

Agenda Item is over 50 pages and  
can be reviewed in the Minutes Dept.

Agenda Item #: 3-C-3

PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS  
AGENDA ITEM SUMMARY

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Meeting Date: February 11, 2020 [X] Consent [ ] Regular  
[ ] Workshop [ ] Public Hearing

Department: Engineering & Public Works  
Submitted By: Engineering & Public Works  
Submitted For: Roadway Production Division

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EXECUTIVE BRIEF

**Motion and Title:** Staff recommends motion to approve: an annual guardrail contract with Southeast Highway Guardrail & Attenuators, LLC (Southeast) in an amount not to exceed \$1,245,000.

**SUMMARY:** Approval of this contract will provide for construction of guardrail on an as needed basis. A waiver of affirmative procurement initiatives was approved by the Office of Equal Business Opportunity on April 23, 2019. The waiver was granted based upon the determination that sufficient qualified Small Minority Women Business Enterprises providing the goods or services required by the contract are unavailable in Palm Beach County despite every reasonable attempt to locate them. Southeast is a Palm Beach County based company. The SBE percentage proposed by the vendor was zero (0%). This contract will be in effect for 12 months from the date of approval by the Board of County Commissioners and may be extended for a defined period of time, not to exceed 36 months total contract time. Countywide (YBH)

**Background and Justification:** Bids were received by the Engineering Department on October 1, 2019. The above contract amount is based on the estimated amount to be expended for guardrail construction projects throughout Palm Beach County over a 12-month period.

**Attachments:**

1. Southeast Highway Guardrails Attenuators, LLC Contract (3)
  2. EBO Waiver Letter
  3. Bid Tabulation
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*Mult*  
*Out MR*  
Recommended by:

  
\_\_\_\_\_  
County Engineer

\_\_\_\_\_  
Date

Approved By:

  
\_\_\_\_\_  
Assistant County Administrator

*1/23/20*  
\_\_\_\_\_  
Date

**II. FISCAL IMPACT ANALYSIS**

**A. Five Year Summary of Fiscal Impact:**

Fiscal Years	2020	2021	2022	2023	2024
Capital Expenditures	\$1,245,000	-0-	-0-	-0-	-0-
Operating Costs	-0-	-0-	-0-	-0-	-0-
External Revenues	-0-	-0-	-0-	-0-	-0-
Program Income (County)	-0-	-0-	-0-	-0-	-0-
In-Kind Match (County)	-0-	-0-	-0-	-0-	-0-
<b>NET FISCAL IMPACT</b>	<b>\$1,245,000</b>	<b>-0-</b>	<b>-0-</b>	<b>-0-</b>	<b>-0-</b>
# ADDITIONAL FTE					
POSITIONS (Cumulative)					

Is Item Included in Current Budget? Yes No  
 Does this item include the use of federal funds? Yes No X

Budget Account No:  
 Fund Dept Unit Object

**Recommended Sources of Funds/Summary of Fiscal Impact:**

User Dept/Division	Budget Amounts
Engineering	\$ 1,125,000
Airports	\$ 100,000
Parks & Recreation	\$ 10,000
Fire Rescue	\$ 5,000
Water Utilities	\$ 5,000
Total	\$ 1,245,000

Allocations to the various departments are a not to exceed amount and can be expended from various lines for various projects where budget is available. Work will be performed on a task order basis. \*\*Total fiscal impact will not exceed \$ 1,245,000.00

C. Departmental Fiscal Review: *Alice Kovalainen*

**III. REVIEW COMMENTS**

**A. OFMB Fiscal and/or Contract Dev. and Control Comments:**

*[Signature]* 1/15/2020  
 OFMB 1/15/2020

*[Signature]* 1/22/2020  
 Contract Dev. and Control 1/22/2020

**B. Approved as to Form and Legal Sufficiency:**

*[Signature]* 1/23/2020  
 Assistant County Attorney

**C. Other Department Review:**

\_\_\_\_\_  
 Department Director

This summary is not to be used as a basis for payment.



INTER-OFFICE MEMORANDUM

Office of  
Equal Business Opportunity  
50 South Military Trail, Suite 202  
West Palm Beach, FL 33415  
(561) 616-6840  
www.pbcgov.com/oebo

Date: Tuesday, April 23, 2019  
To: David Ricks, County Engineer  
Engineering and Public Works  
From: Tonya Davis Johnson, Director *[Signature]*  
Office of Equal Business Opportunity  
Re: Approval of Request for Waiver of API Requirements for  
Annual Guardrail Construction Contract Palm Beach County  
Project #2020052



Palm Beach County  
Board of County  
Commissioners

- Mack Bernard, Mayor
- Dave Kerner, Vice Mayor
- Hal R. Valeche
- Gregg K. Weiss
- Robert S. Weinroth
- Mary Lou Berger
- Melissa McKinlay

County Administrator

Verdenia C. Baker

Your Request for Waiver of API Requirements for the above named goods and services was received on Tuesday, April 23, 2019 and has been reviewed. It is the determination of the Office of Equal Business Opportunity (OEBO) that the request for Waiver of API Requirements is **APPROVED**.

The OEBO is granting this waiver based upon the determination that sufficient qualified S/M/WBEs providing the goods or services required by the contract are unavailable in Palm Beach County despite every reasonable attempt to locate them.

If you have any questions, please contact Allen Gray at 561-616-6842 or email at [agrav@pcgov.org](mailto:agrav@pcgov.org).

Thank you.

cc: Allen Gray, Manager

"An Equal Opportunity  
Affirmative Action Employer"



BID OPENING OCTOBER 1, 2019				AVERAGE OF BID ITEMS FOR ALL BIDDERS	ENGINEERS ESTIMATE	SOUTHEAST HIGHWAY GUARDRAIL & ATTENUATORS, LLC		C. SLAGTER CONSTRUCTION, INC.			
ANNUAL GUARDRAIL CONTRACT						UNIT PRICE	UNIT PRICE	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
PALM BEACH COUNTY PROJECT #2020052											
ITEM #		QTY	UNITS								
1	Emergency Response, Less Than 6 Hours	5	EA	\$ 50.13	\$ 500.00	\$ 0.25	\$ 1.25	\$ 100.00	\$ 500.00		
2	Emergency Response, 6 Hours to 24 Hours	10	EA	\$ 50.13	\$ 250.00	\$ 0.25	\$ 2.50	\$ 100.00	\$ 1,000.00		
3	Emergency Response, 24 Hours to 72 Hours	12	EA	\$ 25.13	\$ 100.00	\$ 0.25	\$ 3.00	\$ 50.00	\$ 600.00		
4	Removal & Disposal of "Old" GuardRail	9,000	LF	\$ 0.81	\$ 2.00	\$ 0.01	\$ 90.00	\$ 1.60	\$ 14,400.00		
5	Removal & Disposal "Old" GuardRail, w/Concrete PostS	20	LF	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.20	\$ 1.00	\$ 20.00		
6	Removal & Disposal of Anchorage Assemblies	75	EA	\$ 2.51	\$ 10.00	\$ 0.01	\$ 0.75	\$ 5.00	\$ 375.00		
7	Removal & Disposal of Safety Pipe Rail	350	LF	\$ 0.13	\$ 0.25	\$ 0.01	\$ 3.50	\$ 0.25	\$ 87.50		
8	Remove and Deliver Used GuardRail to Road & Bridge Warehouse	75	LF	\$ 1.18	\$ 0.50	\$ 1.35	\$ 101.25	\$ 1.00	\$ 75.00		
9	Installation of Used GuardRail	25	LF	\$ 13.48	\$ 16.00	\$ 14.95	\$ 373.75	\$ 12.00	\$ 300.00		
10	Reset GuardRail	12,500	LF	\$ 2.01	\$ 4.00	\$ 0.01	\$ 125.00	\$ 4.01	\$ 50,125.00		
11	Misc. Asphalt	1	TN	\$ 372.12	\$ 600.00	\$ 144.23	\$ 144.23	\$ 600.00	\$ 600.00		
12	Surcharge to Reset GuardRail Post on Base Plate	5	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.05	\$ 1.00	\$ 5.00		
13	Raise and Reset Existing GuardRail (Posts and Panels)	25	LF	\$ 11.23	\$ 13.00	\$ 13.95	\$ 348.75	\$ 8.50	\$ 212.50		
14	Reset Anchorage Assembly, Type SKT 350	2	EA	\$ 260.00	\$ 1,500.00	\$ 500.00	\$ 1,000.00	\$ 20.00	\$ 40.00		
***** FURNISH AND INSTALL, COMPLETE ITEMS 15-105 (SEE NOTE 5) *****									\$ -		
15	Anchorage Assembly, Type II, Cable Anchor Option	2	EA	\$ 1,100.00	\$ 1,500.00	\$ 800.00	\$ 1,600.00	\$ 1,400.00	\$ 2,800.00		
16	Anchorage Assembly, Type MELT	7	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.07	\$ 1.00	\$ 7.00		
17	Anchorage Assembly, Type LET	8	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.08	\$ 1.00	\$ 8.00		
18	Anchorage Assembly, Type SKT 350	3	EA	\$ 3,750.00	\$ 3,600.00	\$ 4,000.00	\$ 12,000.00	\$ 3,500.00	\$ 10,500.00		
19	Anchorage Assembly, Type SRT-350	5	EA	\$ 2,900.00	\$ 3,600.00	\$ 2,300.00	\$ 11,500.00	\$ 3,500.00	\$ 17,500.00		
20	Anchor Panel, for Type II	8	EA	\$ 95.00	\$ 100.00	\$ 100.00	\$ 800.00	\$ 90.00	\$ 720.00		
21	Anchor Panel, for Type MELT	4	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.04	\$ 1.00	\$ 4.00		
22	Anchor Panel, for Type LET	2	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.02	\$ 1.00	\$ 2.00		
23	Anchor Panel, for Type SKT 350	12	EA	\$ 270.00	\$ 300.00	\$ 250.00	\$ 3,000.00	\$ 290.00	\$ 3,480.00		
24	Type MELT Buffered End (w/Diaphragms)	4	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.04	\$ 1.00	\$ 4.00		
25	Cable w/Hardware, for Type MELT	3	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.03	\$ 1.00	\$ 3.00		
26	Type SKT 350 Extruder Head	8	EA	\$ 870.00	\$ 1,500.00	\$ 750.00	\$ 6,000.00	\$ 990.00	\$ 7,920.00		
27	Short Post in Sleeve for Types SKT 350 and MELT	15	EA	\$ 61.00	\$ 100.00	\$ 22.00	\$ 330.00	\$ 100.00	\$ 1,500.00		
28	Block, Concrete, Special, AT Bridge	2	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.02	\$ 1.00	\$ 2.00		
29	Block, Offset Utility (Double BlockinG)	5	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.05	\$ 1.00	\$ 5.00		
30	Block, Wood, w/Hardware	200	EA	\$ 10.50	\$ 15.00	\$ 8.00	\$ 1,600.00	\$ 13.00	\$ 2,600.00		
31	Block, Recycled Plastic, w/GuardRail Bolt	70	EA	\$ 23.50	\$ 25.00	\$ 23.00	\$ 1,610.00	\$ 24.00	\$ 1,680.00		
32	End Section, Buffer	3	EA	\$ 350.00	\$ 400.00	\$ 400.00	\$ 1,200.00	\$ 300.00	\$ 900.00		
33	End Section, Flared	10	EA	\$ 34.50	\$ 20.00	\$ 19.00	\$ 190.00	\$ 50.00	\$ 500.00		

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BID OPENING OCTOBER 1, 2019				AVERAGE OF BID ITEMS FOR ALL BIDDERS	ENGINEERS ESTIMATE	SOUTHEAST HIGHWAY GUARDRAIL & ATTENUATORS, LLC		C. SLAGTER CONSTRUCTION, INC.			
ANNUAL GUARDRAIL CONTRACT						UNIT PRICE	UNIT PRICE	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
PALM BEACH COUNTY PROJECT #2020052											
34	End Section, Parallel	10	EA	\$ 25.01	\$ 20.00	\$ 0.01	\$ 0.10	\$ 50.00	\$ 500.00		
35	End Section, CRT	10	EA	\$ 25.01	\$ 20.00	\$ 0.01	\$ 0.10	\$ 50.00	\$ 500.00		
36	End Section, Rounded	40	EA	\$ 32.50	\$ 25.00	\$ 15.00	\$ 600.00	\$ 50.00	\$ 2,000.00		
37	End Shoe, Special (Bridge Attachment Piece)	4	EA	\$ 22.50	\$ 15.00	\$ 25.00	\$ 100.00	\$ 20.00	\$ 80.00		
38	Drill Holes for End Shoe Attachment	100	EA	\$ 0.51	\$ 0.50	\$ 0.01	\$ 1.00	\$ 1.00	\$ 100.00		
39	GuardRail, Steel Beam, Double Face	25	LF	\$ 8.00	\$ 4.00	\$ 15.00	\$ 375.00	\$ 1.00	\$ 25.00		
40	GuardRail, Steel Beam, Straight Panel Only (No Post or Hardware)	2,250	LF	\$ 14.75	\$ 18.00	\$ 12.50	\$ 28,125.00	\$ 17.00	\$ 38,250.00		
41	GuardRail, Steel Beam, Shop Bent Panel Only (No Post or Hardware)	200	LF	\$ 8.50	\$ 9.00	\$ 8.00	\$ 1,600.00	\$ 9.00	\$ 1,800.00		
42	GuardRail, Steel Beam, Straight, Jobs Up Through 37' 6"	1,250	LF	\$ 16.38	\$ 19.00	\$ 15.75	\$ 19,687.50	\$ 17.00	\$ 21,250.00		
43	GuardRail, Steel Beam, Straight, Jobs of 37' 7" - 62' 6"	800	LF	\$ 16.38	\$ 20.00	\$ 15.75	\$ 12,600.00	\$ 17.00	\$ 13,600.00		
44	GuardRail, Steel Beam, Straight, Jobs of 62' 7" - 100' 0"	550	LF	\$ 16.38	\$ 20.00	\$ 15.75	\$ 8,662.50	\$ 17.00	\$ 9,350.00		
45	GuardRail, Steel Beam, Straight, Jobs of 100' 1" - 500' 0"	650	LF	\$ 16.38	\$ 20.00	\$ 15.75	\$ 10,237.50	\$ 17.00	\$ 11,050.00		
46	GuardRail, Steel Beam, Straight, Jobs Over 500'	2,000	LF	\$ 17.00	\$ 20.00	\$ 17.00	\$ 34,000.00	\$ 17.00	\$ 34,000.00		
47	GuardRail, Steel Beam, Straight, w/9' Posts	25	LF	\$ 7.00	\$ 1.00	\$ 13.00	\$ 325.00	\$ 1.00	\$ 25.00		
48	GuardRail, Steel Beam, Shop Bent, Jobs Up Through 37' 6"	350	LF	\$ 12.00	\$ 13.00	\$ 12.00	\$ 4,200.00	\$ 12.00	\$ 4,200.00		
49	GuardRail, Steel Beam, Shop Bent, Jobs of 37' 7" - 62' 6"	150	LF	\$ 4.50	\$ 8.00	\$ 1.00	\$ 150.00	\$ 8.00	\$ 1,200.00		
50	GuardRail, Steel Beam, Shop Bent, Jobs of 62' 7" - 100' 0"	125	LF	\$ 1.50	\$ 4.00	\$ 1.00	\$ 125.00	\$ 2.00	\$ 250.00		
51	GuardRail, Steel Beam, Shop Bent, Jobs of 100' 1" - 500' 0"	113	LF	\$ 1.50	\$ 4.00	\$ 1.00	\$ 113.00	\$ 2.00	\$ 226.00		
52	GuardRail, Steel Beam, Shop Bent, w/9' PostS	25	LF	\$ 1.50	\$ 3.00	\$ 1.00	\$ 25.00	\$ 2.00	\$ 50.00		
53	5 Degree Radius Shop Bent GuardRail (6-1/4')	31	LF	\$ 1.50	\$ 3.00	\$ 1.00	\$ 31.00	\$ 2.00	\$ 62.00		
54	Transition Panel, QUAD Beam to W Beam, Narrow	2	EA	\$ 15.01	\$ 25.00	\$ 0.01	\$ 0.02	\$ 30.00	\$ 60.00		
55	Transition Panel, QUAD Beam to W Beam, Medium	2	EA	\$ 15.01	\$ 25.00	\$ 0.01	\$ 0.02	\$ 30.00	\$ 60.00		
56	Transition Panel, QUAD Beam to W Beam, Wide	2	EA	\$ 15.01	\$ 25.00	\$ 0.01	\$ 0.02	\$ 30.00	\$ 60.00		
57	Post, GuardRail, Steel, Standard	70	EA	\$ 97.00	\$ 150.00	\$ 99.00	\$ 6,930.00	\$ 95.00	\$ 6,650.00		
58	Post, GuardRail, Steel, 9'	3	EA	\$ 45.00	\$ 35.00	\$ 65.00	\$ 195.00	\$ 25.00	\$ 75.00		
59	Post, GuardRail, Wood (Treated Timber), Standard	18	EA	\$ 56.50	\$ 100.00	\$ 33.00	\$ 594.00	\$ 80.00	\$ 1,440.00		
60	Post, GuardRail, Encased, Steel	3	EA	\$ 37.51	\$ 150.00	\$ 0.01	\$ 0.03	\$ 75.00	\$ 225.00		
61	Post, GuardRail, Encased, Wood	3	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.03	\$ 1.00	\$ 3.00		
62	Post, GuardRail, Steel, Special, w/Plate	5	EA	\$ 175.00	\$ 150.00	\$ 200.00	\$ 1,000.00	\$ 150.00	\$ 750.00		
63	Post, GuardRail, CRT	15	EA	\$ 106.00	\$ 200.00	\$ 22.00	\$ 330.00	\$ 190.00	\$ 2,850.00		
64	Rail, Safety Pipe, Special	225	LF	\$ 11.00	\$ 12.00	\$ 10.00	\$ 2,250.00	\$ 12.00	\$ 2,700.00		
65	Round-Off Top of Wooden GuardRail Post and Block (All Sides)	25	EA	\$ 0.51	\$ 0.25	\$ 0.01	\$ 0.25	\$ 1.00	\$ 25.00		
66	Controlled Release Terminal, 8' Radius	2	EA	\$ 1,408.00	\$ 3,000.00	\$ 616.00	\$ 1,232.00	\$ 2,200.00	\$ 4,400.00		
67	Controlled Release Terminal, 16' Radius	1	EA	\$ 1,400.00	\$ 1,000.00	\$ 1,800.00	\$ 1,800.00	\$ 1,000.00	\$ 1,000.00		
68	Controlled Release Terminal, 24' Radius	2	EA	\$ 836.50	\$ 800.00	\$ 873.00	\$ 1,746.00	\$ 800.00	\$ 1,600.00		

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BID OPENING OCTOBER 1, 2019				AVERAGE OF BID ITEMS FOR ALL BIDDERS	ENGINEERS ESTIMATE	SOUTHEAST HIGHWAY GUARDRAIL & ATTENUATORS, LLC		C. SLAGTER CONSTRUCTION, INC.			
ANNUAL GUARDRAIL CONTRACT						UNIT PRICE	UNIT PRICE	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
PALM BEACH COUNTY PROJECT #2020052											
69	Controlled Release Terminal, 32' Radius	2	EA	\$ 815.00	\$ 600.00	\$ 1,030.00	\$ 2,060.00	\$ 600.00	\$ 1,200.00		
<b>THRIE Beam</b>											
70	THRIE Beam Terminal Connector	3	EA	\$ 7.50	\$ 10.00	\$ 5.00	\$ 15.00	\$ 10.00	\$ 30.00		
71	THRIE Beam Bridge Connector Complete (Detail J)	8	EA	\$ 1,800.00	\$ 3,000.00	\$ 600.00	\$ 4,800.00	\$ 3,000.00	\$ 24,000.00		
72	12" x 12" x 1/4" Back Up Plate	2	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.02	\$ 1.00	\$ 2.00		
73	8" x 8" x 5/8" Filler Plate	5	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.05	\$ 1.00	\$ 5.00		
74	21" x 21" x 5/8" Back Up Plate	5	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.05	\$ 1.00	\$ 5.00		
75	THRIE Beam, Straight Panel Complete (w/ Post, Block & Hardware)	20	LF	\$ 14.50	\$ 16.00	\$ 15.00	\$ 300.00	\$ 14.00	\$ 280.00		
76	THRIE Beam, Shop Bent Panel Complete (w/ Post, Block & Hardware)	85	LF	\$ 22.00	\$ 28.00	\$ 19.00	\$ 1,615.00	\$ 25.00	\$ 2,125.00		
77	THRIE Beam, Straight Panel (Panel Only)	125	LF	\$ 11.25	\$ 12.00	\$ 10.50	\$ 1,312.50	\$ 12.00	\$ 1,500.00		
78	THRIE Beam, Shop Bent Panel (Panel Only)	5	LF	\$ 13.00	\$ 12.00	\$ 14.00	\$ 70.00	\$ 12.00	\$ 60.00		
79	6'-3" Transition Panel THRIE Beam to W-Beam	6	EA	\$ 145.00	\$ 150.00	\$ 140.00	\$ 840.00	\$ 150.00	\$ 900.00		
80	THRIE Beam Offset Block	4	EA	\$ 19.50	\$ 21.00	\$ 19.00	\$ 76.00	\$ 20.00	\$ 80.00		
<b>G-R-E-A-T System - Additional Parts</b>											
81	G-R-E-A-T System Fender Panel	2	EA	\$ 700.00	\$ 1,100.00	\$ 1,300.00	\$ 2,600.00	\$ 100.00	\$ 200.00		
82	G-R-E-A-T System Type 51 HEX-FOAM Cartridge	2	EA	\$ 600.00	\$ 1,100.00	\$ 1,100.00	\$ 2,200.00	\$ 100.00	\$ 200.00		
83	G-R-E-A-T System Diaphragm 24"	2	EA	\$ 1,050.00	\$ 100.00	\$ 2,000.00	\$ 4,000.00	\$ 100.00	\$ 200.00		
84	G-R-E-A-T System Diaphragm 30"	2	EA	\$ 50.01	\$ 100.00	\$ 0.01	\$ 0.02	\$ 100.00	\$ 200.00		
85	G-R-E-A-T System Diaphragm 36"	2	EA	\$ 50.01	\$ 100.00	\$ 0.01	\$ 0.02	\$ 100.00	\$ 200.00		
86	G-R-E-A-T System Nose Assembly	2	EA	\$ 1,100.00	\$ 1,500.00	\$ 1,200.00	\$ 2,400.00	\$ 1,000.00	\$ 2,000.00		
87	G-R-E-A-T System Concrete Backup Wall Assembly	2	EA	\$ 1.00	\$ 1.00	\$ 1.00	\$ 2.00	\$ 1.00	\$ 2.00		
88	G-R-E-A-T System Deflector Assembly for Bidirectional System	2	EA	\$ 1.00	\$ 1.00	\$ 1.00	\$ 2.00	\$ 1.00	\$ 2.00		
89	G-R-E-A-T System Tension Strut Backup Wall Assembly	2	EA	\$ 1.00	\$ 1.00	\$ 1.00	\$ 2.00	\$ 1.00	\$ 2.00		
90	G-R-E-A-T System Wide Flange Backup Wall Assembly	2	EA	\$ 1.00	\$ 1.00	\$ 1.00	\$ 2.00	\$ 1.00	\$ 2.00		
91	G-R-E-A-T System Concrete Barrier Wall Backup Assembly	2	EA	\$ 1.00	\$ 1.00	\$ 1.00	\$ 2.00	\$ 1.00	\$ 2.00		
<b>QUADGUARD Energy Absorbing System</b>											
92	QUADGUARD Energy Absorbing Sys., (3 Bay) (All Widths) (Includes Foundations)	1	EA	\$ 14,000.00	\$ 13,500.00	\$ 15,000.00	\$ 15,000.00	\$ 13,000.00	\$ 13,000.00		
93	QUADGUARD Energy Absorbing Sys., Additional Bay (All Widths) (Includes Additional Foundation Requirements)	2	EA	\$ 2,000.00	\$ 2,500.00	\$ 2,000.00	\$ 4,000.00	\$ 2,000.00	\$ 4,000.00		
<b>QUADGUARD Energy Absorbing System - Bay Replacement Parts</b>											
94	QUADGUARD Energy Absorbing Sys., Additional Cartridges (Type I)	2	EA	\$ 950.00	\$ 1,500.00	\$ 900.00	\$ 1,800.00	\$ 1,000.00	\$ 2,000.00		
95	QUADGUARD Energy Absorbing Sys., Additional Cartridges (Type II)	1	EA	\$ 950.00	\$ 1,500.00	\$ 900.00	\$ 900.00	\$ 1,000.00	\$ 1,000.00		
96	QUADGUARD Energy Absorbing Sys., Backup Assy., Concrete 24"	2	EA	\$ 1.00	\$ 1.00	\$ 1.00	\$ 2.00	\$ 1.00	\$ 2.00		
97	QUADGUARD Energy Absorbing Sys., Backup Assy., Tension Strut 24"	2	EA	\$ 2,650.00	\$ 2,800.00	\$ 3,100.00	\$ 6,200.00	\$ 2,200.00	\$ 4,400.00		

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BID OPENING OCTOBER 1, 2019					AVERAGE OF BID ITEMS FOR ALL BIDDERS	ENGINEERS ESTIMATE	SOUTHEAST HIGHWAY GUARDRAIL & ATTENUATORS, LLC		C. SLAGTER CONSTRUCTION, INC.			
ANNUAL GUARDRAIL CONTRACT							UNIT PRICE	UNIT PRICE	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
PALM BEACH COUNTY PROJECT #2020052												
<b>QUADGUARD Energy Absorbing System - Parts for Repair of Damaged QUADGUARD</b>												
98	QUADGUARD Energy Absorbing Sys., Nose Assembly, 24"/30"/36"	1	EA	\$ 700.00	\$ 1,800.00	\$ 900.00	\$ 900.00	\$ 500.00	\$ 500.00			
99	QUADGUARD Energy Absorbing Sys., Diaphragm 24"	2	EA	\$ 650.00	\$ 1,250.00	\$ 1,100.00	\$ 2,200.00	\$ 200.00	\$ 400.00			
100	QUADGUARD Energy Absorbing Sys., Diaphragm 30"	2	EA	\$ 650.00	\$ 650.00	\$ 1,200.00	\$ 2,400.00	\$ 100.00	\$ 200.00			
101	QUADGUARD Energy Absorbing Sys., Fender Panel Assembly, 24"/30"/36"	2	EA	\$ 500.00	\$ 1,500.00	\$ 800.00	\$ 1,600.00	\$ 200.00	\$ 400.00			
<b>QUADGUARD ELITE System - Bay Replacement Parts</b>												
102	QUADGUARD ELITE Fender Panel	2	EA	\$ 750.00	\$ 1,080.00	\$ 800.00	\$ 1,600.00	\$ 700.00	\$ 1,400.00			
103	QUADGUARD ELITE Diaphragm Assembly	2	EA	\$ 1,050.00	\$ 1,620.00	\$ 1,400.00	\$ 2,800.00	\$ 700.00	\$ 1,400.00			
104	QUADGUARD ELITE Nose Belt Assembly	1	EA	\$ 1,250.00	\$ 972.00	\$ 500.00	\$ 500.00	\$ 2,000.00	\$ 2,000.00			
105	QUADGUARD ELITE Cylinder Cartridge	2	EA	\$ 750.00	\$ 16.00	\$ 500.00	\$ 1,000.00	\$ 1,000.00	\$ 2,000.00			
<b>***** FURNISH ONLY, DELIVERED - ITEMS 106-177 (SEE NOTE 6) *****</b>												
106	Anchorage Assembly, Type LET	2	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.02	\$ 1.00	\$ 2.00			
107	Anchorage Assembly, Type SKT 350	2	EA	\$ 1,700.00	\$ 1,500.00	\$ 1,600.00	\$ 3,200.00	\$ 1,800.00	\$ 3,600.00			
108	Type MELT Buffered End (w/Diaphragms)	3	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.03	\$ 1.00	\$ 3.00			
109	Cable w/Hardware, for Type MELT	5	EA	\$ 0.51	\$ 1.00	\$ 0.01	\$ 0.05	\$ 1.00	\$ 5.00			
110	Type SKT 350 Extruder Head	2	EA	\$ 495.00	\$ 700.00	\$ 800.00	\$ 1,600.00	\$ 190.00	\$ 380.00			
111	Short Post in Sleeve for TypeS SKT 350 and MELT	3	EA	\$ 12.51	\$ 30.00	\$ 0.01	\$ 0.03	\$ 25.00	\$ 75.00			
112	Block, Wood, w/Hardware	18	EA	\$ 5.01	\$ 10.00	\$ 0.01	\$ 0.18	\$ 10.00	\$ 180.00			
113	Block, Recycled Plastic	30	EA	\$ 3.01	\$ 5.00	\$ 0.01	\$ 0.30	\$ 6.00	\$ 180.00			
114	End Section, Buffer	5	EA	\$ 26.00	\$ 25.00	\$ 32.00	\$ 160.00	\$ 20.00	\$ 100.00			
115	End Section, Flared	5	EA	\$ 10.01	\$ 25.00	\$ 0.01	\$ 0.05	\$ 20.00	\$ 100.00			
116	End Section, Parallel	5	EA	\$ 10.01	\$ 25.00	\$ 0.01	\$ 0.05	\$ 20.00	\$ 100.00			
117	End Section, CRT	5	EA	\$ 10.01	\$ 25.00	\$ 0.01	\$ 0.05	\$ 20.00	\$ 100.00			
118	End Section, Rounded	2	EA	\$ 10.01	\$ 25.00	\$ 0.01	\$ 0.02	\$ 20.00	\$ 40.00			
119	End Shoe, Special (Bridge Attachment Piece)	5	EA	\$ 3.01	\$ 6.00	\$ 0.01	\$ 0.05	\$ 6.00	\$ 30.00			
120	GuardRail, Steel Beam, Straight, Incl./Hardware	25	LF	\$ 5.12	\$ 6.00	\$ 4.24	\$ 106.00	\$ 6.00	\$ 150.00			
121	GuardRail, Steel Beam, Shop Bent, Incl./Hardware	25	LF	\$ 4.51	\$ 9.00	\$ 0.01	\$ 0.25	\$ 9.00	\$ 225.00			
122	5 Degree Radius Shop Bent GuardRail (6-1/4')	25	LF	\$ 4.01	\$ 8.00	\$ 0.01	\$ 0.25	\$ 8.00	\$ 200.00			
123	Transition Panel, QUAD Beam to W Beam, Narrow	2	EA	\$ 19.01	\$ 50.00	\$ 0.01	\$ 0.02	\$ 38.00	\$ 76.00			
124	Transition Panel, QUAD Beam to W Beam, Medium	2	EA	\$ 19.01	\$ 50.00	\$ 0.01	\$ 0.02	\$ 38.00	\$ 76.00			
125	Transition Panel, QUAD Beam to W Beam, Wide	2	EA	\$ 24.51	\$ 50.00	\$ 0.01	\$ 0.02	\$ 49.00	\$ 98.00			
126	Post, GuardRail, Steel, Standard	5	EA	\$ 40.93	\$ 50.00	\$ 32.86	\$ 164.30	\$ 49.00	\$ 245.00			
127	Post, GuardRail, Steel, 9'	5	EA	\$ 25.01	\$ 39.00	\$ 0.01	\$ 0.05	\$ 50.00	\$ 250.00			
128	Post, GuardRail, CRT	5	EA	\$ 25.66	\$ 30.00	\$ 21.31	\$ 106.55	\$ 30.00	\$ 150.00			

ATTACHMENT 3

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BID OPENING OCTOBER 1, 2019					AVERAGE OF BID ITEMS FOR ALL BIDDERS	ENGINEERS ESTIMATE	SOUTHEAST HIGHWAY GUARDRAIL & ATTENUATORS, LLC		C. SLAGTER CONSTRUCTION, INC.			
ANNUAL GUARDRAIL CONTRACT							UNIT PRICE	UNIT PRICE	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
PALM BEACH COUNTY PROJECT #2020052												
129	Post, GuardRail, Wood (Treated Timber), Standard	5	EA		\$ 31.43	\$ 30.00	\$ 32.86	\$ 164.30	\$ 30.00	\$ 150.00		
130	Post, GuardRail, Steel, Special, w/Plate	3	EA		\$ 125.00	\$ 100.00	\$ 150.00	\$ 450.00	\$ 100.00	\$ 300.00		
131	Safety Pipe Rail, w/Hardware	25	LF		\$ 2.51	\$ 5.00	\$ 0.01	\$ 0.25	\$ 5.00	\$ 125.00		
132	Safety Pipe Rail End Fixture, w/Hardware	5	EA		\$ 3.01	\$ 6.00	\$ 0.01	\$ 0.05	\$ 6.00	\$ 30.00		
133	Safety Pipe Rail Angle Brackets, w/Hardware	5	EA		\$ 15.01	\$ 60.00	\$ 0.01	\$ 0.05	\$ 30.00	\$ 150.00		
134	5/8" Modified Hex Nut (Recessed Nut)	25	EA		\$ 0.16	\$ 0.30	\$ 0.01	\$ 0.25	\$ 0.30	\$ 7.50		
135	5/8" Oval Shoulder Button Head Bolt (1-1/4")	25	EA		\$ 0.16	\$ 0.30	\$ 0.01	\$ 0.25	\$ 0.30	\$ 7.50		
136	5/8" Oval Shoulder Button Head Bolt (10")	10	EA		\$ 1.01	\$ 1.50	\$ 0.01	\$ 0.10	\$ 2.00	\$ 20.00		
137	5/8" Oval Shoulder Button Head Bolt (18")	10	EA		\$ 1.01	\$ 1.50	\$ 0.01	\$ 0.10	\$ 2.00	\$ 20.00		
138	5/8" Oval Shoulder Button Head Bolt (25")	10	EA		\$ 1.51	\$ 3.00	\$ 0.01	\$ 0.10	\$ 3.00	\$ 30.00		
139	7/8" Bridge Attachment Bolt (12")	10	EA		\$ 3.01	\$ 6.00	\$ 0.01	\$ 0.10	\$ 6.00	\$ 60.00		
140	7/8" Bridge Attachment Bolt (14")	10	EA		\$ 4.51	\$ 9.00	\$ 0.01	\$ 0.10	\$ 9.00	\$ 90.00		
141	7/8" Bridge Attachment Bolt (16")	8	EA		\$ 4.51	\$ 9.00	\$ 0.01	\$ 0.08	\$ 9.00	\$ 72.00		
142	7/8" Bridge Attachment Bolt (18")	10	EA		\$ 5.01	\$ 9.00	\$ 0.01	\$ 0.10	\$ 10.00	\$ 100.00		
143	7/8" Bridge Attachment Bolt (20")	5	EA		\$ 5.01	\$ 10.00	\$ 0.01	\$ 0.05	\$ 10.00	\$ 50.00		
144	7/8" Bridge Attachment Bolt (22")	5	EA		\$ 5.01	\$ 10.00	\$ 0.01	\$ 0.05	\$ 10.00	\$ 50.00		
145	7/8" Bridge Attachment Bolt (24")	5	EA		\$ 5.01	\$ 12.00	\$ 0.01	\$ 0.05	\$ 10.00	\$ 50.00		
146	7/8" Bridge Attachment Nut	5	EA		\$ 6.01	\$ 12.00	\$ 0.01	\$ 0.05	\$ 12.00	\$ 60.00		
147	7/8" Bridge Attachment Washer	5	EA		\$ 6.01	\$ 12.00	\$ 0.01	\$ 0.05	\$ 12.00	\$ 60.00		
148	7/8" Bridge Attachment BackinG Plate	5	EA		\$ 6.01	\$ 12.00	\$ 0.01	\$ 0.05	\$ 12.00	\$ 60.00		
<b>THRIE Beam</b>												
149	Rail Splice, THRIE-Beam	5	EA		\$ 5.01	\$ 10.00	\$ 0.01	\$ 0.05	\$ 10.00	\$ 50.00		
150	THRIE Beam Terminal Connector	3	EA		\$ 5.01	\$ 10.00	\$ 0.01	\$ 0.03	\$ 10.00	\$ 30.00		
151	THRIE Beam Bridge Connector Complete (Detail J)	2	EA		\$ 1,250.00	\$ 1,450.00	\$ 600.00	\$ 1,200.00	\$ 1,900.00	\$ 3,800.00		
152	12" x 12" x 1/4" Back Up Plate	5	EA		\$ 10.01	\$ 20.00	\$ 0.01	\$ 0.05	\$ 20.00	\$ 100.00		
153	8" x 8" x 5/8" Filler Plate - Installed Complete	5	EA		\$ 20.01	\$ 50.00	\$ 0.01	\$ 0.05	\$ 40.00	\$ 200.00		
154	21" x 21" x 5/8" BACK Up Plate - Installed Complete	5	EA		\$ 20.01	\$ 50.00	\$ 0.01	\$ 0.05	\$ 40.00	\$ 200.00		
155	THRIE Beam, Straight Panel Complete (w/ Post, Block & Hardware)	25	LF		\$ 15.33	\$ 16.00	\$ 16.66	\$ 416.50	\$ 14.00	\$ 350.00		
156	THRIE Beam, Shop Bent Panel Complete (w/ Post, Block & Hardware)	25	LF		\$ 15.01	\$ 30.00	\$ 0.01	\$ 0.25	\$ 30.00	\$ 750.00		
157	THRIE Beam, Straight Panel (Panel Only)	25	LF		\$ 7.18	\$ 8.00	\$ 7.35	\$ 183.75	\$ 7.00	\$ 175.00		
158	THRIE Beam, Shop Bent Panel (Panel Only)	25	LF		\$ 11.29	\$ 8.00	\$ 13.58	\$ 339.50	\$ 9.00	\$ 225.00		
159	6'-3" Transition Panel THRIE Beam to W-Beam	1	EA		\$ 113.63	\$ 100.00	\$ 137.26	\$ 137.26	\$ 90.00	\$ 90.00		
160	THRIE Beam Offset Block	5	EA		\$ 4.01	\$ 8.00	\$ 0.01	\$ 0.05	\$ 8.00	\$ 40.00		
<b>QUADGUARD Energy Absorbing System</b>												

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BID OPENING OCTOBER 1, 2019					AVERAGE OF BID ITEMS FOR ALL BIDDERS	ENGINEERS ESTIMATE	SOUTHEAST HIGHWAY GUARDRAIL & ATTENUATORS, LLC		C. SLAGTER CONSTRUCTION, INC.			
ANNUAL GUARDRAIL CONTRACT							UNIT PRICE	UNIT PRICE	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
PALM BEACH COUNTY PROJECT #2020052												
<b>QUADGUARD Energy Absorbing System - Bay Replacement Parts</b>												
161	QUADGUARD Energy Absorbing Sys., Additional Cartridges (Type I)	2	EA	\$ 754.50	\$ 725.00	\$ 784.00	\$ 1,568.00	\$ 725.00	\$ 1,450.00			
162	QUADGUARD Energy Absorbing Sys., Additional Cartridges (Type II)	2	EA	\$ 754.50	\$ 725.00	\$ 784.00	\$ 1,568.00	\$ 725.00	\$ 1,450.00			
163	QUADGUARD Energy Absorbing Sys., Backup Assy., Concrete 24"	2	EA	\$ 656.50	\$ 1,500.00	\$ 1,213.00	\$ 2,426.00	\$ 100.00	\$ 200.00			
164	QUADGUARD Energy Absorbing Sys., Backup Assy., Tension Strut 24"	2	EA	\$ 250.01	\$ 2,800.00	\$ 0.01	\$ 0.02	\$ 500.00	\$ 1,000.00			
165	QUADGUARD Energy Absorbing Sys., Nose Assembly, 24"/30"/36"	2	EA	\$ 650.50	\$ 600.00	\$ 701.00	\$ 1,402.00	\$ 600.00	\$ 1,200.00			
166	QUADGUARD Energy Absorbing Sys., Diaphragm 24"	2	EA	\$ 500.01	\$ 1,000.00	\$ 0.01	\$ 0.02	\$ 1,000.00	\$ 2,000.00			
167	QUADGUARD Energy Absorbing Sys., Diaphragm 30"	2	EA	\$ 350.01	\$ 1,000.00	\$ 0.01	\$ 0.02	\$ 700.00	\$ 1,400.00			
168	QUADGUARD Energy Absorbing Sys., Diaphragm, 69"/90" (20 Sizes)	2	EA	\$ 200.01	\$ 2,000.00	\$ 0.01	\$ 0.02	\$ 400.00	\$ 800.00			
169	QUADGUARD Energy Absorbing Sys., Fender Panel Assembly, 69"/90"	2	EA	\$ 395.01	\$ 900.00	\$ 0.01	\$ 0.02	\$ 790.00	\$ 1,580.00			
<b>QUADGUARD ELITE System</b>												
<b>QUADGUARD ELITE System - Bay Replacement Parts</b>												
170	QUADGUARD ELITE Fender Panel	2	EA	\$ 350.01	\$ 700.00	\$ 0.01	\$ 0.02	\$ 700.00	\$ 1,400.00			
171	QUADGUARD ELITE Diaphragm Assembly	2	EA	\$ 1,000.01	\$ 2,100.00	\$ 0.01	\$ 0.02	\$ 2,000.00	\$ 4,000.00			
172	QUADGUARD ELITE Nose Belt Assembly	2	EA	\$ 1,500.01	\$ 3,500.00	\$ 0.01	\$ 0.02	\$ 3,000.00	\$ 6,000.00			
173	QUADGUARD ELITE Cylinder Cartridge	2	EA	\$ 1,500.01	\$ 3,300.00	\$ 0.01	\$ 0.02	\$ 3,000.00	\$ 6,000.00			
<b>QUADGUARD ELITE System - Furnish and Install, Complete (See Note 5)</b>												
174	QUADGUARD ELITE System (7 Bay) - 69" Wide Incl./All Hardware	1	EA	\$ 15,000.00	\$ 21,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00			
175	QUADGUARD ELITE System (7 Bay) - 90" Wide Incl./All Hardware	1	EA	\$ 15,000.00	\$ 21,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00			
176	QUADGUARD ELITE System (11 Bay) - 69" Wide Incl./All Hardware	1	EA	\$ 28,000.00	\$ 32,300.00	\$ 15,000.00	\$ 15,000.00	\$ 41,000.00	\$ 41,000.00			
177	QUADGUARD ELITE System (11 Bay) - 90" Wide Incl./All Hardware	1	EA	\$ 17,500.00	\$ 32,000.00	\$ 15,000.00	\$ 15,000.00	\$ 20,000.00	\$ 20,000.00			
<b>TOTAL BID AMOUNT</b>								<b>\$ 317,456.45</b>	<b>\$ 478,137.00</b>			

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**PALM BEACH COUNTY PROJECT NO. 2020052**

**THE COUNTY DOES NOT GUARANTEE THE ACCURACY OF THE FORMULAS AND EXTENSIONS USED IN THIS SPREADSHEET.**

**THE ITEMS AND QUANTITIES ABOVE, SHALL GOVERN OVER THE PLANS.**

**All costs for Maintenance of Traffic (MOT) and mobilization shall be considered incidental to, and shall be included in, unit prices for the pay items.**

**All items shall Include cost to furnish and install unless otherwise noted.**

**NOTES:**

- |    |   |
|----|---|
| 1. | Items 4 Through 8, Removal and Disposal or Delivery of GuardRail items, - Disposition of All materials in the field shall be at the discretion of the Road and Bridge Division or other Palm Beach County representative on-site.   |
| 2. | Item 12, Surcharge to Reset GuardRail Post on Base Plate - This item is considered an add-on to the per linear foot price for Item 10 - Reset GuardRail and shall constitute all Additional labor and materials for each post removed and Reset on a surFace-mounted base plate.                |
| 3. | Item 13, Raise and Reset Existing GuardRail (Posts and Panels) shall Include All labor, equipment and materials to vertically raise and Reset existing GuardRail sections to proper height as directed by Palm Beach County.  |
| 4. | Item 65, Round-Off Top of Wooden GuardRail Post and Block (All Sides) shall Include All labor, router equipment and materials to produce a routed, 3/4" round over on All top edges and corners of Wooden Posts and Blocks adjacent to, and/or within 2' of, pedestrian sidewalks and pathways. |
| 5. | Items 15 Through 105 and 174 Through 177, Furnish and Install, Complete shall mean Complete installation under any field conditions (in Concrete, asphalt, etc.).   |
| 6. | Items 106 Through 173, Furnish Only, Delivered Shall Include All Hardware, etc. required for Completed installation of the component Parts by the Road and Bridge Division or other Palm Beach County personnel.  |

Working days to complete project: TBD ( per task order)

Bids as read at opening on October 1, 2019, 2:00 PM

All bids subject to OSBA SBE compliance and Board Approval.

Prepared by: Geraldine Lazzarino-Kelly, Technical Assistant 1

Checked by: Holly B. Knight, P.E., Contracts Section Manager