


Memorandum



Date: January 14, 2019

To: Gary Hartfield, Division Director
Small Business Development

From:  Leticia Smith
Chief, Contract Services
Department of Transportation and Public Works

Subject: Recommendation for 7360 Miscellaneous Construction Contract Services for
RPQ No. 374790- IRP- 278, Lehman Yard Perimeter Security Fence

The Department of Transportation and Public Works (DTPW) respectfully requests that the Division of Small Business Development (SBD) re-evaluate Project No. IRP-278 – Lehman Yard Perimeter Security Fence, to assign a Small Business Enterprise-Construction (SBE-CON) measure to proceed with the advertisement and subsequent bidding of the solicitation under the 7360 Miscellaneous Construction Contract.

The Funding Source for the project is People's Transportation Plan Bond Program.

Lehman Yard Perimeter Security Fence:

The scope of work is specialized in nature as it includes, but is not limited to: procurement, fabrication and installation of a decorative 10' high security perimeter metal fence and gates with an approved Miami-Dade County product approval; as well as grounding and bonding for compliance with IEEE 837.

In addition, the Contractor must meet the below requirements:

- Have experience with similar projects in permitting with the Florida Department Of Transportation, Florida East Coast Railway (FEC), Florida Power & Light (FP&L), Florida Gas Transmission (FGT), Department of Regulatory and Economic Resources (RER), and all Agencies Having Jurisdiction (AHJ);
- Have experience with installation of sheet piling of large projects from a floating barge to stabilize the existing canal embankment;
- Have experience of at least five years working with environmental excavation and/or dewatering;
- Hold a current State of Florida certified General Contractor's license;
- Have a minimum of 10 years of experience under its current business name performing similar projects;
- Have experience with high security system that is engineered to withstand the lateral loads of 175 mph, exposure C and in accordance with ADCE 7-10; as specified in the design criteria and contract documents;
- Have an approved and experienced manufacturer installer that has performed this type of fence installation a minimum period of 2 years;
- Furnish professional services of a specialty engineer certified in the state of Florida to prepare signed and sealed shop drawings and calculations; and
- Must be aware that work in certain portions of the site may only be accomplished at night and/or weekends. The work is in areas that are in close proximity to active rail lines or adjacent to public right-of-ways.

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The construction cost estimate for this project is \$ 3,044,948, which includes a 10% contingency.

The SBE-CONS goal recommendation is 18% for the concrete portion of this project, which has an estimated value of \$543,152.50. DTPW concurs with SBD's prior recommendation of a **no measure** for the SBE-Goods and Services goal and a Community Workforce Program goal of 0% because the project does not fall within a Designated Target area.

Should you have any questions, please feel free to contact Ms. Leticia Smith, Chief of Contracts, at (786) 469-5291.

PROJECT: Lehman Yard Perimeter Security Fence

September 6, 2018

Contract No.:

RPQ No.: 374790

Project No.: IRP 278

305 Consulting Engineers, LLC

Prepared by: Enrique M. Zúñiga, P.E.

ENGINEERS ESTIMATE OF PROBABLE COST (90% submittal)

PART A - BASE BID

	Description		Estimated Cost of Construction
Item 1	DIVISION 01 - General Requirements	\$	427,093
Item 2	DIVISION 02 - Existing Conditions	\$	108,846
Item 3	DIVISION 03 - Concrete	\$	434,522
Item 4	DIVISION 05 - Metals	\$	339,010
Item 5	DIVISION 26 - Electrical	\$	5,750
Item 6	DIVISION 31 - Earthwork	\$	335,166
Item 7	DIVISION 32 - Exterior Improvements	\$	732,766
Item 8	FINAL CLEANUP	\$	23,920
SUBTOTAL ITEMS 1 THROUGH 8		\$	2,407,074
	Contractor OH&P	15% \$	361,061
SUBTOTAL		\$	2,768,135
	Contingency	10% \$	276,813
TOTAL		\$	3,044,948

PROJECT: Lehman Yard Perimeter Security Fence

Contract No.
 RPQ No.: 374790
 Project No.: IRP 278

EXPANDED - DETAIL REPORT

ITEM	LEVEL	QTY	UM	MAT	LABOR	EQUIP	OTHERS	MAT TAXES	DIRECT COST	SUB M/UPS	PROJECT M/UPS	TOTAL	
1	DIVISION 01 - General Requirements												
	GENERAL CONDITIONS												
a	Engineering fees, insurance, Bonds, Permits, Scheduling, submittals, shop drawings, As-Builts	1	LS		\$0	\$0	\$0	\$175,000	\$0	\$175,000	\$26,250	\$0	\$201,250
	Unit price							175000					
b	Site security, safety training, rail awareness training, mobilization, nighttime and weekend work, environmental protection, MOT	1	LS		\$0	\$0	\$0	\$230,000	\$0	\$230,000	\$34,500	\$0	\$264,500
	Unit price							230000					
	TOTAL GENERAL CONDITIONS								\$0	\$405,000	\$60,750	\$0	\$465,750
	ADJUSTED TOTAL GENERAL CONDITIONS, (City cost index for Miami, FL)												\$427,093
													91.70%
2	DIVISION 02 - Existing Conditions												
	DEMOLITION												
a	Demolition of existing fence foundations	1178	CF		\$0	\$2,662	\$1,414	\$0	\$0	\$4,076	\$611	\$0	\$4,688
	Unit price					2.26	1.20						
b	Demolition of existing chain link fence	7500	LF		\$0	\$16,200	\$6,150	\$22,350	\$0	\$44,700	\$6,705	\$0	\$51,405
	Unit price					2.16	0.82	2.98					
c	Salvage of chain link material	3000	LF		\$0	\$13,530	\$33,000	\$0	\$0	\$46,530	\$6,980	\$0	\$53,510
	Unit price					2.16	0.82	2.98					
d	Disposal of waste material	1155	CY		\$0	\$5,208	\$12,702	\$0	\$0	\$17,910	\$2,687	\$0	\$20,597
	Unit price					4.51	11.00						
	TOTAL DEMOLITION								\$0	\$113,216	\$16,982	\$0	\$130,199
	ADJUSTED TOTAL DEMOLITION (City cost index for Miami, FL)												\$108,846
													83.60%
3	DIVISION 03 - Concrete												
	CAST-IN-PLACE CONCRETE												
a	Footing, plain concrete (drilled pile)	562.93	CY		\$171,693	\$247,688	\$19,984	\$0	\$12,018	\$439,364	\$65,905	\$0	\$517,288
	Unit price				305.00	440.00	35.50						
	TOTAL CAST IN PLACE CONCRETE								\$12,018	\$439,364	\$65,905	\$0	\$517,288
	ADJUSTED TOTAL CAST-IN-PLACE CONCRETE (City cost index for Miami, FL)												\$434,522
													84.00%
4	DIVISION 05 - Metals												
	STRUCTURAL STEEL FRAMING												
a	Corner posts, 10' high	15	EA		\$6,750	\$780	\$428	\$0	\$473	\$7,488	\$1,123	\$0	\$9,084
	Unit price				450.00	52.00	28.50						
b	Line posts, 10' high	663	EA		\$248,625	\$34,476	\$18,896	\$0	\$17,404	\$284,179	\$42,627	\$0	\$344,209
	Unit price				375.00	52.00	28.50						

c	End posts, 10' high	4 EA	\$1,800	\$208	\$114	\$0	\$126	\$2,122	\$318	\$0	\$2,566
	Unit price		450.00	52.00	28.50						
d	Corner posts, 6' high, Bridge Structure	2 EA	\$300	\$97	\$53	\$0	\$21	\$450	\$68	\$0	\$539
	Unit price		150.00	48.50	26.50						
e	End posts, 10' high, Main Gate	2 EA	\$3,000	\$117	\$64	\$0	\$210	\$3,181	\$477	\$0	\$3,868
	Unit price		1500.00	58.50	32.00						
TOTAL STRUCTURAL STEEL FRAMING											
ADJUSTED TOTAL STRUCTURAL STEEL FRAMING (City cost index for Miami, FL)						94.10%	\$18,233	\$297,420	\$44,613	\$0	\$360,266
5 DIVISION 20 - Electrical Identification											
DIVISION 26 - Electrical											
GROUNDING AND BONDING											
a	Grounding of Decorative fence	1 LS	\$1,500	\$2,500	\$250	\$1,500	\$105	\$5,750	\$863	\$0	\$6,718
	Unit price		1500	2500.00	250.00	1500					
TOTAL GROUNDING AND BONDING											
ADJUSTED TOTAL GROUNDING AND BONDING (City cost index for Miami, FL)						85.60%	\$105	\$5,750	\$863	\$0	\$6,718
6 DIVISION 31 - Earthwork											
SITE CLEARING											
a	Site stripping and hauling	0.8609 AC	\$0	\$426	\$1,033	\$0	\$0	\$1,459	\$219	\$0	\$1,678
	Unit price			495.00	1200.00						
b	Finish grading	4166.7 SY	\$0	\$7,125	\$7,375	\$0	\$0	\$14,500	\$2,175	\$0	\$16,675
	Unit price			1.71	1.77						
c	Crushed 3/4" stone, compacted, 6" deep	130 SY	\$598	\$39	\$107	\$0	\$42	\$785.5	\$118	\$0	\$945
	Unit price		4.60	0.30	0.82						
d	Steel sheet piling	10520 SF	\$178,787	\$31,560	\$40,923	\$0	\$12,515	\$263,785.3	\$39,568	\$0	\$315,868
	Unit price		17.00	3.00	3.89						
TOTAL SITE CLEARING											
ADJUSTED TOTAL SITE CLEARING (City cost index for Miami, FL)						100.00%	\$12,557	\$280,530	\$42,079	\$0	\$335,166
7 DIVISION 32 - Exterior Improvements											
EXTERIOR IMPROVEMENTS											
a	Perimeter fence, decorative-high security fence, 10' high	7500 LF	\$450,000	\$76,200	\$39,375	\$0	\$31,500	\$597,075	\$89,561	\$0	\$718,136
	Unit price		60.00	10.16	5.25						
b	Perimeter fence, decorative-high security fence, 6' high	16 LF	\$560	\$163	\$84	\$0	\$39	\$846	\$127	\$0	\$1,012
	Unit price		35.00	10.16	5.25						
c	2 panel swing gate w/ wheels, 10' high, 52' opening	1 EA	\$1,800	\$595	\$355	\$0	\$126	\$2,876	\$431	\$0	\$3,433
	Unit price		1800.00	595.00	355.00						
d	2 panel swing gate, 10' high, 20' opening	1 EA	\$1,350	\$595	\$355	\$0	\$95	\$2,395	\$359	\$0	\$2,848
	Unit price		1350.00	595.00	355.00						
e	1 panel sliding gate, 10' high, 20' opening	1 EA	\$1,500	\$595	\$355	\$0	\$105	\$2,555	\$383	\$0	\$3,043
	Unit price		1500.00	595.00	355.00						
f	1 panel swing gate, 7' high w/3'transom, 5' opening	1 EA	\$365	\$595	\$355	\$0	\$26	\$1,341	\$201	\$0	\$1,567
	Unit price		365.00	595.00	355.00						
g	1 panel swing gate, 7' high w/3'transom, 10' opening	1 EA	\$730	\$1,190	\$355	\$0	\$51	\$2,326	\$349	\$0	\$2,726

	Unit price	730.00	1190.00	355.00						
TOTAL EXTERIOR IMPROVEMENTS						\$31,941	\$609,413	\$91,412	\$0	\$732,766
ADJUSTED TOTAL EXTERIOR IMPROVEMENTS (City cost index for Miami, FL)					100.00%					\$732,766
FINAL CLEANUP										
Final cleanup and closeout	1 LS	\$0	\$0	\$0	\$20,800	\$0	\$20,800	\$3,120	\$0	\$23,920
	Unit price				20800					
TOTAL FINAL CLEANUP						\$0	\$20,800	\$3,120	\$0	\$23,920
ADJUSTED TOTAL FINAL CLEANUP (City cost index for Miami, FL)					100.00%					\$23,920
SUBTOTAL ITEMS 1 THROUGH 8										\$2,407,074