



Public Works Department – Office of Transportation – TRAFFIC ENGINEERING DIVISION  
2300 W. Commercial Boulevard • Fort Lauderdale, Florida 33309 • 954-847-2600 • FAX 954-735-8564

**REQUEST FOR PROPOSALS**  
**RFP # 20070402-0-TE-1**  
**TRAFFIC SIGNAL VIDEO DETECTION**

**REQUEST FOR PROPOSALS**

Broward County, FL (“County”) hereby solicits proposals from Vendors interested in furnishing and installing video-based vehicle detection at up to 700 traffic signals under the jurisdiction of the Broward County Traffic Engineering Division. Ten (10) sealed proposals and 2 CD’s containing all proposal information in WORD format should be sent to:

Broward County Purchasing Division  
Room 212 Governmental Center  
115 S. Andrews Avenue  
Fort Lauderdale, FL 33301

**Proposals from prospective Vendors must be received by the Purchasing Division no later than 5:00 PM local time on August 15, 2007.**

Please mark envelopes as following: “Proposals for Traffic Signal Video Detection, RFP # 20070402-0-TE-1 ELECTRONICALLY TRANSMITTED, LATE OR MISDIRECTED SUBMITTALS WILL NOT BE ACCEPTED.

**In accordance with the Americans with Disabilities Act of 1990, all persons who are disabled and who need special accommodations to participate in any proceeding concerning this RFP because of that disability shall contact John Kleinedler no later than five (5) business days prior to the proceeding. John Kleinedler may be reached at the Broward County Traffic Engineering Division, 2300 W. Commercial Blvd., Fort Lauderdale, FL 33309, telephone 954.847.2753.**

FOR ADDITIONAL INFORMATION regarding this RFP, contact John Kleinedler at 954.847.2753.

This RFP was publicly advertised on July 3, 2007.

**GENERAL DESCRIPTION OF TRAFFIC SIGNAL VIDEO DETECTION**

The Traffic Signal Video Detection Vendor shall furnish and install, utilizing signal contractors, video-based vehicle detection at up to 700 signalized locations determined by Broward County Traffic Engineering as described in the attached Statement of Work (“SOW”), **Attachment A**. Prior to payment for, and County assumption of maintenance, installations must pass inspection by the Traffic Engineering Division.

**SMALL BUSINESS DEVELOPMENT PROGRAM REQUIREMENTS**

**The Broward County Business Opportunity Act of 2004 (Act), Broward County Ordinance 2004-07 establishes the County’s policy for participation by small, minority, women-owned, and disadvantaged business enterprises in all County contracts and in other selected activities.**

**In accordance with the Act, participation goals for this Contract are as follows:**

**The Small Business Development Division will determine assignment of goals, if applicable, at a later date.**

<b>Category</b>	<b>Participation Goal</b>
<b>Total Goal</b>	<b>TBD</b>

**For additional guidance on what information or documentation is deemed acceptable for satisfying the good faith efforts requirements, please contact Small Business Development at 954-357-6400.**

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**\*\*\*NOTICE TO PROPOSERS\*\*\***

**Proposers are invited to pay strict attention to the following requirements of this RFP. The information being requested in this section is going to be used by the Selection Committee during the selection/evaluation process and further consideration for contract award.**

**RESPONSIVENESS CRITERIA**

**Failure to provide the information required by Items 1, 2 and 3, below, at the time of submittal opening may result in a recommendation of non-responsive by the Purchasing Director. The Selection Committee will determine whether the firm is responsive to the requirements specified herein. The County reserves the right to waive minor technicalities or irregularities as is in the best interest of the County in accordance with Section 21.30.f.1(c) of the Broward County Procurement Code.**

**1. Financial Information**

All firms are required to permit Broward County to inspect and examine their financial statements. Each firm shall submit its annual financial statements for the number of years required by item 4, of the Company Profile section of this RFP, in the form of its: (1) balance sheets, income statements, and annual reports; (2) tax returns; or (3) SEC filings. If a firm is privately held and asserts that any of its financial statements are confidential trade secret information, the firm shall make new financial statements which it asserts are confidential available in Broward County, Florida, for inspection and examination by the appropriate County staff prior to evaluation rating or no later than the time specified in writing by the Chair of the Selection Committee. The financial statements are not required to be audited financial statements.

An element of responsiveness for purposes of disclosing the financial statements required by this RFI is that the firm act in good faith in making its disclosure. Therefore, with respect to the number of years of financial statements required by this RFI, the firm must fully disclose the information for all years; provided, however, that if the firm has been in business for less than the required number of years, then the firm must disclose for all years of the required period that the firm has been in business, including any partial year-to-date financial statements. If the firm's most recent annual financial statements are unavailable, the County may, but is not required to, consider such unavailability in instances when the most recent year's financial statements are not disclosed.

**2. Litigation & Other Contract Dispute Information**

All firms are required to make the following disclosures to Broward County in their submittal to this RFP: Each firm shall list and describe all business-related lawsuits and litigation, claims, arbitrations, and administrative hearings; negligence; errors and omissions; and contract defaults, terminations, suspensions, or failure to perform brought by or against the firms, its predecessor organizations (s), any of its wholly-owned subsidiaries, or its principals and officers during the last (5) years. The list shall include all case names; case, arbitration, or hearing identification numbers; the name of the project over which the dispute arose; a description of the subject matter of the dispute; and the final outcome of the matter or the current status if the matter has not become final.

**3. Small Business Development Division Program - For detailed requirements, refer to the Small Business Development Program Requirements section of this RFP.**

The Small Business Development Division will determine assignment of goals, if applicable, at a later date.

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**LOCAL PREFERENCE CLAUSE**

In accordance with Broward County Ordinance No. 2004-29, the Broward County Board of County Commissioners provides a local preference. This preference includes any county with which the Broward County Board of County Commissioners has entered into an inter-local agreement of reciprocity. Except where otherwise provided by federal or state law or other funding source restrictions, a local proposer whose submittal is within 10% of the highest total ranked proposer outside of the preference area will become the firm with whom the County will proceed with negotiations for a final contract.

Local business means the vendor has a valid occupational license issued by the county within which the vendor conducts their business at least one year prior to bid or proposal opening, that authorizes the business to provide the goods, services or construction to be purchased and a physical address located within the limits of said county, in an area zoned for the conduct of such business, from which the vendor operates or performs business on a day-to-day basis that is a substantial component of the goods or services being offered. Post Office Boxes are not verifiable and shall not be used for the purpose of establishing a physical address.

**EVALUATION PROCESS**

An Evaluation Committee ("EC") has been appointed by the Broward County Traffic Engineering Director consisting of the Directors of Traffic Engineering, Highway and Bridge Maintenance, Highway Construction and Engineering and the Broward County MPO. This EC will be responsible for recommending the most qualified firm with whom to begin negotiation of a Furnish and Install Agreement for this project. It is anticipated, but not required, that the process for the procurement of this project proceeds in the following manner:

**REVIEW OF WRITTEN SUBMITTALS**

Each firm shall submit documentation requested by this RFP to provide evidence of capability to furnish and install services required for the Project. The table below lists the evaluation factors that will be used by the EC to prepare an analysis and summary of each firm's capability. This analysis is a tool that will be used by the EC in making its decision. Each responsive firm will be contacted via telephone and follow-up letter to advise of the date and time for presentations/interviews, if any. The Director of Traffic Engineering reserves the right to waive any informalities, technicalities, and irregularities, or to reject any or all responses, or any part of any response, and accept the responses deemed most advantageous and in the best interest of the County. County staff and/or the EC have the right to inspect the facilities and organization of any respondent, to make inquiries, to conduct financial audits, to ask for further information, or to take any other action necessary to determine ability to perform in accordance with the RFP and a subsequent Furnish and Install Agreement. The EC shall have the right to extend the date for the receipt of responses and all other dates set forth in this RFP by Addendum.

**PRESENTATIONS/INTERVIEWS**

The EC may provide a list of subject matter related to the evaluation factors for discussion. If presentations/interviews are scheduled, each responsive firm will be given equal time to make presentations. Question-and-answer time afterward may vary. The responsive firms will be evaluated after their presentations.

**TECHNICAL STAFF PARTICIPATION**

Technical staff will have only such authority as may be delegated by the EC or the Director of Traffic Engineering. Without such delegated authority, technical staff serves purely in an information gathering capacity. The EC may delegate authority to the staff to negotiate contractual terms and conditions with the selected Vendor, and those negotiations are subject to Florida's Sunshine Law.

**RESOLVE PROTESTED SOLICITATIONS AND PROTESTED AWARDS**

According to the Broward County Procurement Code Part IX, "Pre-Litigation Protested Solicitations and Proposed Awards," any actual or prospective contractor or offerer who is aggrieved in connection with the solicitation or proposed award of a contract which does not exceed the amount of the award authority of the Director, may protest to the Director. The protest shall be submitted in writing within three working days from the time the recommendation for award is made by a Purchasing Agent to the Director or his designee and posted on the Purchasing Bulletin Board.

The entire Chapter of the Broward County Procurement Code describing the aforementioned subject matter can be obtained from the Purchasing Division's Secretary by calling (954) 357-6071.

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**CANCELLATION OF PROCUREMENT**

The EC may choose at any time prior to award to recommend to the Broward County Director of Traffic Engineering that this procurement be cancelled and that all request for proposals be rejected.

**DELIVERY of Furnish Only Items**

Delivery is Free on Board (F.O.B.) destination as per the Eligibility Requirements herein and the attached SOW (Statement of Work), and is to be made to the following site: 4900 West Prospect Road, Fort Lauderdale, FL 33309.

**EVALUATION FACTORS, CRITERIA AND BASIS OF AWARD**

The Evaluation Committee will evaluate all proposals and make its recommendation to the Broward County Traffic Engineering Director based on the following factors and criteria:

<b>Evaluation Factors</b>	<b>Criteria</b>
Video Detection functionality – 35%	Minimum functionality are described in Video Detection Specifications, <b>Attachment B</b>
Capability and Approach – 30%	Deployment schedule strategy over the duration of project.
Technical Support – 10%	Ability and willingness to provide live technical support, software and hardware upgrades for the duration of the project. Refer to <b>Attachment C</b> .
Price – 25%	Total Cost of Ownership and future maintenance as requested in the Statement of Work, <b>Attachment A</b> .

**ELIGIBILITY REQUIREMENTS (ESTABLISHED MINIMUM)**

To be eligible to respond to this RFP, the Vendor must have an ISO 9000 certification and team with a signal contractor who is licensed to operate in the State of Florida as a Florida Department of Transportation (FDOT) qualified signal contractor that has been in existence for at least three years with the most recent two years under their own name and has done work that meets or exceeds Florida Department of Transportation (FDOT) standards. The Vendor shall have been in continuous existence for at least three years having supplied local government agencies with video detection systems during those three years.

**INSURANCE REQUIREMENTS**

Insurance requirements will be determined by Broward County's Risk Management Division and will be included in the Furnish and Install Agreement. It is not necessary to have insurance in effect at the time of response to this RFP, but certificates indicating that the insurance is in effect will be required when the Furnish and Install Agreement is executed. Refer to **Attachment E** for a listing of minimum requirements. For additional information please contact Risk Management at (954) 357-7219.

**CONFIDENTIAL and PROPRIETARY**

Broward County is subject to Chapter 119, Florida Statutes Public Records Law. No claim of confidentiality or proprietary information in all or any portion of a response to the RFP will be honored unless a specific exemption from the Public Records Law exists and it is cited in the response to the RFP. A blanket statement that the entire response is exempt from the Public Records Law is not acceptable and will not be honored. Any claimed exemption must be specifically identified by page and paragraph number(s). An incorrectly claimed exemption does not disqualify the firm, only the exemption claim.

**DOMESTIC PARTNERSHIP PREFERENCE** Exhibit "F"

The Broward County Board of County Commissioners reserves the right to apply a preference in the award of a contract to those firms providing for benefits to employees' domestic partners and domestic partners dependents, and who certify to same on a form prescribed by the Purchasing Division. To be eligible for this preference, the firm must submit the certification form within five (5) days after written request by the County, and in any case, prior to the award.

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**SPECIAL NOTICE**

In accordance with OSHA Regulation 29 CFR 1926.1101(k)(2), bidders are notified of the presence of asbestos containing material and/or presumed asbestos containing material at some Broward County locations. For a listing of those locations, refer to [www.broward.org/purchasing/bids/asbestos.pdf](http://www.broward.org/purchasing/bids/asbestos.pdf). You may request a copy of subject location listing by calling (954) 357-6066.

**GOVERNING LAW**

The Furnish and Install Agreements shall be governed by the laws of the State of Florida, and the venue for any legal action will be Broward County, Florida. A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit an offer to perform work as a consultant or contract with a public entity, and may not transact business with Broward County for a period of 36 months from the date of being placed on the convicted vendor list.

**Cone of Silence**

At the time of the first scheduled meeting of the Evaluation Committee in this RFP process, a Cone of Silence will be imposed. Section 1-266, Broward County Code of Ordinances, provides that after the first scheduled Evaluation Committee meeting, potential vendors and their representatives are substantially restricted from communicating regarding this RFP with any county commissioner or commissioner's staff, the county administrator, deputy and assistants to the county administrator and their respective support staff, or any person appointed by the county commission to evaluate or recommend Evaluation in this RFP process. After the application of the Cone of Silence, inquiries regarding this RFP should be directed to the Director of Purchasing or designee.

The Cone of Silence terminates when the County Commission or other awarding authority takes action which ends the solicitation.

**Attachments**

- Attachment A - Statement of Work
- Attachment B - Video Detection Specifications
- Attachment C - Technical Support
- Attachment D - Bonding
- Attachment E - Insurance Requirements
- Attachment F - CERTIFICATION OF VENDORS PROVIDING BENEFITS FOR DOMESTIC PARTNERS

**Attachment A – Statement of Work (SOW)**

The Board of County Commissioners has authorized funding to furnish and install video-based vehicle detection at traffic signals under county jurisdiction over the next four years. This is anticipated to be at a minimum 600 locations and at a maximum 700 locations.

A manufacturer or distributor of video detection shall be the prime contractor and their subcontractor(s) will be the installers.

The electronic components of the video detection equipment utilized for deployment shall be from a sole supplier in order to minimize maintenance and storage and to maximize operational and training uniformity.

Installations will be at both strain pole and mast arm traffic signal locations with the majority being strain pole.

Attachment B, the Broward County Video Detection Specifications, contains details pertaining to minimum video detection specifications, strain pole and mast arm installations.

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**Attachment B – Video Detection Specifications**

# VIDEO DETECTION SPECIFICATIONS

Prepared by  
Broward County  
Traffic Engineering Division

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**VIDEO VEHICLE DETECTION SYSTEM**

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**1.0 DESCRIPTION**

The following specifications describe minimum requirements to furnish a complete Video Detection System to Broward County. The system shall be capable of providing presence vehicle detection at signalized intersections. The video detection system shall be expandable without removing or replacing existing units.

**2.0 OVERVIEW**

Acceptable systems shall be approved by the Florida Department of Transportation (FDOT), and meet all qualifying specifications identified herein. Using standard image sensor optics and in the absence of occlusion, the system shall be able to detect vehicle presence with 98% accuracy under normal conditions (days and nights), and 96% accuracy under adverse conditions (fog, rain, etc).

All items and materials furnished shall be new, current production models installed and operational in a user environment, and shall be items currently in distribution.

Equipment malfunctions SHALL not effect more than (2%) of all installed equipment per year during the warranty period. Failure is defined as the inability of the installed equipment to detect vehicles on one (1) or more approaches of the intersection.

**3.0 GENERAL**

These technical specifications describe the minimum physical and functional requirements of a video detection system. The system shall be capable of monitoring all vehicles on the roadway, providing video-based vehicle detection and have the capability of being programmed via a CRT display and a mouse. As a minimum, the video detection system shall consist of the following:

- Video Image Processing units (4.0 and 5.0)
- Video Cameras with IR filter, enclosure, and sun shield (6.0)
- Surge suppressors (8.1)
- Camera Focusing Devices (7.0)
- Coaxial/Power Cable (10.0)
- Point Discharge Dissipation Terminals (8.2)
- Mounting Bracket Arms (9.0)
- 9 inch industrial grade CCTV monitor (11.0)
- VDMS Software (12.0)
- Detector programming devices (13.0)
- Training for installation, operation & maintenance (15.0)
- All other necessary equipment to make this a complete and operational system.

**4.0 Video Image Processor**

The Video Image Processor (VIP), if located inside the cabinet, shall be modular by design and housed in either a self-contained stand-alone unit or fit directly into NEMA TS1 or TS2 type racks as well as Type 2070 cabinet. The VIP shall be interchangeable between a shelf or rack mount installation without replacing or modifying the existing VIP units. The VIP module shall be able to connect to a camera.

The VIP shall include and not be limited to the following:

- 4.1 A video system communication board shall control a minimum of 4 VIP boards allowing for a minimum of 8 image sensors per board.
- 4.2 The system shall be designed to operate reliably in the adverse environment of roadside cabinets and shall meet or exceed all NEMA TS1 and TS2, as well as ATC environmental specifications.
- 4.3 The VIP Video inputs shall be 75 ohms impedance with High Z option.
- 4.4 Ambient operating temperature shall be from -34 to +74 degrees Centigrade (-29 to +165 F) at 0 to 95% relative humidity non-condensing.

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- 4.5 The system shall be powered by a self contained power supply in a shelf contained stand alone configuration. Power consumption in this configuration shall not exceed 135 Watts. Rack mount installations shall be powered by the detector rack power supply and the power consumption in this configuration shall not exceed the ratings of the power supply.
- 4.6 Surge ratings shall be set forth in the NEMA TS1 and TS2 specifications.
- 4.7 Serial communications shall be via an RS232 serial port and Ethernet communication port (RJ-45 connection). The Ethernet communications port shall meet the latest applicable IEEE Ethernet Protocol standards and shall be capable of communicating at 10/100 mbps. These ports can be used for communications to a laptop, a hardened Ethernet switch or fiber modem for upload/download detector configurations, count, turning movement, queue length data, technical events, send firmware upgrades and carryout remote setup of detectors. A standard Internet browser shall connect to Ethernet IP addressable port (RJ-45 connection) to monitor and set-up the VIP boards.
- 4.8 Each VIP board shall have 4 opto-isolated open collector outputs. A minimum of twenty (20) additional outputs shall be available via the expansion port. The outputs shall be programmed for signaling the presence, the arrival or the departure of vehicles in a minimum of 24 detection zones per video image.
- 4.9 Each VIP board shall allow for a minimum of eight (8) logic inputs from each I/O Expansion port.
- 4.10 Each VIP board shall have error detection. An output contact will provide a constant call if the video signal is bad or the VIP board is not functioning properly. The VIP board shall go into a recall state in cases of severe degraded visibility (i.e., fog, blizzard, etc.). Normal detection resumes when visibility improves above the user defined quality level.
- 4.11 Operator selectable recall shall be available via the VIP front panel. The operator shall have the ability to assign selectable outputs for recall.
- 4.12 A video select button on the VIP front panel will switch between camera images of the VIP.
- 4.13 The VIP board shall have one or two video inputs that support either RS-170 (monochrome) or RS 170A (Color) composite video signals. The VIP shall also have one video out port.
- 4.14 The VIP board shall have a reset button to reset video detectors to “relearn” the roadway image. During “relearn”, selectable recall can be enabled or disabled for immediate operation. Learning time of video detectors must be less than 6 minutes.
- 4.15 External surge suppression, independent of the VIP board, shall separate the VIP from the image sensor.
- 4.16 The VIP board shall have separate light emitting diodes (LEDs) that indicate the status of input power, system communications, input video status and output detection status.
- 4.17 The VIP Expansion board shall have separate LEDs that indicate the status of input power, system communications and output detection status.
- 4.18 Video selection of images from different cameras shall be performed remotely through the use of a Browser.
- 4.19 The Video Image Processor shall have a minimum MTBF (Mean Time Between Failures) of 60,000 hours.

**5.0 Functional Capabilities**

The Functional capabilities of the VIP shall include and not be limited to:

- 5.1 Real Time Detection.

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- 5.2 Each VIP board shall be capable of processing the video signal of a minimum of four cameras. The video signal shall be analyzed in real time. It shall provide software MPEG-2 video compression at 30 frames per second.
- 5.3 The system shall be expandable up to 8 cameras that may be connected to different VIP units and programmed independently.
- 5.4 The system shall be capable of displaying detectors on the video image with associated outputs. Outputs/Inputs status will be indicated on the screen. Selectable text overlay will also include the ability to view raw video without any verbiage and/or detectors for monitoring purposes.
- 5.5 Each VIP board will detect within the view of the connected camera the presence of vehicles in user-defined zones. Detectors available shall be presence, count, and queue length, turning movement, delay, extension, or pulse mode of either arrival or departure of vehicles. Delay and extension shall be defined between 0.1-25 seconds in increments of 0.1 seconds. Pulse mode shall be 125ms +/- 25ms. Queue length detector thresholds can be programmed to generate an output when the threshold is exceeded.
- 5.6 The VIP board shall be programmed with a standard CCTV monitor, lap top and keypad and/or mouse plugged into the VIP serial port to facilitate detector programming.
- 5.7 The VIP board shall store a minimum of 3 detector configurations. It shall be possible to switch between detector configurations manually or automatically by time of day or input from the traffic controller.
- 5.8 Via the serial/Ethernet port, detector configurations can be uploaded to a computer and saved.
- 5.9 Detectors may be linked to 24 outputs and 20 inputs using Boolean Logic features.
- 5.10 It shall be possible to make a detector directional sensitive.
- 5.11 To facilitate “fine tuning” of detection zones, provisions shall be made to change the sensitivity of each detection zone independently and adjust sensitivity of detector by adding or removing additional detection zones within a detection area.
- 5.12 All detectors and parameters can be changed without interrupting detection. For example: when one detector is modified all existing detectors continue to operate, including the one that is being modified. When the new position is confirmed, the new detector will enter a learning phase. Once the new detector is fully functional, it will take over the job of the old one. In this way, the detector is always fully operational with no interruption on any detector, even during modification. Learning phases for new detectors shall not exceed 6 minutes.
- 5.13 Six detectors per input may be used as count, turning movement and queue length detectors. These detectors will detect and store data at user-defined intervals of at least 5, 15, 30 and 60 minutes. It shall be possible for each VIP board to store a minimum of 125,000 intervals of data in non-volatile memory.
- 5.14 Associated software may be used with a PC to download data and export to a spreadsheet. Software will also be used to upload/download detector configurations, count, turning movement, queue length and other traffic data, technical events, send software versions upgrades and do remote setup of detectors.
- 5.15 The VIP board shall have an internal clock with daylight savings time system, which can be enabled or disabled.
- 5.16 The VIP board shall monitor the DC green outputs of each movement and provide Delay Detection and Stretch Detection Program capability with Green Overrides programmable for each detection zone. Intervals shall be programmed in whole second increments from 0” to 60”.

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**6.0 Image Sensor/Camera**

6.1 At a minimum, the unit shall be a medium resolution (horizontal resolution of at least 380 TV lines), CCD camera, designed for professional video detection systems to capture images of vehicles under all weather and lighting conditions. Incorporating the latest in CCD technology, the video camera shall provide detailed video without lag, image retention, or geometric distortion.

6.2 The image sensor/camera system must be in an enclosed assembly with the following minimum specifications:

- Temperature range -34 to + 74 degrees C
- Humidity 0% to 95% relative, non-condensing
- Dimensions 47mm X 47mm X 83mm
- Weight 200g (max)
- Camera mounting slots 1/4-20, top and bottom
- Connectors BNC for video out
- Lens mount CS  
Power-in / pressure screw  
Lens / 4-square connector
- Finish Off-white, semi-gloss polyurethane
- Construction All metal housing
- Rated input voltage 12VDC or 24VAC +/-10% @60Hz
- Nominal power 10 Watts maximum
- Imager Interline transfer CCD 1/3" format
- Imager spectral response 100% @ 550nm:  
30% @ 400nm and 800nm
- Sync system EIA RS-170
- Active picture elements 768 H X 494 V
- Horizontal resolution 380 TVL
- Sensitivity (2856 K) **Usable Picture** **Full Video**
  
- Scene Illumination
 

fc	0.012	0.08
Lx	0.12	0.8
  
- Imager Illumination
 

fc	0.0015	0.01
Lx	0.015	0.1

\* F1.2 lens @ 75% highlight
- Signal to noise ratio 48 dB minimum
- AGC 18 dB
- Light range (AGC on) 1,000,000:1 min. with f/1.4 to 360 auto-iris lens
- Video out 1.0 volts peak-to-peak +/- 0.1 volt @ 75 Ohms
- Gray scale At least 10 steps

6.3 The camera lens shall be a motorized vari-focal 6.5-39mm with auto iris, including:

- Focal length 6X zoom (6.5-39mm)
- Iris control Fixed or Auto

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- Focus control Motorized
- Zoom Motorized

6.4 The camera assembly shall include a weatherproof housing and an integral sunshield for outdoor installation.

The weatherproof housing shall incorporate a mounting bracket to allow proper positioning of the camera. The mounting bracket shall be pre-drilled to allow attachment to standard brackets for mounting on mast arms or on Luminaire arms. Separate connectors at the back of the housing for both video and power cables shall be provided to make the camera assembly field-replaceable if service is required. A thermostatically controlled window heater/defogger shall be located on the faceplate of the housing to minimize condensation.

The sunshield shall minimize the heating of the housing during hot weather. The sunshield shall extend beyond the ends of the weatherproof housing to minimize rain on the faceplate or body of the housing to eliminate dripping water in the line of sight of the camera.

The weatherproof housing shall be an aluminum enclosure. It shall include a rubber boot to enclose the back of the camera and its wiring connections. As a minimum, the weatherproof housing shall meet the following specifications:

- Temperature range -34 to +74 degrees C
- Dimensions 449mm x 97mm x 112mm
- Weight 1.4kg
- Housing mounting Three 1/4-20 tapped holes
- Camera mounting Removable cradle assembly
- Cable entry Three liquid-tight fittings that will accept cable diameters of:  
One fitting-2 to 7 mm  
Two fittings-3 to 10 mm
- Finish Off-white semi-gloss polyurethane
- Construction Extruded aluminum housing,  
Aluminum rear-end cap,  
Aluminum front cap with glass faceplate, and aluminum cradle  
A sunshield shall be included
- Window 3 mm thick glass, that includes a  
Thermostatically controlled window  
Heater/defogger strip
- Rated input voltage 115 VAC 60 Hertz
- Voltage range 108 VAC to 132 VAC
- Output voltage 24 VAC 60 Hertz
- Nominal power 30 Watts (Includes 20 Watts max for heater)
- Enclosure protection Waterproof and dust-tight in a NEMA-4, IP65, enclosure Type 3

**7.0 Camera Focusing Device**

7.1 This device shall allow the using agency to focus and zoom the camera lens to obtain a clear picture for setting up the detection zones.

**8.0 Lightning and Surge Protection**

8.1 The video surge suppressor shall provide coaxial cable connection points to an EDCO CX06-M or approved equal transient suppressor for each image sensor and as a minimum shall include the following:

- Peak Surge Current (8 x 20 us) 5KA
- Technology Hybrid, Solid State

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- Attenuation 0.1db @ 10Mhz
- Response Time <1 nanosecond
- Protection Line to Ground
- Shield to Ground (isolated shield modules)
- Clamp Voltage 6 volts
- Connectors BNC
- Impedance 75 Ohms
- Temperature -34 to +74 degrees C
- Humidity 0-95% non-condensing
- UL Listed UL 497B

8.2 Point Discharge Dissipation Terminals shall be provided for each camera and as a minimum shall include the following:

- One- 4.5 inch Spiral wound Dissipation Brush with .010 inch diameter x 3.75 inch dissipation wire (Dissipation Assembly Shall Be Constructed from High Grade 316 Stainless Steel). Diameter of each Dissipater unit shall be 5/8 inch with a minimum length of 24 inches.
- Stainless steel vertical mounting bracket for utility poles shall be compatible for use on strain poles and mast arm uprights. The bracket shall have a grounding lug for attachment to utility pole grounding array

## **9.0 Mounting Brackets, Arms and Extended Runways**

- 9.1 Camera brackets installations shall provide adjustments for both vertical and horizontal positioning for the camera. Camera attachments shall be designed to securely fasten the camera to prevent the camera assembly from falling into the path of vehicles and/or becoming loose. Miscellaneous hardware shall be stainless steel or galvanized steel. This bracket shall be able to fit on top of the below specified Astro Bracket or equal.
- 9.2 Astro Bracket for Luminaire arm installations shall be a complete unit with a gusset up to six feet in length.
- 9.3 Astro Bracket for signal pole mast arms shall be a complete unit with a gusset up to six feet in length.
- 9.4 A complete unit for concrete strain poles shall be an aluminum street light arm of a minimum ten (10) feet with galvanized mounting bracket and an Astro Bracket for Luminaire arm installations with a gusset up to six feet in length.
- 9.5 External Runways (risers) may be required at concrete pole installations where the internal runway cannot be used. This item will need to be verified by County PM.

## **10.0 Image Sensor- Cable (Coaxial & Power)**

- 10.1 Coaxial & Power cable (Siamese) shall be suitable for exterior use and in direct sunlight. Power cable shall have sufficient conductors to power the camera assembly as well as provide zoom and focus control. The Siamese cable will be used for zooming and, focusing of the image sensor from the controller cabinet.

## **11.0 CCTV Monitor**

- 11.1 The Video Detection system shall include one 9-inch industrial grade CCTV monitor with a hand carrying case to prevent damage in transport.

## **12.0 Video Detection Management System (VDMS)**

- 12.1 The VDMS application software shall be a client-server TCP/IP based system. It shall be compatible to be installed on a Windows 2003 operating system server and several clients on a network of multiple desktops and laptop computers. The County will have a site license for the client-server software. Any updates during the warranty period shall be provided without cost to the County.

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- 12.2 The VDMS shall collect real time traffic data from Video Image Processing (VIP) modules and monitor an entire video detection system or network of video detection systems over an Ethernet (TCP/IP) based communication system.
- 12.3 Traffic data from the detector units shall be transmitted at user-defined integration intervals of 5, 15, 30 and 60 minutes to the server.
- 12.4 The VDMS shall run and store traffic data and events on a MySQL server database.
- 12.5 Traffic events/alarms shall be user-defined and shall notify the operator(s) immediately. On receipt of traffic alarms, the following actions shall occur:
- o associated programs shall start automatically
  - o sound play back
  - o show pop-up messages.
  - o display image(s) of alarm from camera.
  - o show alarms in event stack.
- 12.6 The VDMS shall consist of the following applications:
- Hardware Configuration:
    - o Setup of hardware configurations.
    - o Remote detector setup and communication board setup.
    - o Remote firmware upgrade to complete system or individual rack or detector.
    - o Remote video monitoring of cameras via streaming video.
    - o Backup and restore detector parameters.
    - o Retrieve event logs from detector units.
  - Event stack:
    - o Updates with all events (alarms) from cameras.
    - o Confirm and/or delete color coded status of events.
    - o Operator shall be able to add comment(s) when analyzing incoming traffic events.
  - Event/Data Reporter:
    - o Querying real time or historic data/events from database into data charts and tables which can be exported to Excel or other programs for further processing.
  - User management:
    - o VDMS shall operate with multiple authorized (login and password) users and multiple users groups.
  - Map view:
    - o The VDMS shall have the ability to display head maps and zoomed locations where traffic indicators are placed representing camera locations.
    - o Each traffic indicator shall provide all data and traffic events and will indicate changes in traffic flow with user-defined color codes.
    - o Hyperlinks can be added on the map to start external programs.
  - Inhibition management:
    - o User alarms shall be filtered out in case of unwanted alarms, for example during camera maintenance. Inhibition time and alarms shall be user-definable on each camera and/or for each detector zone individually.
  - Compression tool:
    - o Ability to setup database compression schemes to reduce database disk space and improve reliability and performance.

### **13.0 Detector Programming Device**

13.1 In an effort to upload/download detector configurations, count, turning movement and queue length data, technical events, send software versions upgrades and to setup detectors, the product supplier of the video detection system shall provide one (1) laptop device for every one hundred procured video image processors. This device shall have the following minimum configuration:

Intel® Pentium® M Processor 740 (1.73 GHz/2MB Cache/533MHz FSB)  
Microsoft® Windows® XP  
17 inch UltraSharp™ Wide Screen UXGA Display with TrueLife  
1GB Dual Channel DDR2 SDRAM at 533MHz 2 Dimm  
80GB Hard Drive

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CD/DVD burner (DVD+/-RW)  
Intel® PRO/Wireless 2200 Internal Wireless (802.11 b/g, 54Mbps)  
128MB ATIs™ Mobility Radeon™ X300  
6-cell Lithium Ion Primary Battery (53 WHr)  
Integrated 10/100 Network Card and Modem  
48WHr Additional Modular Battery for Dual Battery Support  
Microsoft Office 2003 Professional Edition

## **14.0 Asset Inventory Management System**

14.1 In an effort to track the life cycle of products procured, the County has developed an asset inventory management system. With every purchase order that will be issued by the County, the product supplier of the video detection system shall provide an electronic copy of two text files (\*.txt) - "readme.txt" and "table.txt". The fields in these files shall be text delimited with ASCII character 124 (|) and will be imported to the asset inventory management system by the County.

### 14.1.1 Fields Descriptions in the "Readme.txt"

- Vendor Information: Vendor ID, Vendor Name, Fax Number, Address, Telephone Number, Contact Person.
- Shipment Information: Shipment ID, Purchase Order No., Carrier, Tracking Number, Shipment Date, Quantity, Related Packing Slips numbers.

### 14.1.2 Field Descriptions in the "Table.txt"

- Count: Incremental count of equipment procured starting from one.
- Asset ID Number: Unique alphanumeric serial number equipment and/or subcomponents of equipment exceeding five hundred dollars in cost. A prefix "VD" shall be assigned to all video detection related equipment.
- Asset Type: Video Detection
- Received Date: Date BCTED warehouse receives the equipment. This field may be left blank and substituted with a space.
- Warranty Expiration Date: The date the manufacturer's warranty is no longer valid. This date may automatically be computed in one year increments from the receive date.

### 14.1.3 Examples of the two files containing Text Data

- Readme.txt  
Vendor 101  
Acme products Inc.  
999 Acme Way  
Ft. Lauderdale FL, 33309  
Tel: (954)999-9999  
Fax: (954)888-8888  
Contact Person: Jason Bourne  
  
Shipment 001  
For P.O. No. 1234  
Sent Via FedEx on 01/01/05  
Tracking Number: 1234567890  
Quantity: 10  
Packing Slip: No packing slip
- Table.txt  
No|AssetID|AssetType|Received Date|Warranty Exp Date  
1|VD-11111111|VIDEO DETECTOR|9/01/04 | 9/01/06  
2|VD-11111112 | VIDEO DETECTOR| 09/01/04 | 9/01/06  
3|PC-12345678| COMPUTER | 09/01/04 | 9/01/06  
4|MSC-001| MISC EQUIPMENT| 09/01/04 | 9/01/06

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**15.0 Training for Installation and Repair**

15.1 Two sessions of one day each (8 hours each day) training shall be provided to personnel of the County in the installation which includes operation, setup, and maintenance of the video detection system. Instruction, materials and schematic diagrams to accomplish Class 1, Class 2 and Class 3 levels of repair shall be produced for 30 personnel and shall be conducted at a location selected by the County within Broward County area.

15.2 Five days (40 hours) of training shall be provided to personnel of the County in the repair of components at the Class 1, Class 2 and Class 3 levels (as described below) of the video detection system. Instruction and materials shall be produced for six (6) personnel and shall be at the County's facilities and be taught by a factory certified repair representative from the manufacturer. The training shall include complete listing of all diagnostics and repair equipment necessary to perform repairs. It shall also include diagnostics testing methods to isolate cause of failure and steps necessary to repair. The product supplier of the video detection system shall provide schematics to the level needed to perform these repairs.

Due to the complexity of the video detection equipment, several distinct classifications of repair exist. These levels are:

- Class 1-Board Level Exchange  
This is the exchange of individual modules within the system or the exchange of a board or component within a module or system component
- Class 2-Simple Board Level Repair  
This is the repair of easily replaceable components on the board. This may include items such as connectors, opto-isolators and thru hole components.
- Class 3-Fine Pitch Components  
This is the repair of most electrical components on the circuit board. This requires significant repair capability, equipment and highly trained personnel.

15.3 Class 4-Advanced Part Repair: This repair includes parts which are very difficult to troubleshoot, diagnose and repair. Examples include FPGA and other high-end components. The vendor shall be responsible for all Class 4 repairs.

**16.0 Repair Equipment**

16.1 The vendor shall identify, list and provide a minimum of two (2) sets of all specialized diagnostic and repair equipment necessary to perform Class 1, Class 2 and Class 3 level of repairs. This equipment shall be identical to the equipment used for the vendor's in-house repairs.

**17.0 Warranty**

17.1 The video detection system shall be warranted against manufacturing defects in materials and workmanship for a period of two years from date of installation, with an option at County's discretion to extend the warranty for an additional three one-year extensions. The video detection supplier shall provide all documentation necessary to maintain and operate the system.

17.2 All cameras shall be warranted against ALL leakages for a period of five years from the date of installation.

17.3 During the Warranty period, at no additional cost to the County, the product supplier of the video detection system shall supply two percent (2%) of procured critical components that will make up a Swap Pool to be located at the County that will be used to replace warranty items that fail. The critical components shall include and not be limited to the processors, output boards and cameras.

- These components shall be new items that will replace any failed components.
- The failed component will be returned by the County to product supplier of the video detection system for Returned Merchandize Authorization (RMA) repair.
- The failed components shall be returned repaired or replaced by another field service stock item within two weeks of receipt by the product supplier of the video detection system.

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- All freight costs for RMA repairs will be the product supplier's responsibility.

## **18.0 Networking**

The Video Image Processor shall support the following network features;

- Ethernet Interface (10/100 Mbps, Full-Duplex, Auto Negotiate (802.3), RJ-45)
- Static IP Addressing (class A, B and C)
- SNMP (MIB2)
- Unicast and Multicast (IGMP V2)
- Gateway Configuration
- Two user settable IP addresses, one for command and control, and one for video multicasting
- Each unit shall be delivered with a single unique MAC address



Public Works Department – Office of Transportation – TRAFFIC ENGINEERING DIVISION  
 2300 W. Commercial Boulevard • Fort Lauderdale, Florida 33309 • 954-847-2600 • FAX 954-735-8564

**PAY ITEMS SUMMARY SHEET**

No	Ref. Par.	Description Vehicle Detection System	(1) Quantity. Est. Furnish and Install	Units	(2) Quantity. Est. Furnish Only	(3) Price\$ Each Furnish and Install	(4) Total Price\$ Furnish and Install (1 X 3)	(5) Price\$ Each Furnish Only	(6) Total Price\$ Furnish Only (2 X 5)	(7) Total Price\$ for Both (4 + 6)
1	4.0,5.0, 13.0	Rack Video Image Processors	700	each	50					
2	6.0	Cameras	2800	each	200					
3	7.0	Camera Focusing Devices	26	each	5					
4	8.1	Video Surge Suppressors	700	each	50					
5	11	CCTV Monitors	26	each	5					
6	8.2	Point Discharge Dissipation Terminals	2800	each	100					
7	9.1	Camera Mounting brackets	2800	each	100					
8	9.2	Astro Bracket for Luminaire arms	300	each						
9	9.3	Astro Bracket for signal pole mast arms	300	each						
10	9.4	A complete mounting unit for concrete strain poles	2200	each						
11	9.5	External Runway for video cable	200	each						
12	10.1	Image Sensor Cable	450,000	LF.	50,000					
13	12.0	Video Detection Management System		each	1					
14	15.1	Training for Installation		each	1					
15	15.2	Training for Repair		each	1					
16	15.3	Class 4 Repair		each	25					
17	16.1	Furnish Repair Equipment		each set	2 sets					
18	17.1	Extended Warranty		each per year	3					
19		Pull Boxes	50	each						
20		Conduit	1000	LF.						
		<b>GRAND TOTAL</b>								\$

**The submittals must include documentation describing the manufacturer and model number of the equipment proposed to be supplied as part of this bid. The submittals must include this sheet titled “PAY ITEMS SUMMARY SHEET” with all pricing entered.**

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**Attachment C – Technical Support**

The Vendor shall provide a locally available technician(s) within 24 hours to the installer(s) for the duration of the contract in order to minimize traffic disruptions and to ensure proper placement and configuration of each installation. This is also intended to minimize potential complications that may arise during County inspections of each installation.

Training and repair requirements for Broward County Traffic Engineering personnel are detailed in Sections 15 and 16 of the Broward County Video Detection Specifications (Attachment B).

Firmware and software updates, as they are released during the project, must be provided to the County for locations already installed under this contract so that the latest is in use at all locations at the completion of the entire project. Future releases that occur after the completion of the entire project shall be provided to the County at no additional cost for five (5) years after completion of the entire project.

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**Attachment D – Bonding**

Bonding in the amount of \$1,500,000 per each year by the Vendor (prime contractor) to cover installation costs based on a four year schedule is required.

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**Attachment - E**

**Insurance Request for Traffic Signal Video Detection – no installation**

The following coverages are deemed appropriate for minimum insurance requirements for this project and will be required of the selected firm and identified in the negotiated agreement. Any deviation or change during the contract negotiation period shall be approved by Risk Management.

TYPE OF INSURANCE	Limits on Liability in Thousands of Dollars		
		Each Occurrence	Aggregate
<b>GENERAL LIABILITY / GARAGE LIABILITY</b> <input checked="" type="checkbox"/> Commercial General Liability <input checked="" type="checkbox"/> Premises–Operations <input type="checkbox"/> Explosion & Collapse Hazard <input type="checkbox"/> Underground Hazard <input checked="" type="checkbox"/> Products/Completed Operations Hazard <input checked="" type="checkbox"/> Contractual Insurance <input checked="" type="checkbox"/> Broad Form Property Damage <input checked="" type="checkbox"/> Independent Contractors	Bodily Injury		
	Property Damage		
	Bodily Injury and Property Damage Combined	\$500K	\$500K
	Personal Injury		
<b>AUTO LIABILITY</b> <input checked="" type="checkbox"/> Comprehensive Form <input checked="" type="checkbox"/> Owned <input checked="" type="checkbox"/> Hired <input checked="" type="checkbox"/> Non-owned <input checked="" type="checkbox"/> Any Auto If applicable	Bodily Injury (each person)		
	Bodily Injury (each accident)		
	Property Damage		
	Bodily Injury and Property Damage Combined	\$500K	
<input type="checkbox"/> <b>POLLUTION &amp; ENVIRONMENTAL LIABILITY</b>	Max Ded. \$	VENDOR RESPONSIBLE FOR	\$
<input checked="" type="checkbox"/> <b>WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY (NOTE *)</b>	<input checked="" type="checkbox"/> STATUTORY		
		(each accident)	\$100K MIN
<input type="checkbox"/> <b>PROFESSIONAL LIABILITY ~ E&amp;O Subject to waiver unless, nature / scope of work and design specification require profession liability.</b>	Max. Ded. \$100K	VENDOR RESPONSIBLE FOR DEDUCTIBLE	\$1,000K
<input type="checkbox"/> <b>PROPERTY COVERAGE / ALL RISK</b>	Max. Ded. \$	VENDOR RESPONSIBLE FOR DEDUCTIBLE	Agreed value Replacement Cost
<input type="checkbox"/> If project greater than \$50k – installation floater required for replacement of material, equipment, installation. All risk, agreed value	Maximum Deductible	\$ 10K deductible	Agreed value
	VENDOR RESPONSIBLE FOR DEDUCTIBLE		

**Contractor responsible for all tools, materials, equipment, machinery, etc., until completion and acceptance by County.**

Description of Operations/Locations/Vehicles: Certificate must show on general liability and excess liability **Additional Insured: Broward County Board of County Commissioners, Broward County, Florida.** Also when applicable certificate should show B.C.B.C.C as a named insured for property and builders risk and as a loss payee for installation floater when coverage's are required. Certificate Must be Signed and All applicable Deductibles shown. Indicate bid number, RLI,RFP, and project manager on COI.

**NOTE \*** - If the Company is exempt from Workers' Compensation Coverage, please provide a letter on company letterhead or a copy of the State's exemption which documents this status and attaché to the Certificate of Insurance for approval. If any operations are to be undertaken on or about navigable waters, coverage must be included for U.S. Longshoremen & Harbor Workers' Act/ & Jones Act  
**CANCELLATION: Thirty (30) Day** written notice of cancellation required to the Certificate Holder:

Name & Address of Certificate Holder  
 Broward County Board of County Commissioners  
 Purchasing Division, RM 212  
 115 South Andrews Avenue  
 Fort Lauderdale, FL 33301  
 RE: (J. Raite, Purchasing)

  
 Dawn Mehler  
 Risk Management Division  
 4/30/07  
 Date Issued

Digitally signed by Dawn Mehler  
 DN: cn=Dawn Mehler, o=SBDD, ou=Broward County,  
 email=Dawn.Mehler@broward.fl.gov  
 Date: 2007.04.30 10:07:48 -0400

InsuranceLtrbForm 03 Revised certificate form revised 2005.DOC COI

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**ATTACHMENT "F"  
CERTIFICATION OF VENDORS PROVIDING  
BENEFITS FOR DOMESTIC PARTNERS**

THE UNDERSIGNED VENDOR HEREBY CERTIFIES THAT ITS EMPLOYEE BENEFITS POLICIES ARE IN COMPLIANCE WITH BROWARD COUNTY ORDINANCE #1999-03, AS AMENDED BY BROWARD COUNTY ORDINANCE #1999-18, AS FOLLOWS:

- A. VENDOR'S EMPLOYEE BENEFITS PROGRAM INCLUDES THE FOLLOWING MINIMUM STANDARDS:
1. ANY VENDOR'S EMPLOYEE WHO IS A PARTY TO A DOMESTIC PARTNERSHIP RELATIONSHIP IS ENTITLED TO ELECT INSURANCE COVERAGE FOR HIS OR HER DOMESTIC PARTNER OR A DEPENDENT OF SUCH DOMESTIC PARTNER ON THE SAME BASIS IN WHICH ANY OTHER VENDOR'S EMPLOYEE MAY ELECT INSURANCE COVERAGE FOR HIS OR HER SPOUSE OR DEPENDENTS. A VENDOR'S EMPLOYEE'S RIGHT TO ELECT INSURANCE COVERAGE FOR HIS OR HER DOMESTIC PARTNER, OR THE PARTNER'S DEPENDENT, EXTENDS TO ALL FORMS OF INSURANCE PROVIDED BY THE VENDOR TO THE SPOUSES AND DEPENDENTS OF VENDOR'S EMPLOYEES.
  2. ANY VENDOR'S EMPLOYEE WHO IS A PARTY TO A DOMESTIC PARTNERSHIP RELATIONSHIP IS ENTITLED TO USE ALL FORMS OF LEAVE PROVIDED BY THE VENDOR INCLUDING, BUT NOT LIMITED TO SICK LEAVE AND ANNUAL LEAVE TO CARE FOR HIS OR HER DOMESTIC PARTNER OR THE DEPENDENT OF THE DOMESTIC PARTNER AS APPLICABLE.
  3. ALL OTHER BENEFITS AVAILABLE TO THE SPOUSES AND DEPENDENTS OF VENDOR'S EMPLOYEES ARE MADE AVAILABLE ON THE SAME BASIS TO THE DOMESTIC PARTNER, OR DEPENDENT OF SUCH DOMESTIC PARTNER, OF A VENDOR'S EMPLOYEE WHO IS PARTY TO A DOMESTIC PARTNERSHIP RELATIONSHIP.
  4. IT IS WITHIN THE VENDOR'S DISCRETION AS TO WHAT BENEFITS ARE PROVIDED TO ITS EMPLOYEES AND WHETHER VENDOR'S EMPLOYEES WHO ARE PARTY TO A DOMESTIC PARTNERSHIP RELATIONSHIP MUST BE REGISTERED IN ACCORDANCE WITH BROWARD COUNTY ORDINANCE NO. 1999-03, AS AMENDED, IN ORDER TO BE ELIGIBLE FOR ACCESS TO EMPLOYEE BENEFITS.

- (1)  
B. THE VENDOR'S DOMESTIC PARTNERSHIP ELIGIBILITY CRITERIA ARE SUBSTANTIALLY EQUIVALENT TO THE FOLLOWING:
1. EACH DOMESTIC PARTNER IS AT LEAST 18 YEARS OLD AND COMPETENT TO CONTRACT.
  2. NEITHER DOMESTIC PARTNER IS MARRIED NOR A PARTNER TO ANOTHER DOMESTIC PARTNERSHIP RELATIONSHIP.
  3. THE DOMESTIC PARTNERS ARE NOT RELATED BY BLOOD.
  4. CONSENT OF EITHER DOMESTIC PARTNER TO THE DOMESTIC PARTNERSHIP RELATIONSHIP HAS NOT BEEN OBTAINED BY FORCE, DURESS, OR FRAUD.
  5. EACH DOMESTIC PARTNER AGREES TO BE JOINTLY RESPONSIBLE FOR EACH OTHER'S BASIC FOOD AND SHELTER.

\_\_\_\_\_  
(VENDOR SIGNATURE)  
  
\_\_\_\_\_  
(PRINT VENDOR NAME)

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2007, BY \_\_\_\_\_ AS \_\_\_\_\_ (NAME OF PERSON WHOSE SIGNATURE IS BEING NOTARIZED) \_\_\_\_\_ (TITLE) OF \_\_\_\_\_ KNOWN TO ME TO BE THE PERSON DESCRIBED \_\_\_\_\_ (NAME OF CORPORATION/ENTITY) HEREIN, OR WHO PRODUCED \_\_\_\_\_ AS IDENTIFICATION, AND WHO PROVIDED NOT TAKE AN OATH. (TYPE OF IDENTIFICATION)

NOTARY PUBLIC:  
\_\_\_\_\_  
(SIGNATURE)  
\_\_\_\_\_  
(PRINT NAME)  
STATE OF \_\_\_\_\_ AT LARGE (SEAL)

MY COMMISSION EXPIRES: \_\_\_\_\_  
Altered forms will be considered non-compliant Page 25 of 26 Effective 10/13/2005