

Date: October 31, 2018

Requisition No.: 177700

**PURCHASING DEPARTMENT
101 EAST 11TH STREET
CITY HALL
SUITE G13
CHATTANOOGA, TENNESSEE
37402**

Request for Bid (RFB) for the City of Chattanooga, Tennessee

*Proposals will be received at 101 East 11th Street, Suite G13,
Chattanooga, TN 37402 until 2:00 P.M., EST. on November 14, 2018*

**Requisition / Bid No.: R177700 / 305271
Ordering Dept.: Public Works Administration
Buyer & E-mail: Mark McKeel mmckeel@chattanooga.gov**

**Items Being Purchased: Parking Access & Revenue Control System
Demolition, Removal & Installation**

*****REQUEST FOR BIDS MUST BE RECEIVED*****

2:00 P.M., EST on November 14, 2018

The City of Chattanooga reserves the right to reject any and/or all proposals, waive any informality in the proposals received, and to accept any proposal which in its opinion may be for the best interest of the City.

The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color or national origin.

The City's Standard Terms and Conditions may be found on website:
<http://www.chattanooga.gov/purchasing/standard-terms-and-conditions>

Note: ALL BIDS MUST BE SIGNED

All proposals received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Offeror acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.

PLEASE PROVIDE THE FOLLOWING INFORMATION:

Company Name: _____

Mailing Address: _____

City & Zip Code: _____

Phone/Toll Free No.: _____

Fax No.: _____

E-Mail Address: _____

Contact Person: _____

Company Title: _____

Signature: _____

BID SOLICITATION



City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

BID OPENING DATE AND TIME:

14-NOV-18 at 2:00 PM

BID NUMBER: 305271

BUYER:

PHONE #: (423) 643-7230

DELIVERY REQUIRED:

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City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
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Requisition / Bid No.: 177700 / 305271
 Ordering Dept.: Public Works Administration
 Buyer: Mark McKeel
 Phone No.: 423-643-7236

Items Being Purchased: Demolition & Removal of Existing Parking Equipment System (as per specifications)

ATTACHMENTS:
 1. Specifications (15 page)
 2. Affirmative Action Plan (2 pages)
 3. Insurance Requirements (2 pages)
 5. Iran Divestment Act Disclosure (1 page)
 6. No Contact / No Advocacy Notice (1 page)
 City of Chattanooga (COC) Terms and Conditions posted on Website
<http://www.chattanooga.gov/purchasing/standard-terms-and-conditions>
 If you can't download call buyer for a copy.

*** BIDS MUST BE RECEIVED NO LATER THAN ***
 ***** 2:00 PM ON NOVEMBER 14, 2018 *****

PLEASE SUBMIT BIDS IN DUPLICATE INDICATING
 BID NUMBER (305271) ON OUTSIDE PACKAGING
 ALL ITEMS MUST BE QUOTED F.O.B. DESTINATION, FREIGHT ALLOWED.

NOTE:
 ALL BIDS MUST BE SIGNED
 All bids received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Bidder acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.

Any manufacturer;s names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing general quality levels. Such references ar enot intended to be restrictive. Bids will be considered for any brand which meets or exceeds the quality of the specifications listed for any item.

The City of Chattanooga reserves the right to reject any and/or all bids, waive any informalities in the bids received, and to accept any bid which in its opinion may be for the best interest of the city.

The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color, or national origin.

**** NOTE ****
 PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION:

Company Name _____
 Address _____

 Phone/Toll-Free No. _____

BID SOLICITATION



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 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

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City of Chattanooga
 101 East 11th Street, Suite G13
 Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
Fax No. _____ eMail Address _____ Contact Person's Name _____ Estimated Delivery _____ Minority-Owned Business _____ Small Business _____ Veteran _____ Minority Woman-Owned Business _____ Disabled Veteran _____ Woman-Owned Business _____ **** ALL ITEMS MUST BE QUOTED F.O.B. DESTINATION ****					

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS

The City is Exempt from all Federal and State Tax.
 Bids will be received at the above mentioned address.

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

TERMS OF PAYMENT: _____
 TELEPHONE NUMBER: _____

COMPANY: _____
 SIGNATURE: _____
 NAME AND TITLE: _____

BID SOLICITATION



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 101 East 11th Street, Suite G13
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City of Chattanooga
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Item	Class-Item	Quantity	Unit	Unit Price	Total
1	Demolition and Removal of existing parking equipment system	1	Each	_____	_____
2	Installation of the new PARCS, complete-in-place	1	Each	_____	_____
3	Training for City and/or City Representatives onsite, minimum 20 hours	1	Each	_____	_____
4	Proximity Cards	200	Each	_____	_____
5	2nd Year Service Call Pay (First Hour)	12	Each	_____	_____
6	2nd Year Service Call Pay (Additional Hours)	12	Each	_____	_____
7	3rd Year Service Call Pay (First Hour)	12	Each	_____	_____

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TERMS OF PAYMENT: _____

SIGNATURE: _____

TELEPHONE NUMBER: _____

NAME AND TITLE: _____

SECTION 11150

PARCS - PARKING ACCESS AND REVENUE CONTROL SYSTEM

Parking Access and Revenue Control

This system must operate in the following “modes”

- Access via an Indala Proximity Card Reader System and/or approved equal
- Web based validation by emailed encrypted bar-code and “client” entered ticket number
- Credit card and Cash (Bills Only) in lane
- POF Machine (1) Credit and Cash (Bills Only)

Overview

Software revenue access, count, web, credit card data management, remote gate control, remote intercom, remote camera (pin hole in all devices)

Lanes (3)

Lane Equipment Summary by Area

(1) Ingress

(Ticket Bar Code – Proximity Card– In – w/intercom, camera – entry station)

(2) Egress

(Ticket Bar Code – Credit Card – Proximity Card – Out – w/intercom, camera – exit station)

- (1) Entrances – (2) Exits
- (1) POF

Basic Configuration

Barcode Ticket Entry Station (capable of using emailed validations)

Barcode (Encrypted or QR) (for emailed validations either from paper or smartphone at exit)

Barrier gates with new sawcut loop detectors

Aluminum Gate Arm (7 ft. clearance)

Commend Intercom capability in entry/exit and POF

Camera for remote control assistance

Proximity reader in all entry/exit lanes

PART 1. GENERAL CONDITIONS

1.1 GENERAL REFERENCE

These specifications are for PARCS parking access and revenue control equipment and software at parking facilities listed above. The parking operations include employee, resident and visitor parking. The access and control equipment at the facility is to be networked and capable of being controlled from the “Com room” and Management office remotely. Additionally, the equipment is to be Web enabled and to have basic functionality remotely via password.

The Parking Equipment Contractor shall provide a complete on-line, Parking Management System with central management capabilities. The system shall have remote networking capabilities and should be configured to reside on the web and be capable of receiving data, programming and report generation from remote locations (from any web device). The system is to be fully configured (including any customization required) at installation.

It is the desire to have the equipment installed no later than 6 weeks after contract execution and sooner if possible.

1.2 DESCRIPTION OF WORK

- A. **Equipment:** the selected vendor shall install all equipment. Included will be supply, delivery, unloading, setting, anchoring, conduit, control wiring installation and wiring termination, and start-up of all Parking Control equipment including operating software. The Parking Equipment Contractor shall be responsible for providing a complete and working system.
- B. **Wiring for Data, Communications and Electrical Devices:** The Parking Equipment Contractor shall be responsible for verifying the location and condition of existing conduit at each site. The Parking Equipment Contractor shall furnish any necessary additional conduit runs and pull all wires for the data and communication requirements. Conduit runs from each device back to each termination location point, shall be the responsibility of the Parking Equipment Contractor. The Parking Equipment Contractor will make final wire connections of all equipment. Electrical devices and other necessary devices or interfaces required to make the system function properly shall be included as part of the work. The owner following the requirements of the supplier shall provide power to all system areas, as well as, internet connectivity in the “com room” – server room. The Equipment Contractor Shall specify the necessary band width for the internet connection to comfortably run the entire system without connectivity issues. Conduits may be reused after inspection by the Equipment Contractor.

- C. **All equipment** shall have a sufficient battery backup in-order to run transactions for one hour after loss of power and to buffer credit card transaction for three hours in the event of loss of internet connectivity.
- D. **All equipment** shall be protected with lightning and surge protection devices and the Equipment Contractor shall warrant the equipment from failure of these protection devices. The status of lighting equipment functionality shall be indicated within the system so that the owner/staff are confident a later lightning event cannot occur with the equipment in an unprotected state.

1.3 SHOP DRAWINGS and MANUFACTURER’S LITERATURE

The Parking Equipment Contractor shall furnish to the Owner’s representative, a complete set of shop drawings certified by the Parking Equipment Contract. Such drawings shall be properly dimensioned and submitted for Owner’s representative to approve within 1 week of notice of award of the contract. They shall show all critical dimensions, wiring details, lag bolt details, etc. Manufacturers’ literature sheets shall be submitted for all standard manufactured items. (Shop drawing shall be updated after equipment acceptance as “Record Drawings”)

1.4 OWNER APPROVAL

The Owner shall approve all equipment specified herein prior to purchase and installation.

1.5 COOPERATION WITH OWNER

The Parking Equipment Contractor shall cooperate in every respect with the Owner for coordination and timely execution of the work as well as scheduling work around “prime time” daily operations. Phasing for the installation will be necessary, however, the facilities can operate with one entry and one exit lane to expedite the installation.

1.6 WARRANTY

If, within one (1) year after the date of completion of the work, as determined by the Parking Consultant, or within one (1) year after acceptance by the Owner of designated equipment or within such longer period of time as may be prescribed by law or by the terms of any applicable special warranty required by the contract documents, any of the work is found to be defective or not in accordance with the contract documents, the contractor shall correct it promptly after receipt of a written notice from the Owner to do so. This obligation shall survive termination of the contract and will be provided at no additional cost to the original contract price. The Owner shall give such notice promptly after discovery of the condition. The response time for performing repairs (that cannot be accomplished remotely) (24) hours originating Monday-Friday and (48) hours response time on calls originating on weekends.

Nothing contained in the contract documents shall be construed to establish a period of limitation with respect to any other obligation, which the Contractor might have under the contract documents. The establishment of the time period of one (1) year after the date of completion or such longer period of time as may be prescribed by law or by the terms of any warranty required by contract documents relates only to the specific obligation of the Contractor to correct the work, and has no relationship to the time within which proceeding may be commenced to establish the Contractor's liability with respect to his obligations other than specifically to correct the work.

As part of the Bidder's submission, he/she shall include separate pricing for a preventative maintenance contract for (two full years) and an extended warranty (extending the basic warranty to two years). The maintenance program will cover at no additional cost software and hardware upgrades necessary to keep the system current (PCI, operating system and basic functionality).

1.7 **LOCAL SERVICE and RESPONSE TIME**

The Contractor shall have an established office (or a subcontractor) within 120 miles of Chattanooga area with factory certified service representative (s). Service vehicles shall be staffed and adequately equipped to provide emergency service with 24 hours weekdays and 48 hours on weekends after being called, whether or not the Owner purchases a maintenance contract with the Contractor. Upon the Owner's request, the Contractor may be required to submit a list of his local servicemen with an outline of their qualifications, and names and phone numbers of local service references.

1.8 **SYSTEM TRAINING**

- A. After equipment has been installed, personnel designated by the Owner shall be trained on the operation of all aspects of the system.
- B. Training shall be performed on site at the River Pier Garage and/or the "Com Room" of the City Representative and there shall be a minimum of:
 - 1. **Twenty** (20) hours of combined operator training and maintenance training.
- C. An adequate amount of training materials shall be provided including:
 - 1. Functional flow charts, block diagrams, and descriptive material for all software.
 - 2. Schematic drawings for hardware components.
 - 3. All procedure manuals, specification manuals, maintenance manuals, and software /server computer manuals.
 - 4. Record drawings.
 - 5. Hands on training sessions.

- D. An agenda and syllabus for each session shall be prepared and submitted for review at least 1 week before the scheduled date of the training session.
- E. Other training materials or aids that would facilitate the training of the new staff on an ongoing basis. These materials may include videotapes and/or interactive video programs.

1.9 REFERENCES

As part of the Bidder's submission a list of parking garages/lots where similar scale parking system have been installed within the last 2 years shall be provided. Include for each parking garage/lot the name, address, and telephone numbers of Owner/manager who can be contacted to verify the system's effectiveness.

1.10 EXCEPTIONS

As part of the Bidder's submission, he/she shall provide a statement describing in detail any and all exceptions taken in his/her submittal to the specifications. The Bidder should also provide recommendations in their submittal for alternate solutions for those items where exceptions are taken. We do clearly understand that solutions will be different for the proposing vendors. Those alternative solutions may be more cost effective or provide improved functionality. It is incumbent on the proposer to provide information on these alternatives.

PART 2 – PRODUCTS

2.1 PARKING MANAGEMENT SYSTEM

The Parking Management System shall consist of all hardware and software necessary for control of the existing Riverpier Garage Operation.

2.2 ACCESS CONTROL SYSTEM

A. **General:** Access control readers (Proximity) shall be installed at each parking facility entrance and exit lane as shown in the equipment list summary for the primary purpose of reading tags for monthly contract customers. The central application or cloud server shall control each Proximity Reader with the capability of running Stand Alone in the event the central application server/cloud server is off line for any period of time. During Stand Alone operation, the lane equipment will buffer transaction until communications are reestablished. A secondary proximity reader will be integrated into the entry/exit stations.

B. **Main Features:** The access control system shall include the following:

1. Must be web based and allow control of all facilities from a remote location.
2. System must be able to support multiple access technologies (Swipe cards, Proximity cards, etc. if required in the future).
3. Must be able to establish at least 500 access groups.
4. Must be able to establish multiple time zones for each access group.
5. Must be able to check group thresholds and if necessary, assign the transaction to a different group for revenue control purposes, i.e., fleet management. Feature must have at least three programmable threshold levels. Upon surpassing each threshold, a new variable rate structure must applied.
6. System must have both hard and soft anti-pass back capability.
7. For use in the combined contract/transient entrance lanes, actuation of the card reader shall lock out the transient ticket dispenser until after the vehicle has passed through the gate.

2.3 INTERCOM SYSTEM

A. **General:** a Commend VOIP intercom system shall be located at all entrances, exits and POF devices. The intercom shall be a one-button-call that will ring at the call center and capable of forwarding to a designated device after hours. The Parking Equipment Contractor will be responsible for intercom lines/data lines that can be utilized at equipment locations. Otherwise, the Parking Contractor will be responsible for providing phone lines, cellular connections and conduit where necessary.

2.4 REVENUE CONTROL SYSTEM

- A. **General:** Ticket Dispensers shall be provided and installed as noted on the equipment list summary. They shall dispense individual encrypted barcode code entry tickets and print the entry information on the parking ticket. Each ticket dispenser shall also serve as a communication device in that it shall transmit the information data, which it receives to, and interface with, the Central Application /Cloud Server.

The system must be capable of reading via barcode code ticket validations-either by customer printed credential, smart phone or dispensed ticket designated via web validation system. (Validations in the system must have ability to be issued in both a time or cash value).

The exit machine shall accept cred cards – provide receipts for supplemental in lane payment and vend (open) the barrier gate. Exit machine shall read barcode code validations tickets credentials.

B. Main Features: Ticket Dispenser

1. Each Ticket Dispenser/Splitter shall issue a ticket, via Push Button, only if a vehicle is present at an arming loop, and gate memory present. A dispenser lockout controller, or similar device acceptable to the Owner shall be an integral part of the Dispenser and it shall disable the Proximity card reader when a vehicle is not present, and/or when a ticket is not in the chute. Each dispenser shall be equipped with VOIP intercom, camera and a voice announcement system that shall deliver messages designated by the owner.
2. Each Ticket Dispenser shall accommodate fan folded tickets. Low Ticket warning indicator will occur at the Central Application/Cloud Server and via e-mail messaging to alert the appropriate individual of the alarm status.
3. Each Dispenser shall be capable of recognizing, in a manner acceptable to the Owner, when it has issued an invalid ticket.

C. Main Features: Barcode code Ticket Reader

1. A ticket reader/validator shall be provided for each lane device. The purpose of the ticket reader shall be to read the preauthorized validation credentials on entry/exit and transmit this information to the central server. It shall recognize valid preauthorized validation credentials, smart phone embedded credentials or machine issued tickets.
2. Each Ticket Reader shall automatically read and determine the entry/exit time data from the central/cloud server. “Overtime” parking or parking in excess of lag time reader grace period will be calculated in the system and either billed to the validating business or paid for by credit card by customer.

D. Main Features: Exit station

1. Each exit station/ticket verifier shall read the paid parking ticket, confirm the patron has paid and exited within the programmed lag-time and vend (open) the gate. If the lag-time has expired or the ticket has not been paid for, the exit station will accept payment by credit card.
2. Each exit station/ticket verifier shall have the following features:
 - Real-time clock synchronization with Central Application/Cloud Server computer
 - Built-in perpetual calendar
 - Programmable Daylight Saving Time adjustment
 - Printer print receipts. Receipts shall contain entry month/date/time, exit month / date/time, parking fee, card type, partial card number and transaction number.
 - User recordable voice announcement.
 - Commend VOIP intercom
 - IP Camera

2.5 FEE COMPUTER

- A. The Fee Computer will be configured as a Pay-at Exit payment device and/or control the parking barrier. The devices operation should be staff-friendly.
- B. Preferred features include:
 - a. Payment for parking tickets using bills, bank or credit cards
 - b. Online operation (TCP/IP) or stand-alone operation
 - c. Credit Card In/Credit Card Out
 - d. PCI-DSS certified
 - e. Fast ticket read (barcode tickets)
 - f. Value card entry, exit and payment
 - g. Barrier gate control
 - h. Payment for lost tickets (fixed or variable charge)
 - i. Accept Barcode, Validations/Chaser/discount tickets/barcode vouchers
 - j. Receipt issued for payment
 - k. Split/Mixed payment with cash and credit
 - l. Pre-payment to avoid queuing up
 - m. User name & password verification
 - n. Shift management and report
 - o. Electronic journal log

2.6 SOFTWARE

- A. **General Access:** Software shall be Microsoft or Linux based to control access, provide information on cardholders and display usage. The system must be multitasking. Software shall have zoning, and nesting capabilities. System shall have anti-pass back capabilities and allow for both hard and soft pass back. Software shall be able to provide the number of active cards in the system at any given time. Software shall be able to provide gate status and allow control from central/remote

locations. System shall be capable of batch loading of cards. The system shall be able to segregate groups (such as valet, contract, premium reserved, and employee parking). The system shall allow remote vending of all gates and provide a status report of each gate. The cardholder management software shall provide at minimum the following fields: name, card number, account number, building and group. Parking Equipment Contractor shall submit sample reports that their systems provide with their bid. The software shall be a web-enabled system, with a central database and remote access capabilities for up to 5 clients/5 users.

- B. General Revenue Control:** The system shall be capable expanding to managing the revenue control requirement of multiple garages and/or lots. The software shall allow the viewing of real time transactions, program revenue devices, monitor alarms and track tickets. It shall provide transaction sorting, consolidated report generation, communication status monitoring and validation summary reporting. A record of all transactions from multiple lanes in a database file format on the computer hard disk or cloud with built-in exporting utility to transfer to a variety of software packages. The system shall allow password-protected users to edit rate structures and program information from a PC.
- C. The Parking Equipment Contractor shall provide a complete software package that will provide the following modules:
1. Data Manager:
The data manager shall provide utility software that allows IT management to maintain and support the system. There shall be automatic backup/cloud backup and exporting functions.
 2. Count and Monitoring
The count and monitoring module shall provide occupancy levels/percentages for multiple locations and the capable of activating multiple level alerts and action alarms and interface with DMS sign software packages like Venus 1500 Daktronics.
 3. Access Control:
The access control module shall provide the capability for users to change reader parameters, add, delete and edit time/day schedules for Proximity cardholders. The module shall have search capabilities that will allow searches by Proximity card number, name access group, account, vehicle and status.
 4. Revenue Management
The revenue management module shall have the capability to:
 - a. Display real time transaction details for ticket dispensers and other revenue control devices.
 - b. Remote programming revenue control devices for rates validations and other parameters.

- c. Search and review ticket transactions by lot, machine numbers, ticket number, entry data and exit date or status
 - d. A minimum of 500 separately tracked validation accounts should be provided.
5. Report Generator
- The report generator shall utilize SQL (Standard Query Language) or other relational database tools and allow ad hoc reports. Report layout must be adjustable. The report generator shall provide reports in multiple formats including:
- a. Excel
 - b. Word
6. Credit Card Software
- The credit card software shall have the following features:
- a. Accepts major credit cards
 - b. PCI compliance (less than 1 million transaction per year)
 - c. Meets the up to date compliance standard for Visa and MasterCard. EMV installed at installation
 - d. Real time and batch transaction processing.
 - e. Automatically settles terminal –based account batches.
 - f. Black list verification (for faster transaction speed)
 - g. User level password protection
 - h. Automatically records approval codes.

D. Reports:

The access and revenue control software must be capable of providing multiple reports.

- 1. Revenues, validations and number of vehicles for hourly, daily, weekly, monthly, quarterly, and yearly time periods.
- 2. Integrated access and revenue reporting.
- 3. Revenues, validations and number of vehicles for each time period with comparisons to earlier time periods (e.g., Dec '03 vs. Dec '02; 1st Qtr. '04 vs 4th Qtr. '03, 1st Thursday in Jul. vs 1st Thursday in Feb.).
- 4. Cumulative revenues and number of vehicles by period (e.g., week-to-date: year-to-date).
- 5. Pay station/lane transactions by date, station, weekly, monthly, quarterly, and yearly time periods. These should be broken out by payment type – prepayment or credit card.

6. Parking duration's (length-of-stay) for hourly, daily, weekly, monthly, quarterly and yearly time periods.
7. Miscellaneous administrative information: rate structures, limited personnel data – who serviced the pay station and when, program changes with user ID and date.
8. It is a desire to have reports and key data metrics (occupancy levels et.) available on a web based dashboard.

This is not an exhaustive list of the reports that will be needed. Flexibility in adding and modifying reports is a critical requirement.

E. The Parking Access/Revenue Control Software shall provide smooth interfaces to the following:

1. Third party credit card processing. Pay stations must be capable of being fully integrated with credit card processing systems.
2. Data export to one or more PC-based, generally available database management (e.g., Excel, Access, et cetera) programs.

F. Ticket issuing machines, exit machines and gates to be on-line to the Central Application /Cloud Server. All equipment alarms (e.g., open gate, and out-of – tickets,) are to be sent to the Central Application /Cloud Server and mobile device.

G. The Parking Equipment Contractor shall take mitigation measures to minimize the effects of the environment. Proposer should consider such measures as:

1. Data storage or backup in each device, fee computer and Central Application/Cloud Server computer to ensure no loss of information in the case of lost communications or power. **All equipment shall be protected with lightning and surge protection devices and the Equipment Contractor shall warrant the equipment from failure of these protection devices.**
2. Uninterruptible power supplies, and 120 volt line voltage and communication surge suppressors. UPS should be provided for the following: Central Application/Cloud Server and each PC provided.
3. **All equipment shall have a sufficient battery backup in-order to run transaction for one hour after loss of power and to buffer credit card transactions for three hours in the event of loss of internet connectivity. External mounted (like those currently used at the facility) battery systems are not recommended.**

4. Dates and time should be handled intelligently. Year changes, leap years and century changes should be transparent (i.e., no operator intervention required). Daylight savings time also should be transparent.
- H. Rate specification has to be flexible. The system has to be able to handle a variety of time increments and time zones. Rates and time zones should be easy to set in the system. Moreover, these changed settings should be input a single time into the Central Application/Cloud Server and then downloaded to all the other equipment.
 - I. A real-time representation of lane activity will be present on Application/Cloud Server for each lane. This representation will be interactive and allow for raising of gates, disabling of ticket dispenser, etc.
 - J. The system shall allow for any alarm status to be sent to e-mail address (s). Additionally, preprogrammed reports will self-generate and be sent to a designated e-mail address (s).

2.7 CENTRAL APPLICATION SERVER COMPUTER

- A. The Central Application/Cloud Server will be provided by the supplier. The system Central Application/Cloud Server will be located in the server room of the parking facility "booth," it will communicate with the system devices, gates, and Proximity card readers. This Central Application Server will also provide operating information about the status of the equipment, lane activity, revenue statistics, et cetera. Any modules/features, which are necessary to accomplish the tasks described in this specification, are the responsibility of the Parking Equipment Contractor.

The Central Application /Cloud System shall be PC based with hardware/software as required by the supplier including: mouse, monitors, computers, printers validator, laptops , interface boards, routers, modem, wireless devices, power-strips, UPS, server racks, security devices, software –etc.

2.8 BARRIER GATES AND VEHICLE DETECTORS

Barrier Gates shall be located at all exits and entrances as outlined above. Each Barrier Gate shall be capable of being selectively programmed for operation with the Ticket Dispensers, Proximity Card Readers, Lag Time Readers/Exit Reader and Central Application /Cloud Server as required by the Owner. All gates should have safety reversing logic or rebound feature. All gates must be capable of being vended (opened) from a remote location.

The gates shall be connected to new lane detectors sawcut in. The wires shall be sealed over with industry standard sealant.

PART 3 – PERFORMANCE SPECIFICATIONS

3.1 OPERATING SPECIFICATION – ENTRY

- A. Monthly Customers: Proximity cards will be used to properly identify all valid vehicles. That is, authorized “monthly” customers will utilize HID tag/proximity cards to access the parking facility. Readers located at each entrance will verify the validity of the access card/tag. When the access control system verifies an authorized card/tag the barrier gate will lift, allowing the vehicle to enter the lot. Activation of the barrier gate by the access system shall disable the ticket dispenser until the entrance cycle has been completed.

The entrance gate will be primed for automatic closure after the vehicle has passed over two detector loop sequentially in an A/AB/B fashion. Once the vehicle has cleared the loops, the gate closure will begin.

- B. Transient: Each entrance lane of these facilities shall be equipped with a ticket Dispenser. Non –prepaid – Transient patrons entering the facility shall depress the ticket-issuing button at the ticket dispenser causing the dispenser to issue a time and date stamped machine-readable encoded ticket. Upon removal of the ticket the gate shall allow the vehicle to enter the parking facility. Activation of the ticket dispenser shall disable the access card reader until the entrance cycle has been completed.
- C. Prepaid/pre-validated customers will scan their barcode code ticket on entry and the entry gate will open.

The entrance gate will be programmed for automatic closure after the vehicle has passed over two additional detector loops sequentially in an A/AB/B fashion. Once the vehicle has cleared the loops, the gate closure will begin.

3.2 OPERATING SPECIFICATIONS-EXITING

- A. Monthly Customers: Monthly customers will proceed to an exit lane where the access reader will verify the access card at the Central Application Server, and if valid, the barrier gate will vended allowing the vehicle to exit.
- B. Transient: When a prepaid/pre-validated customer is ready to leave the Garage, he will proceed to the exit. The patron will enter the ticket into the exit station, which shall automatically read the ticket and compute any parking fee (over the validated amount). The parking fee shall be displayed to the patron by video display. The patron will provide payment by credit card and exit.
- C. The patron may pay the parking in (an optional Pay-On-Foot device – credit or cash). Then the patron will insert the prepaid ticket into the ticket reader at exit

PART 4 – INSTALLATION

4.1 INSTALLATION

- A. The Riverpier Parking System is to include the following:

Lane Equipment Summary by Area

One Ingress

(Ticket Bar Code – Proximity – In – w/intercom/video camera)

Two Egress

(Ticket/Bar Code – Credit Card Out – Proximity – Out – w/intercom/video camera)

Basic Configuration

Barcode Ticket Entry Station

Barcode (QR) Reader Entry/Exit

Validated ticket w/QR Bar code

Entry/Exit with: emailed entry credential, smart phone credential, and web validated splitter ticket (exit)

Barrier gate with loop detector

Aluminum Gate Arm (Straight where possible)

Voice intercom/Video Cameras w/remote capability in entry/exit stations and POF

Credit Card in exit station for overstay

Fee Computer in One Exit Lane

- B. Central Application/Cloud Server supporting software. It is anticipated that the system head-end shall be located in the “Com Room” at the City Representative Office.
- C. Necessary conduit, cabling, et cetera.
- D. Communications conduits and hookup are the responsibility of the supplier.
- E. Final power hookup is the responsibility of the supplier.
- F. All lane equipment must be factory painted.
- G. Proposer shall include the cost of proximity cards. A price per card amount shall be provided (and include quantities necessary for any volume discount). Cards will match an existing facility code – card to be provided for testing.
- H. Any equipment not listed but required to meet the performance specifications shall be included in the bid.

- I. Electrical : The Parking Equipment Contractor shall specify conduit in proper size and location for the Parking Control Equipment Areas as shown on the required shop drawings supplied by the equipment contractor, the owner's electrical contractor shall (only) bring the required power to those areas (if different from power supplied to existing equipment).
1. An Electrical Permit shall be required for the disconnection of the existing system and for the connection of the new PARCS system and is the responsibility of the Parking Equipment Contractor.
- J. Equipment Islands: The Parking Equipment Contractor will be responsible for the installation of necessary concrete repairs and any additional bollards for protection of parking equipment. Conduit runs are assumed to be reusable (if not) saw cuts/repair of on-grade concrete is preferable. No surface mounted conduit will be permitted. During the installation, modifications to the existing plaza islands must be approved by the owner
- K. The Equipment Contractor shall recommend additional bollards (as needed) to protect their lane equipment. The Parking Equipment Contractor should locate/dimension any necessary bollards and island pads on the shop drawings. All bollards shall be upgraded/refurbished to a new appearance.
- L. Manufacturer/Vendor of Parking Control System shall provide those responsible for related work with:
1. Installation diagrams and details for setting mounted equipment.
 2. Templates for setting mounted equipment and bollards.
 3. Templates and cast –in inserts to anchor freestanding equipment to the curbs and bases.
 4. Electrical wiring diagrams and details.
 5. Electrical installation requirements.
 6. Electrical power/conduit requirements.
- M. The system shall be installed to meet the maintainability requirements as follows:
1. Incorporate features that minimize requirements for preventive maintenance, failure corrections, and performance verification.
 2. Provide for unobstructed access to equipment components as permitted by basic design constraints.
 3. Minimize requirements for special tools and test equipment. Provide for easy removal and replacement of component items.
 4. Provide for ease of performance verification and failure detection, while minimizing effort required for adjustment.
 5. The system installation shall be neat and workmanlike with all circuitry maintenance labeled.

- N. Maintenance of the equipment will include activities that are necessary to meet the conditions of the warranty as described herein.
- O. Exclusions: High speed commercial DSL or T1 for Credit Card processing wireless activation or supply of any smart phones for remote monitoring. However. A detailed specification for high-speed connections required by the system must be provided.
- P. An inventory of on-site spare parts as recommended by the proposer including:
 - a. spare gate arms 1
 - b. spare printer 1
 - c. spare barcode ticket reader 1
 - d. spare detector 1
 - e. spare credit card reader 1
 - f. Startup generic tickets, 50,000

Affirmative Action Plan

The City of Chattanooga is an equal opportunity employer and during the performance of this Contract, the Contractor agrees to abide by the equal opportunity goals of the City of Chattanooga as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap. The Contractor will take affirmative action to ensure that applicants are employed, and the employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay, or other forms of compensation, and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or handicap.
3. The Contractor will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. In all construction contracts or subcontracts in excess of \$10,000 to be performed for the City of Chattanooga, any contractor and/or subcontractor is further required to file in duplicate within ten (10) days of being notified that it is the lowest responsible bidder, an affirmative action plan with the EEO Director of the City of Chattanooga. This plan shall state the Contractor's goals for minority and women utilization as a percentage of the work force on this project.
5. This Plan or any attachments thereto shall further provide a list of all employees annotated by job function, race, and sex who are expected to be utilized on this project. This plan or attachment thereto shall further describe the methods by which the Contractor or Subcontractor will utilize to make good faith efforts at providing employment opportunities for minorities and women.

During the term of this contract, the Contractor upon request of the City, will make available for inspection by the City of Chattanooga copies of payroll records, personnel documents and similar records or documents that may be used to verify the Contractor's compliance with these Equal Opportunity provisions.

6. The Contractor will include the portion of the sentence immediately preceding paragraph 1 and the provisions of paragraphs 1 through 6 in every subcontract so that such provisions will be requested of each subcontractor. The Contractor agrees to notify the City of Chattanooga of any subcontractor who refuses or fails to comply with these equal opportunity provisions. Any failure or refusal to comply with these provisions the Contractor and/or Subcontractor shall be a breach of this contract.

(Signature of Contractor)

(Title and Name of Construction Company)

(Date)

REQUIREMENTS FOR INSURANCE COVERAGE

The Contractor shall not commence work under these Contract Documents until he has obtained all insurance required herein nor shall the Contractor allow any Subcontractor to commence work on his subcontract until similar insurance required of the Subcontractor has been obtained by the Subcontractor. Insurance shall be placed by the Contractor with one or more insurance carriers licensed to do business in the State of Tennessee. Each insurance policy shall be renewed ten (10) days before the expiration date of the policy.

Certificates of Insurance shall be filed with the City prior to commencement of the work. These certificates shall contain a provision that coverage's afforded under the policies will not be changed or canceled unless at least fifteen (15) days' written notice has been given to the City. The Contract shall not be binding upon the City until the insurance coverage required herein has been obtained and certificates have been filed with the City.

Adequate insurance coverage shall be maintained by the Contractor at all times. Failure to maintain adequate coverage shall not relieve the Contractor of any responsibilities or obligations under these Contract Documents. In the event any insurance coverage is canceled or allowed to lapse, the Contractor will not be permitted to prosecute the work until adequate and satisfactory insurance has been obtained and Certificates of Insurance furnished to the City. Failure to keep insurance policies in effect will not be cause for any claims for extension of time under these Contract Documents.

All such policies shall be subject to approval by the City Attorney. Should the City Attorney at any time in his sole discretion determine that the insurance policies and certificate provided may not be sufficient to protect the interests of the City because of the insolvency of the insurance company or otherwise, the Contractor shall replace such policies with policies meeting his approval.

The Contractor shall procure and maintain at his own expense, during the Contract Time, insurance as hereinafter specified:

Workmen's Compensation Insurance that shall protect the Contractor against all claims under applicable state workmen's compensation laws shall be maintained. The Contractor shall also be protected against claims for injury, disease or death of employees which, for any reason, may not fall within the provisions of a workmen's compensation law. This policy shall also include an endorsement providing coverage in all States in which work is performed. The Contractor shall require all the Subcontractors to provide similar Workmen's Compensation Insurance for all the Subcontractors' employees on the work unless such employees are covered by the protection afforded by the Contractor. The liability limits shall not be less than that required by statute.

General Public Liability and Property Damage Insurance that shall be written in comprehensive form and shall protect the Contractor against all claims arising from injuries including death, to members of the public or damage to property of others arising out of any act or omission of the Contractor or his agents, employees, or Subcontractors. In addition, this policy shall specifically insure the contractual liability assumed by the successful bidder to defend and indemnify the City of Chattanooga against such claims or suits.

To the extent that the work may require blasting, explosive conditions or underground operation, the comprehensive general public liability and property damage coverage shall contain no exclusion relative to blasting, explosion, collapse of buildings, or damage to underground property.

The comprehensive general public liability and property damage coverage shall also protect the Contractor against all claims from damage to:

1. Private driveways, walks, shrubbery and plantings;
2. Public utility facilities; and
3. U.S Government monuments.

The liability limits shall not be less than:

Bodily Injury	\$ 500,000 each person \$1,000,000 each occurrence
Property Damage	\$ 250,000 each occurrence \$ 500,000 aggregate

The general public liability and property damage insurance shall carry an endorsement in form satisfactory to the City to the effect that the Contractor shall save harmless the City from any claims and damages whatsoever, including patent infringement. General public liability and property damage insurance shall be kept in force at all times during the course of the work until such time as the work covered by these Contract Documents has been completed and accepted by the City.

Comprehensive Motor Vehicle Liability and Property Damage Insurance that shall be written in comprehensive form and shall protect the Contractor against all claims for injuries to members of the public and damage to property of others arising from the use of motor vehicles, and shall cover operation on or off the site of all motor vehicles licensed for highway use, whether they are owned, non-owned, or hired.

The liability limits shall not be less than:

Bodily Injury	\$ 250,000 each person \$ 500,000 each occurrence
Property Damage	\$ 100,000 each occurrence

Chapter No. 817 (HB0261/SB0377). "Iran Divestment Act" enacted.
Vendor Disclosure and Acknowledgement

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to § 12-12-106.

(SIGNED) _____

(PRINTED NAME) _____

(BUSINESS NAME) _____

(DATE) _____

For further information, please see website:

https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List_of_persons_pursuant_to_Tenn._Code_Ann._12-12-106,_Iran_Divestment_Act-July.pdf

No Contact/No Advocacy

Notice Receipt

City of Chattanooga
Purchasing Division

For Submission with Sealed Bid Solicitation Responses:

_____ (Vendor Agent name), states that:

(1) He/She is the owner, partner, officer, representative, or agent of _____

_____ (Business name), the Submitter of the

attached sealed solicitation response to Solicitation # _____, and said

Business has taken notice, and will abide by the following No Contact and No Advocacy clauses:

NO CONTACT POLICY: After the posting of this solicitation, a potential submitter is prohibited from directly or indirectly contacting any City of Chattanooga representative concerning the subject matter of this solicitation, unless such contact is made with the Purchasing Division.

NO ADVOCATING POLICY: To ensure the integrity of the review and evaluation process, companies and/or individuals submitting sealed solicitation responses, as well as those persons and/or companies formally/informally representing such submitters, may not directly or indirectly lobby or advocate to any City of Chattanooga representative.

Any business entity and/or individual that does not comply with the No Contact and No Advocating policies may be subject to the rejection or disqualification of its solicitation response from consideration.

Submitter Signature:

Printed Name:

Title: _____

Date: _____