

# Memorandum



**Date:** June 3, 2016

**To:** Gary Hartfield, Division Director  
Internal Services Department, Small Business Development

**From:** Milton L. Collins, Associate Director *MSC*  
Miami-Dade Aviation Department, Minority Affairs Division

**Subject:** Recommendation of Contract Measures:  
Operation and Maintenance of the MIA Mover and North Terminal Automated People  
Mover Systems Legacy Contract  
Project No. W051A

## RECOMMENDATION:

This is a request for the Small Business Development (SBD) to approve the subject project in order for the Aviation Department to proceed with the approval for the **Operation and Maintenance of the MIA Mover and North Terminal Automated People Mover Systems Legacy Contract, Project No. W051A**. The Minority Affairs Division and the User Division Staff have evaluated the subject project and recommends an **SBE G&S Program Goal of 3.5%**. Attached is MDADs Services Description Breakdown and Contract Measures Analysis Worksheet findings and other supporting documents.

The initial term of the contract will be for five (5) years with two (2), five (5) year options to renew for a total of fifteen (15) years. The contract estimated amount is \$160,027,905.00.

Estimates for the base O&M Services for 15 years are as follows and are based on the current invoicing numbers for each project. Optional components are not included in this estimate.

	North Terminal	MIA Mover	Combined
5 Year Base	\$33,158,455	\$20,184,180	\$53,342,635
1 <sup>st</sup> 5 Year Option	\$33,158,455	\$20,184,180	\$53,342,635
2 <sup>nd</sup> 5 Year Option	\$33,158,455	\$20,184,180	\$53,342,635
Totals	\$99,475,365	\$60,552,540	\$160,027,905

## SCOPE OF SERVICES:

MDAD is currently in the process of preparing a Legacy Agreement for the approval of the Board of County Commissioners (BCC) in order to provide continuous operations and maintenance of both Automated People Mover Systems for the Miami International Airport. The Legacy Agreement combines two existing agreements: 1) Project J104A for the existing MIA Mover Automated People Mover System and 2) Project B702B, Operation and Maintenance Agreement for the existing North Terminal Automated People Mover System.

The contract will include Operations & Maintenance of the existing MIA Mover APM System and the existing North Terminal APM Systems.

In addition to this base scope the pricing forms include an Owner Option for MDAD to purchase two additional vehicles and related System/infrastructure components for the MIA Mover APM System and separate Owner Options for MDAD to purchase two additional vehicles and related System/infrastructure components for the North Terminal APM System.

Recommendation of Contract Measures:  
Operation and Maintenance of the MIA Mover and North Terminal Automated People Mover Systems  
Legacy Contract  
Project No. W051A  
Page 2 of 2

The Owner is also requesting a fixed price option to train Owner-designated personnel on the use of each APM System. In addition to receiving pricing from MHI for these three Owner options, it is also MDAD's intent to include separate dedicated allowance accounts for the following; 1) Potential configuration of running track and train components for a third station for the MIA Mover APM System, 2) Bridge inspection of the MIA Mover APM System for the duration of Operations and Maintenance Services, 3) Capital Assets Replacement Program Plan (CARPP) for the North Terminal APM System, 4) Capital Assets Replacement Program Plan (CARPP) for the MIA Mover APM System, 5) Miscellaneous Additional Work, 6) Inspector General.

Please advise our office if additional information is needed in order to complete this process.

#### Attachments

cc: L. Johnson, SBD  
E. Etienne, SBD  
C. Jose, MDAD  
M. Clark-Vincent, MDAD  
E. Chinea, MDAD  
S. Sipes, Lea & Elliott  
K. Guillen, MDAD  
C. Corrales, MDAD  
Project File

## REVISED MDAD's CONTRACT MEASURES AND ANALYSIS WORKSHEET

**To:** Gary Hartfield, Division Director  
Internal Services Department, Small Business Development

**From:** Milton L. Collins, Associate Director  
Miami-Dade Aviation Department  
Minority Affairs Division



**PROJECT/CONTRACT TITLE:** Operation and Maintenance of the MIA  
Mover and North Terminal Automated  
People Mover Systems Legacy Contract

**PROJECT/CONTRACT NUMBER:** W051A

**DEPARTMENT:** Miami Dade Aviation Department

**ESTIMATED PROJECT COST:** \$160,027,905.00 (5 year base with 1<sup>st</sup>  
5 years Option, 2<sup>nd</sup> 5 year Option for a total  
of 15 Years)

**FUNDING SOURCE:** Aviation Operational Budget

### DESCRIPTION OF PROJECT/BID:

The Miami-Dade Aviation Department is in the process of preparing a Legacy Agreement for the approval of the Board of County Commissioners (BCC) in order to provide continuous operations and maintenance of both Automated People Mover Systems for the Miami International Airport. The Legacy Agreement combines two existing agreements: 1) Project J104A for the existing MIA Mover Automated People Mover System and 2) Project B702B, Operation and Maintenance Agreement for the existing North terminal Automated People Mover System.

### CONTRACT MEASURES RECOMMENDATION:

**Measures:** 3.5% SBE-Goods & Services Goal

### REASONS FOR RECOMMENDATION:

Analysis of the factors contained in Implementing Order #3-41 for SBE Goods & Services Programs are appropriate for this contract.

SBE GOODS & SERVICES BREAKDOWN  
PROJECT NO. W051A

Maintenance and Storage Facility (MSF) Central Control Rooms, Administrative Offices, Restroom Facilities and Emergency Car Care Cleaning	0.5%
Daily Cleaning of all Vehicles not related to Emergency Cleaning - 9:00 pm to 5:00 am	1%
Daily cleaning of APM Related Equipment Storage Rooms, Maintenance Shop and all other associated APM equipment and storage rooms.	1%
Special Cleaning Services (escort required)	
Special Equipment Rooms (such as PDS, welding, UPS, Electrical Storage Rooms, etc. APM Associate Station Doors and Station APM Equipment Guideway, Emergency Walkway, and Crossovers	1%
Total of SBE G & S Contract Measure	<u>3.5%</u>

Section	Section Description	Quantity	Unit	Unit Price	% of Contract	Amount
<b>A</b>	<b>Engineering Service - Plans</b>					
	Highway Design (TC 3.02)	1.00	EA	\$ 50,000.00	3.53%	\$ 50,000.00
	Bridge Design (TC 3.03)	1.00	EA	\$ 120,000.00	8.46%	\$ 120,000.00
	Signage, Pavement Marking (TC 3.09)	1.00	EA	\$ 8,000.00	0.56%	\$ 8,000.00
	Environmental Engineering - Stormwater Drainage Design (Includes permitting) (TC 10.01)	1.00	EA	\$ 18,000.00	1.27%	\$ 18,000.00
	<b>Subtotal for Section A</b>				<b>10.29%</b>	<b>\$ 196,000.00</b>
<b>B</b>	<b>Geotechnical Work</b>					
	Soils, Foundations and Materials Testing - Drilling, Subsurface Investigations and Seismographic Services (TC 9.01)	1.00	LS	\$ 14,000.00	0.99%	\$ 14,000.00
	Soils, Foundations and Materials Testing - Geotechnical and Materials Engineering Services (TC 9.02)	1.00	LS	\$ 14,000.00	0.99%	\$ 14,000.00
	<b>Subtotal for Section B</b>				<b>1.97%</b>	<b>\$ 28,000.00</b>
<b>C</b>	<b>Survey Services</b>					
	Surveying and Mapping - Land Surveying (TC 15.01)	1.00	LS	\$ 20,000.00	1.41%	\$ 20,000.00
	<b>Subtotal for Section C</b>				<b>1.41%</b>	<b>\$ 20,000.00</b>
<b>D</b>	<b>Construction Mobilization</b>					
	Construction Mobilization	1.00	LS	\$ 104,022.71	7.33%	\$ 104,022.71
	<b>Subtotal for Section D</b>				<b>7.33%</b>	<b>\$ 104,022.71</b>
<b>E</b>	<b>Maintenance of Traffic</b>					
	Maintenance of Traffic	1.00	LS	\$ 30,000.00	2.12%	\$ 30,000.00
	<b>Subtotal for Section E</b>				<b>2.12%</b>	<b>\$ 30,000.00</b>
<b>F</b>	<b>Erosion Control</b>					
	Initial Erosion Control	1.00	LS	\$ 20,000.00	1.41%	\$ 20,000.00
	Erosion Control Maintenance	1.00	LS	\$ 30,000.00	2.12%	\$ 30,000.00
	<b>Subtotal for Section F</b>				<b>3.53%</b>	<b>\$ 50,000.00</b>
<b>G</b>	<b>Roadway</b>					
	Milling	800.00	SY	\$ 5.00	0.28%	\$ 4,000.00
	Stabilization	800.00	SY	\$ 5.00	0.28%	\$ 4,000.00
	Optional Base	800.00	SY	\$ 20.00	1.13%	\$ 16,000.00
	Grassing/Sod	111.11	SY	\$ 5.00	0.04%	\$ 555.56
	Flatwork / Curb & Gutter / Sidewalk	133.33	SY	\$ 40.00	0.38%	\$ 5,333.33
	Clearing and Grubbing	400.00	SY	\$ 5.00	0.14%	\$ 2,000.00
	Guardrail	200.00	LF	\$ 100.00	1.41%	\$ 20,000.00
	Asphalt Overlay - assumed 2 inch thick	88.00	TN	\$ 100.00	0.62%	\$ 8,800.00
	<b>Subtotal for Section G</b>				<b>2.25%</b>	<b>\$ 60,688.89</b>
<b>H</b>	<b>Drainage</b>					
	Water Treatment	1.00	LS	\$ 20,000.00	1.41%	\$ 20,000.00
	<b>Subtotal for Section H</b>				<b>1.41%</b>	<b>\$ 20,000.00</b>
<b>I</b>	<b>Utilities</b>					
	Underground Utility Relocation	1.00	LS	\$ 30,000.00	2.12%	\$ 30,000.00
	Temp Support of Utilities	1.00	LS	\$ 10,000.00	0.71%	\$ 10,000.00

		Subtotal for Section I		0.71%		\$ 40,000.00	
J	Bridge	3420.00	SF	\$ 35.00	8.44%	\$	119,700.00
	Bearing Pads	20.17	CF	\$ 1,500.00	2.13%	\$	30,250.00
	Substructure Concrete	83.33	CY	\$ 1,000.00	5.88%	\$	83,333.33
	Superstructure Concrete	278.89	CY	\$ 800.00	15.73%	\$	223,111.11
	Approach Slab Concrete	134.44	CY	\$ 500.00	4.74%	\$	67,222.22
	Expansion Joint	242.00	LF	\$ 60.00	1.02%	\$	14,520.00
	Traffic Railings	150.00	LF	\$ 60.00	0.63%	\$	9,000.00
	Pedestrian Railings	300.00	LF	\$ 50.00	1.06%	\$	15,000.00
	Slope Protection	267.26	SF	\$ 65.00	1.22%	\$	17,371.68
	Prestressed Concrete Piles	1600.00	LF	\$ 100.00	11.28%	\$	160,000.00
	Reinforcing Steel - Superstructure	85087.33	LB	\$ 1.00	6.00%	\$	85,087.33
	Reinforcing Steel - Substructure	12083.33	LB	\$ 1.00	0.85%	\$	12,083.33
	Reinforcing Steel - Approach Slab	26888.89	LB	\$ 1.00	1.90%	\$	26,888.89
					60.89%	\$	863,567.90
Subtotal for Section J							
K	Signing and Pavement Markings						
	Restriping	1.00	LS	\$ 5,970.27	0.42%	\$	5,970.27
Subtotal for Section K							
Design Subtotal						\$	244,000.00
Construction Subtotal						\$	1,174,249.76
Design & Construction Subtotal					100.00%	\$	1,418,249.76
Construction Contingency					5.00%	\$	58,712.49
Design Contingency					10.00%	\$	24,400.00
PROJECT TOTAL						\$	1,501,362.25

Section	Section Description	Quantity	Unit	Unit Price	% of Contract	Amount
<b>A Engineering Service - Plans</b>						
	Highway Design (TC 3.02)	1.00	EA	\$ 50,000.00	3.53%	\$ 50,000.00
	Bridge Design (TC 3.03)	1.00	EA	\$ 120,000.00	8.46%	\$ 120,000.00
	Signing, Pavement Marking (TC 3.09)	1.00	EA	\$ 8,000.00	0.56%	\$ 8,000.00
	Environmental Engineering - Stormwater Drainage Design (includes permitting) (TC 10.01)	1.00	EA	\$ 18,000.00	1.27%	\$ 18,000.00
	Subtotal for Section A				10.29%	\$ 196,000.00
<b>B Geotechnical Work</b>						
	Soils, Foundations and Materials Testing - Drilling, Subsurface Investigations and Seismographic Services (TC 9.01)	1.00	LS	\$ 14,000.00	0.99%	\$ 14,000.00
	Soils, Foundations and Materials Testing - Geotechnical and Materials Engineering Services (TC 9.02)	1.00	LS	\$ 14,000.00	0.99%	\$ 14,000.00
	Subtotal for Section B				1.97%	\$ 28,000.00
<b>C Survey Services</b>						
	Surveying and Mapping - Land Surveying (TC 15.01)	1.00	LS	\$ 20,000.00	1.41%	\$ 20,000.00
	Subtotal for Section C				1.41%	\$ 20,000.00
<b>D Construction Mobilization</b>						
	Construction Mobilization	1.00	LS	\$ 104,022.71	7.33%	\$ 104,022.71
	Subtotal for Section D				7.33%	\$ 104,022.71
<b>E Maintenance of Traffic</b>						
	Maintenance of Traffic	1.00	LS	\$ 30,000.00	2.12%	\$ 30,000.00
	Subtotal for Section E				2.12%	\$ 30,000.00
<b>F Erosion Control</b>						
	Initial Erosion Control	1.00	LS	\$ 20,000.00	1.41%	\$ 20,000.00
	Erosion Control Maintenance	1.00	LS	\$ 30,000.00	2.12%	\$ 30,000.00
	Subtotal for Section F				3.53%	\$ 50,000.00
<b>G Roadway</b>						
	Milling	800.00	SY	\$ 5.00	0.28%	\$ 4,000.00
	Stabilization	800.00	SY	\$ 5.00	0.28%	\$ 4,000.00
	Optional Base	800.00	SY	\$ 20.00	1.13%	\$ 16,000.00
	Grassing/Sod	111.11	SY	\$ 5.00	0.04%	\$ 555.56
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	Clearing and Grubbing	400.00	SY	\$ 5.00	0.14%	\$ 2,000.00
	Guardrail	200.00	LF	\$ 100.00	1.41%	\$ 20,000.00
	Asphalt Overlay - assumed 2 inch thick	88.00	TN	\$ 100.00	0.62%	\$ 8,800.00
	Subtotal for Section G				2.25%	\$ 60,688.89
<b>H Drainage</b>						
	Water Treatment	1.00	LS	\$ 20,000.00	1.41%	\$ 20,000.00
	Subtotal for Section H				1.41%	\$ 20,000.00
<b>I Utilities</b>						
	Underground Utility Relocation	1.00	LS	\$ 30,000.00	2.12%	\$ 30,000.00
	Temp Support of Utilities	1.00	LS	\$ 10,000.00	0.71%	\$ 10,000.00
	Subtotal for Section I				0.71%	\$ 40,000.00
<b>J Bridge</b>						
	Bridge Span Demolition	3420.00	SF	\$ 35.00	8.44%	\$ 119,700.00
	Bearing Pads	20.17	CF	\$ 1,500.00	2.13%	\$ 30,250.00
	Substructure Concrete	83.33	CY	\$ 1,000.00	5.88%	\$ 83,333.33
	Superstructure Concrete	278.89	CY	\$ 800.00	15.73%	\$ 223,111.11
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	Expansion Joint	242.00	LF	\$ 60.00	1.02%	\$ 14,520.00
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	Slope Protection	267.26	SF	\$ 65.00	1.22%	\$ 17,371.68
	Prestressed Concrete Piles	1600.00	LF	\$ 100.00	11.28%	\$ 160,000.00
	Reinforcing Steel - Superstructure	85087.33	LB	\$ 1.00	6.00%	\$ 85,087.33
	Reinforcing Steel - Substructure	12083.33	LB	\$ 1.00	0.85%	\$ 12,083.33
	Reinforcing Steel - Approach Slab	26888.89	LB	\$ 1.00	1.90%	\$ 26,888.89
	Subtotal for Section J				60.89%	\$ 863,567.90
<b>K Signing and Pavement Markings</b>						
	Restriping	1.00	LS	\$ 5,970.27	0.42%	\$ 5,970.27
	Subtotal for Section K				0.42%	\$ 5,970.27
Design Subtotal						\$ 244,000.00
Construction Subtotal						\$ 1,174,249.76
Design & Construction Subtotal						100.00% \$ 1,418,249.76
Construction Contingency						5.00% \$ 58,712.49
Design Contingency						10.00% \$ 24,400.00
<b>PROJECT TOTAL</b>						<b>\$ 1,501,362.25</b>