Number	Mod.	UOM	Description	Line Total
Barriers				
7	01 22 20 00-0015	HR	LaborerFor tasks not included in the Construction Task Catalog® and as directed by owner only.	\$4494.74
		Installation	Quantity 40.00 x Unit Price \$82.63 x Factor 1.3599 = Total \$4,494.74	
		User Note: 2 laborers 2 days to load and unload barriers-.5 day for Rip Rap Placement		
8	01 22 20 00-0015	0002 HR	For Foreman, Add	\$112.33
		Installation	Quantity 20.00 x Unit Price \$4.13 x Factor 1.3599 = Total \$112.33	
9	01 22 20 00-0059	HR	Flagperson For Traffic Control	\$3133.21
		Installation	Quantity 32.00 x Unit Price \$72.00 x Factor 1.3599 = Total \$3,133.21	
		User Note: 2 Flaggers for Barrier Install/Removal		
10	01 22 23 00-0312	DAY	2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	\$6201.21
		Installation	Quantity 2.50 x Unit Price \$1,824.02 x Factor 1.3599 = Total \$6,201.21	
		User Note: load and unload barrier from lowbed trailer + 4HRS for Rip Rap Placement		
11	01 55 26 00-0052	MO	Type B Flasher (High Intensity)	\$710.41
		Installation	Quantity 20.00 x Unit Price \$26.12 x Factor 1.3599 = Total \$710.41	
		User Note: 2 per barriers, 20*4=		
12	01 55 26 00-0065	MO	>12.5' To 20' Concrete Traffic Barrier	\$2175.70
		Installation	Quantity 10.00 x Unit Price \$159.99 x Factor 1.3599 = Total \$2,175.70	
		User Note: 10 pieces (20ft) *4 week		
13	01 55 26 00-0107	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.	\$1813.97
		Installation	Quantity 10.00 x Unit Price \$133.39 x Factor 1.3599 = Total \$1,813.97	
		User Note: 10 Barriers		
14	01 55 26 00-0120	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.	\$9071.21
		Installation	Quantity 150.00 x Unit Price \$44.47 x Factor 1.3599 = Total \$9,071.21	
		User Note: 10 EA*15		

Subtotal for Barriers:

\$27712.78



Contractor's Price Proposal Detail- Category Continued..

Work Order #: 110648.00
 Title Harrison Park Lane Retaining Wall

CSI Number	Mod.	UOM	Description	Line Total
Clearing/Grubbing				
15	01 74 19 00-0031	CY	Trees, Stumps And Brush, Landfill Dump Fee	\$10892.93
		Quantity	Unit Price	Factor
	Installation	77.70 x	\$103.09 x	1.3599 =
				Total
				\$10,892.93
	User Note: Excavation for retaining wall, 175' x 5' x 2'			
16	01 74 19 00-0036	CYM	Hauling On Paved Roads, Miles Over Initial 15 Miles	\$426.04
		Quantity	Unit Price	Factor
	Installation	489.51 x	\$0.64 x	1.3599 =
				Total
				\$426.04
	User Note: Moriority=21.3-15=6.3 Miles*77.7=489.51			
17	31 13 13 00-0004	EA	>12" To 24" D.B.H. (Diameter At Breast Height) Tree RemovalIncludes cutting up tree, chipping and loading.	\$2900.91
		Quantity	Unit Price	Factor
	Installation	2.00 x	\$1,066.59 x	1.3599 =
				Total
				\$2,900.91
	User Note: Clear Area for new Wall			
18	31 13 13 00-0010	EA	>6" To 12" Diameter Stump RemovalIncludes excavation necessary to remove stump and loading.	\$1838.80
		Quantity	Unit Price	Factor
	Installation	8.00 x	\$169.02 x	1.3599 =
				Total
				\$1,838.80
	User Note: Clearing Area for New Wall			
Subtotal for Clearing/Grubbing:				\$16058.68
Excavation				
19	01 74 19 00-0032	CY	Mixed Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee	\$28320.18
		Quantity	Unit Price	Factor
	Installation	303.00 x	\$68.73 x	1.3599 =
				Total
				\$28,320.18
	User Note: Excavation for retaining wall/Drainage stone/Structural Fill (Fill=238 Stone Wall=65)			
20	01 74 19 00-0035	CYM	Hauling On Paved Roads, First 15 Miles	\$5457.01
		Quantity	Unit Price	Factor
	Installation	4,180.00 x	\$0.96 x	1.3599 =
				Total
				\$5,457.01
	User Note: Thalle 11 miles * 380 CY= 4180			
Subtotal for Excavation:				\$33777.19
Excavation/Demo				
21	02 41 13 13-0020	SY	>3" To 6" By Machine, Break-up And Remove Bituminous Paving	\$2571.84
		Quantity	Unit Price	Factor
	Installation	120.00 x	\$15.76 x	1.3599 =
				Total
				\$2,571.84
	User Note: Asphalt removal between wall and guardrail			



Contractor's Price Proposal Detail- Category Continued..

Work Order #: 110648.00
 Title Harrison Park Lane Retaining Wall

CSI Number	Mod.	UOM	Description	Line Total
Excavation/Demo				
22	02 41 16 13-0058	CF	Stone Footing Or Foundation Wall Demolition	\$30628.35
		Installation	Quantity 1,706.25 x Unit Price \$13.20 x Factor 1.3599 = Total \$30,628.35	
		User Note: Wall demo/removal		
23	02 41 19 13-0015	EA	Saw Cut Minimum ChargeFor projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	\$1114.41
		Installation	Quantity 1.00 x Unit Price \$819.48 x Factor 1.3599 = Total \$1,114.41	
		User Note: Saw Cut Pavement		
24	31 23 16 13-0003	CY	Over 12" Wide, Excavation for Trenching by Machine in Soil	\$1903.10
		Installation	Quantity 238.00 x Unit Price \$5.88 x Factor 1.3599 = Total \$1,903.10	
		User Note: behind existing stone wall		
25	31 23 16 13-0003	0045 CY	For >50 To 250, Add	\$475.77
		Installation	Quantity 238.00 x Unit Price \$1.47 x Factor 1.3599 = Total \$475.77	
Subtotal for Excavation/Demo:				\$36693.47
Guard Rail				
26	34 71 13 26-0002	EA	Mobilize Guide Rail CrewExcludes equipment mobilization.	\$1631.32
		Installation	Quantity 1.00 x Unit Price \$1,199.59 x Factor 1.3599 = Total \$1,631.32	
27	34 71 13 26-0006	LF	Corrugated Beam Guide Railing	\$347.11
		Installation	Quantity 25.00 x Unit Price \$10.21 x Factor 1.3599 = Total \$347.11	
		User Note: New Guard Rail to replace damaged sections		
28	34 71 13 26-0028	EA	Extra Long Post for Corrugated Beam Guide Rail	\$2008.19
		Installation	Quantity 18.00 x Unit Price \$82.04 x Factor 1.3599 = Total \$2,008.19	
29	34 71 13 26-0048	LF	Removal And Storage Of Corrugated Beam Guide Railing And Post	\$3159.86
		Installation	Quantity 185.00 x Unit Price \$12.56 x Factor 1.3599 = Total \$3,159.86	
		User Note: Reset Guardrail		
30	34 71 13 26-0050	LF	Install Stored Corrugated Beam Guide Railing And Post	\$1834.03
		Installation	Quantity 185.00 x Unit Price \$7.29 x Factor 1.3599 = Total \$1,834.03	
		User Note: Reinstall Guard Rail		



Contractor's Price Proposal Detail- Category Continued..

Work Order #: 110648.00
Title Harrison Park Lane Retaining Wall

CSI Number	Mod.	UOM	Description	Line Total
Subtotal for Guard Rail:				\$8980.51
Guardrail Posts				
31	03 05 13 00-0010	CY	2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	\$69.80
		Quantity	Unit Price	
	Installation	5.90 x	\$8.70 x	Total \$69.80
			Factor 1.3599 =	
User Note: Guard Rail Post Footing				
32	03 05 13 00-0017	CY	Winter Service Or Heat, Concrete Add	\$32.58
		Quantity	Unit Price	
	Installation	5.90 x	\$4.06 x	Total \$32.58
			Factor 1.3599 =	
33	03 11 13 00-0073	LF	18" Diameter Round Fiber Tube Formwork	\$584.62
		Quantity	Unit Price	
	Installation	15.00 x	\$28.66 x	Total \$584.62
			Factor 1.3599 =	
User Note: 15 Guardrail Posts				
Subtotal for Guardrail Posts:				\$687.00
Mobilization				
34	01 71 13 00-0002	EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Includes 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.	\$740.19
		Quantity	Unit Price	
	Installation	2.00 x	\$272.15 x	Total \$740.19
			Factor 1.3599 =	
User Note: Asphalt Roller/Trench Roller				
35	01 71 13 00-0003	EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed Includes 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.	\$2070.86
		Quantity	Unit Price	
	Installation	2.00 x	\$761.40 x	Total \$2,070.86
			Factor 1.3599 =	
User Note: Excavator/BH				
Subtotal for Mobilization:				\$2811.05
MPT				



Contractor's Price Proposal Detail- Category Continued..

Work Order #: 110648.00

Title Harrison Park Lane Retaining Wall

CSI Number	Mod.	UOM	Description	Line Total
MPT				
36	01 22 20 00-0059	HR	Flagperson For Traffic Control	\$26632.28
		Installation	Quantity 272.00 x Unit Price \$72.00 x Factor 1.3599 = Total \$26,632.28	
		User Note: 2 Flaggers for Wall Removal/Installation 17 Days*8 HRS*2		
37	01 55 26 00-0022	MO	28" Cone With Reflective Collar	\$118.04
		Installation	Quantity 20.00 x Unit Price \$4.34 x Factor 1.3599 = Total \$118.04	
		User Note: 20 for 1 month		
38	01 55 26 00-0028	MO	Channelizer Drum	\$290.47
		Installation	Quantity 15.00 x Unit Price \$14.24 x Factor 1.3599 = Total \$290.47	
		User Note: 15 for 1 month		
39	01 55 26 00-0079	MO	Mesh Or Vinyl Roll-up Sign With Stand	\$456.06
		Installation	Quantity 8.00 x Unit Price \$41.92 x Factor 1.3599 = Total \$456.06	
		User Note: 8 for 1 month		
40	01 55 26 00-0113	EA	Place And Remove >250 Cones By Hand From Roadside	\$813.76
		Installation	Quantity 340.00 x Unit Price \$1.76 x Factor 1.3599 = Total \$813.76	
		User Note: 20 for 17 Days		
41	01 55 26 00-0114	EA	Place And Remove Up To 250 Panels/Channelizers By Hand From Roadside	\$1012.58
		Installation	Quantity 255.00 x Unit Price \$2.92 x Factor 1.3599 = Total \$1,012.58	
		User Note: 15 for 17 days		
42	01 55 26 00-0118	EA	Place And Remove Portable Sign And Stand From Roadside	\$283.95
		Installation	Quantity 80.00 x Unit Price \$2.61 x Factor 1.3599 = Total \$283.95	
		User Note: 4 Install for duration of work - 4 Install remove daily (4*19=76 + 4=80)		
Subtotal for MPT:				\$29607.14
Pipe				
43	33 41 16 00-0003	LF	6" Perforated Polyvinyl Chloride (PVC) Drainage Piping	\$2244.11
		Installation	Quantity 185.00 x Unit Price \$8.92 x Factor 1.3599 = Total \$2,244.11	
		User Note: Drainage behind wall not included in wall item		



Contractor's Price Proposal Detail- Category Continued..

Work Order #: 110648.00

Title Harrison Park Lane Retaining Wall

CSI Number	Mod.	UOM	Description	Line Total
Subtotal for Pipe:				\$2244.11

Retaining Wall

44	31 32 19 16-0009	SY	10 Oz/SY, 115 Mil, 250 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS)					\$1107.64
			Quantity	Unit Price	Factor		Total	
		Installation	450.00	x	\$1.81	x	1.3599	= \$1,107.64
		User Note: Fabric for leveling pad, wall, backfill and rip rap						

45	31 32 19 16-0009	0071	SY	For >250 To 500, Add																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
----	------------------	------	----	----------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

46	32 32 23 13-0014	SF	4 To 8' Height "Keystone" Type Modular Retaining Wall System				\$126039.52
			Quantity		Unit Price	Factor	Total
		Installation	1,422.39	x	\$65.16	x	
						1.3599	= \$126,039.52
		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 Pieces Random, Dumped 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
------------------------------------	--	--	--	------------------

Striping

48	32 17 23 13-0003	LF	Single 4" Wide Solid Line, Painted Reflective Pavement Striping				\$60.38
			Quantity		Unit Price	Factor	Total
		Installation	185.00	x	\$0.24	x	
						1.3599	=
							\$60.38

49	32 17 23 13-0003	0052	LF	For Up To 5,000 LF, Add																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
----	------------------	------	----	-------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Subtotal for Striping:				\$72.96
-------------------------------	--	--	--	----------------

Wall Backfill

50	31 05 16 00-0032	TON Type 4 Subbase Course (304.14M)					\$6266.70
		Quantity		Unit Price		Factor	Total
	Installation	225.12	x	\$20.47	x	1.3599 =	\$6,266.70
User Note: Retained Wall backfill							

Subtotal for Wall Backfill:				\$6266.70
------------------------------------	--	--	--	------------------

Wall Prep



Contractor's Price Proposal Detail- Category Continued..

Work Order #: 110648.00

Title Harrison Park Lane Retaining Wall

CSI Number	Mod.	UOM	Description	Line Total
Wall Prep				
51	31 05 16 00-0012	TON	Crushed Stone (Size 3) (703-0201FM)	\$782.71
		Quantity	Unit Price	Factor
Installation		25.20 x	\$22.84 x	1.3599 =
				Total
				\$782.71
User Note: 25.2 Leveling Pad (87.36 Tons Drainage included in wall Item)				
52	31 05 16 00-0012	0089	TON For >14 To 35, Add	\$78.13
		Quantity	Unit Price	Factor
Installation		25.20 x	\$2.28 x	1.3599 =
				Total
				\$78.13
Subtotal for Wall Prep:				\$860.84
Work Order Proposal Total				\$311260.13

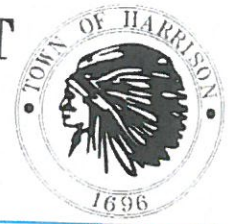
This work order proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

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



Job Order Contract

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

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.



Job Order Contract

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.	\$14807.17
		Installation	Quantity 40.50 x Unit Price \$268.85 x Factor 1.3599 = Total \$14,807.17	
User Note: Restoration area behind wall to road edge1080 SF (Binder at 4" top at 2")				

Subtotal for Asphalt Restoration:

\$14807.17

Backfill/Grading

2	31 23 16 13-0010	CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine	\$205.30
		Installation	Quantity 45.20 x Unit Price \$3.34 x Factor 1.3599 = Total \$205.30	
User Note: 25.2 Cy at Wall Footing, 20 CY under asphalt pavement				

3	31 23 16 13-0010	0049	CY For >20 To 50, Add	\$102.65
		Installation	Quantity 45.20 x Unit Price \$1.67 x Factor 1.3599 = Total \$102.65	

4	31 23 16 13-0013	CY	Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera	\$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 Excavation by Machine	\$243.71
		Installation	Quantity 314.40 x Unit Price \$0.57 x Factor 1.3599 = Total \$243.70	
User Note: Front of Wall/Behind Wall at Road Level				

6	31 25 14 16-0003	SY	S75 Single Net Erosion Control BlanketStraw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.	\$467.93
		Installation	Quantity 194.40 x Unit Price \$1.77 x Factor 1.3599 = Total \$467.93	
User Note: Front of Wall				

Subtotal for Backfill/Grading:

\$1460.93

Barriers



Contractor's Price Proposal Detail- Category Continued..

Work Order #: 110648.00

Title Harrison Park Lane Retaining Wall

CSI Number	Mod.	UOM	Description	Line Total
Barriers				
7	01 22 20 00-0015	HR	LaborerFor tasks not included in the Construction Task Catalog® and as directed by owner only.	\$4494.74
		Installation	Quantity 40.00 x Unit Price \$82.63 x Factor 1.3599 = Total \$4,494.74	
		User Note: 2 laborers 2 days to load and unload barriers- 5 day for Rip Rap Placement		
8	01 22 20 00-0015	0002 HR	For Foreman, Add	\$112.33
		Installation	Quantity 20.00 x Unit Price \$4.13 x Factor 1.3599 = Total \$112.33	
9	01 22 20 00-0059	HR	Flagperson For Traffic Control	\$3133.21
		Installation	Quantity 32.00 x Unit Price \$72.00 x Factor 1.3599 = Total \$3,133.21	
		User Note: 2 Flaggers for Barrier Install/Removal		
10	01 22 23 00-0312	DAY	2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	\$6201.21
		Installation	Quantity 2.50 x Unit Price \$1,824.02 x Factor 1.3599 = Total \$6,201.21	
		User Note: load and unload barrier from lowbed trailer + 4HRS for Rip Rap Placement		
11	01 55 26 00-0052	MO	Type B Flasher (High Intensity)	\$710.41
		Installation	Quantity 20.00 x Unit Price \$26.12 x Factor 1.3599 = Total \$710.41	
		User Note: 2 per barriers, 20*4=		
12	01 55 26 00-0065	MO	>12.5' To 20' Concrete Traffic Barrier	\$2175.70
		Installation	Quantity 10.00 x Unit Price \$159.99 x Factor 1.3599 = Total \$2,175.70	
		User Note: 10 pieces (20ft) *4 week		
13	01 55 26 00-0107	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.	\$1813.97
		Installation	Quantity 10.00 x Unit Price \$133.39 x Factor 1.3599 = Total \$1,813.97	
		User Note: 10 Barriers		
14	01 55 26 00-0120	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.	\$9071.21
		Installation	Quantity 150.00 x Unit Price \$44.47 x Factor 1.3599 = Total \$9,071.21	
		User Note: 10 EA*15		

Subtotal for Barriers:

\$27712.78



Contractor's Price Proposal Detail- Category Continued..

Work Order #: 110648.00
Title Harrison Park Lane Retaining Wall

CSI Number	Mod.	UOM	Description	Line Total
------------	------	-----	-------------	------------

Clearing/Grubbing

15	01 74 19 00-0031	CY	Trees, Stumps And Brush, Landfill Dump Fee	\$10892.93
		Quantity	Unit Price	Factor
		77.70	\$103.09	1.3599
		x	x	=
				Total
				\$10,892.93

User Note: Excavation for retaining wall, 175' x 5' x 2'

16	01 74 19 00-0036	CYM	Hauling On Paved Roads, Miles Over Initial 15 Miles	\$426.04
		Quantity	Unit Price	Factor
		489.51	\$0.64	1.3599
		x	x	=
				Total
				\$426.04

User Note: Moriority=21.3-15=6.3 Miles*77.7=489.51

17	31 13 13 00-0004	EA	>12" To 24" D.B.H. (Diameter At Breast Height) Tree RemovalIncludes cutting up tree, chipping and loading.	\$2900.91
		Quantity	Unit Price	Factor
		2.00	\$1,066.59	1.3599
		x	x	=
				Total
				\$2,900.91

User Note: Clear Area for new Wall

18	31 13 13 00-0010	EA	>6" To 12" Diameter Stump RemovalIncludes excavation necessary to remove stump and loading.	\$1838.80
		Quantity	Unit Price	Factor
		8.00	\$169.02	1.3599
		x	x	=
				Total
				\$1,838.80

User Note: Clearing Area for New Wall

Subtotal for Clearing/Grubbing: \$16058.68

Excavation

19	01 74 19 00-0032	CY	Mixed Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee	\$28320.18
		Quantity	Unit Price	Factor
		303.00	\$68.73	1.3599
		x	x	=
				Total
				\$28,320.18

User Note: Excavation for retaining wall/Drainage stone/Structural Fill (Fill=238 Stone Wall=65)

20	01 74 19 00-0035	CYM	Hauling On Paved Roads, First 15 Miles	\$5457.01
		Quantity	Unit Price	Factor
		4,180.00	\$0.96	1.3599
		x	x	=
				Total
				\$5,457.01

User Note: Thalle 11 miles * 380 CY= 4180

Subtotal for Excavation: \$33777.19

Excavation/Demo

21	02 41 13 13-0020	SY	>3" To 6" By Machine, Break-up And Remove Bituminous Paving	\$2571.84
		Quantity	Unit Price	Factor
		120.00	\$15.76	1.3599
		x	x	=
				Total
				\$2,571.84

User Note: Asphalt removal between wall and guardrail



Contractor's Price Proposal Detail- Category Continued..

Work Order #: 110648.00
Title Harrison Park Lane Retaining Wall

CSI Number	Mod.	UOM	Description	Line Total
Excavation/Demo				
22	02 41 16 13-0058	CF	Stone Footing Or Foundation Wall Demolition	\$30628.35
		Quantity	Unit Price	Factor
		1,706.25	\$13.20	1.3599
		x	x	=
				Total
				\$30,628.35
		User Note: Wall demo/removal		
23	02 41 19 13-0015	EA	Saw Cut Minimum ChargeFor projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	\$1114.41
		Quantity	Unit Price	Factor
		1.00	\$819.48	1.3599
		x	x	=
				Total
				\$1,114.41
		User Note: Saw Cut Pavement		
24	31 23 16 13-0003	CY	Over 12" Wide, Excavation for Trenching by Machine in Soil	\$1903.10
		Quantity	Unit Price	Factor
		238.00	\$5.88	1.3599
		x	x	=
				Total
				\$1,903.10
		User Note: behind existing stone wall		
25	31 23 16 13-0003	0045	CY For >50 To 250, Add	\$475.77
		Quantity	Unit Price	Factor
		238.00	\$1.47	1.3599
		x	x	=
				Total
				\$475.77
Subtotal for Excavation/Demo:				\$36693.47
Guard Rail				
26	34 71 13 26-0002	EA	Mobilize Guide Rail CrewExcludes equipment mobilization.	\$1631.32
		Quantity	Unit Price	Factor
		1.00	\$1,199.59	1.3599
		x	x	=
				Total
				\$1,631.32
27	34 71 13 26-0006	LF	Corrugated Beam Guide Railing	\$347.11
		Quantity	Unit Price	Factor
		25.00	\$10.21	1.3599
		x	x	=
				Total
				\$347.11
		User Note: New Guard Rail to replace damaged sections		
28	34 71 13 26-0028	EA	Extra Long Post for Corrugated Beam Guide Rail	\$2008.19
		Quantity	Unit Price	Factor
		18.00	\$82.04	1.3599
		x	x	=
				Total
				\$2,008.19
29	34 71 13 26-0048	LF	Removal And Storage Of Corrugated Beam Guide Railing And Post	\$3159.86
		Quantity	Unit Price	Factor
		185.00	\$12.56	1.3599
		x	x	=
				Total
				\$3,159.86
		User Note: Reset Guardrail		
30	34 71 13 26-0050	LF	Install Stored Corrugated Beam Guide Railing And Post	\$1834.03
		Quantity	Unit Price	Factor
		185.00	\$7.29	1.3599
		x	x	=
				Total
				\$1,834.03
		User Note: Reinstall Guard Rail		



Contractor's Price Proposal Detail- Category Continued..

Work Order #: 110648.00
Title Harrison Park Lane Retaining Wall

CSI Number	Mod.	UOM	Description	Line Total
Subtotal for Guard Rail:				\$8980.51

Guardrail Posts

31	03 05 13 00-0010	CY	2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	\$69.80
----	------------------	----	---	---------

Quantity	Unit Price	Factor	Total
Installation 5.90 x	\$8.70 x	1.3599 =	\$69.80

User Note: Guard Rail Post Footing

32	03 05 13 00-0017	CY	Winter Service Or Heat, Concrete Add	\$32.58
----	------------------	----	--------------------------------------	---------

Quantity	Unit Price	Factor	Total
Installation 5.90 x	\$4.06 x	1.3599 =	\$32.58

33	03 11 13 00-0073	LF	18" Diameter Round Fiber Tube Formwork	\$584.62
----	------------------	----	--	----------

Quantity	Unit Price	Factor	Total
Installation 15.00 x	\$28.66 x	1.3599 =	\$584.62

User Note: 15 Guardrail Posts

Subtotal for Guardrail Posts:				\$687.00
--------------------------------------	--	--	--	-----------------

Mobilization

34	01 71 13 00-0002	EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck Includes 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.	\$740.19
----	------------------	----	--	----------

Quantity	Unit Price	Factor	Total
Installation 2.00 x	\$272.15 x	1.3599 =	\$740.19

User Note: Asphalt Roller/Trench Roller

35	01 71 13 00-0003	EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed Includes 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.	\$2070.86
----	------------------	----	--	-----------

Quantity	Unit Price	Factor	Total
Installation 2.00 x	\$761.40 x	1.3599 =	\$2,070.86

User Note: Excavator/BH

Subtotal for Mobilization:				\$2811.05
-----------------------------------	--	--	--	------------------

MPT



Contractor's Price Proposal Detail- Category Continued..

Work Order #: 110648.00
Title Harrison Park Lane Retaining Wall

CSI Number	Mod.	UOM	Description					Line Total
MPT								
36	01 22 20 00-0059	HR	Flagperson For Traffic Control					\$26632.28
			Quantity	Unit Price	Factor	Total		
		Installation	272.00 x	\$72.00 x	1.3599 =	\$26,632.28		
User Note: 2 Flaggers for Wall Removal/Installation 17 Days*8 HRS*2								
37	01 55 26 00-0022	MO	28" Cone With Reflective Collar					\$118.04
			Quantity	Unit Price	Factor	Total		
		Installation	20.00 x	\$4.34 x	1.3599 =	\$118.04		
User Note: 20 for 1 month								
38	01 55 26 00-0028	MO	Channelizer Drum					\$290.47
			Quantity	Unit Price	Factor	Total		
		Installation	15.00 x	\$14.24 x	1.3599 =	\$290.47		
User Note: 15 for 1 month								
39	01 55 26 00-0079	MO	Mesh Or Vinyl Roll-up Sign With Stand					\$456.06
			Quantity	Unit Price	Factor	Total		
		Installation	8.00 x	\$41.92 x	1.3599 =	\$456.06		
User Note: 8 for 1 month								
40	01 55 26 00-0113	EA	Place And Remove >250 Cones By Hand From Roadside					\$813.76
			Quantity	Unit Price	Factor	Total		
		Installation	340.00 x	\$1.76 x	1.3599 =	\$813.76		
User Note: 20 for 17 Days								
41	01 55 26 00-0114	EA	Place And Remove Up To 250 Panels/Channelizers By Hand From Roadside					\$1012.58
			Quantity	Unit Price	Factor	Total		
		Installation	255.00 x	\$2.92 x	1.3599 =	\$1,012.58		
User Note: 15 for 17 days								
42	01 55 26 00-0118	EA	Place And Remove Portable Sign And Stand From Roadside					\$283.95
			Quantity	Unit Price	Factor	Total		
		Installation	80.00 x	\$2.61 x	1.3599 =	\$283.95		
User Note: 4 Install for duration of work - 4 Install remove daily (4*19=76 + 4=80)								
Subtotal for MPT:								\$29607.14
Pipe								
43	33 41 16 00-0003	LF	6" Perforated Polyvinyl Chloride (PVC) Drainage Piping					\$2244.11
			Quantity	Unit Price	Factor	Total		
		Installation	185.00 x	\$8.92 x	1.3599 =	\$2,244.11		
User Note: Drainage behind wall not included in wall item								



Contractor's Price Proposal Detail- Category Continued..

Work Order #: 110648.00

Title Harrison Park Lane Retaining Wall

CSI Number	Mod.	UOM	Description	Line Total
Subtotal for Pipe:				\$2244.11

Retaining Wall

44	31 32 19 16-0009		SY	10 Oz/SY, 115 Mil, 250 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS)						\$1107.64
				Quantity	Unit Price	Factor			Total	
			Installation	450.00	\$1.81	x	1.3599	=	\$1,107.64	
User Note: Fabric for leveling pad, wall, backfill and rip rap										

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	x	1.3599	=	\$61.20	

46	32 32 23 13-0014		SF	4 To 8' Height "Keystone" Type Modular Retaining Wall System						\$126039.52
				Quantity	Unit Price	Factor			Total	
			Installation	1,422.39	\$65.16	x	1.3599	=	\$126,039.52	
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 Pieces Random, Dumped From Truck, Rip Rap						\$2011.24
				Quantity	Unit Price	Factor			Total	
			Installation	38.00	\$38.92	x	1.3599	=	\$2,011.24	

Subtotal for Rip Rap Apron:										\$2011.24
------------------------------------	--	--	--	--	--	--	--	--	--	------------------

Striping

48	32 17 23 13-0003		LF	Single 4" Wide Solid Line, Painted Reflective Pavement Striping						\$60.38
				Quantity	Unit Price	Factor			Total	
			Installation	185.00	\$0.24	x	1.3599	=	\$60.38	

49	32 17 23 13-0003	0052	LF	For Up To 5,000 LF, Add						\$12.58
				Quantity	Unit Price	Factor			Total	
			Installation	185.00	\$0.05	x	1.3599	=	\$12.58	

Subtotal for Striping:										\$72.96
-------------------------------	--	--	--	--	--	--	--	--	--	----------------

Wall Backfill

50	31 05 16 00-0032		TON	Type 4 Subbase Course (304.14M)						\$6266.70
				Quantity	Unit Price	Factor			Total	
			Installation	225.12	\$20.47	x	1.3599	=	\$6,266.70	
User Note: Retained Wall backfill										

Subtotal for Wall Backfill:										\$6266.70
------------------------------------	--	--	--	--	--	--	--	--	--	------------------

Wall Prep



Contractor's Price Proposal Detail- Category Continued..

Work Order #: 110648.00

Title Harrison Park Lane Retaining Wall

CSI Number	Mod.	UOM	Description	Line Total
Wall Prep				
51	31 05 16 00-0012	TON	Crushed Stone (Size 3) (703-0201FM)	\$782.71
Installation				
Quantity 25.20 x Unit Price \$22.84 x Factor 1.3599 = Total \$782.71				
User Note: 25.2 Leveling Pad (87.36 Tons Drainage included in wall Item)				
52	31 05 16 00-0012	0089 TON	For >14 To 35, Add	\$78.13
Installation				
Quantity 25.20 x Unit Price \$2.28 x Factor 1.3599 = Total \$78.13				
Subtotal for Wall Prep:				\$860.84
Work Order Proposal Total				\$311260.13

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%