

**Fixed Bus Routes For Miami-Dade Transit**

**RQID1400003 - Verification of Availability**

Find attached the “**Scopes of Work**” and “**Special Requirements**” for an upcoming **Invitation to Bid (ITB)**. Please review to determine if you would be able to **satisfy the requirements** (as applicable), and **interested in responding**; if so, please check the appropriate areas below and respond to this email confirming the same. Please pay “**CLOSE**” attention to the various sections and the “**SPECIAL & MINIMUM Requirements**”, being specified, and confirm your **ability** and **availability** to satisfy “**ALL**” sections/scopes.

See **Sections 3.1 through 3.8**; paying very close attention to all Sections listed, and the “**minimum**” requirements of each. (While you are **not** proposing at this time, be mindful your response strongly influences SBD’s determination as it relates to a potential **SBE Measure**). So please be diligent in your review of the information and respond accordingly, based on your ability to meet **ALL** the applicable requirements.

**Do you have prior experience consistent with the requirements of this ITB?**  
YES  NO

**Are you able to satisfy the “Scope of Work” as listed Section 3.1?**  
YES  NO

**Are you able to satisfy the “Fixed Route Transportation Services” Requirements as listed Section 3.2?**  
YES  NO

**Are you able to satisfy the “Bus Requirements & Specifications” as listed Section 3.3?**  
YES  NO

**Are you able to satisfy the “Communication Systems” requirements as stipulated in Section 3.6?** YES  NO

I am “**NOT**” interested in this solicitation.

**Name of Firm:** \_\_\_\_\_ **SBE Exp. Date:** \_\_\_\_\_

**Owner’s Name:** \_\_\_\_\_ **Signature:** \_\_\_\_\_

**Contact #:** \_\_\_\_\_

Please respond by **3:00pm, Tuesday October 15, 2013** – (Providing References)

Any questions, feel free to contact me at the number below.

(Respond to the “**Verification** “whether you are interested or not (choosing “**Yes**” or “**No**” as applicable); this helps SBD in the determination of measures).

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**SECTION 3**  
**TECHNICAL SPECIFICATIONS**

**FIXED BUS ROUTES FOR MIAMI-DADE TRANSIT**

**3.1 SCOPE OF WORK**

The awarded Bidder shall provide chauffeur (driver) driven full size passenger buses in the number and type stated in Sections 3. This type of service is characterized by vehicle trips that follow a specified geographic route, a time schedule, and services having daily start and end time, and operating on specified days of the week. Designated fixed route schedules may be revised or eliminated at the discretion of the County. The awarded Bidder shall furnish all items required to provide the services including labor, material, vehicles (buses), uniforms, and equipment (except as specified in Section 3.2.3) to provide these services as further specified in herein.

**Technical Specifications; formally from RFP825 attachments**

**3.2 FIXED ROUTE TRANSPORTATION SERVICES REQUIREMENTS**

The selected Proposer shall provide chauffeur (driver) driven full size passenger buses in the number and type stated in Sections 3.2.1 and 3.2.2. This type of service is characterized by vehicle trips that follow a specified geographic route, a time schedule, and services having daily start and end time, and operating on specified days of the week. Designated fixed route schedules may be revised or eliminated at the discretion of the County. The selected proposer shall furnish all items required to provide the services including labor, material, vehicles (buses), uniforms, and equipment (except as specified in section 3.2.3) to provide these services as further specified in **Section 3.3 - Bus Requirements and Specifications, Section 3.4 - Display of County Symbol on Buses, Section 3.5- Driver Requirements, Training and Supervisors, and Section 3.6- Communication System.**

**3.2.1 Dade Monroe Express Route**

The Dade Monroe Express Route is a fixed bus route between Florida City in Miami Dade County and Marathon Key in Monroe County as specified in **Section 3.7 – Dade Monroe Express Schedule.**

- A. The selected Proposer shall have available seven (7) air conditioned, wheel chair accessible, full size buses as specified in **Section 3.3, Bus Requirements and Specifications**, seven (7) days a week including all holidays from 5:15 A.M. to 1:05 A.M. Six (6) buses will be utilized to provide the scheduled service routes, and one (1) bus shall be made available in the event a scheduled bus becomes non-operational during service.
- B. The selected Proposer's bus drivers shall stop when hailed by passengers.

**3.2.2 Card Sound Express Route**

The Card Sound Express Route is a fixed bus route from the Florida City, City Hall located at 404 West Palm Drive, Florida City, Florida, and the Ocean Reef Club, located at 35 Ocean Reef Drive, Key Largo, Florida as specified in **Section 3.8 – Card Sound Express Schedule.** The route serves the Ocean Reef Club which is an employment hub for residents of Miami-Dade and Monroe counties.

The selected Proposer shall have available two (2) air conditioned, wheel chair accessible, full size buses as specified in **Section 3.3, Bus Requirements and Specifications**, seven (7)

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days a week including all holidays from 5:30 A.M. to 8:30 A.M. and from 2:35 P.M. to 5:35 P.M. One (1) bus shall be utilized to provide the scheduled service route, and one (1) bus shall be made available in the event the scheduled bus becomes non-operational during service.

**3.2.3 Easy Tickets**

All Passengers must purchase Easy Tickets or have a Pre- Loaded Easy Card to travel. Passengers can purchase Easy Tickets from any County authorized Easy Ticket vendor or the driver in accordance with MDT's Fare Rate Policy. One Ride, One Day and Discount EASY Tickets will be offered for sale on-board selected Proposer's buses. Selected Proposer shall purchase an initial order of 15,000 EASY Tickets for use on the Dade Monroe Express and Card Sound Express specially encoded as "One Ride" (10,000), "One Day" (4,000), and "Discount" (1,000) EASY Tickets in an amount equal to the prevailing rate of a Metrobus ticket as established by the County.

Subsequent to the initial month of operations of this agreement the selected Proposer agrees to purchase additional Easy tickets at the then prevailing rate for each type of ticket equal to the average monthly cash paying passenger. Selected Proposer shall pick-up and pay for Easy tickets at the Overtown Transit Village Pass Sales Office, or at a location designated by the County. Selected Proposer is financially responsible for all EASY tickets purchases. Payment for Easy Ticket shall be made at the time of purchase by the selected Proposer. EASY Tickets have a 60 day activation life and should be sold or exchanged within that period. The County will not exchange any unsold or defective tickets after the 60th day from date of purchase. In the event the selected Proposer receives EASY tickets that are defective, the selected Proposer agrees that it will contact the County to coordinate a time and date convenient for both parties to review and exchange defective EASY Tickets. The County may refund the selected Proposer for any unused tickets returned five (5) business days following the expiration or termination of this agreement.

**3.2.4 Farebox/ Easy Card Reader Equipment**

- A. Farebox / Easy Card Reader and Automatic Passenger Counting (APC) equipment must be installed and operational on each bus, including replacement buses prior to the commencement of service. The County will supply, install and maintained by Equipment. The County reserves the right to remove all fareboxes and replace them with Easy Card Readers only. Cash received from the on-board purchase of Easy tickets shall not be deposited in the County's Farebox / Easy Card Reader; this equipment shall only be used for taping Easy cards and Easy ticket when a passenger boards the bus.
- B. Dimensions- The complete farebox assembly, excluding the mounting base plate, will not be less than thirty-six inches (36"), nor more than forty-one inches (41") high, as measured from the vehicle floor, and not more than (11") in cross section. The base plate for a farebox does not exceed 12-1/2" by 12-1/2".

**3.2.5 Complaints Handling and Notification of Delays**

The selected Proposer shall refer complainants to MDT's Information and Customer Service number (305) 891-3131, TDD (305) 499-8971. The selected Proposer will be informed of all

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complaints received by the County and shall acknowledge receipt of the complaint by phone, facsimile or electronic mail within twenty four (24) hours of receipt. Selected Proposer shall investigate and provide resolution in written form to the County within three (3) working days after receipt of the complaint. In the event a resolution to a complaint is unattainable within the three days, the selected Proposer shall provide an explanation detailing why the complaint has not been resolved, and the number of days the selected Proposer requires to resolve the complaint.

The Selected Proposer shall immediately notify Bus Traffic Control via phone 7days a week 24 hours a day and the project manager via email, Monday to Friday 8:00 a.m. to 5:00 p.m. of any departure more than 30 minutes late from schedule time, accident or major incident including but not limited to passengers being transported to a medical facility or a fatality. Phone numbers will be provided to the selected Proposer.

**3.2.6 Office Facility**

The selected Proposer shall provide an office staffed by competent representative(s) authorized to discuss matters pertaining to these services, who can provide vehicle information, and are cognizant of the routes being serviced. The office shall be equipped with modern office equipment, especially a telephone system (see attachment D (A)), facsimile (Fax) machine and/or an e-mail address.

**3.2.7 Failure to Perform**

Where the selected Proposer fails to perform in accordance with the Contract, the County will assess liquidated damages as prescribed in this Section. Liquidated damages for other types of performance failures may be negotiated by the County and selected Proposer.

A. The selected Proposer will be assessed liquidated damages in the amount equal to twice the current hourly rate for the services for:

- 1) Failure to have a back-up vehicle with required fare collection equipment in place within one hour of reported vehicle failure will result in liquidated damages for each hour after the initial hour of missed service.

or

- 2) Vehicle failure in Marathon: Failure to have a back-up vehicle with required fare collection equipment in place within two hours of reported vehicle failure will result in liquidated damages for each hour after the initial two hours of missed service.

or

- 3) Every out of service hour due to missed run or any other reason.

B. Failure to operate a vehicle that meets all standards set forth in the Contract or for operating a non- accessible vehicle will result in liquidated damages for each hour,

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including the initial hour, or any portion thereof. These damages will be assessed in the amount equal to twice the current hourly rate.

- C. Failure to display signs, when signs have been provided by the County, will result in liquidated damages of \$50.00 per vehicle, per day.
- D. Failure to operate a bus with a functioning farebox / Easy Card Reader will result in liquidated damages in the amount of \$250 per day, for each day the farebox / Easy Card Reader is not functioning.
- E. Failure to respond to complaints received from the County within the specific time period will result in liquidated damages of \$30.00 each day after the response due date.
- F. Failure to adhere to schedules for Fixed Route Service, as monitored by the County and deemed to be within reasonable control of the selected Proposer, shall result in liquidated damages in the amount of twice the current hourly rate where schedules are not followed.
- G. Operating in service for longer than a round trip without an operable air conditioning system will result in liquidated damages of \$100.00 per vehicle, per day.

**3.3 Bus Requirements and Specifications**

Buses may be leased or owned by the selected Proposer. Full size buses shall be new or used but in good condition. Used vehicles are subject to acceptability determination by the County. Any used vehicles providing services to Miami-Dade County must not exceed twelve (12) model years of age during the life of the contract.

- A. The Dade-Monroe service may be provided with a full size bus that has a minimum 45 feet in overall length (excluding energy absorption bumper and extension) and a minimum seating capacity of 52 passenger seats.
- B. Card Sound service may be provided with a full size bus that has a minimum 40 feet in overall length (excluding energy absorption bumper and extension) and a minimum seating capacity of 38 passenger seats.
- 1) General Bus Standards - The selected Proposer shall provide buses which meet or exceed the manufacturers' safety and mechanical standards. Each bus must comply with all safety, mechanical and vehicular requirements mandated by applicable County, State or Federal regulations, including but not limited to Florida Department of Transportation Rule 14-90.007 - Vehicle Equipment Standards and Procurement Criteria, Chapter 31, Article III of the Code of Miami Dade County, applicable Federal Motor Vehicle Safety Standards (FMVSS), and the Americans with Disabilities Act (ADA).

All buses provided shall meet or exceed the requirements listed below:

- 1) Have uniform paint/color schemes on all vehicles.
- 2) Have a rear-view mirror and side-view mirrors mounted on both sides of the vehicle.
- 3) Have a functioning interior light within the passenger compartment.

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- 4) Have a functioning speedometer indicating speed in miles per hours and a functioning odometer correctly indicating distance in tenths of a mile.
  - 5) Have an operable Heating, Ventilation, and Air Conditioning (HVAC) system capable of maintaining the bus interior temperatures between 68 and 72° F. Note: If the air conditioning system becomes inoperable during the day, vehicle shall be replaced at the end of the round trip (North end of the line for the Dade Monroe and Card Sound Routes). The vehicle shall not be used for further service until the air conditioning system has been repaired.
  - 6) Have exterior free of grime, rust, oil or other substances and free from cracks, breaks, dents and damaged paint that noticeably detract from the overall appearance of the vehicle.
  - 7) Be clean in the interior and free from trash, torn floor coverings, damaged or broken seats, and protruding sharp edges at all times.
  - 8) Have unobstructed vision on at least three (3) sides of the vehicle.
  - 9) Free of leaks of any kind.
  - 10) Be equipped with a functioning horn.
  - 11) Meet all ADA requirements such as but not limited to wheelchair accessible and vehicle kneeling system, two wheelchair positions with approved tie downs, a public address system (PA system), destination sign with front, side and rear displays.
  - 12) Have a minimum of two (2) escape and ventilating hatches on roof.
  - 13) Have adjustable driver's seat with seat belts.
  - 14) Have side windows which must be 1/2 inch minimum acrylic or polycarbonate or ¼ inch minimum tempered glass.
  - 15) Have a diesel engine with on board fuel capacity to achieve 400 mile range without re-fueling.
  - 16) Have an automatic transmission and fire suppression system
  - 17) Meet Compliance of air brakes with FMVSS121 and air suspension. c
  - 18) Have stanchions or grab rails.
  - 19) Have a 10 lb. Underwriters Laboratory (UL) approved ABC type fire extinguisher securely mounted in a location readily accessible to the driver.
  - 20) Have a three (3) piece highway reflective triangles.
  - 21) Have an electronic equipment locker with the following minimum dimensions 18"W X 12"H X 20"D equipped with one to two pullout trays. +24 Volt Bus battery voltage (fused at 30A) must be available on a terminal strip in the electronic locker.
- 2) Bus Inspections- Each bus to be used in service shall comply with all the requirements contained in Chapters 30 and 31 of the Miami-Dade County Code, pertinent state statutes and requirements from the Department of Sustainability, Planning, and Economic Development; Passenger Transportation Regulatory Division (PTRD). All buses utilized to provide transportation services must, at all times, display a valid County inspection, and operation permit. Proof of compliance with this section must be supplied to the County upon request. All buses shall be made available for inspection by the County. Any bus found not in conformity with the above standard specified requirements must be removed from service until it passes subsequent inspections. Any bus removed from service shall not return until the County verifies and approves any and all corrections of deficiencies. The County further reserves the right to order the immediate removal from service of any bus not in compliance with any vehicle standards referenced herein. Failure to comply with this requirement will result in disallowance of compensation for services rendered in the violating vehicle.
- 3) Daily Pre-operational Inspections – Daily and pre-operational inspections by the selected Proposer shall be conducted in accordance with FDOT regulations specifically, equipment, operational and safety standards –Public Sector Bus Transit 14-90:

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<http://www.dot.state.fl.us/ctd/events/Presentations/2009%20Conference/Rule%2014-90%20Equipment%20and%20Operational%20Standards.pdf>

and all defects and deficiencies likely to affect safe operation or cause mechanical malfunctions shall be documented in a daily inspection report and the corrective actions taken as a result of the deficiencies. The selected Proposer shall store and provide the reports to the County upon request. The pre-operational inspection shall include the following as a minimum:

- 1) Service brakes
- 2) Parking brakes
- 3) Tires and wheels
- 4) Steering
- 5) Horn
- 6) Lighting devices
- 7) Windshield wipers
- 8) Rear vision mirrors
- 9) Passenger doors
- 10) Exhaust system
- 11) Equipment for transporting wheelchairs
- 12) Safety, security, and emergency equipment

**3.4 Display of County Symbol on Buses**

The selected Proposer shall set aside space in the interior and on exterior of the bus to display approved County postings when the buses are being used to provide services for the County.

A. Signage- Prior to the commencement of service, the selected Proposer shall provide and install permanent route indicators and destination signs in the manner prescribed by the County. All destination sign must comply with ADA requirements. All signs need to be preapproved by MDT prior to installation. The following signs shall be required:

- 1) Windshield Destination Sign: A sign showing the name of the route destination, name of the service and County logo installed at the top of the windshield on the passenger side in clear view of the public. Sign size shall be 15" in height and 36" wide. Signs can be magnetic or electronic. The sign shall be controlled via a single human-machine interface (HMI). In the absence of a single mobile data terminal (MDT) the HMI shall be conveniently located for the bus driver within reach of the seated driver. The destination sign compartments shall meet the minimum requirements:
  - Compartments shall be designed to prevent condensation and entry of moisture and dirt.
  - Compartments shall be designed to prevent fogging of both compartment window and glazing on unit itself.
  - Access shall be provided to allow cleaning of inside compartment window and unit glazing.
  - Front window shall have an exterior display of no less than 8.5" in high by 65" wide.
- 2) Side of Bus: An 18" tall by 36" wide sign shall be located on each side of the bus to identify the service with the County logo. The County will provide digital logo for reproduction. Signs can be magnetic or electronic.

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- 3) Rear of Bus: An 18" tall by 36" wide sign shall be located on the rear of the bus to identify the service with the County logo. Signs can be magnetic or electronic.

**3.5 Driver Requirements and Training**

The selected Proposer shall ensure that its drivers adhere to all applicable standards contained in FDOT rule chapter 14-90 and the following provisions:

- A. Personal Appearance - Cleanliness and neatness are required at all times. Driver's uniform is required and shall consist of a collared shirt of solid color with a logo identifying the selected Proposer's name, and a solid color pant. Uniforms must be clean and in good condition at all times.
- B. Personal Habits - The following acts are not permissible by drivers when providing services for the County:
  - 1) Use of intoxicating liquors, narcotics or controlled substances of any kind while on duty or reporting for duty in uniform (excluding doctors' prescriptions which do not adversely affect the driver's ability to perform his or her duties).
  - 2) Gambling in any form while on duty or providing services under this Contract.
  - 3) Smoking and other uses of tobacco while on duty except in places or at times designated for that purpose.
  - 4) Carrying of pistols, firearms or concealed weapons while on duty.
  - 5) Resorting to physical violence to settle a dispute with a fellow employee or the general public while on duty. In self-defense an employee may use no more force than is reasonably necessary to defend him or herself.
  - 6) Spitting or any other unsanitary practices are prohibited while on duty or providing services under this Contract.
  - 7) Use of loud, indecent or profane language and/or making threatening or obscene gestures toward passengers or other employees.
- C. Driver's Responsibility - Drivers must perform safe, smooth and efficient operation of vehicles and avoid discomfort or inconvenience to the passengers. The driver of the vehicle shall be responsible for but not limited to:
  - 1) Adherence to route, schedules and time points
  - 2) Knowledge and observance of traffic laws and safety regulations
  - 3) Safety of boarding and alighting passengers
  - 4) Proper display of all required signs and identifications
  - 5) Adjustment of lighting, heating, ventilation and cooling for the comfort of passengers
  - 6) Distribution of transit informational publications on buses as directed by MDT
  - 7) Performance of such other duties as may from time to time be prescribed by the County
- D. Driver History - Prior to placing a driver in service, the selected Proposer shall conduct a thorough driver's license check for a minimum of five (5) years in the past to ensure that all drivers providing services under the resultant contract have no history of DUI, DWI, reckless driving convictions, leaving the scene of an accident, or any other serious offenses. The selected Proposer shall ensure that all drivers providing services under the resultant contract shall have no more than three (3) moving violation points on their State driver's license within

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the last three (3) years. Driver license check information is available at the Internet address below.

<http://www.flhsmv.gov/ddl/abstract.html>

Prior to placing a driver in service, the selected Proposer shall obtain a nationwide criminal background check by fingerprint through the National Crime Information Center (NCIC). This shall include, as a minimum, any criminal history which might impair the service to customers, including convictions for crimes involving assault, battery and moral turpitude in any state to ensure that all drivers providing services under the resultant contract will have no history of such offenses. The NCIS check will be processed by the County at a cost to the selected Proposer of \$45 per person (current rate, subject to change). The selected Proposer shall pay the County by check made to the Board of County Commissioners. In accordance with administrative Order No. 4-86, all checks shall be drawn only on United States banks in United States' currency with the drawer's name and addresses imprinted on the check. The County will notify the selected Proposer of the approval or denial of the driver applicant.

The selected Proposer shall review the driver history biannually (twice a year) for all drivers and perform NCIC background checks annually. If the selected Proposer becomes aware of any driver not in compliance with the requirements stated herein, the selected Proposer shall immediately remove the driver from service.

- E. Driver Registration - Drivers shall have and maintain a current, valid State Commercial Drivers License (CDL). CDL Driver licenses must have passenger endorsement.

Drivers shall notify the selected Proposer immediately of any citation, arrest, or suspension or revocation of driver's license in accordance with all FDOT 1490 regulation and operating procedures. The selected Proposer shall notify the County of any driver who has his/her Driver's License suspended or revoked by close of business the next business day after such notification by the driver. The selected Proposer shall also immediately notify the County of all driver resignations or terminations. The County retains the right to monitor all drivers' licenses for eligibility and to immediately remove any driver from services for non-compliance.

- F. Driver Training Program - The selected Proposer shall certify that the drivers and other personnel providing transportation under this Contract have completed initial and yearly refresher training. This written training program must be submitted to the County and is subject to review and approval by the County. All instructors are to be certified by the National Safety Council, Smith System or equivalent as approved by the County. Records of the drivers' attendance must be kept on file by the selected Proposer and made available to the County for review upon request. The training program should consist of, but not be limited to, the following:

- 1) Defensive and safe driver training according to National Safety Council, Smith System or equivalent
- 2) Passenger courtesy and comfort
- 3) Policy clarification as it relates to drivers requesting and or receive gratuity (tips)
- 4) Technical training in the proper use of vehicle equipment, where applicable
- 5) ADA policies and guidelines
- 6) Sexual Harassment policy training in accordance with County guidelines
- 7) All applicable standards contained in FDOT Rule Chapter 14-90

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- G. Driver Service Training - Miami-Dade Transit staff will provide initial and yearly refresher training programs to all drivers providing transportation under this Contract. MDT staff will determine the location and provide training upon a mutually agreed schedule. Training will include but will not be limited to the following.
- 1) Rights and responsibilities of the drivers
  - 2) Rights and responsibilities of the riders
  - 3) Transit Fares
  - 4) Safety, ADA, and FDOT policies and guidelines
  - 5) Route alignment, turnaround locations, rest facilities
  - 6) Adherence to route, schedules and time points
- H. Driver Physical - Drivers shall have physical examinations as required by Florida Department of Transportation Rule 14-90. The selected Proposer shall keep copies of the physical examinations.
- I. Drug-free Workplace and Testing- The selected Proposer shall comply with all applicable requirements of the United States Department of Transportation (USDOT), regulations for drug and alcohol testing for all persons holding safety-sensitive positions, as defined by USDOT related to transit operation.
- J. Prior to placing a driver in service, all the information listed in D, E, F, H, and I above shall be provided to the County.
- K. The County reserves the right to remove any driver from service for cause.

Supervisors

The selected Proposer shall provide supervisors on an as needed basis at the direction of the County. Supervisors shall monitor on-time performance, adherence to route schedules, safety, and other issues to assure excellent delivery of service.

**3.6 Communication System**

The Contractor's Communication System shall consist of:

- A. Telephone System - The selected Proposer shall provide a dedicated telephone line to ensure accessible communication between the County and the selected Proposer's facility (see Section 2.5) for the purposes of canceling trip requests as well as handling other emergencies.
- B. Two-Way Radio System or Alternative Two-way Communication System - The selected Proposer shall be in regular radio communication with all vehicles providing transportation service through a base station or a County approved alternative communication system (e.g., mobile phones). Vehicle Drivers must comply with Miami-Dade County Implementing Order 6-8: Use of Cellular Telephones and Similar Wireless Devices while Operating County Vehicles.
- C. Vehicle Modem - The selected Proposer shall purchase, install and maintain in good working order Mobile Access Routers/Gateways to include Global Positioning System (GPS) functionality in each vehicle authorized to provide services under the provisions of the resultant contract. Miami-Dade Transit will provide the selected Proposer General Packet Radio Service

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(GPRS) Cellular Cards to be installed by the selected Proposer in the Mobile Access Routers/Gateways. Miami-Dade Transit will utilize the equipment as an extension to the Mileage Positioning System (MPS), whereby MDT will monitor and track vehicles providing transportation services for the County.

The selected Proposer shall be responsible for all cost associated with the installation and maintenance of the Mobile Access Routers/Gateways with the exception of recurring cellular fees. All recurring cellular fees will be the responsibility of Miami-Dade Transit. Prior to procuring the Mobile Access Routers/Gateways and Antennae the selected Proposer must obtain written approval from the Miami-Dade Transit Project Manager. All Mobile Access Routers/Gateways supplied the selected Proposer shall comply with the minimum specifications:

Reference-In Motion on Board Mobile Gateway or approved equals /better:

- 1) Small Form Factor, Ultra-Rugged Design
- 2) Built-in mobile access point
- 3) Able to operate within the vehicle power range and restrictions
- 4) Operates in extreme conditions:
- 5) Operating Temperature: up to 140°F
- 6) Operating Humidity: 10 - 95 %
- 7) Compliance with SAE J1455 (Vibrations, Shock, Drop)
- 8) Environmental electromagnetic interference /compatibility
- 9) Equipment shall comply with UL standards in accordance to the deployment scenario. Such compliance shall be clearly stated in a UL label.

**WAN**

- 1) Integrated compatibility with current wireless WAN standards: EVDO, GPRS, GPRS EDGE, UMTS, HSDPA, HSUPA.
- 2) IEEE 802.11 a/b/g/n (capable of simultaneous dual-band)
- 3) Compatibility with future standards 802.20 (LTE)
- 4) Express Card, Mini PCIe, MiniPCI and USB formats
- 5) Multiple manageable WAN connections with roaming ability and low latency handoff
- 6) IPsec Encryption (LAN to LAN or similar)

**LAN**

- 1) DHCP Server (RFC 2131)
- 2) Serial
- 3) Ethernet (4 or more ports)
- 4) IEEE 802.11 b/g
- 5) WEP, WPA, WPA2, WPA2 Enterprise (802.11i)
- 6) Port blocking/forwarding
- 7) NAT, SPI Firewall

**Physical Interfaces**

- 1) Ethernet – RJ45 x 4 or more.
- 2) USB 2.0 x 2 or more
- 3) Serial – Full RS232
- 4) Expansion cards or customizable panels to accommodate additional connectors.

**GPS Capable**

- 1) Embedded multiple channel GPS receiver
- 2) NMEA and TAIP messaging
- 3) Local and remote forwarding via TCP or UDP

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**Protocols**

- 1) HTTP, HTTPS, SMTP, POP, IMAP, FTP, PPP (RFC 2516), SSH, IP V.4/V.6
- 2) Compatible with industry standard mobile routing protocols (including GRE)

**Power Management**

- 1) Auto Power-Up on ignition sense
- 2) Programmable shut-off delay (up to 2 hours)
- 3) Input voltage monitoring with configurable auto-shutdown
- 4) Temperature detection with auto-shutdown protection

**Antennae External**

- 1) TriMode Combo Antenna
- 2) Cellular /PCS and GPS combination into one small enclosure
- 3) All weather resistant
- 4) 30 dB gain
- 5) Omni Directional radiation pattern

**Antennae Internal**

- 1) Wi-Fi Antenna
- 2) Small footprint, low profile
- 3) Adhesive mount
- 4) 4.5 dB gain or better
- 5) Omni Directional radiation pattern

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**3.7 Dade Monroe Route Schedule**

**DADE-MONROE EXPRESS  
WEEKDAY-SATURDAY-SUNDAY**

Florida City	Key Largo	Tavernier	Islamorada	Marathon
	M/M 98	M/M 87	M/M 74	M/M 50
(Depart)				(Arrive)
5:15 AM	6:10 AM	6:25 AM	6:50 AM	
5:30 AM	6:25 AM	6:40 AM	7:05 AM	
5:35 AM	6:30 AM	6:45 AM	7:10 AM	
5:40 AM	6:35 AM	6:50 AM	7:15 AM	7:50 AM
6:10 AM	7:05 AM	7:20 AM	7:45 AM	
7:50 AM	8:45 AM	9:00 AM	9:25 AM	
8:40 AM	9:35 AM	9:50 AM	10:15 AM	
10:30 AM	11:25 AM	11:40 AM	12:05 PM	12:40 PM
11:30 AM	12:25 PM	12:40 PM		
1:00 PM	1:55 PM	2:10 PM	2:35 PM	3:10 PM
1:30 PM	2:25 PM	2:40 PM	3:05 PM	
2:00 PM	2:55 PM	3:10 PM	3:35 PM	
3:20 PM	4:15 PM	4:30 PM	4:55 PM	5:30 PM
5:40 PM	6:35 PM	6:50 PM	7:15 PM	
6:20 PM	7:15 PM	7:30 PM	7:55 PM	8:30 PM
8:30 PM	9:25 PM	9:40 PM	10:05 PM	10:40 PM
9:15 PM	10:10 PM	10:25 PM		

Marathon	Islamorada	Tavernier	Key Largo	Florida City
M/M 50	M/M 74	M/M 87	M/M 98	
(Depart)				(Arrive)
	6:55 AM	7:20 AM	7:35 AM	8:30 AM
	7:10 AM	7:35 AM	7:50 AM	8:45 AM
	7:20 AM	7:45 AM	8:00 AM	8:55 AM
	7:50 AM	8:15 AM	8:30 AM	9:25 AM
8:05 AM	8:40 AM	9:05 AM	9:20 AM	10:15 AM
	9:45 AM	10:10 AM	10:25 AM	11:20 AM
	10:25 AM	10:50 AM	11:05 AM	12:00 PM
		12:45 PM	1:00 PM	1:55 PM
1:00 PM	1:35 PM	2:00 PM	2:15 PM	3:10 PM
	3:15 PM	3:40 PM	3:55 PM	4:50 PM
	3:50 PM	4:15 PM	4:30 PM	5:25 PM
3:45 PM	4:20 PM	4:45 PM	5:00 PM	5:55 PM
5:50 PM	6:25 PM	6:50 PM	7:05 PM	8:00 PM
	7:30 PM	7:55 PM	8:10 PM	9:05 PM
8:45 PM	9:20 PM	9:45 PM	10:00 PM	10:55 PM
		10:45 PM	11:00 PM	11:55 PM
11:00 PM	11:35 PM	12:00 AM	12:15 AM	1:10 AM

Total number of service hours daily: 65:25

- A. Six (6) southbound and six (6) northbound trips shall be provided between Florida City and Marathon Florida mile marker 50.
- B. Nine (9) southbound and nine (9) northbound trips shall be provided between Florida City and Islamorada at mile marker 74.

**SECTION 3  
TECHNICAL SPECIFICATIONS**

**FIXED BUS ROUTES FOR MIAMI-DADE TRANSIT**

- C. Two (2) southbound and two (2) northbound trips shall be provided between Florida City and Tavernier at mile marker 87.

**3.8 Card Sound Route Schedule**

**Card Sound Express**

Weekday-Saturday- Sunday

**Southbound**

Florida City City Hall (Departure)	Ocean Reef Club (Arrive)
5:30 AM	6:05 AM
7:05 AM	7:40 AM
2:35 PM	3:10 PM
4:10 PM	4:45 PM

**Northbound**

Ocean Reef Club (Departure)	Florida City City Hall (Arrive)
6:20 AM	6:55 AM
7:55 AM	8:30 AM
3:25 PM	4:00 PM
5:00 PM	5:35 PM

**Total number of service hours: 6:00**

- A. Four (4) southbound and four (4) northbound trips shall be provided between Florida City, City Hall to the Ocean Reef Club.

**Please provide three client references below:**

**Project Title:**

**Client Name:**

**Contact Number:**

**Scope Description:**

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**Project Title:**

**Client Name:**

**Contact Number:**

**Scope Description:**

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**Project Title:**

**Client Name:**

**Contact Number:**

**Scope Description:**

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