Parking Access & Revenue Control System (PARCS) Equipment Procurement

Request for Proposal

Documents Manual

THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) 2023 EDITION, SHALL APPLY TO THIS PROJECT. THEY ARE AVAILABLE ONLINE AT: https://www.iowasudas.org/manuals/specifications-manual/
CITY OF DUBUQUE SUPPLEMENTAL SPECIFICATIONS 2023 EDITION, SHALL APPLY TO THIS PROJECT. THEY ARE AVAILABLE ONLINE AT: https://www.cityofdubuque.org/DocumentCenter/View/55134/2023-SUDAS-City-of-Dubuque-Supplemental-Specifications

CITY OF DUBUQUE
ENGINEERING DEPARTMENT
DUBUQUE, IA

Adopted Date: April 17, 2018

Date Issued: February 20, 2024

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PROJECT DIRECTORY PAGE

SECTION 00101

Parking Access & Revenue Control System (PARCS)
Equipment Procurement Project
Dubuque, Iowa

101.1 Authorized Parties:

The following contacts are the authorizing representatives for each of the parties, if a change is to be made to the Contract the following representatives must be contacted and approve of the change.

JURISDICTION/GOVERNMENT ENTITY REPRESENTATIVE	**ENGINEER'S REPRESENTATIVE**
City of Dubuque City Hall, 50 West 13th Street Dubuque, Iowa 52001	Walker Consultants 7760 France Ave. S., Suite 820 Minneapolis, MN 55435
Project Contact: Name: Steve Sampson Brown Title: Project Manager Department: Engineering Email: sbrown@cityofdubuque.org Phone:	Project Contact: Name: Brian McGann Title: Consultant BMcGann@WalkerConsultants.com Phone: 612-207-4585 cell

CONTRACTOR'S REPRESENTATIVE
Contractor Name Contractor Address City, State, Zip Code
Project Contact: Name: Name Title: Title Email: Email Phone: Phone

101.2 OTHER CONTACT INFORMATION:

City of Dubuque-Transportation Services 950 Elm Street Dubuque, IA 52001 Project Representative: Name: Ryan Knuckey Title: Transportation Services Manager Email: rknuckey@cityofdubuque.org Phone: 563-589-4266	**City of Dubuque-Parking Division** 949 Kerper Blvd Dubuque, IA 52001 Project Representative: Name: Russ Stecklein Title: Transportation Supervisor Email: rsteckle@cityofdubuque.org Phone: 563-589-4197

City of Dubuque-Inspection & Construction Services 350 W. 6th Street Dubuque, IA 52001 Project Representative: Name: Mike Belmont Title: Asst. Director/Building Code Official Email: mbelmont@cityofdubuque.org Phone: 563-589-4150	**City of Dubuque-Information Services** 1300 Main Street Dubuque, IA 52001 Project Representative: Name: Chris Kohlmann Title: Chief Information Officer Email: ckohlman@cityofdubuque.org Phone: 563-589-4280

==== END OF SECTION 00101 ===

TABLE OF CONTENTS
SECTION 00110

DIVISION 0 - PROPOSAL AND CONTRACTING REQUIREMENTS

==== END OF SECTION 00110 ====

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PROPOSAL SUMMARY

SECTION 00120

CITY OF DUBUQUE REQUEST FOR PROPOSAL

Parking Access & Revenue Control System (PARCS) Equipment Procurement

120.1 Time and Place for Filing Proposals

Proposals for the work comprising this procurement must be filed as stated below:

- Submittal Deadline: April 16, 2024 before 2:00 p.m. CST
- Submittal Location: Via email to: engineer@cityofdubuque.org
- Submittal Copies:
  1) Proposals: one electronic PDF file shall be provided.
  2) Vendor Fees: one electronic PDF file shall be provided.
  3) Name all electronic files using the following format: "Company Name"- Dubuque PARCS Equipment.pdf

120.2 Time for Commencement and Completion of Work

Work on the Project must be commenced within ten (10) calendar days after a contract has been executed and the Notice to Proceed has been issued and shall be fully completed by November 1, 2024.

120.3 Proposal Documents

Copies of the Request for Proposal (RFP) documents may be obtained at the Engineering Department, City Hall – Second Floor, 50 West 13th Street, Dubuque, Iowa 52001. The Request for Proposal documents will also be available on the City's website at www.cityofdubuque.org/bids.aspx. No deposit is required to obtain copies of the Request for Proposal.

120.4 Sales Tax

The Proposer should not include State of Iowa sales tax in its Proposal. A sales tax exemption certificate will be available for all material purchased in Iowa for incorporation into the PARCS Project.

120.5 RFP Project Scope Summary

Parking Access & Revenue Control System (PARCS) Equipment Procurement
Project Code: 4683000005

The City of Dubuque is soliciting competitive sealed proposals from qualified vendors to update parking access and revenue control system (PARCS) equipment at all six (6) of its downtown free-standing parking garages ("ramps") and optional pricing for one parking lot. The City is requesting proposals from qualified vendor(s) for an integrated and automated gated PARCS consistent across all six parking ramps. The end solution(s) must fully integrate with third party mobile parking payment applications.

The six downtown parking ramps are as follows (listed in alphabetical order):

- Central Avenue Ramp (515 spaces): 975 Central Avenue
- Five Flags Ramp (333 spaces): 100 West 4th Street
- Intermodal Ramp (317 spaces): 351 East 9th Street
- Iowa Ramp (622 spaces): 701 Iowa Street
- Locust Street Ramp (444 spaces): 830 Bluff Street
- 5th Street Ramp (675 spaces): 501 Iowa Street

Downtown Dubuque parking ramps handle a mix of transient and contract parking. Current gated PARCS equipment in the City's downtown ramps is aging and functionally obsolete, leading to a host of frustrations for customers and the City as the operator. Furthermore, the City cannot extract data from the current systems to understand parking behaviors and trends, which impedes the City from conducting data-driven parking management of facilities. More information about the downtown parking ramps can be found here: https://www.cityofdubuque.org/593/Parking-Ramp-Details

The City desires to complete PARCS upgrades in all six downtown ramps in 2024, and has capital funding allocated to do so. The City wishes to select a single PARCS vendor or vendor team to upgrade PARCS in all six ramps, so that PARCS is consistent across all facilities. The City requests proposals provide itemized costs, categorized by equipment type and by facility.

Systems must be able to accommodate pre-paid reservations and event parking, validations, contract parking (daytime and overnight), and hourly/daily transient parking options, with the option for parking grace periods for transient parkers. See detailed specifications enclosed for more information.

Beyond what is detailed in this RFP, the City welcomes alternative proposals that can accomplish the strategic objectives of parking ramp management including management of contract parkers, transient parking, revenue collection, access control, payment collection, enforcement, and data-driven parking system management. Additionally, the City welcomes alternative approaches to equipment financing beyond outright capital purchase.

The content herein represents the minimum components for this project. The proposing entity or entities should describe the means or strategy by which they will satisfy the requested scope of services, or at the proposing entity's or entities' preference, provide an alternative or second additional hybrid strategy that would improve the results of this project. If a hybrid strategy is being recommended by the proposing entity or entities, the proposing entity or entities should detail what processes and methods will be used to make the project better.

120.6 Pre-Proposal Conference

Each prospective Proposer is encouraged to attend the Pre-Proposal Conference to be held at 8:30 AM on March 14, 2024, at the Jule Operations & Training Center, 949 Kerper Blvd. in Dubuque, Iowa. **Attendance by all prospective Proposers is mandatory.**

120.7 Title VI – Non-Discrimination Clause

The City of Dubuque in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d-2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all Proposers that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit Proposals in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, sex, age, or disability in consideration for an award.

120.8 Request for Proposal Distribution

On the following date, February 20, 2024, this Notice was posted at the following locations:

1. The City of Dubuque Website.

==== END OF SECTION 00120 ====

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INSTRUCTIONS TO PROPOSERS

SECTION 00200

200.1 REQUEST FOR PROPOSAL DOCUMENTS

Copies of the RFP Documents may be obtained at the Engineering Department, City Hall – Second Floor, 50 West 13th Street, Dubuque, Iowa 52001. The Proposal Documents Manual will also be available on the City's website at www.cityofdubuque.org/bids.aspx. No deposit is required.

200.2 EXAMINATION

Proposers must use complete sets of RFP Documents in preparing Quotes. Proposers must examine the RFP Documents and the project locations to obtain first-hand knowledge of existing conditions. Extra compensation will not be given for conditions that can be determined by examining the RFP Documents and the sites.

200.3 QUESTIONS AND INTERPRETATIONS

Proposers must submit questions about the RPF Documents to the Engineer's Representative in writing or by email only. Replies will be issued to RFP Document holders of record as Addenda to the RFP Drawings and Specifications and will become part of the RFP Documents. Neither City nor a Proposer may rely on oral clarification.

Failure to request clarification will not waive the responsibility of comprehension of the RFP Documents Manual and performance of the work in accordance with the intent of the documents. Signing of the RFP Proposal constitutes an acknowledgement of understanding of the RFP Documents.

For questions concerning this Request for Proposals, please submit your requests to the City's designated Engineer Representative. The City has made considerable efforts to ensure an accurate representation of information in this RFP. No answers given in response to questions submitted shall be binding upon this RFP unless released in writing (letter or email) as an officially numbered and titled addendum to the RFP by the City of Dubuque.

Any questions concerning this RFP must be received on or before 5:00 p.m. CST on March 28, 2024. Any inquiries received after this date will not be answered. When submitting a question please include the appropriate Vendor contact information. Technical questions relating to the Walker Consultants technical specifications and contract drawings may be submitted directly to the project contact listed in Section 00270.

Note: If submitting a question via email, please send a text message to the mobile number listed below to verify the email has been received. From the date of issuance of the RFP until final City action, the Proposer shall not discuss the RFQ with or contact other City of Dubuque staff, Walker Parking members (except for technical questions described above), or any of the RFP Selection Committee members except as expressly authorized by the City's Project Manager identified in this section (Section 00200). Violation of this requirement shall be considered a violation of the RFQ rules and be grounds for disqualification of the Vendor's proposal.

Project Manager contact information is as follows:
Steve Sampson Brown
Phone: 563.589.4270 Office
Project Manager 563.599.9498 Mobile
City of Dubuque email: sbrown@cityofdubuque.org
Engineering Department
50 West 13th Street
Dubuque, IA 52001

200.4 PRODUCT OPTIONS

To obtain approval to use an unspecified product, a Proposer must deliver written requests to the Engineer's Representative at least seven (7) working days before the Proposals are due. Late requests will not be considered. The Proposer must submit requests using the Substitution Request Form in Section 00270. Be sure to clearly describe and indicate the product for which approval is requested and include any data as necessary to demonstrate acceptability of the substitute product. The written request must indicate the section number, page number and line number of the Specification for the product. If the product is acceptable, the Engineer's Representative will approve it in an Addendum.

200.5 INSPECTION OF THE PROJECT SITE

Each Proposer must visit the project site(s) of the proposed work to fully acquaint itself with the existing conditions relating to the project and must inform itself as to the facilities involved, the difficulties and the restrictions related to the performance of the Proposal Contract. Each Proposer must thoroughly examine and familiarize itself with the specifications and all other RFP Documents. The Vendor by the execution of the Proposal Contract shall in no way be relieved of any obligation under the contract due to Vendor's failure to receive or examine any contract document or to visit the site and acquaint itself with the conditions there existing. City will be justified in rejecting any claim based on facts regarding which the Vendor should have been aware of as a result of its inspection.

200.6 RELEASE OF SITE: SEQUENCE OF WORK

Proposers are referred to the RFP Documents Manual for information regarding the manner in which the project site(s) will be released and made available for equipment installation purposes, and the sequence in which the installation work shall be performed.

200.7 PREPARATION OF PROPOSALS

1. All Proposals must be submitted using the RFP Proposal Fee Form (SECTION 00401) supplied by the City and bound in this RFP Documents Manual. All Proposals are subject to all requirements of the RFP Documents Manual including these INSTRUCTIONS TO PROPOSERS. All Proposals must be regular in every respect and no modifications, exclusions, or special conditions shall be made or included on the RFP Proposal Fee Form by the Proposer.

2. The RFP Proposal and RFP Proposal Fee Form (SECTION 00401) must be enclosed in separate and clearly labeled electronic files.

Proposals for the work comprising this procurement must be filed as stated below:

- Submittal Location: Via email to: engineer@cityofdubuque.org

- Submittal Copies:
  1) Proposals: one electronic PDF file shall be provided.
  2) Proposal Fees: one electronic PDF file shall be provided.

a. THE ELECTRONIC FILE CONTAINING THE RFP PROPOSAL MUST BE LABELED AS FOLLOWS:

Dubuque PARCS Proposal – (Proposer Name)

b. THE ELECTRONIC FILE CONTAINING THE RFP PROPOSAL FEE FORM MUST BE LABELED AS FOLLOWS:

Dubuque PARCS Project Fee – (Proposer Name)

c. Submit the Section 00110 PARCS Price Proposal Form in PDF file format as pages included with the RFP Proposal Fee Form.

3. Proposals submitted after the date and time for filing proposals as listed in the Proposer Summary (SECTION 00120) shall not be considered and will be returned to the Proposer unopened.

4. The City may reject any irregular or non-responsive Proposal.

5. If the Project is awarded, it will be awarded by the City to the Proposer ranked highest based on the proposal ranking criteria. The Contract for the work will require the completion of project according to the Proposal Documents Manual.

6. Each Proposer must include with their Proposal, in the appropriate spaces provided on the RFP Proposal Fee Form, the proposed Fees of performing said work in compliance with the Proposal Documents Manual including all items of labor, equipment, materials and overhead costs.

200.8 CORRECTIONS

Erasures or other changes in the Proposal or RFP Proposal Fee Form must be explained or noted and initialed by the Proposer.

200.9 TIME FOR RECEIVING PROPOSALS

Proposals received prior to the time of opening will be securely kept. The officer whose duty it is to open them will decide when the specified time has arrived and will distribute them to the RFP review committee, and no Proposal received thereafter will be considered.

200.10 RANKING OF PROPOSALS

Proposals will be screened to ensure that they meet the minimum requirements of the proposal format. A selection committee will review qualifying proposals and select a Vendor and make a recommendation of Award to the Dubuque City Council in accordance with the rules listed in Appendix A.

200.11 WITHDRAWAL OF PROPOSALS

Proposals (received prior to the time fixed for opening) may be withdrawn on written request by the Vendor.

285.12 PROPOSAL SUBMITTAL INFORMATION

No faxed or printed proposals will be accepted. The proposal must be a document of not more than twenty-five (25) numbered 8-1/2 x 11-inch pages, with the exception of the project schedule which may be presented in 11 x 17-inch format, and not including the letter of transmittal, index, RFP Proposal Fee Form, PARCS Price Proposal Form, dividers and the front and back covers. Any proposals exceeding 25 numbered pages will not be considered.

Each addendum shall be acknowledged in the Letter of Transmittal by providing the addendum number and title. Failure to acknowledge each addendum will be considered grounds for possible disqualification. It is solely the Consultant's responsibility to ensure that all addendums to this RFQ have been received before submitting the proposal.

200.13 VENDOR BACKGROUND INFORMATION FORM

The Vendor Background Information Form (Section 00471) must be submitted within 72 hours of a formal request being made by the RFP Selection Committee. The Form may be submitted to the City by either delivering a hardcopy or by email to the Jurisdiction Representative.

200.14 AWARD OF CONTRACTS AND REJECTION OF PROPOSALS

The Vendor Equipment Contract (SECTION 00500) shall be awarded by the Dubuque City Council. The Vendor to whom the award is made shall be notified at the earliest possible date by a Notice of Award. Failure of a Vendor to provide the Vendor Background Information Form within the period specified in Section 200.12 or within such extended period as the City may grant, based upon reasons determined sufficient by the City, shall be grounds for determining a Vendor's Proposal as not responsible, and the City may either award the Contract to another Vendor or re-advertise for Proposals.

200.15 EXECUTION OF VENDOR CONTRACT

1. Within fifteen (15) calendar days after the date of the City's Notice of Award, the successful Vendor shall execute and deliver to the City a Contract (SECTION 00500) in the form included in the Proposal Documents Manual in such number of copies as the City may require.

2. Insurance documents shall be submitted in accordance with SECTION 00700 and must be properly completed prior to execution of the Contract by the City.

3. Iowa Sales Tax Exemption Certificate documents shall be submitted in accordance with SECTION 00750 and must be properly completed prior to execution of the Contract by the City.

4. The successful Vendor shall, within the period specified in Section 00200.14 Paragraph 1 above, also furnish a Contractor's Performance and Maintenance Bond in the form included in the Proposal Documents Manual and shall bear the same date as, or a date subsequent to, the date of the Contract. The power of attorney for the person who signs for any surety company shall be attached to such Bond.

5. The failure of the successful Vendor to execute such Contract and to supply the required Bond(s), Insurance, and Iowa Sales Tax Exemption Certificate information within fifteen (15) calendar days after the date of City's Notice of Award, or within such extended period as the City may grant, based upon reasons determined sufficient by the City, shall constitute a default, and the City may either award the Contract to another Vendor or re-advertise for Proposals.

6. After the Contract, Bonds, Insurance Documents, Sales Tax Exemption Certificate Form and Contractor Background Information Form have been properly provided, the City will execute the contract and issue the Notice to Proceed.

==== END OF SECTION 00200 ====

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SUBSTITUTION REQUEST FORM

SECTION 00270

270.1 PROJECT INFORMATION

Project: Parking Access & Revenue Control System (PARCS) Equipment Procurement Project

SUBMIT REQUESTS FOR SUBSTITUTIONS DURING THE RFP PHASE TO:

_Brian McGann PCIP_____

_Consultant_____

_Walker Consultants_____

_7760 Francis Ave. S., Suite 820, Minneapolis, MN_____

_bmcgann@walkerconsultants.com_____

SUBMISSION DATE: _____/_____/_____

REQUEST FROM: _____

1) SPECIFICATION SECTION

SPEC. SEC. NO: _____

SPEC. SEC. TITLE: _____

DESCRIPTION: _____

ARTICLE: _____

PARAGRAPH: _____

2) PROPOSED SUBSTITUTION

MANUFACTURER: _____

TRADE NAME: _____

MODEL: _____

270.2 ACKNOWLEDGEMENTS AND ATTACHMENTS

In submitting this Request, the undersigned acknowledges and represents that:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay the project schedule.
- Proposed substitution does not affect dimensions and functional clearances.

Attachments: The following attachments are required as part of this submittal request.

1) _____ Product Data, descriptions and specifications necessary for evaluation.

2) _____ Drawings necessary to indicate proper installation in the Work.

3) _____ Tests and Reports consistent with specified performance

4) _____ Material Samples (if applicable): _____

SUBMITTED BY: _____

TITLE: _____

COMPANY NAME: _____

TELEPHONE: _____

EMAIL: _____

270.3 ENGINEER'S REVIEW AND ACTION

_____ Substitution approved – Make submittals in accordance with Specification Section for this item.

_____ Substitution rejected – Revise and Resubmit.

_____ Substitution rejected – Use specified materials.

REVIEWED BY: _____

DATE: _____/_____/_____

==== END OF SECTION 00270 ====

PROPOSAL FORMAT

SECTION 00285

285.1 INFORMATION TO BE INCLUDED IN THE PROPOSAL

To simplify the review process and to obtain the maximum degree of comparability, the proposal shall include the following information and shall be organized in the order and manner specified below. While additional data may be presented, the following subjects must be included as they represent the minimum criteria against which the proposal will be evaluated.

A. Letter of Transmittal
Provide a letter of transmittal briefly outlining the Consultant's understanding of the work and list the Project Manager's name, address, office telephone number, mobile telephone number and email address. The name that is provided for the Project Manager will be used as the primary contact person during the RFQ evaluation process.

B. Table of Contents
The proposal shall contain a table of contents that delineates each section and the corresponding page number.

C. Profile of Firm
Provide general information about the Firm, along with its area of expertise and experience as it relates to this RFQ. Describe the experience and success of the Firm in working on similar projects. State the size of the Firm, the size of the Firm's professional staff, and the location(s) of the office from where the work on this project will be performed.

D. Project Capacity/Workload
Discuss the Consultant's ability to integrate this project into their present workload. Include a statement to specify if the Consultant currently has the capacity to undertake the project or whether it intends to hire additional staff or partner with sub-consultants.

E. Scope of Services
Describe the means or strategy by which the Consultant would satisfy the scope of services for the Project as detailed in the project drawings and technical specifications. The Consultant may also choose to submit a second alternative or hybrid strategy with a modified scope of services that would improve the results of the project.

Include a basic work plan that delineates the Consultant's approach to the completion of the project. The work plan, at a minimum, should include those components outlined in this RFP. The Consultant should indicate in the work plan those aspects that are expected to be completed by city staff.

Highlight any parts of the work plan that will reflect the Consultant's unique philosophy or insight regarding the approach to this project and how this approach positively impacts the successful completion of the project.

F. Quality Assurance/Quality Control
As a part of the proposal, specifically describe the quality control process that will be used throughout the project. List the number of hours for each phase that will be dedicated to QA/QC and briefly describe how those hours will be spent. The City expects that the majority of the QA/QC process will be performed by someone who is not an active member of the project team.

G. Project Team Qualifications
Provide the names for key members of the project team associated with this project. Specifically identify the supervisory and management staff including principals, the project manager, and technical experts who would be assigned to this project. For each project team member, provide a short summary of their qualifications and experience. Specifically list any successful experiences working on outdoor amphitheaters or similar spaces.

Include a flow chart that shows the communication path between the City and the Consultant. Include all project team members on the flow chart and show the supervisory relationship between all members of the team. Be sure to include all subconsultant staff on the project team flow chart. Describe the major tasks each team each team member will be working on.

Provide the name and location of other sub-consulting firms that would be used by the Consultant during the project and the approximate percentage and type of work that would be performed by each firm. Summarize the qualifications and experience of all sub-consultant staff working on the project.

In submitting the proposal, the prospective Consultant is representing that each person listed or referenced in the proposal shall be available to perform the services as described. The project manager, principals, management, and other project team staff may be changed in accordance with the requirements described in Appendix C, Section 3 - Substitution of Project Team Members.

Provide at least 3 client references (include individual contact names and telephone numbers) for similar projects that have been completed by the Consultant in the last five (5) years. List the names of individuals on the project team proposed for the Dubuque project who have worked on the client reference projects.

H. Proposed Project Schedule
Provide a project schedule for each proposed strategy. Outline the time durations and estimated completion dates for each major component of the proposed scope of work. The schedule should list all deliverables that are required throughout the project.

I. Certificate of Insurance
The Consultant should provide a statement indicating that they are able to meet the City's insurance requirements for professional services. (See attached Insurance Schedule F – Section 00700) Submittal of insurance documents as part of this RFP is not required.

J. Understanding of Final Contract Terms
The Proposer should provide a statement that indicates they have read and understand Appendix C – "City of Dubuque Contract Terms and Conditions" and agree to include the clauses that are listed in Appendix C in the final signed contract. Any exceptions to the Contract Terms and Conditions by the Consultant must be clearly stated in the submitted proposal.

==== END OF SECTION 00285 ====

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PROPOSAL SUBMITTAL CHECKLIST

SECTION 00300

Parking Access & Revenue Control System (PARCS) Equipment Procurement Project

300.1 RFP Submittal Check List

Checking your Proposal submittal, before filing, against the following checklist will help prevent minor errors or omissions, which could result in rejection of the Proposal because it is non-responsive.

(1) RFP Proposal Fee Form:

- ✓ The proposal must be submitted on the form listed below and provided by the City:
    - RFP PROPOSAL FEE FORM - SECTION 00401
- ✓ Acknowledge receipt of all addenda on the RFP Proposal Fee Form (SECTION 00401).
- ✓ RFP Proposal Fee Form (SECTION 00401) must be signed by an authorized agent.
- ✓ The RFP Proposal Fee Form must not be qualified in any way or contain any disclaimers or special conditions, or the Proposal may be found non-responsive.
- ✓ The Proposal should include all points of information listed in Section 00285.
- ✓ Submit the Section 00110 PARCS Price Proposal Form in PDF file format as pages included with the RFP Proposal Fee Form.

(2) Submittal of Proposal:

- ✓ The RFP Proposal Fee Form (SECTION 00401) must be accompanied in a separate
- ✓ The Proposal and RFP Proposal Fee Form must be submitted in a separate electronic file labeled as follows:

  RFP PROPOSAL MUST BE LABELED AS FOLLOWS:
  Dubuque PARCS Project Proposal – (Proposer Name)

THE RFP PROPOSAL FEE FORM MUST BE LABELED AS FOLLOWS:
Dubuque PARCS Project Fee – (Proposer Name)

- ✓ And addressed to Location for Filing the Proposal:

  Via email to: engineer@cityofdubuque.org

- ✓ Sufficient time should be allowed for Proposals to be delivered. Late Proposals will not be considered and will be returned unopened.

== == END OF SECTION 00300 ====

RFP PROPOSAL FEE FORM

SECTION 00401

PROJECT: Parking Access & Revenue Control System (PARCS) Equipment Procurement

PROPOSAL TO: Office of Engineering Department by email to: engineer@cityofdubuque.org

PROPOSAL FROM:

_____ (Company)

_____ (Street Address)

_____ (City, State, Zip)

_____ (Telephone)

401.1 General

The undersigned Vendor agrees, if the Proposal is accepted, to enter into a Contract with the City, in the form included in the Proposal Documents Manual, to perform and furnish the Work as specified or indicated in the Proposal Documents Manual for the Listed Fee Price and within the timeframe and schedule indicated in the Contract Documents and in accordance with other terms and conditions of the Contract Documents.

401.2 Recitals

In submitting this Proposal Fee Form, Vendor represents, as more fully set forth in the Vendor Equipment Contract, that:

a. This Proposal Fee will remain subject to acceptance for forty-five (45) calendar days after the day of Proposals being due;

b. The City has the right to reject this Proposal and to waive any informalities in the Proposal or Proposal Fee;

c. Proposer will sign and submit the Vendor Equipment Contract with the Bond and other documents required by the Contract Documents within fifteen (15) calendar days after the date of City's Notice of Award;

The Vendor hereby certifies that they are the only person or persons interested in this proposal as principals; that an examination has been made of the drawings, specifications, contract form, including the special provisions contained herein, and the work site, and the Vendor understands that the quantities of work shown herein are approximate only and are subject to increase or decrease; and further understands that all quantities of work, whether increased or decreased, are to be performed at the lump sum price as stipulated herein; the Vendor proposes to furnish all necessary machinery, equipment, tools, labor and other means of installation, and to furnish all materials specified in the manner and time prescribed and to do the work at the prices herein set out.

401.3 Vendor's Acknowledgment

In submitting this Proposal this Vendor acknowledges and represents that:

1) Vendor has examined copies of all the Contract Documents;
2) Vendor has visited the Place of Work and become familiar with the general, local, and site conditions;
3) Vendor is familiar with federal, State, and local laws, ordinances and regulations that govern the work specified by the Contract Documents;
4) Vendor has correlated the information known to the Vendor, observations obtained from the examination of the site, reports and drawings identified in the Contract Documents and additional investigations, explorations, tests, studies and data within the Contract Documents;
5) This Vendor is genuine and not made in the interest of or on behalf of an undisclosed person, firm or corporation; Vendor has not directly or indirectly induced or solicited another Vendor to submit a false or sham Proposal; Vendor has not solicited or induced a person, firm or corporation to refrain from submitting a Proposal; and Vendor has not sought by collusion to obtain for itself an advantage over another Proposer or over City;
6) Local and State sales and use taxes are not included in the Proposal Amount.

401.7 Timeliness

Vendor agrees that the work shall be Substantially Complete and made ready for final payment in accordance with Contract Documents no later than the date(s) indicated in Section 00800 – Progress Schedule and Agreed Cost of Delay.

401.8 Documents To Be Submitted To Respond to this RFP

The following documents are included and made a condition of this Proposal:

1) The Proposal:

   The proposal should address all points outlined in this RFP excluding any cost information. The proposal should be prepared simply and economically, providing a straight-forward, concise description of the Vendor's capabilities that satisfy the requirements of this RFP.

2) The RFP Proposal Fee Form:

   Accompanying the Proposal, this RFP Proposal Fee Form shall be submitted in a separate electronic file which identifies the component costs of the total fee amount.

401.4 Project Total Amount

Vendor will complete the work in accordance with the Contract Documents for the following:

Project Total Amount $_____(figures)

_____

_____(use words)

Any written exclusions on the RFP Proposal Fee Form may render the Proposal as nonresponsive and may result in rejection by the City.

401.9 Document Submittal Requirements by Vendor

The Vendor must submit the Vendor Background Information Form (Section 00471) to the Jurisdiction Representative within 72 hours after formal request by the RFP Review Committee. Failure to submit the Vendor Background Information Form by the required deadline may be considered justification for the City to determine the Vendor as not responsible**.**

401.10 Contract Execution

The Vendor further agrees to execute a formal Contract and Bond, within fifteen (15) calendar days after the date of the City's Notice of Award. The Vendor also agrees it will commence work on or before ten (10) calendar days after the date of City's Notice to Proceed, and it will complete the work within the specified contract period or pay the Agreed Cost of Delay stipulated in the Contract Documents.

401.11 Questions and Interpretations

Failure by the Proposer to request clarification of the Contract Documents during the RFP Proposal process does not waive the responsibility for comprehension of the documents and performance of the work in accordance with the Contract Documents. Signing of the RFP Proposal Fee Form constitutes the Vendor's certification as implicitly denoting thorough comprehension of intent of the Contract Documents.

401.12 Addenda

The Vendor acknowledges receipt of the following addenda:

_____ Dated: _____

_____ Dated: _____

_____ Dated: _____

_____ Dated: _____

401.13 Signatures

Vendor:

_____ Dated: _____
Vendor Name

_____
Street (Business Location)

_____
City

_____
State Zip

_____Dated: _____
Signature

_____
Title

==== END OF SECTION 00401 ===

SECTION 00471

VENDOR BACKGROUND INFORMATION

FOR SMALL CONTRACTS (Between $25,000 and $3,000,000)

Upon request of the RFP Review Committee, the Vendor must submit the Vendor Background Information Form to the Jurisdiction Representative within 72 hours after the request is made. Failure to submit the Vendor Background Information Form by the required deadline may be considered justification for the City to determine the Vendor as not responsible.

All questions must be answered clearly and comprehensively. If necessary, questions may be answered on separate attached sheets. The Vendor may submit any additional information that it deems necessary.

1. SUBMITTED BY:

Official Name of Firm: _____

Address: _____

_____

_____

2. VENDOR'S CONTACT INFORMATION:

Contact Person: _____

Title: _____

Phone: _____

Email: _____

3. TYPE OF ORGANIZATION:

☐ SOLE PROPRIETORSHIP

Name of Owner: _____

Doing Business As: _____

Date of Organization: _____

☐ PARTNERSHIP

Date of Organization: _____

Type of Partnership: _____

Name of General Partner(s): _____

_____

☐ CORPORATION

State of Organization: _____

Date of Organization: _____

Executive Officers:

President: _____

Vice President(s): _____

_____

Treasurer: _____

Secretary: _____

☐ LIMITED LIABILITY COMPANY

State of Organization: _____

Date of Organization: _____

Members: _____

☐ JOINT VENTURE

State of Organization: _____

Date of Organization: _____

Form of Organization: _____

Joint Venture Managing Partner(s)

Name: _____

Address: _____

_____

Name: _____

Address: _____

_____

Name: _____

Address: _____

_____

☐ OTHER

State of Organization: _____

Name of Organization: _____

Form of Organization: _____

Date of Organization: _____

Principal

Name: _____

Title: _____

Address: _____

_____

A. How many years has your organization been in business as a parking vendor?
_____ years.

B. How many years have you been engaged in the parking business under your present firm or trade name?
_____ years.

C. Under what other or former names does or has your organization operated?
_____
_____

4. CERTIFICATIONS: **CERTIFIED BY:**

Disadvantage Business Enterprise: _____

Minority Business Enterprise: _____

Woman Owned Enterprise: _____

Small Business Enterprise: _____

Other:_____ _____

5. BONDING INFORMATION:

Bonding Company: _____

Address: _____

_____

Bonding Agent: _____

Address: _____

_____

Contact Name: _____

Phone: _____

Aggregate Bonding Capacity: _____

Available Bonding Capacity as of date of this submittal: _____

6. EQUIPMENT INSTALLATION EXPERIENCE:

A. Current Experience:

List on ***Schedule A*** all uncompleted projects currently under contract.

B. Previous Experience:

List on ***Schedule B*** at least three (3) projects completed within the last three (3) years that had a similar scope of work.

Do you have direct related project experience? If no direct related project experience, add an Attachment that explain how you intend to complete the contract.

☐ NO ☐ YES

In the past eight (8) years has the firm listed in Section 1 ever failed to complete an equipment installation contract awarded to it? If YES, add an Attachment that provides details of the circumstances and include Project Owner's contact information.

☐ NO ☐ YES

Have you ever been found not to be a responsible Vendor by a municipality? If YES, add an Attachment that provides details of the circumstances and include Project Owner's contact information.

☐ NO ☐ YES

In the past eight (8) years has any Corporate Officer, Partner, Joint Venture participant or Proprietor ever failed to complete a parking equipment installation contract awarded to them in their name or when acting as a principal of another entity? If YES, add an Attachment that provides details of the circumstances and include Project Owner's contact information.

☐ NO ☐ YES

Are there any judgments, claims, disputes or litigation pending or outstanding with an individual value greater than $200,000 involving the firm listed in Section 1 or any of its officers (or any of its partners if a partnership or any of the individual entities if a joint venture)? If YES, add an Attachment that provides details of the circumstances and include Project Owner's contact information.

☐ NO ☐YES

Have you ever been declared in default under a performance Bond in the last five (5) years? If YES, add an Attachment that provides details of the circumstances and include the name and contact person of the owner(s) of the project and the contact person at the surety/Bonding company.

☐ NO ☐YES

Are you currently being investigated for or have previously violated in the last five years any of the following state or federal laws: Iowa Minimum Wage Act, Iowa Non-English Speaking Employees Act, Iowa Child Labor Act, Iowa Labor Commissioner's Right to Inspect Premises, Iowa Compensation Insurance Act, Employment Security Act, Iowa Competition Act, Iowa Income, Corporate and Sales Tax Code, Iowa Employee Registration Requirements, Iowa Hazardous Chemical Risks Act, Iowa Wage Payment Collection Act, Federal Income and Corporate Tax Code, The National Labor Relations Act, The Drug-Free Workplace Act, the Employee Retirement Insurance Security Act, Title VI of the Civil Rights Act of 1964, The Fair Labor Standards Act: If YES, add an Attachment that provides details of the circumstances and explain.

☐ NO ☐YES

7. SAFETY PROGRAM:

Name of Equipment Installation Vendor's Lead Safety Officer:_____

Name of Equipment Installation Vendor's Safety Officer assigned to this project:_____

Include the following as attachments:

A. Provide as an Attachment Vendor's OSHA **No. 300- Log & Summary of Occupational Injuries & Illnesses** for the past 2 years. Vendor must submit the same information for all proposed Subcontractors performing Work having a value in excess of 10 percent of the total proposal amount.

B. Provide as an Attachment Vendor's list **of all OSHA Citations & Notifications of Penalty** (monetary or other) received within the last 2 years (indicate disposition as applicable) - IF NONE SO STATE. Vendor must submit the same information for all proposed Subcontractors performing Work having a value in excess of 10 percent of the total proposal amount.

C. Provide as an Attachment Vendor's **list of all safety citations or violations under any state** all received within the last 2 years (indicate disposition as applicable) - IF NONE SO STATE. Vendor must submit the same information for all proposed Subcontractors performing Work having a value in excess of 10 percent of the total proposal amount.

D. Provide the following for the firm listed in Section 3 (attach additional sheets as necessary) the following (Vendor must submit the same information for all proposed Subcontractors performing Work having a value in excess of 10 percent of the total proposal amount:

Workers' compensation Experience Modification Rate (EMR) for the last 2 years:

YEAR _____ EMR _____
YEAR _____ EMR _____

Total Recordable Frequency Rate (TRFR) for the last 2 years:

YEAR _____ TRFR _____
YEAR _____ TRFR _____

Total number of man-hours worked for the last 2 Years:

YEAR _____ TOTAL NUMBER OF MAN-HOURS _____
YEAR _____ TOTAL NUMBER OF MAN-HOURS _____

I HEREBY CERTIFY THAT THE INFORMATION SUBMITTED HEREWITH, INCLUDING ANY ATTACHMENTS, IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT THE CITY OF DUBUQUE MAY RELY ON THE INFORMATION PROVIDED.

NAME OF ORGANIZATION: _____

SIGNATURE: _____

NAME: _____

TITLE: _____

DATED: _____

NOTARY ATTEST:

SUBSCRIBED AND SWORN TO BEFORE ME

THIS _____ DAY OF _____, 20___

NOTARY PUBLIC - STATE OF _____

MY COMMISSION EXPIRES:_____

REQUIRED ATTACHMENTS:

1. Schedule A (Current Experience).
2. Schedule B (Previous Experience).
3. Evidence of authority for individuals listed in Section 3 to bind organization to a Contract.
4. Resumes of officers and key individuals (including Safety Officer) of Company named in Section 1.
5. Required safety program submittals listed in Section 7.
6. Additional items as needed to complete background information request.

SCHEDULE A

PROJECTS CURRENTLY UNDER CONTRACT

Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:

SCHEDULE A

PROJECTS CURRENTLY UNDER CONTRACT

Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:

SCHEDULE B

PREVIOUS EXPERIENCE (List projects that fulfill the requirements of Section 6B)

Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:
Project Name:	
Project Information	
Project Type:	
Contract Start Date:	Contract End Date:
Percent Complete:	Contract Amount:

==== END OF SECTION 00471 ====

VENDOR EQUIPMENT CONTRACT

SECTION 00500

Parking Access & Revenue Control System (PARCS) Equipment Procurement Project

THIS EQUIPMENT CONTRACT (the Contract), made in triplicate, dated for references purposes the _____ day of _____, 20__ between the City of Dubuque, Iowa, by its City Manager, through authority conferred upon the City Manager by its City Council (City), and by _____ (Vendor).

For and in consideration of the mutual covenants herein contained, the parties hereto agree as follows:

VENDOR AGREES:

To furnish all material and equipment and to perform all labor necessary for the

1. Parking Access & Revenue Control System (PARCS) Equipment Procurement Project (Project).

2. CONTRACT DOCUMENTS
   A. The Contract Documents consist of the following:
      1. Project Title Page (Section 00100).
      2. Project Directory Page (Section 00101).
      3. This Public Improvement Contract (Section 00500).
      4. Performance and Maintenance Bond (Section 00600).
      5. The Iowa Statewide Urban Design And Specifications (SUDAS) 2023 Edition.
      6. CITY OF DUBUQUE Supplemental Specifications 2023 Edition.
      7. Other Standard and Supplementary Specifications as listed on the Title Page of the Contract Document Manual.
      8. Technical Specifications and Special Provisions included in the project Contract Document Manual.
      9. Drawings –Sheet No. G-000 through No. Q-152 (8 pages) or drawings consisting of sheets bearing the following general title:
         City of Dubuque Parking System Technology & Equipment Procurement
      10. Addenda (numbers __ to __, inclusive).
      11. Insurance Provisions and Requirements (Section 00700).
      12. Sales Tax Exemption Certificate (Section 00750).
      13. Site Condition Information (Section 00775).
      14. Construction Schedule and Agreed Cost of Delay (Section 00800).
      15. Other Project Information and Permits (Sections 01100 - 00000).
      16. Exhibits to this Contract (enumerated as follows):
          a. Vendors RFP Proposal Fee Form (pages ____ to ____ inclusive).

b. The following documentation that must be submitted by Vendor prior to Notice of Award.

i. Vendor Background Information Form (Section 00471)

ii. _____

17. The following which may be delivered or issued on or after the Effective Date of the Contract:
    a. Notice to Proceed (Section 00850).
    b. Project Certification Page (Section 00102).
    c. Change Orders (Not attached to this agreement).

There are no other Contract Documents. The Contract Documents may only be amended, modified, or supplemented as provided in General Conditions.

3. All materials used by the Vendor in the Project must be of the quality required by the Contract Documents and must be installed in accordance with the Contract Documents.

4. The Vendor must remove any materials rejected by the City as defective or improper, or any of said work condemned as unsuitable or defective, and the same must be replaced or redone to the satisfaction of the City at the sole cost and expense of the Vendor.

5. Five percent (5%) of the Contract price will be retained by the City for a period of thirty (30) days after final completion and acceptance of the Project by the City Council to pay any claim by any party that may be filed for labor and materials done and furnished in connection with the performance of this Contract and for a longer period if such claims are not adjusted within that thirty (30) day period, as provided in Iowa Code Chapter 573 or Iowa Code Chapter 26. The City will also retain additional sums to protect itself against any claim that has been filed against it for damages to persons or property arising through the prosecution of the work and such sums will be held by the City until such claims have been settled, adjudicated or otherwise disposed of.

6. The Vendor has read and understands the Contract Documents herein referred to and agrees not to plead misunderstanding or deception related to estimates of quantity, character, location or other conditions for the Project.

7. In addition to any warranty provided for in the specifications, the Vendor must also fix any other defect in any part of the Project, even if the Project has been accepted and fully paid for by the City. The Vendor's maintenance bond will be security for a period of two years after the issuance of the Certificate of Substantial Completion.

8. The Vendor must fully complete the Project under this Contract on or before the date indicated in the Construction Schedule and Agreed Cost of Delay Section of the Contract Documents.

9. INDEMNIFICATION FROM THIRD PARTY CLAIMS. To the fullest extent permitted by law, Vendor shall defend, indemnify and hold harmless City, its officers and employees, from and against all claims, damages, losses and expenses claimed by third parties, but not including any claims, damages, losses or expenses of the parties to this Contract, including but not limited to attorneys' fees, arising out of or resulting from performance of this Contract, provided that such claim, damages, loss or expense is attributable to bodily injury, sickness, disease or death, or injury to or destruction of property, including loss of use resulting there

from, but only to the extent caused in whole or in part by negligent acts or omissions of Vendor, or anyone directly or indirectly employed by Vendor or anyone for whose acts Vendor may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder.

10. The Vendor hereby represents and guarantees that it has not, nor has any other person for or in its behalf, directly or indirectly, entered into any arrangement or Contract with any other Proposal, or with any public officer, whereby it has paid or is to pay any other Vendor or public officer any sum of money or anything of value whatever in order to obtain this Contract; and it has not, nor has another person for or in its behalf directly or indirectly, entered into any Vendor arrangement with any other person, firm, corporation or association which tends to or does lessen or destroy free competition in the award of this Contract and agrees that in case it hereafter be established that such representations or guarantees, or any of them are false, it will forfeit and pay not less than ten percent (10%) of the Contract price but in no event less than $2,000.00 (Two Thousand Dollars) to the City.

11. The surety on the Bond furnished for this Contract must, in addition to all other provisions, be obligated to the extent provided for by Iowa Code 573.6 relating to this Contract, which provisions apply to said Bond.

12. The Vendor agrees, and its Bond is surety therefore, that after the Certificate of Substantial Completion has been issued by the City, it will keep and maintain the Project in good repair for a period of two (2) years.

13. The Project must be constructed in strict accordance with the requirements of the laws of the State of Iowa, and the United States, and ordinances of the City of Dubuque, and in accordance with the Contract Documents.

    A. All applicable standards, orders, or regulations issued pursuant to the Clean Air Act of 1970 (42 U. S. C. 1958 (H) et. seq.) and the Federal Water Pollution Act (33 U. S. C. 1368 et. seq.) as amended, Executive Order 11738, and Environmental Protection Agency regulations (40 CFR, Part 15). Vendor must comply with Section 103 and 107 of the Contract Work Hours and Safety Standards Act (40 USC 327-330) and Department of Labor Regulations (29 CFR, Part 5).

    B. The City of Dubuque in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d-2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all vendors that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, sex, age, or disability in consideration for an award.

THE CITY AGREES:

14. Upon the completion of the Contract, and the acceptance of the Project by the City Council, and subject to the requirements of law, the City agrees to pay the Vendor as full compensation for the complete performance of this Contract, the amount determined for

the total work completed at the price(s) stated in the Vendor's RFP Proposal Fee Form and less any Agreed Cost of Delay provided for in the Contract Documents.

CONTRACT AMOUNT $ _____

CITY OF DUBUQUE, IOWA:

_____
Department

By:_____
Signature

_____
Printed Name

_____
Title

_____
Date

VENDOR:

_____
Vendor

By:_____
Signature

_____
Printed Name

_____
Title

_____
Date

==== END OF SECTION 00500 ====

PERFORMANCE AND MAINTENANCE BOND

SECTION 00600

KNOW ALL BY THESE PRESENTS:

That we,_____, as Principal (hereinafter the "Vendor" or "Principal") and_____ _____, as Surety are held and firmly bound unto the City of Dubuque, Iowa, as Obligee (hereinafter referred to as "Owner"), and to all persons who may be injured by any breach of any of the conditions of this Bond in the penal sum of _____ dollars ($_____), lawful money of the United States, for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, legal representatives and assigns, jointly or severally, firmly by these presents.

The conditions of the above obligations are such that whereas said Vendor entered into a contract with the Owner, bearing date the _____ day of _____, 2024, (hereinafter the "Contract") wherein said Vendor undertakes and agrees to construct the following project in accordance with the Contract Documents, and to faithfully perform all the terms and requirements of said Contract within the time therein specified, in a good and workmanlike manner, and in accordance with the Contract Documents. The Contract Documents for Parking Access & Revenue Control System (PARCS) Equipment Procurement Project detail the following described improvements:

Parking Access & Revenue Control System (PARCS) Equipment Procurement

The City of Dubuque is soliciting competitive sealed proposals from qualified vendors to update parking access and revenue control system (PARCS) equipment at six (6) of its downtown free-standing parking garages ("ramps") and optional pricing for one parking lot. The City is requesting proposals from qualified vendor(s) for an integrated and automated gated PARCS consistent across all six parking ramps. The end solution(s) must fully integrate with third party mobile parking payment applications.

The six downtown parking ramps are as follows (listed in alphabetical order):

- Central Avenue Ramp (515 spaces): 975 Central Avenue
- Five Flags Ramp (333 spaces): 100 West 4th Street
- Intermodal Ramp (317 spaces): 351 East 9th Street
- Iowa Ramp (622 spaces): 701 Iowa Street
- Locust Street Ramp (444 spaces): 830 Bluff Street
- 5th Street Ramp (675 spaces): 501 Iowa Street

The one optional parking lot is:

- Port of Dubuque North Lot: 301 East 5th Street

It is expressly understood and agreed by the Vendor and Surety in this Bond that the following provisions are a part of this Bond and are binding upon said Vendor and Surety, to-wit:

1. PERFORMANCE: The Vendor shall well and faithfully observe, perform, fulfill, and abide by each and every covenant, condition, and part of said Contract and Contract Documents, by reference made a part hereof, for the project, and shall indemnify and save harmless the Owner from all outlay and expense incurred by the Owner by reason of the Vendor's default of failure to perform as required. The Vendor shall also be responsible for the default or failure to perform as required under the Contract and Contract Documents by all its subcontractors, suppliers, agents, or employees furnishing materials or providing labor in the performance of the Contract.

2. MAINTENANCE: The Vendor and the Surety on this Bond hereby agree, at their own expense:

   A. To remedy any and all defects that may develop in or result from work to be performed under the Contract Documents within the period of two (2) year(s) from the date of acceptance of the work under the Contract, by reason of defects in workmanship, equipment installed, or materials used in construction of said work;

   B. To keep all work in continuous good repair; and

   C. To pay the Owner's reasonable costs of monitoring and inspection to assure that any defects are remedied, and to repay the Owner all outlay and expense incurred as a result of Vendor's and Surety's failure to remedy any defect as required by this section.

   Vendor's and Surety's Contract herein made extends to defects in workmanship or materials not discovered or known to the Owner at the time such work was accepted.

4. GENERAL: Every Surety on this Bond shall be deemed and held bound, any contract to the contrary notwithstanding, to the following provisions:

   A. To consent without notice to any extension of time authorized in approved change orders to the Vendor in which to perform the Contract;

   B. To consent without notice to any change in the Contract or Contract Documents, authorized in approved change orders which thereby increases the total contract price and the penal sum of this Bond, provided that all such changes do not, in the aggregate, involve an increase of more than twenty percent (20%) of the total contract price, and that this Bond shall then be released as to such excess increase;

   C. To consent without notice that this Bond shall remain in full force and effect until the Contract is completed, whether completed within the specified contract period, within an extension thereof, or within a period of time after the contract period has elapsed and the liquidated damage penalty is being charged against the Vendor.

The Vendor and every Surety on the Bond shall be deemed and held bound, any contract to the contrary notwithstanding, to the following provisions:

D. That no provision of this Bond or of any other contract shall be valid that limits to less than five (5) years after the acceptance of the work under the Contract the right to sue on this Bond.

E. That as used herein, the phrase “all outlay and expense” is not to be limited in any way, but shall include the actual and reasonable costs and expenses incurred by the Owner including interest, benefits, and overhead where applicable. Accordingly, “all outlay and expense” would include but not be limited to all contract or employee expense, all equipment usage or rental, materials, testing, outside experts, attorney’s fees (including overhead expenses of the Owner’s staff attorneys), and all costs and expenses of litigation as they are incurred by the Owner. It is intended the Vendor and Surety will defend and indemnify the Owner on all claims made against the Owner on account of Vendor’s failure to perform as required in the Contract and Contract Documents, that all agreements and promises set forth in the Contract and Contract Documents, in approved change orders, and in this Bond will be fulfilled, and that the Owner will be fully indemnified so that it will be put into the position it would have been in had the Contract been performed in the first instance as required.

In the event the Owner incurs any “outlay and expense” in defending itself against any claim as to which the Vendor or Surety should have provided the defense, or in the enforcement of the promises given by the Vendor in the Contract, Contract Documents, or approved change orders, or in the enforcement of the promises given by the Vendor and Surety in this Bond, the Vendor and Surety agree that they will make the Owner whole for all such outlay and expense, provided that the Surety’s obligation under this Bond shall not exceed one hundred twenty-five percent (125%) of the penal sum of this Bond.

In the event that any actions or proceedings are initiated regarding this Bond, the parties agree that the venue thereof shall be Dubuque County, State of Iowa. If legal action is required by the Owner to enforce the provisions of this Bond or to collect the monetary obligation incurring to the benefit of the Owner, the Vendor and the Surety agree, jointly, and severally, to pay the Owner all outlay and expense incurred therefor by the Owner. All rights, powers, and remedies of the Owner hereunder shall be cumulative and not alternative and shall be in addition to all rights, powers, and remedies given to the Owner, by law. The Owner may proceed against surety for any amount guaranteed hereunder whether action is brought against the Vendor or whether Vendor is joined in any such action(s) or not.

NOW THEREFORE, the condition of this obligation is such that if said Principal shall faithfully perform all the promises of the Principal, as set forth and provided in the Contract, in the Contract Documents, and in this Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect.

When a work, term, or phrase is used in this Bond, it shall be interpreted or construed first as defined in this Bond, the Contract, or the Contract Documents; second, if not defined in the Bond, Contract, or Contract Documents, it shall be interpreted or construed as defined in applicable provisions of the Iowa Code; third, if not defined in the Iowa Code, it shall be interpreted or construed according to its generally accepted meaning in the construction industry; and fourth, if it

has no generally accepted meaning in the construction industry, it shall be interpreted or construed according to its common or customary usage.

Failure to specify or particularize shall not exclude terms or provisions not mentioned and shall not limit liability hereunder. The Contract and Contract Documents are hereby made a part of this Bond.

Project No. _____

Witness our hands, in triplicate, this _____ day of _____, 2024.

SURETY COUNTERSIGNED BY:

_____
Signature of Agent

_____
Printed Name of Agent

_____
Company Address

_____
City, State, Zip Code

_____
Company Telephone Number

PRINCIPAL:

_____
Vendor

By: _____
Signature

_____
Printed Name

_____
Title

FORM APPROVED BY:

_____
Representative for Owner

SURETY:

_____
Surety Company

By:_____
Signature Attorney-in-Fact Officer

_____
Printed Name of Attorney-in-Fact Officer

_____
Company Name

_____
Company Address

_____
City, State, Zip Code

_____
Company Telephone Number

NOTE:

1. All signatures on this performance, payment, and maintenance Bond must be original signatures in ink; copies, facsimile, or electronic signatures will not be accepted.
2. This Bond must be sealed with the Surety's raised, embossing seal.
3. The name and signature of the Surety's Attorney-in-Fact/Officer entered on this Bond must be exactly as listed on the Certificate or Power of Attorney accompanying this Bond.

==== END OF SECTION 00600 ====

City of Dubuque Insurance Requirements for General, Artisan or Trade Vendors, Subcontractors or Sub Subcontractors

Insurance Schedule F

Class A:

Asbestos Removal
Asphalt Paving
Concrete
Construction Managers
Cranes
Culverts
Decking
Demolition
Deconstruction
Earthwork
Electrical
Elevators
Fiber Optics
Fire Protection
Fireproofing
General Contractors
HVAC
Mechanical
Paving & Surfacing
Parking Gate Equipment
Piles & Caissons
Plumbing
Retaining Walls
Reinforcement
Roofing
Sanitary Sewers
Sheet Metal
Site Utilities
Shoring
Special Construction
Steel
Storm Sewers
Structural Steel
Trails
Tunneling
Water Main

Class B:

Chemical Spraying
Doors, Window & Glazing
Drywall Systems
Fertilizer Application
Geotech Boring
Insulation
Finish Carpentry
Landscaping
Masonry
Vehicular Snow Removal
Painting & Wall Covering
Pest Control
Scaffolding
Sidewalks
Plastering
Rough Carpentry
Stump Grinding
Tank Coating
Tree Removal
Tree Trimming
Tuckpointing
Waterproofing
Well Drilling

Class C:

Carpet Cleaning
Carpet & Resilient Flooring
Caulking & Sealants
Acoustical Ceiling
Filter Cleaning
General Cleaning
Grass Cutting
Janitorial
Non Vehicular Snow & Ice Removal
Office Furnishings
Power Washing
Tile & Terrazzo Flooring
Window Washing

INSTRUCTIONS FOR INSURANCE SUBMITTAL:

EXHIBIT I

A) COMMERCIAL GENERAL LIABILITY

General Aggregate Limit	$2,000,000
Products-Completed Operations Aggregate Limit	$2,000,000
Personal and Advertising Injury Limit	$1,000,000
Each Occurrence	$1,000,000
Fire Damage Limit (any one occurrence)	$50,000
Medical Payments	$5,000

1) Coverage shall be written on an occurrence, not claims made, form. The general liability coverage shall be written in accord with ISO form CG 00 01 or business owners form BP 00 02. All deviations from the standard ISO commercial general liability form CG 00 01 or business owners form BP 00 02 shall be clearly identified.
2) Include ISO endorsement form CG 25 04 "Designated Location(s) General Aggregate Limit" or CG 25 03 "Designated Construction Project(s) General Aggregate Limit" as appropriate.
3) Include endorsement indicating that coverage is primary and non-contributory.
4) Include Preservation of Governmental Immunities Endorsement. (Sample attached).
5) Include additional insured endorsement for:
   The City of Dubuque, including all its elected and appointed officials, all its employees and volunteers, all its boards, commissions and/or authorities and their board members, employees and volunteers. Use ISO form CG 20 10 (Ongoing operations).
6) The additional insured endorsement shall include completed operations under ISO form CG 20 37 during the project term and for a period of two years after the completion of the project.
7) Policy shall include Waiver of Right to Recover from Others endorsement.
8) Policy shall include cancellation and material change endorsement providing thirty (30) days advance written notice of cancellation, non-renewal, reduction in insurance coverage and/or limits and ten (10) days written notice of non-payment of premium shall be sent to: City of Dubuque Finance Department, 50 West 13th Street Dubuque, Iowa 520019) Contractor and subcontractor shall not use any drone without the prior written approval of the city of Dubuque. Any drone usage must comply with above liability limits and the additional insured endorsement must name the City of Dubuque with respect to aircraft liability coverage.

B) WORKERS' COMPENSATION & EMPLOYERS LIABILITY

Statutory Benefits covering all employees injured on the job by accident or disease as prescribed by Iowa Code Chapter 85.

Coverage A	Statutory—State of Iowa	
Coverage B	Employers Liability	
	Each Accident	$100,000
	Each Employee-Disease	$100,000
	Policy Limit-Disease	$500,000

Policy shall include Waiver of Right to Recover from Others endorsement.

Coverage B limits shall be greater if required by the umbrella/excess insurer.

OR

If, by Iowa Code Section 85.1A, the Contractor is not required to purchase Workers' Compensation Insurance, the Contractor shall have a copy of the State's Nonelection of Workers' Compensation or Employers' Liability Coverage form on file with the Iowa

Workers' Compensation Insurance Commissioner, as required by Iowa Code Section 87.22. Completed form must be attached.

C) AUTOMOBILE LIABILITY

Combined Single Limit $1,000,000

Coverage shall include all owned, non-owned, and hired vehicles. If the Contractor's business does not own any vehicles, coverage is required on non-owned and hired vehicles.

1) Policy shall include Waiver of Right to Recover from Others endorsement.

D) UMBRELLA/EXCESS LIABILITY

The General Liability, Automobile Liability and Workers Compensation Insurance requirements may be satisfied with a combination of primary and Umbrella or Excess Liability Insurance. If the Umbrella or Excess Insurance policy does not follow the form of the primary policies, it shall include the same endorsements as required of the primary policies including but not limited to Waiver of Subrogation and Primary and Non-contributory in favor of the City.

All Class A contractors with contract values in excess of $10,000,000 must have umbrella/excess liability coverage of $10,000,000.

All Class A and Class B contractors with contract values between $500,000 and $10,000,000 must have umbrella/excess liability coverage of $3,000,000.

All Class A and B contractors with contract values less than $500,000 must have umbrella/excess liability coverage of $1,000,000.

All Class C contractors are not required to have umbrella/excess liability coverage.

All contractors performing earth work must have a minimum of $3,000,000 umbrella regardless of the contract value.

E) POLLUTION LIABILITY

Coverage required: ___ Yes  ___ No

Pollution liability coverage shall be required if project involves any pollution exposure for hazardous or contaminated materials including, but not limited to, the removal of lead, asbestos, or PCB's. Pollution product and complete operations coverage shall also be covered.

Coverage B limits shall be greater if required by the umbrella/excess insurer.

OR

If, by Iowa Code Section 85.1A, the Contractor is not required to purchase Workers' Compensation Insurance, the Contractor shall have a copy of the State's Nonelection of Workers' Compensation or Employers' Liability Coverage form on file with the Iowa

Workers' Compensation Insurance Commissioner, as required by Iowa Code Section 87.22. Completed form must be attached.

F) AUTOMOBILE LIABILITY

Combined Single Limit $1,000,000

Coverage shall include all owned, non-owned, and hired vehicles. If the Contractor's business does not own any vehicles, coverage is required on non-owned and hired vehicles.

1) Policy shall include Waiver of Right to Recover from Others endorsement.

G) UMBRELLA/EXCESS LIABILITY

The General Liability, Automobile Liability and Workers Compensation Insurance requirements may be satisfied with a combination of primary and Umbrella or Excess Liability Insurance. If the Umbrella or Excess Insurance policy does not follow the form of the primary policies, it shall include the same endorsements as required of the primary policies including but not limited to Waiver of Subrogation and Primary and Non-contributory in favor of the City.

All Class A contractors with contract values in excess of $10,000,000 must have umbrella/excess liability coverage of $10,000,000.

All Class A and Class B contractors with contract values between $500,000 and $10,000,000 must have umbrella/excess liability coverage of $3,000,000.

All Class A and B contractors with contract values less than $500,000 must have umbrella/excess liability coverage of $1,000,000.

All Class C contractors are not required to have umbrella/excess liability coverage.

All contractors performing earth work must have a minimum of $3,000,000 umbrella regardless of the contract value.

H) POLLUTION LIABILITY

Coverage required: ___ Yes  No

Pollution liability coverage shall be required if project involves any pollution exposure for hazardous or contaminated materials including, but not limited to, the removal of lead, asbestos, or PCB's. Pollution product and complete operations coverage shall also be covered.

Each Occurrence	$2,000,000
Policy Aggregate	$4,000,000

1) Policy to include job site and transportation coverage.
2) Include additional insured for:
   The City of Dubuque, including all its elected and appointed officials, all its employees and volunteers, all its boards, commissions and/or authorities and their board members, employees and volunteers. Use ISO form CG 20 10. (Ongoing operations) or its equivalent and CG 20 37 (completed operations) or its equivalent.
3) Include Preservation of Governmental Immunities Endorsement.
4) Provide evidence of coverage for 5 years after completion of project.
5) **Include endorsement indicating that coverage is primary and non- contributory.**
6) **Policy shall include waiver of right to recovery from others endorsement.**
7) **Pollution liability shall include ISP endorsement CA 99 48. Pollution Liability-Broadened Coverage for Covered Autos, or equivalent endorsement if the contractor has vehicles that transport fuel onto the Owner's property.**

I) RAILROAD PROTECTIVE LIABILITY

Coverage required: ___ Yes  No

Any contract for construction or demolition work on or within fifty feet (50') from the edge of the tracks of a railroad and affecting any railroad bridge, trestle, tracks, roadbeds, tunnel, underpass, or crossing, for which an easement, license or indemnification of the railroad is required, shall require evidence of the following additional coverages.

Railroad Protective Liability:

$_____ each occurrence (per limits required by Railroad)

$_____ policy aggregate (per limits required by Railroad)

OR

An endorsement to the Commercial General Liability policy equal to ISO CG 24 17 (Contractual Liability-Railroads). A copy of this endorsement shall be attached to the certificate of insurance.

Please be aware that naming the City of Dubuque as an additional insured as is required by this Insurance Schedule may result in the waiver of the City's governmental immunities provided in Iowa Code sec. 670.4. If you would like to preserve those immunities, please use this endorsement or an equivalent form.

PRESERVATION OF GOVERNMENTAL IMMUNITIES ENDORSEMENT

1. Nonwaiver of Governmental Immunity. The insurer expressly agrees and states that the purchase of this policy and the including of the City of Dubuque, Iowa as an Additional Insured does not waive any of the defenses of governmental immunity available to the City of Dubuque, Iowa under Code of Iowa Section 670.4 as it is now exists and as it may be amended from time to time.

2. Claims Coverage. The insurer further agrees that this policy of insurance shall cover only those claims not subject to the defense of governmental immunity under the Code of Iowa Section 670.4 as it now exists and as it may be amended from time to time. Those claims not subject to Code of Iowa Section 670.4 shall be covered by the terms and conditions of this insurance policy.

3. Assertion of Government Immunity. The City of Dubuque, Iowa shall be responsible for asserting any defense of governmental immunity, and may do so at any time and shall do so upon the timely written request of the insurer.

4. Non-Denial of Coverage. The insurer shall not deny coverage under this policy and the insurer shall not deny any of the rights and benefits accruing to the City of Dubuque, Iowa under this policy for reasons of governmental immunity unless and until a court of competent jurisdiction has ruled in favor of the defense(s) of governmental immunity asserted by the City of Dubuque, Iowa.

No Other Change in Policy. The above preservation of governmental immunities shall not otherwise change or alter the coverage available under the policy.

SPECIMEN

Schedule F, General, Artisan or Trade Contractors, Subcontractors or Sub Subcontractors January 2023

==== END OF SECTION 00700 ====

SALES AND USE TAX EXEMPTION CERTIFICATE

SECTION 00750

The City of Dubuque, as a designated exempt entity awarding equipment contracts, will issue special exemption certificates to Vendors and subcontractors, allowing them to purchase, or withdraw from inventory, materials for the Contract free from sales tax pursuant to Iowa Code Sections: 422.42 (15) & (16), and 422.47 (5). The special exemption certificate will also allow a manufacturer of building materials and equipment to consume materials in the performance of a project without owing tax on the fabricated cost of those materials or equipment.

1. These tax exemption certificates and authorization letters are applicable only for the work under the contract. The Vendor and each subcontractor shall comply with said Iowa Code Sales Tax requirements, shall keep records identifying the equipment, materials and supplies purchased and verify that they were used on the contract, and shall pay tax on any materials purchased tax-free and not used on the contract.

2. Upon award of Contract the City will register the Contract, Vendor, and each subcontractor with the Iowa Department of Revenue and Finance; and distribute tax exemption certificates and authorization letters to the Vendor and each subcontractor.

PROJECT INFORMATION REQUIREMENTS FOR STATE OF IOWA SALES TAX EXEMPTION CERTIFICATES FOR VENDORS & SUBCONTRACTORS

Submitting Department: Engineering

Department Contact: Steve Sampson Brown

Project CIP Number(s): 360-2936_

Please complete this form in its entirety and submit along with the executed Contract, Bonds and Certificate of Insurance. Upon receipt, the City Finance Department will work with the Iowa Department of Revenue to issue Sales Tax Exemption Certificates to the approved Vendor(s) to allow for the purchase or inventory withdrawal of materials for the specified Project free from State of Iowa Sales Tax.

Sales tax exemption certificates are not provided to material suppliers.

The Vendor and subcontractors can provide copies of the sales tax exemption certificates issued by the City to individual material suppliers.

Project Name:	Parking Access & Revenue Control System (PARCS) Equipment Procurement
Project Description:	Replace PARCS at 6 ramps and 1 surface lot.
Start Date:	April 22, 2024
Final Completion Date:	February 29, 2025

1. **General Prime Vendor:**	
Contact Name:	
Complete Address: (Include PO Box and Street Information)	
City, State, Zip Code	
Telephone Number:	
Federal I.D. Number: (or Include Social Security Number)	
Work Type to be Completed:	

2.	**Subcontractor:**	
	Complete Address: (Include PO Box and Street Information)	
	City, State, Zip Code	
	Telephone Number:	
	Federal I.D. Number: (or Include Social Security Number)	
	Work Type to be Completed:	

3.	**Subcontractor:**	
	Complete Address: (Include PO Box and Street Information)	
	City, State, Zip Code	
	Telephone Number:	
	Federal I.D. Number: (or Include Social Security Number)	
	Work Type to be Completed:	

4.	**Subcontractor:**	
	Complete Address: (Include PO Box and Street Information)	
	City, State, Zip Code	
	Telephone Number:	
	Federal I.D. Number: (or Include Social Security Number)	
	Work Type to be Completed:	

5.	**Subcontractor:**	
	Complete Address: (Include PO Box and Street Information)	
	City, State, Zip Code	
	Telephone Number:	
	Federal I.D. Number: (or Include Social Security Number)	
	Work Type to be Completed:	

6.	**Subcontractor:**	
	Complete Address: (Include PO Box and Street Information)	
	City, State, Zip Code	
	Telephone Number:	
	Federal I.D. Number: (or Include Social Security Number)	
	Work Type to be Completed:	

7.	**Subcontractor:**	
	Complete Address: (Include PO Box and Street Information)	
	City, State, Zip Code	
	Telephone Number:	
	Federal I.D. Number: (or Include Social Security Number)	
	Work Type to be Completed:	

8.	**Subcontractor:**	
	Complete Address: (Include PO Box and Street Information)	
	City, State, Zip Code	
	Telephone Number:	
	Federal I.D. Number: (or Include Social Security Number)	
	Work Type to be Completed:	

9.	**Subcontractor:**	
	Complete Address: (Include PO Box and Street Information)	
	City, State, Zip Code	
	Telephone Number:	
	Federal I.D. Number: (or Include Social Security Number)	
	Work Type to be Completed:	

10.	**Subcontractor:**	
	Complete Address: (Include PO Box and Street Information)	
	City, State, Zip Code	
	Telephone Number:	
	Federal I.D. Number: (or Include Social Security Number)	
	Work Type to be Completed:	

11.	**Subcontractor:**	
	Complete Address: (Include PO Box and Street Information)	
	City, State, Zip Code	
	Telephone Number:	
	Federal I.D. Number: (or Include Social Security Number)	
	Work Type to be Completed:	

12.	**Subcontractor:**	
	Complete Address: (Include PO Box and Street Information)	
	City, State, Zip Code	
	Telephone Number:	
	Federal I.D. Number: (or Include Social Security Number)	
	Work Type to be Completed:	

13.	**Subcontractor:**	
	Complete Address: (Include PO Box and Street Information)	
	City, State, Zip Code	
	Telephone Number:	
	Federal I.D. Number: (or Include Social Security Number)	
	Work Type to be Completed:	

==== END OF SECTION 00750 ====

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CONSTRUCTION SCHEDULE AND AGREED COSTS OF DELAY

SECTION 00800

800.1 SCHEDULE:

CALENDAR DAY SCHEDULE:
Work required by the Contract Documents shall commence within ten (10) calendar days after Notice to Proceed has been issued and shall be Substantially Complete by October 1, 2024 and Finally Complete by November 1, 2024.

800.2 AGREED COSTS OF DELAY:

Time is of the essence of the Contract. As delay in the diligent prosecution of the work may inconvenience the public, obstruct traffic, interfere with business, and/or increase costs to the City such as engineering, administration, and inspection, it is important that the work be prosecuted vigorously to final completion.

An extension of the contract period may be granted by the City for any of the following reasons:

1. Additional work resulting from a modification of the Contract Documents by approved change order.

2. Delays caused by the City.

3. Other reasons beyond the control of the Vendor, which in the City's opinion, would justify such.

Should the Vendor, or in case of default the Surety, fail to complete the work within the specified Substantial and Final Completion Dates, a deduction at the daily rate for agreed costs of delay will be made for each and every calendar day or working day, whichever is specified, such that the work remains uncompleted. The Vendor or the Vendor's Surety shall be responsible for all costs incidental to the completion of the work, and shall be required to pay the City the following daily costs:

A. For each calendar day that any work remains uncompleted beyond the Substantial Completion date the Vendor will be assessed and shall pay, $700.00 per calendar day, not as a penalty but as predetermined and Agreed Cost of Delay until Substantial Completion requirements are met.

B. For each calendar day that any work remains uncompleted beyond the Final Completion date the Vendor will be assessed and shall pay, $500.00 per calendar, not as a penalty but as predetermined and Agreed Cost of Delay until Final Completion requirements are met.

Permitting the Vendor to continue and finish the Work, or any part of it, after the expiration of the Substantial and Final Completion dates or Milestone Dates or extension thereof shall in no way operate as a waiver on the part of the City of any of its rights or remedies under the contract, including its right to Agreed Cost of Delay pursuant to this provision. Furthermore, the assessment of Agreed Cost of Delay shall not constitute a waiver of the City's right to collect any additional damages which the City may sustain by failure of the Vendor to carry out the terms of the Contract.

The Agreed Cost of Delay rates specified in the Contract Documents is hereby agreed upon as the true and actual damages due the City for loss to the City and to the public due to obstruction of traffic, interference with business, and/or increased costs to the City such as engineering, administration, construction, and inspection after the expiration of the contract times, or extension thereof. Such Agreed Cost of Delay will be separately invoiced to the Vendor, and final payment will be withheld from the Vendor until payment has been made of this invoice for the agreed cost of delay. The Vendor and its surety shall be liable for any agreed cost of delay in excess of the amount due the Vendor.

==== END OF SECTION 00800 ====

City of Dubuque
Engineering Department
50. W. 13th Street
Dubuque, IA 52001
(563) 589-4270

NOTICE TO PROCEED

SECTION 00850

TO: VENDOR NAME
ADDRESS
CITY, STATE ZIP

ISSUE DATE: _____

COMMENCEMENT DATE: _____
(INSERT DATE = 10 DAYS FROM ISSUING NOTICE TO PROCEED)

PROJECT: Parking Access & Revenue Control System (PARCS)
Equipment Procurement Project

Dear _____:

You are hereby notified to commence the work on the Project, on or before the commencement date, in accordance with the Contract Documents. The Contract Time shall begin to run on the commencement date.

You are required to return an acknowledged copy of this Notice to Proceed to the City.

THE CITY HAS RECEIVED A COPY
OF THE CONTRACTOR'S WRITTEN
SAFETY PROGRAM

☐ YES

CITY OF DUBUQUE, IOWA

By: _____
(Signature)

_____
(Name)

_____
(Title)

ACCEPTANCE OF NOTICE

Receipt of the above Notice to Proceed is hereby acknowledged this ____day of _____, 2024.

PRINCIPAL:

_____
(Vendor)

By: _____
(Signature)

_____
(Name)

_____
(Title)

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PARCS PRICE PROPSAL FORM

SECTION 01100

01100.1 SCHEDULES OF VALUES:

City of Dubuque Iowa Parking Access and Revenue Control System Price Proposal Form		
SUMMARY		
PARCS HARDWARE		
Lane Equipment Locust	$	-
Lane Equipment Iowa	$	-
Lane Equipment 5th	$	-
Lane Equipment Five Flags	$	-
Lane Equipment Central	$	-
Lane Equipment Intermodal	$	-
Head-End Systems	$	-
Spare Parts	$	-
PARCS HARDWARE SUBTOTAL	**$**	**-**
SOFTWARE, INTERFACES AND INTEGRATIONS		
Software	$	-
Integrations and Interfaces	$	-
PARCS SOFTWARE, INTERFACES AND INTEGRATIONS SUBTOTAL	**$**	**-**
CONSUMABLES AND SERVICES		
Consumables (Tickets, Receipts, etc.)	$	-
Services (Design, Installation, Project Management, etc.)	$	-
CONSUMABLES AND SERVCES SUBTOTAL	**$**	**-**
PROJECT TOTAL	**$**	**-**

RECURRING FEES	
Post-Warranty Maintenance - Year 1	$ -
Post-Warranty Maintenance - Year 2	$ -
Post-Warranty Maintenance - Year 3	$ -
Post-Warranty Maintenance - Year 4	$ -
Post-Warranty Maintenance - Year 5	$ -

City of Dubuque Iowa
Parking Access and Revenue Control System

Price Proposal Form

Post-Warranty Maintenance - Year 6	$ -
Post-Warranty Maintenance - Year 7	$ -
Post-Warranty Maintenance - Year 8	$ -
Recurring Fees	$ -

City of Dubuque Iowa
Parking Access and Revenue Control System
Price Proposal Form
Locust Street

Item	Cost			Comments
Parking Access and Revenue Control System	**Quantity**	**Unit Cost**	**Extension**	*Quantities as required for complete system.*
Entry Station	2	$ -	$ -	
Exit Station	2	$ -	$ -	
Barrier Gate	4	$ -	$ -	
LPR Cameras	4	$ -	$ -	
Coin & Credit POF Station	1	$ -	$ -	
VMS	2	$ -	$ -	
[additional items]		$ -	$ -	
		$ -	$ -	
		$ -	$ -	
Lane Equipment Subtotal:			**$ -**	

City of Dubuque Iowa
Parking Access and Revenue Control System
Price Proposal Form
5th Street

Item	Cost			Comments
Parking Access and Revenue Control System	**Quantity**	**Unit Cost**	**Extension**	*Quantities as required for complete system.*
Entry Station	2	$ -	$ -	
Exit Station	3	$ -	$ -	
Barrier Gate	5	$ -	$ -	
LPR Cameras	5	$ -	$ -	
Coin & Credit POF Station	1	$ -	$ -	
VMS	2	$ -	$ -	
[additional items]		$ -	$ -	
		$ -	$ -	
		$ -	$ -	
Lane Equipment Subtotal:			**$ -**	

City of Dubuque Iowa Parking Access and Revenue Control System Price Proposal Form Iowa Street				
Item	**Cost**			**Comments**
Parking Access and Revenue Control System	**Quantity**	**Unit Cost**	**Extension**	*Quantities as required for complete system.*
Entry Station	2	$ -	$ -	
Exit Station	3	$ -	$ -	
Barrier Gate	5	$ -	$ -	
LPR Cameras	5	$ -	$ -	
Coin & Credit POF Station	2	$ -	$ -	
VMS	2	$ -	$ -	
[additional items]		$ -	$ -	
		$ -	$ -	
		$ -	$ -	
Lane Equipment Subtotal:			**$ -**	

City of Dubuque Iowa Parking Access and Revenue Control System Price Proposal Form Five Flags				
Item	**Cost**			**Comments**
Parking Access and Revenue Control System	**Quantity**	**Unit Cost**	**Extension**	*Quantities as required for complete system.*
Entry Station	2	$ -	$ -	
Exit Station	2	$ -	$ -	
Barrier Gate	4	$ -	$ -	
LPR Cameras	4	$ -	$ -	
Coin & Credit POF Station	2	$ -	$ -	
VMS	2	$ -	$ -	
[additional items]		$ -	$ -	
		$ -	$ -	
		$ -	$ -	
Lane Equipment Subtotal:			**$ -**	

City of Dubuque Iowa Parking Access and Revenue Control System Price Proposal Form Central Avenue				
Item	**Cost**			**Comments**
Parking Access and Revenue Control System	**Quantity**	**Unit Cost**	**Extension**	*Quantities as required for complete system.*
Entry Station	2	$ -	$ -	
Exit Station	2	$ -	$ -	
Barrier Gate	4	$ -	$ -	
LPR Cameras	4	$ -	$ -	
Coin & Credit POF Station	1	$ -	$ -	
VMS	2	$ -	$ -	
[additional items]		$ -	$ -	
		$ -	$ -	
		$ -	$ -	
Lane Equipment Subtotal:			**$ -**	

City of Dubuque Iowa Parking Access and Revenue Control System Price Proposal Form				
Intermodal				
Item	**Cost**			**Comments**
Parking Access and Revenue Control System	**Quantity**	**Unit Cost**	**Extension**	*Quantities as required for complete system.*
Entry Station	2	$ -	$ -	
Exit Station	2	$ -	$ -	
Barrier Gate	4	$ -	$ -	
LPR Cameras	4	$ -	$ -	
Coin & Credit POF Station	4	$ -	$ -	
VMS	2	$ -	$ -	
[additional items]		$ -	$ -	
		$ -	$ -	
		$ -	$ -	
Lane Equipment Subtotal:			**$ -**	

City of Dubuque Iowa Parking Access and Revenue Control System Price Proposal Form				
SOFTWARE, INTEGRATIONS, AND INTERFACES				
Item	**Cost**			**Comments**
Software	**Quantity**	**Unit Cost**	**Extension**	*Quantities as required for complete system*
PARCS Software	1	$ -	$ -	
[additional items]	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
Software Subtotal:			**$ -**	
Integrations and Interfaces	**Quantity**	**Unit Cost**	**Extension**	
	0	$ -	$ -	
[additional items]	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
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	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
Integrations and Interfaces Subtotal:			**$ -**	

City of Dubuque Iowa Parking Access and Revenue Control System Price Proposal Form				
HEAD END SYSTEMS AND SPARE PARTS HARDWARE				
Item	**Cost**			**Comments**
Head-End Systems	**Quantity**	**Unit Cost**	**Extension**	*Quantities as required for complete system*
PARCS Application Server	1	$ -	$ -	
VoIP Intercom Server	1	$ -	$ -	
Intercom Master Station	1	$ -	$ -	
		$ -	$ -	
[additional items]	0	$ -	$ -	
	0	$ -	$ -	
Head-End Systems Subtotal:			**$ -**	
Spare Parts	**Quantity**	**Unit Cost**	**Extension**	
1	0	$ -	$ -	
2	0	$ -	$ -	
3	0	$ -	$ -	
4	0	$ -	$ -	
5	0	$ -	$ -	
6	0	$ -	$ -	
7	0	$ -	$ -	
8	0	$ -	$ -	
9	0	$ -	$ -	
10	0	$ -	$ -	
11	0	$ -	$ -	
12	0	$ -	$ -	
13	0	$ -	$ -	
14	0	$ -	$ -	
15	0	$ -	$ -	
16	0	$ -	$ -	
17	0	$ -	$ -	
18	0	$ -	$ -	
19	0	$ -	$ -	
20	0	$ -	$ -	
21	0	$ -	$ -	
22	0	$ -	$ -	
23	0	$ -	$ -	
24	0	$ -	$ -	
25	0	$ -	$ -	
26	0	$ -	$ -	
27	0	$ -	$ -	
28	0	$ -	$ -	
29	0	$ -	$ -	
30	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
Spare Parts Subtotal:			**$ -**	

City of Dubuque Iowa
Parking Access and Revenue Control System
Price Proposal Form

WARRANTY/POST-WARRANTY MAINTENANCE

Service Position	Cost	Comments
WARRANTY HOURLY SERVICE RATES	**Hourly Service Rate**	*For non-warranty service*
Hardware Technician	$ -	
Network Engineer	$ -	
Server Engineer	$ -	
Software Engineer	$ -	
Database Engineer	$ -	
[additional items]	$ -	
POST-WARRANTY MAINTENANCE HOURLY SERVICE RATES	**Hourly Service Rate**	
Hardware Technician	$ -	
Network Engineer	$ -	
Server Engineer	$ -	
Software Engineer	$ -	
Database Engineer	$ -	
[additional items]	$ -	
POST-WARRANTY MAINTENANCE (YEARS 3-10)	**Annual Cost**	
Year 1	$ -	
Year 2	$ -	
Year 3	$ -	
Year 4	$ -	
Year 5	$ -	
Year 6	$ -	
Year 7	$ -	
Year 8	$ -	

City of Dubuque Iowa
Parking Access and Revenue Control System
Price Proposal Form

ALTERNATE BID ITEMS

Item	Cost			Comments
Hardware	**Quantity**	**Unit Cost**	**Extension**	
	0	$ -	$ -	
[additional items]	0	$ -	$ -	
Software/Third Party Applications	**Quantity**	**Unit Cost**	**Extension**	
	0	$ -	$ -	
[additional items]	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	
	0	$ -	$ -	

City of Dubuque Iowa
Parking Access and Revenue Control System
Price Proposal Form

CONSUMABLES, SERVICES AND RECURRING FEES

Item	Cost			Comments
Consumables	**Quantity**	**Unit Cost**	**Extension**	
Tickets	100000	$ -	$ -	
Receipts	100000	$ -	$ -	
Proximity Cards	5000	$ -	$ -	
[additional items]	0	$ -	$ -	
Consumables Subtotal:			**$ -**	
Services	**Quantity**	**Unit Cost**	**Extension**	
Design Coordination	0	$ -	$ -	
Installation	0	$ -	$ -	
Project Management	0	$ -	$ -	
Mobilization	0	$ -	$ -	
Bonding	0	$ -	$ -	
Training	0	$ -	$ -	
Lane Acceptance Testing	0	$ -	$ -	
Final System Operational Testing -30 day	0	$ -	$ -	
Local Storage facility	0	$ -	$ -	
Freight	0	$ -	$ -	
Warranty	0	$ -	$ -	
Sub-Contractor-1 [Describe]	0	$ -	$ -	
Sub-Contractor-2 [Describe]	0	$ -	$ -	
Sub-Contractor-3 [Describe]	0	$ -	$ -	
[additional items]	0	$ -	$ -	
Services Subtotal:			**$ -**	

City of Dubuque Iowa Parking Access and Revenue Control System Price Proposal Form				
CONSUMABLES, SERVICES AND RECURRING FEES				
Item	**Cost**			**Comments**
Consumables	**Quantity**	**Unit Cost**	**Extension**	
Tickets	100000	$ -	$ -	
Receipts	100000	$ -	$ -	
Proximity Cards	5000	$ -	$ -	
[additional items]	0	$ -	$ -	
Consumables	***Subtotal:***		**$ -**	
Services	**Quantity**	**Unit Cost**	**Extension**	
Design Coordination	0	$ -	$ -	
Installation	0	$ -	$ -	
Project Management	0	$ -	$ -	
Mobilization	0	$ -	$ -	
Bonding	0	$ -	$ -	
Training	0	$ -	$ -	
Lane Acceptance Testing	0	$ -	$ -	
Final System Operational Testing -30 day	0	$ -	$ -	
Local Storage facility	0	$ -	$ -	
Freight	0	$ -	$ -	
Warranty	0	$ -	$ -	
Sub-Contractor-1 [Describe]	0	$ -	$ -	
Sub-Contractor-2 [Describe]	0	$ -	$ -	
Sub-Contractor-3 [Describe]	0	$ -	$ -	
[additional items]	0	$ -	$ -	
Services	***Subtotal:***		**$ -**	

==== END OF SECTION 01100 ====

SECTION 11 12 26.01 - PARKING ACCESS AND REVENUE CONTROL SYSTEM (PARCS) WITH LICENSE PLATE RECOGNITION (LPR)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

B. Instructions to Proposers

C. Price Form

D. Codes and Regulations:

1. Comply with all applicable Federal, State and local laws, ordinances, rules and regulations pertaining to the performance of the work specified herein and compliant with the Owner internal policies.
2. Obtain all permits, licenses and certificates, or any such approvals of plans or specifications as may be required by Federal, State and local laws, ordinances, rules and regulations.
3. Compliant with Owner's internal policies for the proper execution of the work specified herein.
4. Comply with Federal and State right-to-know laws if hazardous materials are used. The Materials and Safety Data Sheets (MSDS) shall be made available to all workers and Owner representatives. PARCS Vendor shall report immediately to the Owner any spillage or dumping of hazardous materials on Owner property. The PARCS Vendor shall also be responsible for the cleanup and any costs incurred for all such incidents.
5. Keep current copies of all licenses, registrations or permits required by applicable governing agencies on the job site while performing the contract work and provide copies to Owner as requested during the performance of this contract.
6. Payment Card Industry (PCI) compliance is required.
7. Comply with the requirements of the American with Disabilities Act (ADA) including the 2010 ADA Standards for Accessible Design and any state or local jurisdiction requirements for accessibility, communication and use by individuals with disabilities and compliant with any Owner internal policies. Contractor is responsible for determining which parts of the PARCS must be ADA compliant.
8. The following is a list of standards referenced in the contract documents. The latest revision in effect for each standard at the time of Notice-To-Proceed (NTP) shall be used in conjunction with the contract documents.

    a. ADA
    b. CFR
    c. ANSI X9.24, Financial Services Retail Key Management
    d. Federal Communications Commission emission limits
    e. FIPS 140-2
    f. International Electrotechnical Commission (IEC) 529
    g. ISO 9001

h. ISO/IEC 7816 parts 1 through 3
i. ISO/IEC 14443
j. ISO/IEC 18092 / ECMA-340, Near Field Communication Interface and Protocol-1
k. ISO/IEC 21481 / ECMA-352, Near Field Communication Interface and Protocol-2
l. NFPA 70
m. NFPA 130
n. National Electrical Code
o. Payment Card Industry Data Security Standard (PCI DSS)
p. Payment Card Industry Payment Application Data Security Standard (PA DSS)
q. Payment Card Industry Point to Point Encryption (PCI P2PE)
r. UL Standard 60950, “Information Technology Equipment – Safety”
s. UL 325

9. The PARCS Vendor shall identify and notify the Owner of any changes to the standards that are instituted between the time of NTP and PARCS implementation and certify that their software meets these requirements.

1.2 DEFINITIONS

A. List of abbreviations:

1.	ADA	Americans with Disabilities Act
2.	ANSI	American National Standards Institute
3.	API	Application Programming Interface
4.	APGS	Automated Parking Guidance System
5.	AVI	Automated Vehicle Identification
6.	BG	Barrier Gate
7.	BLE	Bluetooth Low Energy
8.	CBEMA	Computer and Business Equipment Manufactures’ Association
9.	CDMS	Central Data Management System
10.	CFR	Code of Federal Regulations
11.	CT	Cashier Terminal
12.	EMV	Europay, MasterCard, and Visa
13.	ENS	Entry Station
14.	EXS	Exit Station
15.	FACTA	Fair and Accurate Credit Transactions Act
16.	FAT	Factory Acceptance Test
17.	FDR	Final Design Review
18.	GPR	Ground Penetrating Radar
19.	GUI	Graphical User Interface
20.	HA	High Availably
21.	IP	Intrusion Protection
22.	IRW	Image Review Workstation
23.	ISO	International Organization for Standardization
24.	LAT	Lane Acceptance Test
25.	LED	Light Emitting Diode
26.	LPR	License Plate Recognition

27.	NEMA	National Electrical Manufacturers Association
28.	NEC	National Electrical Code
29.	NFC	Near Field Communication
30.	NTP	Notice to Proceed
31.	ODBC	Open Database Connectivity
32.	ODT	Operational Demonstration Test
33.	PA-DSS	Payment Application Data Security Standard
34.	PARCS	Parking Access and Revenue Control System
35.	PCI	Payment Card Industry
36.	PCI P2PE	PCI Council Certified Point to Point Encryption
37.	PCI DSS	Payment Card Industry Data Security Standard
38.	PIL	Pay in Lane
39.	PIN	Personal Identification Number
40.	POF	Pay on Foot
41.	PSCS	Parking Space Count System
42.	QA/QC	Quality Assurance/Quality Control
43.	SCS	Space Count System
44.	SDD	System Design Documents
45.	SDR	System Design Review
46.	SQL	Structured Query Language
47.	UL	Underwriters Laboratories, Inc.
48.	UPS	Uninterruptible Power Supply
49.	VM	Virtual Machine
50.	VMS	Variable Message Sign
51.	VoIP	Voice over IP (internet Protocol)

1.3 SUMMARY

A. Furnish and install an on-line, real-time Parking Access and Revenue Control System (PARCS) functioning in the manner described herein.

System Description

The new PARCS will include entry and exit lane plazas and pay-on-foot machines at each of the following parking garages, owned and operated by the City, as specified below:

Iowa Street Ramp, 701 Iowa Street

- 622 spaces
- Two (2) entry lanes, one at W. 8th Street and one at Iowa Street
- Two (2) exit lanes, one at Iowa Street and one at W. 6th Street
- All entry and exit lanes separated from one another.
- Two (2) Pay-On-Foot (POF) kiosks installed per the construction documents.
- Fixed LPR to be installed at all entry/exit lanes to facilitate frictionless entry/exit by contract/permitted and paid parkers.

Locust Street Ramp, 830 Bluff Street

- 444 spaces
- Two (2) entry lanes, one at Locust Street and one at Bluff Street
- 2 exit lanes, one at Locust Street and one at Bluff Street

- All entry and exit lanes separated from one another.
- One (1) POF kiosk will be installed per the construction documents.
- Fixed LPR to be installed at all entry/exit lanes to facilitate frictionless entry/exit by contract/permitted and paid parkers.
- VMS deployed as shown on the drawings.

5th Street Ramp, 501 Iowa Street

- 675 spaces
- Two (2) entry lanes, one at W. 5th Street and one at W. 6th Street
- Three (3) exit lanes, one at W. 5th Street and two at W. 6th Street
- All entry and exit lanes separated from one another.
- One (1) POF kiosk will be installed per the construction documents.
- Fixed LPR to be installed at all entry/exit lanes to facilitate frictionless entry/exit by contract/permitted and paid parkers.
- VMS deployed as shown on the drawings.

Intermodal Ramp, 351 East 9th Street

- 317 spaces
- 2 entry lanes, one at E. 9th Street and one at Washington Street
- 2 exit lanes, one at E. 9th Street and one at Washington Street
- All entry and exit lanes linked at joined entry/exit plazas.
- One (1) POF kiosk will be installed per the construction documents.
- Fixed LPR to be installed at all entry/exit lanes to facilitate frictionless entry/exit by contract/permitted parkers.
- VMS deployed as shown on the drawings.

Five Flags Ramp

- 333 spaces
- Two (2) entry lanes, one at W. 4th Street and Iowa Street at the northeast corner of the garage, and one on Main Street that enters to the fourth level.
- Two (2) exit lanes, one at W. 4th Street and Iowa Street at the northeast corner of the garage, and one that exits into the alley at the south side of the garage between the garage and the West 3rd Street bridge.
- All entry and exit lanes separated from one another.
- Two (2) POF kiosks will be installed per the construction documents.
- Fixed LPR to be installed at all entry/exit lanes to facilitate frictionless entry/exit by contract/permitted parkers.
- VMS deployed as shown on the drawings.

Central Avenue Ramp

- 515 spaces
- Two (2) entry lanes, one at Central Avenue and one at Iowa Street.
- Two (2) exit lanes, one at Central Avenue and one at Iowa Street.
- All entry and exit lanes separated from one another.
- One (1) POF kiosk will be installed per the construction documents.

- Fixed LPR to be installed at all entry/exit lanes to facilitate frictionless entry/exit by contract/permitted parkers.
- VMS deployed as shown on the drawings.

System Design

1. FMS consisting of server, task or subsystem computers and workstations providing on-line monitoring and control of all PARCS devices. Through information generated by system reports, a complete FMS capable of:
    a) Correlating RCS and ACS entries and exits with vehicles present.
    b) Reconciling time parked with revenue generated.
    c) Providing independent and consolidated occupancy and activity counts for both RCS and ACS systems.
    d) Monitoring all lane equipment.
2. ACS for regular (‘monthly’) parkers who prearrange parking and utilize proximity cards or LPR-reads to enter and exit the facilities.
3. RCS for ‘transient’ parkers who pull a ticket to enter and pay a fee to exit either in advance at the POF or at the exit via Credit Card.
    - RCS including a validation system to reduce or eliminate fees.

1. Other Equipment:

    a. POFs accepting coin and payment card only, as indicated on drawings.

    b. Protective bollards.

    c. Signs as indicated on drawings.

    d. Other equipment as specified herein.

B. References in this section to “Contractor” include any Subcontractor performing Work related to the PARCS.

C. Identify any clarifications, deficiencies, exceptions or errors in the Specifications or Drawings in Contractor proposal. Deficiencies or discrepancies in the Specifications or Drawings do not relieve the Contractor of the responsibility to provide a fully functional, reliable PARCS as intended by the design. Clarifications and exceptions to the design taken by the Contractor must be clearly stated in the proposal and are subject to Owner approval.

D. See Drawings for equipment locations.

E. Work Included:

F. Review Drawings and Specifications to be certain that all functional requirements, as described, can be achieved with equipment to be supplied.

G. Provide Submittals as specified.

H. Coordinate and confirm final and precise layout of PARCS equipment, mounting structures, conduits, stubs, and anchor bolts with Owner prior to installation.

I. Attend construction meetings, provide schedules as requested, and schedule fieldwork to be coordinated with Owner.

J. Provide and install all PARCS equipment as described and specified.

K. Provide and install mounting structures necessary for the PARCS equipment.

L. Provide and install all software, ancillary components, and materials to provide a complete and functioning PARCS and the interconnection with any Owner supplied equipment.

M. Provide, install, terminate, and connect all necessary communications wiring and conduit required for the PARCS.

N. Provide, install, terminate, and connect any power conditioning that is required for the operation of the system.

O. Provide a method to pay for parking via a smart phone. Most preferred method is direct link to pay by scanning the ticket with the smart phone camera, but other options that require a payment app will be considered.
   1. Comply with all applicable codes and standards.
   2. Authorize and accept responsibility for application of power to equipment and initiation of operation.
   3. Run all initial diagnostics and system testing necessary to provide a complete working system.
   4. Participate in system commissioning as required herein.
   5. Test equipment a specified.
   6. Provide as-built drawings, operating manuals, maintenance manuals, as specified.
   7. Provide training as specified.
   8. Remove and dispose of existing PARCS in accordance with applicable laws and codes.
   9. For any PARCS components or equipment being removed that are within scope of the PCI-DSS as defined in the most-current version of the standard, securely dispose of such components or equipment using techniques described in the standard (PCI-DSS Section 9.8 and its subsections, or as revised).
   10. Provide warranty services as required.

P. Work Excluded
   1. WAN will be supplied by the City to provide interconnection between the various sites. All work within the ramps is by contractor.
   2. City will provide internet connectivity.

Q. PARCS Future System Expansion:

   1. Readily upgradable, scalable, and modular in design to accommodate additional equipment, parking facilities, features and functionalities including the following:

      a. Additional PARCS field devices.
      b. Additional parking facilities.
      c. Additional integrations (LPR, loyalty programs, connected cars, Bluetooth, etc.).

d. Interface with open API's for adding third party applications (e.g., ParkMobile).
e. Firmware or software upgrades without the need to replace field devices.

1.4 REQUIRED MEETINGS

A. System Design Review (SDR) meeting: Conduct initial SDR meeting in Dubuque, Iowa or via remote virtual meeting (at the City's discretion)within forty-five (45) days of contract award (after final contract negotiations) and follow-up as needed. Purpose of SDR is to review the Contractor's System Design Documents (SDD), which include the following Proposal Submittals and Informational Submittals:

1. Product Data Submittals
2. Typical Lane Layouts
3. Project Schedule
4. Phasing Plan
5. Transition Plan
6. Samples
7. Training Plan
8. Testing Plan

B. Pre-Installation Meeting: Conduct meeting at project site thirty (30) days in advance of time scheduled for work to proceed to review requirements and conditions that could interfere with successful PARCS implementation. All parties concerned with PARCS installation including electrical, communications, concrete/asphalt work, or others who are required to coordinate work should attend. Include the Owner or their representatives. At a minimum, cover:

1. Required preparatory work
2. Site safety and security requirements
3. Required work areas and laydown requirements
4. Review installation and implementation schedule
5. Review testing and acceptance procedures

1.5 SUBMITTALS

A. Proposal Submittals

1. Company Information

a. Provide the following company information:

1) Name of company submitting proposal.
2) Brief company overview including a description of the company culture, company structure, and a statement on whether the company is a private or public entity.
3) Years in business.
4) Number of employees.
5) Annual sales volume.
6) List of key accounts.

7) Names and titles of key personnel. Identify the primary point of contact and authorized individual to submit the proposal on behalf of your company.

b. Provide a list of any subcontractors, their business address, and a brief summary of their role in the project.
c. Description of the Contractor's presence in the local area.

1) Physical location of the nearest service center for PARCS maintenance and repairs.
2) Number of staff at this location.
3) Number of contractor-owned service vehicle at this location.

2. Manufacturer's Qualifications: Verify the following, in writing:

a. In continuous operations for previous five years.
b. Primary components installed and operating in three or more facilities of similar size and complexity. Provide the following for each installation.

1) Name of project
2) Location
3) Contact name, telephone number and email address
4) Date of installation
5) Number of lanes
6) Description of equipment and quantities
7) Payments accepted
8) Credential types used
9) Photos of installed PARCS

3. Installer Qualifications:

a. In continuous operations for previous five years.
b. Proven ability to install equipment and provide appropriate and required service and support after installation.

1) Approved in writing by PARCS manufacturer(s).
2) State number of years installing for manufacturer.
3) Three comparable installations in parking facilities of similar size and complexity in past three years.
4) Provide the following for each installation.

a) Name of project
b) Location
c) Contact name, telephone number and email address
d) Date of installation
e) Number of lanes
f) Description of equipment and quantities
g) Payments accepted
h) Credential types used
i) Photos of installed PARCS

c. Service Center located within two-hours driving distance of site.

d. Organizational Chart - include names, title, and roles of individuals who will be assigned to this project including any subcontractors.
e. Include resumes for key personnel.

4. Project Approach – Submit the following:

   a. Executive summary of your team's proposed PARCS solution for completing the scope of work, as described, including any unique PARCS features and functionalities that will enhance customer service and facilitate greater operational efficiencies.
   b. Detail the plan for design, installation, implementation, training, and testing.
   c. Description of the Contractor's approach for post-installation customer service.

5. Project Schedule based on the anticipated project milestone dates outlined herein:

   a. Milestone dates clearly identified
   b. Task and subtask start and completion dates
   c. Narrative description of phasing for each area of work including installation of field devices and performance of acceptance testing
   d. Training schedule relative to system activation

6. Product Data Submittals:

   a. List of each primary component of system and the manufacturer.
   b. Cut sheets including equipment dimensions; power and load requirements; communication requirements; operating temperature range; buffering limits for all PARCS devices; and IP rating for field devices for all PARCS equipment listed in Section 1.3.D, as well as:

      1) Communication Network Components
      2) UPS
      3) Traffic Control Signage
      4) Server
      5) Managed switches
      6) Server Rack
      7) Workstation
      8) Software Application

7. Payment app Integrations
   a. List all existing product integrations that allow a parking charge to be paid by a smartphone app or other similar means such as a QR-coded ticket with a direct payment URL link.

8. List all manufacturer-recommended spare parts (name, part number, quantity, and unit price) to be maintained on site.

   a. The Owner reserves the right to order additional parts and manage the PARCS spare parts inventory as required to maintain the system.
   b. The proposed spare parts list is subject to the approval of the Owner, and the Owner reserves the right to modify the spare parts inventory throughout the term of the Contract.
   c. Owner to provide a storage location of the spare parts.

d. Provide a software/database monitoring tool for tracking the inventory and usage of spare parts.

9. Detail server infrastructure solution and components, including an on premise or cloud-based solution. Description of any offsite or cloud-based components of the system and the methods by which the on-site equipment and software communicates with the offsite/cloud-based components. This must include a description of the communications and networking methods required to integrate the onsite and offsite components, who provides the associated communications network (Owner, Contractor, or a combination), and any costs associated with this communications network.
10. Software application and version(s).
11. Provide a narrative and graphic description of the PCI P2PE solution including:

    a. Any entities (gateways or service providers) that will stand between the PARCS and the intended processor.
    b. Any one-time, recurring, or transaction-based costs associated with the use of those gateway or service providers.
    c. Network diagrams and data flow charts describing the solution.

12. PARCS standard reports including screenshots and sample reports.
13. List of any Contractor needed equipment that the Contractor expects the Owner to provide.
14. Price Proposal Form with total PARCS cost and unit cost of each component along with add/alternate items and any reoccurring costs (on an annual basis) not already provided.
15. Exceptions and Substitutions:

    a. Substitutions: Where functional performance features or quality of system varies materially from that specified, identify substitution being proposed. Include catalog sheets, brochures, and/or technical specifications of the proposed substitution.
    b. Exceptions: Provide an all-inclusive list of all exceptions taken to any part or parts of these Specifications (including substitutions).

16. Warranty: Submit copy of warranty and explanation of any instances which may impact warranty coverage.

B. Informational Submittals – After Project Award, prior to SDR meeting.

1. All submittal approvals, comments and rejections will be returned to the Contractor by the Owner's designated representative. Required Submittals must be resubmitted until accepted. Provide cover letter indicating the submittal purpose with area for comments and stamp by Owner's representative. Responses will be returned indicating one of the following with additional notes as needed:

    a. "No Exception Taken" – accepted submittal.
    b. "Rejected" – resubmittal required.
    c. "Submittal Not Required No Review Performed" – no further action needed.
    d. "Make Corrections Noted Resubmittal Not Required" - accepted but take corrective action.
    e. "Revise and Resubmit" – resubmittal required.

2. Detailed Project Schedule for implementation, training, and testing including:

    a. Project plan in Gantt chart format generated using currently supported Microsoft Project or similar program approved by Owner.
    b. Milestone dates clearly identified, including staff training and testing
    c. Task start and completion dates.
    d. Phasing for installation of field devices, performance of acceptance testing, and activation for public use.

3. Shop Drawings

    a. Mounting details for PARCS equipment, per manufacturer recommendations.
    b. Wiring diagrams detailing wiring requirements for power, signal, and control systems.
    c. Locations for electrical and communications connection points and pathways including conduit runs, network access points, power panels and circuits, and server location.
    d. Clearly indicate work that is not in contract.

4. Samples: submit samples of tickets, reports, and other items requiring selection as part of the SDR meeting.
5. Schematic diagram showing communication between head end equipment and field devices.

C. Other Submittals – After Project Award, prior to SDR meeting. Submit in accordance with Division 1

1. Training Plan and Schedule (to be submitted as part of the SDR meeting):

    a. Owner to tentatively approve or suggest changes to the training schedule.
    b. Fourteen calendar days prior to each instruction session, submit an outline of the instruction material and approximate duration of the session. Allow ample time within each session for the Contractor to fully describe and demonstrate all aspects of the PARCS and allow Owner personnel to have hands-on experience with the PARCS.

2. Testing Plan (to be submitted as part of the SDR meeting):

    a. Plan for testing all system functionalities described herein as well as any other functionalities proposed by the Contractor.
    b. Owner to return review comments to the Contractor. Contractor to incorporate review comments into the Test Plan and resubmit for verification that all comments have been incorporated. Approved document will be termed the Test Procedures Document.
    c. Approval of finalized Test Procedures Document is required prior to commencement of any test.
    d. Develop test procedures for:
        1) Lane Acceptance Test (LAT).
        2) Operational Demonstration Test (ODT).

e. Revised schedule in Gantt format with milestone dates clearly identified, task start and completion dates, lane-by-lane installation dates, training dates, and testing dates.
f. Description of phasing to decommission each lane, install new field devices, perform LAT, and activate for public use.
g. Description for parking operational impacts during the transition from the old PARCS to the new PARCS.

3. Submit the following manuals in both hardcopy and electronic (PDF) format 30-days prior to commencement of testing:

a. PARCS user's manuals.
b. PARCS subsystem manuals.
c. Accessory and 3rd party equipment manuals.
d. PARCS maintenance procedures manual.
e. Training manuals.

4. Spare Parts

a. Deliver spare parts per the approved spare parts list, complete and ready to use, prior to commencement of testing.
b. Maintain inventory of spare components at this level as components are used during warranty period.

5. Stock Items: Furnish the following supply of operating stock items prior to commencement of testing.

a. 100,000 Owner approved parking tickets.
b. 100,000 Owner approved receipt tickets per exit device unless provided above.
c. 5,000 Proximity HID iClass cards.

6. Equipment Keys

a. Provide two (2) sets of keys for each unit of equipment with locks.
b. All equipment and enclosures of the same type (ENS, EXS, Gates, etc.) have the same key and equipment of different types have different keys.
c. Keys are unique to this project; other equipment supplied by the same manufacturer in the region cannot use the key provided for this project site.
d. APM doors and vaults cannot be keyed the same and must be high security mechanical keys.
e. If a special tool is required to perform any function on the PARCS during the normal course of business and/or maintenance, provide three of these tools.

D. Closeout Submittals

1. Copies of all licenses, registrations, documentation, disks and other media (as may have been included with commercially available software packages) to be submitted prior to commencement of testing. In addition, ensure that all licenses, registrations and warranties have been transferred to Owner prior to final software turnover.

2. As-Built Documentation: Submit as-built documentation of all systems and components installed as part of the PARCS. Include drawings of the actual installed conditions of all equipment and cabling components and configuration settings upon the completion of any acceptance test.

    a. Update the most recent as-built documentation as further changes occur in the field or as a result of a patch or upgrade to an installed system throughout the warranty period.
    b. Provide a list of all TCP/IP devices with each device's IP address, MAC address, and general description of the installation location.

1.6 QUALITY ASSURANCE

A. Comply with all laws, ordinances, codes, rules, and regulations of public authorities. It is the responsibility of the Contractor to meet these and all other current technical, performance, and safety standards that are applicable to all components and to the entire system, even when not specifically referenced.

B. Obtain all required permits.

C. All equipment and parts to be newly manufactured and never installed in any other operational system other than for factory test purposes.

D. UL standards where test standards have been established.

1. Equipment and materials which are not covered by UL Standards may be considered provided equipment and material is listed, labeled, certified or otherwise determined to meet safety requirements of a nationally recognized testing laboratory.
2. Equipment of a class for which no nationally recognized testing laboratory accepts, certifies, lists, labels, or determines to be safe, will be considered if inspected or tested in accordance with national industrial standards, such as NEMA, or ANSI. Evidence of compliance shall include certified test reports and definitive product data.

E. Equipment housings, conduits, and junction boxes exposed to weather (any location not in a conditioned environment) shall meet or exceed IP65 standards. Components that do not meet IP65 standards or better may be considered if implemented with supplemental environmental controls such as air conditioners and dehumidifiers.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Contractor must receive all equipment on-site. Owner will not receive, unload, or participate in the delivery of equipment to the site.

B. Contractor is responsible for replacing any items damaged during shipping, by expedited means, at no additional cost to the Owner if required to maintain installation schedule.

C. Coordinate designated storage/staging area(s) for PARCS equipment that has not been installed prior to shipping to site to ensure area is sufficient and available.

D. It is the Contractor's responsibility to protect the equipment from theft and damage until final acceptance. This may include installation of fencing, locks, and any other security provision deemed necessary by Contractor. Should the stored equipment be stolen or damaged prior to final acceptance, replace the equipment at no additional cost to the Owner.

E. Deliver equipment to site in manufacturer's original containers to prevent damage and marked for easy identification.

1.8 PROJECT/SITE CONDITIONS

A. Environmental Conditions: Entire system and components warrantied to be unaffected by weather conditions typical to the area as well as the conditions listed below:

1. Ambient Temperatures: -10ºF to 120ºF (with addition of solar loading)
2. Humidity: 0% to 99% (non-condensing)
3. Rain: Blowing rain with 80 mph gusts
4. Dust: Accumulating and blowing dust and fine sand

B. Entire system and components warrantied to be unaffected by non-direct lightning strikes, or similar types of power interference.

1. Present solution for preventing power interference for Owner approval prior to implementation.
2. Provide lightning protection through surge arrestors or earthen ground rods or a combination thereof for the PARCS.
3. Determine, based upon the PARCS manufacturer's system requirements, the appropriate lightning protection method to use for the location where the equipment is installed.
4. Provide equipment that is UL-approved for use as part of a labeled lightning protection system and marked in accordance with UL procedures.

C. Any new islands or pads containing PARCS equipment must not be poured until stub ups and any necessary anchor bolts are properly placed and verified by the Contractor. Any conflicts with installation at a particular location must be resolved prior to pouring lanes and pads for PARCS equipment.

1.9 WARRANTY, SERVICE AND SUPPORT (INITIAL PERIOD)

A. Warranty period on the PARCS starts upon notification from the Owner of Final System Acceptance.

B. Warranty all parts, materials, and workmanship following Final System Acceptance for a period of 12 months (1 year). Inclusive of ALL costs (parts, labor, maintenance, software support, warranty repairs, Contractor travel time, Contractor expenses, etc.) incurred during the warranty period to be provided without additional cost to the Owner.

C. Costs (time and material) for repair or parts replacement, components, etc., damaged or rendered unserviceable due to apparent and provable misuse, abuse, vandalism or negligence by Owner or the using public are excluded as a warranty requirement. Also

excluded from the warranty are damages due to Acts of God. Contractor costs related to these non-warranty repairs can be invoiced to the Owner on a time and materials basis.

D. Maintain all systems that are operating prior to starting the warranty period. Maintenance services to be defined within the Manufacturer's recommended maintenance procedures manual submitted as accepted by the Owner.

E. Repair Service during the Warranty Period:

1. Begin repair service within 24-hours of the initial service request by the Owner within normal business hours.
2. Resolution of the situation within 48-hours after notification is required in all situations. A temporary solution is acceptable in the event replacement parts are not available in inventory.
3. Factors beyond the control of the Contractor, such as unexpected delays in parts, accidents, severe weather, and unusual traffic, require thorough documentation to be submitted to the Owner the next business day. The Owner may grant relief for the service hour requirement after reviewing these factors.

F. Emergency Maintenance Service during the Warranty Period: Conditions requiring emergency maintenance services by the Contractor are conditions in which a lane, PARCS device, or group of devices become unusable due to malfunction, failure, or damage and the condition cannot be remedied by Owner personnel.

1. Provide three (3) methods of notification to be used for emergency contact information (ex: telephone, email, SMS text message).
2. Acknowledge receipt of emergency service request within 60 minutes of notification.
3. Begin emergency repair service within 8-hours of the emergency service request.
4. Resolution of the situation within 24-hours after notification. A temporary solution is acceptable in the event replacement parts are not available in inventory.
5. Factors beyond the control of the Contractor, such as unexpected delays in parts, accidents, severe weather, and unusual traffic, require thorough documentation to be submitted to the Owner the next business day. The Owner may grant relief for the service hour requirement after reviewing these factors.

G. Software Support during the Warranty Period:

1. Provide on-site and remote software support for PARCS and all 3rd party software applications.
2. Provide 24/7 hotline telephone software support.
3. Make available to the Owner normal PARCS software improvement releases (updates) when they become available at no additional cost to the Owner.
4. Provide all PARCS and operating system software patches and updates free of charge during the warranty period; however, the Owner reserves the option of implementing the updates or not. Provide documentation seven calendar days prior to all PARCS and operating system software modifications, patches, updates, and upgrades, that describes:

    a. Patch/update release designation
    b. Proposed date and time of implementation

c. Detailed description of what the patch/update accomplishes
d. Full disaster recovery procedures that return the system to its pre-patch/update condition

5. Coordinate the testing and implementation of all patches and updates with the Owner. PARCS Database and PARCS application software maintenance to be performed remotely or on-site as approved by the Owner.
6. Support upgrades to the PARCS application based on operating system patch and upgrade requirements. (For example, if the PARCS runs on a Microsoft operating system, patch the PARCS software according to the Microsoft patch and upgrade schedule without breaking any application. If Microsoft decommissions an operating system, the Contractor must be capable of releasing code compatible with next operating system upgrade prior to Microsoft ending support for current operating system.)
7. Provide corrective patches and upgrades in the event security vulnerability or system availability issues are discovered.

H. Preventive Maintenance Service during the Warranty Period:

1. Provide preventive maintenance services for all systems throughout the warranty period. Preventive maintenance procedures and frequencies to be defined within the Manufacturer's recommended maintenance procedures manual submitted with the Proposal as modified and accepted by the Owner.
2. Preventive maintenance services include but are not limited to inspection, testing, necessary adjustment, alignments, calibration, parts cleaning, battery replacement, communication system maintenance, server administration and database administration of the PARCS provided by the Contractor.
3. Perform all preventive maintenance at non-peak periods during regular business hours.

1.10 ADD ALTERNATES

A. Post Warranty Maintenance Services and Support

1. Include proposed add/alternate costs in the proposal to provide post-warranty maintenance services for the PARCS on an annual basis for five (5) years following expiration of the warranty period with pricing valid for the Owner to purchase the Post-Warranty Maintenance Services through a service agreement between the Owner and Contractor.

B. Invoicing System
1. See description in Section 2.3.

PART 2 - PRODUCTS

2.1 PAYMENT CARDS

A. All aspects of the PARCS, including but not limited to, hardware, software, configuration settings, processes (both manual and automated), policies, procedures, reports, network

architecture, data storage schemes and other products for the PARCS must be compliant with all applicable Payment Card Industry (PCI) Security Standards Council standards, Information Supplements and Guidelines (www.pcisecuritystandards.org) published or in force at the time of installation, so that the Owner can certify the system as PCI Compliant. As part of demonstrating compliance with the PCI security standards, the requirement or use of a compensating control (as defined by the PCI Security Standards Council) shall only be permitted with written approval of the Owner.

B. Coordinate with Owner on clearinghouse and/or gateways to be used for authorization.

C. Provide authorization for the following brands/types of payment cards:

1. Visa
2. MasterCard
3. American Express
4. Discover
5. Bank-Issued Debit Cards with any of the above card brand affiliations, accepted as a credit card.

D. Provide a PCI-P2PE PA-DSS validated system for handling card-present transactions.

E. Support EMV Chip, Mag-stripe, Contactless reading of payment cards for card-present transactions.

F. Support Amazon Pay, Apple Pay, Google Pay, Samsung Pay mobile device-based payments.

G. Support PCI-compliant storage of up to 1000 transactions in an offline state.

H. Provide a system using tokenization by a current validated PCI Level 1 Service Provider for handling card-not-present transactions (if any).

I. Provide, test and install quarterly security updates for system components in the cardholder data environment, such as operating system, application software, firmware, etc. related to payment cards during Warranty Period and any optional Extended Service Coverage selected by Owner.

J. Payment card processing time of no greater than ten (10) seconds.

2.2 SOFTWARE

A. Provide all software and software licensing required by the system to achieve total system performance.

B. Use proven, off-the-shelf software (i.e., software already manufactured and available for delivery) to the greatest extent possible.

C. Provide open APIs for dissemination to third party websites and applications. Such API’s must be open, documented and non-proprietary using industry-standard approaches such as REST or Websocket. Data access via the API is to be available to Owner at no additional charge.

D. Unless specified elsewhere, provide the latest available software version at the time of system implementation for all third-party software, including operating systems and database software.

E. Make any necessary modifications, and provide documentation of such modifications, to existing third party software programs that the Contractor adopts for the system. Should the Contractor and the software manufacturer be separate entities, the software modifications will not preclude the purchase of a standard maintenance and service contract from the manufacturer.

F. Purchase software maintenance for all third-party software naming the Owner as the software Owner and contact. Provide maintenance agreements throughout the duration of the warranty period.

G. Provide any necessary perpetual licenses and/or authorization for all PARCS related software including, but not limited to, operating systems, application software, development language, peripheral software, and PARCS hardware diagnostic software. If available, provide a site license to the Owner, meaning usage of the license is unrestricted, regardless of the physical locations where the software may be used.

H. If any of the software is cloud-based and provided on a Software as a Service (SaaS) basis, Contractor is to document in the Proposal their SaaS licensing terms and conditions, and the options and costs for a multi-year license for terms ranging from 2 (two) up to 10 (ten) years in length. Furthermore, if any component of the system is cloud-based and provided on a SaaS basis, Contractor is to describe in their Proposal what occurs in terms of system and feature functionality if Owner chooses not to renew SaaS-based licensing.

I. Provide licenses that cover future updates as required by these specifications.

J. Deliver original ISO, USB Stick, DVDs/software or product keys and software license documentation with Owner listed prior to commencing system testing.

K. Database Management System

1. Use a specified commercial off-the-shelf ODBC-compliant relational database software program to provide complete operation of the PARCS. This database software is required to be one of the following, as these products are known to support appropriate database integrity, resiliency and API features: Oracle Database, Oracle MySQL, Microsoft SQL server, IBM DB2, or PostgresSQL.
2. Provide database schema to Owner.
3. Provide database access credentials to Owner.

L. Operating System Platform

1. Use a commercial off-the-shelf operating system to provide complete operation of the PARCS.
2. Operating system software consisting of software to support system setup, system operation, routine hard drive backups, diagnostics, and other maintenance routines.
3. Upgrade the PARCS application to operate on the most current operating system upon commercial release of a new operating system version. Upon completion of

successful Contractor testing, recommend implementation of the patch. Implementation subject to the Owner's approval.

M. PARCS Application Software:

1. Install and configure all application software and firmware required by the PARCS with all software licenses registered to the Owner.
2. Provides complete operation of the PARCS and includes the database management system.
3. Allows for future upgrade and expansion of the PARCS.
4. Browser-based and web-browser enabled such that the PARCS is accessible from any Owner workstation connected to their network.
5. Operates across dedicated PARCS Local Area Network (LAN), accessible with proper user ID and password, on all workstations authorized to access the PARCS software modules.
6. Allow multiple groups and roles that govern individual access to the system. The assignment of a group/role will control access to the various modules of the PARCS, and if the access is update or view only.
7. Access rights to the system for the various groups and roles will be defined during implementation.
8. PARCS application software to provide the following:

    a. Manage, display, and report all PARCS-related activity as outlined in this functional specification.
    b. GUI that is intuitive and user friendly.
    c. Automatic detection and reporting of fault conditions and equipment failures. Categorize fault condition by severity and display alarm notification on the system GUI as well as notify designated Owner personnel via email and/or text message for any individual fault condition, category of fault, or Owner-selected group of faults.
    d. Reporting as outlined in the Reporting section.
    e. Real-time monitoring of all PARCS field devices
    f. Central access and control of field devices for users with the appropriate authorization to issue remote commands from system workstations to the field devices such as raising and lowering the BG; rebooting field devices; putting field devices in or out of service; remote transaction processing; etc.
    g. Audit logging for the use of central controls within the PARCS database by user ID, time, device controlled, and action taken. Audit logging to include all creation, deletion and modification of the following items:

        1) Rates and rate tables
        2) Validations
        3) Contract parker configuration
        4) User access to system
        5) Field device configuration
        6) Field device actions, such as manual gate raise
        7) Parking facility definition within the system
        8) Parking facility occupancy and capacity
        9) End-user messaging
        10) Credit card acceptance configuration
        11) Custom reports

12) Audit log

h. Configurable parking rates, grace periods, and time increment changes from system workstations. Configuration access to be restricted to Owner designated users with proper authorization.
i. Remote communication with all devices in real-time for a general broadcast of information (e.g. rate changes or time increment changes) or software update and an ability to communicate to a single device to upload information or software. It shall be possible to remotely shutdown a field device's operating system, upload updates and remotely restart the field device.
j. Correct calculation and processing of parking fees during a transition:

1) from daylight savings time to standard time, and vice versa
2) at the beginning of March during leap years (e.g., when there is a February 29th).
3) from one rate to another (e.g., rate has an effective date so that Customers are charged a parking fee based upon the parking fee that was current at the entry date and time, not the exit date and time, allow the new rate to be either less than or greater than the new rate).

k. Programmable rate structure to establish variable rates based upon the time of day, day of week, and special events.
l. Programmable rate structure to establish daily/weekly/monthly maximum fees, grace times, and complimentary periods.
m. Programmable rate structure to allow configuration of the tax rate applied to parking fees.
n. Create system generated alarms – generation of alarms for user selectable event type. Alarm Hierarchy shall be completely configurable so the Owner can adjust priority of alarms, audible tones, where the alarms are sent, etc. Initial Alarm Hierarchy shall be coordinated with the Owner during implementation.
o. Ability to export all query results and reports to multiple formats including Portable Document Format (PDF), comma-separated-value, and Microsoft Excel©.

N. Reporting

1. Available online and on demand for Owner personnel who have proper password access.
2. Viewable, printable, and exportable from the GUI.
3. Data compiled in an ODBC compliant database with the ability to prepare custom reports using the PARCS data including Microsoft Excel, at a minimum, via a comma-separated-value file format.
4. Provide the Contractor's PARCS standard reports including report descriptions, selectable data fields, and report layouts for all standard reports.
5. Coordinate with the Owner as required during the system design to address specific reporting needs of the Owner. At a minimum, reports provided shall include:

a. Detailed Revenue and Non-Revenue Transactions Reports – Reports of transactions processed through the PARCS by user selectable parameters

including user type (ticketed customer, validation, pre-paid, parking integrator, Access Credential, etc.), date/time range, and by PARCS device.

b. Detailed and Summary Revenue Reports for daily, weekly, and monthly PARCS activity.
c. Payment Card Reports – Reports of payment card transactions by user selectable parameters including date/time range, payment card type, transactions type (valid online transaction, declined transactions, offline transactions, etc.)
d. Outstanding Ticket Reports – Report of parking tickets that have been issued but have not been processed or exited from the system.
e. Validation Report – Report of validations issued, amount of validations, and when the validation was used, by user selectable parameters.
f. System Event Reports – Reports for system generated events by user selectable parameters including PARCS device and date/time range.
g. Occupancy Reports
h. ACS reports:

    1) Activity Usage Reports – Provide a chronological list of ACS usage, including date, time, credential, and location of entries and exits; capable of being sorted by any field.
    2) Count Reports – Monitor and report counts of ACS vehicles present on an hourly basis by group, access level.
    3) Percentage of Occupancy – For selectable times during 24-hour period for all categories of ACS parkers.
    4) In/Out Status Report: Shows status of all ACS cards at any given time, sortable by name/card #/status.
    5) Active User Report – A listing of all active users that have access to the facility.
    6) Activity Exceptions Report – A field-sortable listing of all activity exceptions to include at a minimum hard-passback, soft-passback, shared account, debit card, hotel quest pass and nesting violations.
    7) User Changes Report – Provide report of changes to user accounts to include at a minimum debit card rate changes and status changes (e.g. card placed in neutral with no charges applied at exit).

2.3 ACCESS CONTROL SYSTEM (ACS)

A. Provide an on-line, computer-based access control system for those authorized by Owner to have access to parking facility without being processed through ticket system, for example; a “monthly parker”.

B. Distributive, networked or centralized processing may be employed, so long as required multi-lane control features such as anti-passback, occupancy and activity tracking are maintained.

1. Authorized vehicles requiring free and fast ingress and egress to parking facilities.
2. Monthly parkers who have a contractual agreement and/or will prepay or prearrange billing for parking on a monthly basis.

C. Individually recognize and process up to ten thousand (10,000) ACS users at all reader locations.

D. Have at least sixteen (16) preprogrammed access levels capable of being changed without reprogramming of ACS.

E. Provide anti-pass back control. With this feature, users enter and exit in proper sequence (i.e., entry, exit, entry, exit, etc.).

1. Selectable option to allow either "hard" (out of sequence user is rejected and an alarm is generated) or "soft" mode (out of sequence user is allowed access but reported.)
2. In both hard and soft modes, each out of sequence event is reported as an exception transaction in daily ACS access log.
3. Password protected "resynchronization" of all users to one access before return to anti-passback control.

F. Link users to each other to allow one entity to be identified with and/or pay for a group of users. Provide up to one hundred (100) such user groups.

G. Ability to group ACS credentials and limit access to a preset maximum number of vehicles in facility at any given time, and/or allow and track overages to be invoiced separately.

H. Nesting feature:

1. Ability to require parkers that are assigned to park in a specific level or area (nest area) to use ACS credential to enter and exit nest area in order to exit facility.
2. Required sequence: In facility, in nest, out of nest, out of facility.

I. Programming requirements:

1. Issue and reprogram ID devices.
2. Allow authorized supervisor to create, store, send and receive user programming from ACS readers. Password protected access to programming, with multiple levels of access, to any and all information regarding specific blocks and/or suites of cards.

    a. Provide at least twenty (20) programmable record fields for each person issued an ACS credential and at least twelve (12) programmable record fields for each user’s vehicle(s).
    b. Allow specific parker record files to be retrieved, displayed and/or printed based on selectable criteria, such as current ACS status, access group, access level, and/or ID numbers (except data that is password protected).
    c. Allow searching, sorting and printing of database by any field for routine and special forms such as invoices or mass-mailings.
    d. Consolidating and retaining data to allow for report generation (see “reports"). Capable of reporting the collection of fees from parkers on monthly prepayment, decrementing, end of month billing, and/or credit card basis.

3. Provide for posting of payments and automatic lockout of ACS users within programmable grace period after expiration of a prepaid account.

J. Invoicing Package

1. Include ACS ID device number(s), account number(s) and monthly rate associated for each ACS ID device being invoiced.

2. Must support multiple ACS IDs such as a prox card and an license plate or a single user.
3. Provide a monthly report listing total number of ACS ID device numbers invoiced and total dollar amount invoiced.
4. Provide an “on-file” credit card billing interface to allow automated credit card billing option.
5. Provide a password protected customer interface for customer registration, editing personal information, making payments and viewing payment history.
6. Provide password protected credit card file in compliance with credit card data security requirements of Payment Card Industry (PCI).
7. Include an Accounts Receivable package for all normal accounting functions associated with ACS revenue:

    a. Invoice report.
    b. Cash receipts journal.
    c. Accounts receivable ledger with supporting subsidiary ledgers for each account.
    d. Accounts receivable aging report for selectable time periods.
    e. Account history reports, indicating invoices and payments by customer.
    f. General ledger, adjustment ledgers, general ledger interface for Owner or Owner Representative’s mainframe and all invoicing features included in invoicing package.
    g. Provide automatic on-line real-time monitoring of ACS usage with DVD/CD-ROM storage of transaction data for audit and analytic purposes.
    h. Monitor and report all alarm conditions.
    i. Password protection and Daily Log reports for all administrative actions.
8. Owner prefers system that can also integrate non-gated permits such that all can be managed within this single software function.
    a. Integrates to enforcement system such that valid permit holders will not be cited.
    b. Identify in the proposal all associated systems to which there is a software integration.

2.4 POWER

A. See Drawings and Division 26 – Electrical.

B. Examine and accept existing power to the field locations where there is existing PARCS being retrofitted. If inadequate, contractor is to retrofit it to required stadnards.

C. Furnish and install all additional power conduits, pull cords, junction boxes, and cabling necessary to support the PARCS, per the PARCS manufacturer’s requirements.

D. Provide and install any power grounding and power conditioning that is required for the operation of the system.

E. The Contractor is responsible for furnishing, installing, terminating and testing any cable necessary to provide power from the local power source to the field devices.

2.5 COMMUNICATIONS

A. Reference Drawings.

B. Unless specified elsewhere, contractor to provide and install all required communication cabling from IDFs to demarcation points. All such cabling is to be either CAT6 or fiber optic, in accordance with applicable IEEE/ANSI industry standards and distances to be spanned.

C. Data connection provided from facility IDF to various locations near each equipment island or plaza. See drawings.

D. Provide and install all additional communication equipment, conduits, pull cords, junction boxes, and cabling necessary to support the PARCS, per the PARCS manufacturer's specifications.

E. The Contractor is responsible for furnishing, installing, polishing, terminating and testing any cable necessary to provide communication from the field devices to fiber termination points in the vicinity of each PARCS plaza to gain access to the PARCS servers.

F. Provide and install all other communication switches, communication enclosures, and cabling at each lane to provide full PARCS system functionality.

G. Configure all field component communication such that no single point of failure of a device shall cause an operational failure of surrounding devices.

H. Every PARCS device and system component must operate independently in the event of a network communications failure or interruption. Each device requires buffering of data for a minimum of 2,000 transactions. System will continue to operate in the off-line mode and store the buffered data until the data connection is restored. Upon restoration of the data connection, all stored data will automatically be uploaded to the server or cloud. In the event some transactions are not successfully uploaded, send an alert, and continue to store the transactions locally until successful uploading has occurred.

2.6 EQUIPMENT AND SUBSYSTEMS

A. Provide newly manufactured equipment and associated materials for the PARCS.

B. All equipment performing a like function and of the same part number are to be fully interchangeable without the requirement for physical modifications.

C. Computer System, Application, and Data Servers:

1. If some or all of the PARCS servers reside outside the Owner's network, or are cloud-hosted, Contractor is to identify, document, and gain Owner's approval on a

mechanism to ensure that Owner has secure, complete, unrestricted access to the servers in the same manner as specified herein for on-site servers. In such a configuration, there are to be no restrictions on Owner's capability to establish or change passwords, access levels, etc. as specified above.

2. Review drawings for locations and Coordinate space needs with Owner as necessary.
3. Provide and install lockable server rack(s). Rack must be off the ground and protected from dust and debris.
4. No tower computer or other non-mounted equipment will be acceptable in the server rack.
5. Contractor to provide all servers, storage, network switchs (managed), required to operate the PARCS, subject to approval by Owner. Virtual Servers permitted.
6. All equipment to have sufficient processing power, memory capacity, and communication bandwidth to meet functional performance demands of PARCS software without loss of responsiveness to user input or slowing of any end node device or workstation.
7. Ensure UPS protection and battery back-up for servers for a minimum of two-hours.
8. As an Alternate, Owner reserves the right to procure and provide servers, storage, core switching, and workstations required to operate the PARCS.
9. Ability to operate in a virtual environment.
10. Use TCP/IP for data communication.
11. Provide centralized management of the PARCS.
12. PARCS servers to contain all PARCS application and database software that is associated with PARCS operation, data storage, and reports.
13. Install and configure all necessary software on the servers with all required system software licenses registered to the Owner.
14. The PARCS servers (if not cloud or internet hosted) shall reside on a dedicated PARCS network provided by Contractor.
15. Configure such that the following features and functionalities are attainable:

    a. Maintain 24 months of on-line data of all PARCS data. All data shall be readily accessible without any delay in processing.
    b. Provide fault tolerance such that no server-level single point of failure causes disruption to the PARCS or corruption of PARCS data.
    c. Long Term Storage Media – Ability to archive all summary data for up to five years with simple retrieval capability.

16. All PARCS data is considered to be the sole intellectual property of the Owner. Usage of this data by Contractor or by the PARCS vendor for any purpose other than to support, test or repair Owner's system requires prior written authorization from Owner. If such data is stored offsite or in the cloud under a term-based SaaS mechanism and Owner decides not to renew the SaaS agreement, Contractor is to send all PARCS data gathered over the lifetime of the system (i.e. from system activation date through the SaaS agreement termination date) to the Owner in an Excel format and is to subsequently delete such data from any offsite servers or cloud instances.

D. Entry Station (ENS)

1. Provide and install ENS) at the public entry lanes, as indicated on the Drawings, equipped with the following components and capabilities:

    a. Access door with appropriate tamper-resistant locking system with notification/log of door openings
    b. Push button ticket dispenser (TD)
    c. Proximity Card Reader with a minimum read range of four inches integrated into the face of the ENS
    d. Barcode reader integrated into the face of the ENS capable of reading 1D and 2D barcodes including pre-printed coupons/validations and electronic barcodes displayed on mobile devices.
    e. Payment card capabilities as defined in the Payment Card section (for pay at entry event mode)
    f. Integrated NFC reader (for pay at entry event mode)
    g. Push button intercom integrated into the face of the ENS
    h. Issues one time and date stamped barcode or mag-stripe parking ticket for each ticketed entry transaction
    i. Uniquely encoded tickets
    j. Unique ENS identifier encoded and printed on each ticket
    k. Machine readable ticket encoding that is compatible with all other PARCS components
    l. Minimum ticket stock capacity of 5,000 tickets
    m. Color display with minimum 5” display
    n. Provide selectable directional language, for a minimum of English and Spanish
    o. Use visual instructions for customers to understand the sequence of events to complete a transaction, including directional signage (subject to approval) informing user to take ticket and pay at pay-on-foot prior to exiting
    p. Stand-alone functionality that allows the ENS to operate independently when there is a temporary network communication failure, regardless of where the communication interruption occurs. Alarm for ENS offline condition to be displayed on the PARCS GUI.
    q. Ticket stock low alarm generated on the PARCS GUI
    r. Ticket stock out alarm generated on the PARCS GUI
    s. Interfaces with barrier gate and vehicle detectors in the respective lanes

2. Entry Procedures:

    a. Normal Entry – Ticket Issuing

        1) Upon activation of the vehicle detector, ENS is armed and displays instructions to “push button for ticket”, or another Owner approved message.
        2) After button is pushed, the parking ticket is issued within 3 seconds
        3) After customer removes the ticket the ENS sends a signal to the barrier gate and the barrier gate rises.
        4) After vehicle crosses over the closing vehicle detection loop the gate closes, and the transaction data is sent to the PARCS server.

    b. Normal Pay on entry with credit card (event mode)

1) Upon activation of the EXS vehicle detector, EXS is armed and displays instructions to “please pay for parking” and fee, or another Owner approved message.
2) Displays the fee due with instructions to present payment card.
3) After the payment card is presented, the PARCS performs payment card authorization and the EXS display shows the message “Processing”, or another Owner approved message.
4) Once payment is obtained, and if payment card reader is an insert-style reader, the EXS displays instructions to remove payment card.
5) Card is removed and the EXS produces a receipt.
6) EXS displays instructions to remove receipt.
7) After customer removes the receipt the EXS sends a signal to the barrier gate and the barrier gate rises.
8) After vehicle crosses over the closing vehicle detection loop the gate closes and the transaction data is sent to the PARCS server.

c. Normal Pay on entry with cash using roving cashier (event mode)
1) Upon activation of the EXS vehicle detector, EXS is armed and displays instructions to “please pay for parking” and fee, or another Owner approved message.
2) Roving cashier facilitates payment and entry. See Roving Cashier specifications herein.

d. Normal Entry – Barcode In

1) Upon activation of the vehicle detector, ENS is armed and displays instructions to “push button for ticket”, or another Owner approved message.
2) Customer presents valid barcode (either on smart phone or printed) allowing pre-authorized entry to parking and the ENS verifies that it is a valid barcode.
3) After barcode is verified the ENS sends a signal to the barrier gate and the barrier gate rises.
4) After vehicle crosses over the closing vehicle detection loop the gate closes, and the transaction data is sent to the PARCS server.

e. Back-out Ticket Taken

1) After ticket is taken by the customer and gate raises, the customer backs out of the entrance without entering the facility.
2) Alarm is sent to the PARCS GUI and recorded in the PARCS database.
3) Ticket is invalidated in the system.
4) Gate automatically closes after a user configurable timeout.

f. Back-out Ticket Not Taken

1) After ticket is issued but before it is taken by the customer, the customer backs out of the entry lane.
2) Ticket is invalidated in the PARCS.

g. Normal Entry – ACS

1) Upon activation of the vehicle detector, ACS reader is armed.
2) ACS reader identifies ACS credential device in lane and searches for authorization through ACS Controller. If authorized, a signal is sent to open the gate.
3) After vehicle crosses over the closing vehicle detection loop the gate closes, and the transaction data is sent to the PARCS server.

E. Exit Station (EXS)

1. Access door with appropriate tamper-resistant locking system with notification/log of door openings
2. Payment card capabilities as defined in the Payment Card section
3. Ticket verifier.
4. Barcode reader integrated into the face of the EXS capable of reading 1D and 2D barcodes including reading pre-printed coupons/validations and electronic barcodes displayed on mobile devices.
5. Integrated NFC reader.
6. Push button intercom integrated into the face of the EXS
7. Unique EXS identifier encoded and printed on each ticket after processing
8. Machine readable ticket encoding that is compatible with all other PARCS components
9. Reads and verifies pre-paid tickets
10. Reads and verifies validated tickets.
11. Color display with minimum 5” display.
12. Provide selectable directional language, for a minimum of English and Spanish.
13. Use visual instructions for customers to understand the sequence of events to complete a transaction.
14. Stand-alone functionality that allows the EXS to operate independently when there is a temporary network communication failure, regardless of where the communication interruption occurs. Alarm for EXS offline condition to be displayed on the PARCS GUI.
15. Receipt printer that is capable of producing receipts for all transactions.

a. Upon successful payment, print a receipt that includes:

1) Owner approved header
2) Transaction number
3) Lane or equipment number
4) Entry date/time and Exit date/time
5) Parking fee
6) Amount of tax for the parking fee (if applicable)
7) Other fees as applicable
8) Total fee paid
9) Payment type
10) Payment card type
11) Last four digits of payment card number

b. User configurable for receipts to be auto issue or by request.

c. Receipts to be FACTA-compliant.
d. Receipt stock low alarm generated on the PARCS GUI
e. Receipt stock out alarm generated on the PARCS GUI

16. Interfaces with barrier gates and vehicle detectors in the respective lanes.
17. Journal tape record of transactional information for each transaction processed at device. Journal record to be printable from any system workstation. Transactional information on the journal tape includes:

    a. Date and time of transaction
    b. PARCS device number
    c. Sequential transaction number
    d. Ticket number
    e. Entry date/time and exit date/time
    f. Parking fee
    g. Tax amount
    h. Total Fee
    i. Payment card type
    j. Last 4 digits of the payment card
    k. Payment card authorization code

18. EXS Exit Procedures:

    a. Normal Exit – Pre-paid Ticket.

        1) Upon activation of the EXS vehicle detector, EXS is armed and displays instructions to “please insert ticket”, or another Owner approved message.
        2) The pre-paid ticket is presented and the ticket information is verified.
        3) The EXS sends a signal to the barrier gate and the barrier gate rises.
        4) After vehicle crosses over the downstream vehicle detection device the gate closes and the transaction data is sent to the PARCS server.

    b. Normal Exit – Validated Ticket

        1) Upon activation of the EXS vehicle detector, EXS is armed and displays instructions to “please insert ticket”, or another Owner approved message.
        2) After the validated ticket is inserted or scanned, the validation is verified.
        3) EXS sends a signal to the barrier gate and the barrier gate rises.
        4) After vehicle crosses over the closing vehicle detection loop the gate closes and the transaction data is sent to the PARCS server.

    c. Normal Exit – Unpaid Ticket

        1) Upon activation of the EXS vehicle detector, EXS is armed and displays instructions to “please insert ticket”, or another Owner approved message.
        2) After unpaid ticket is inserted, EXS calculates the appropriate parking fee and displays the fee due with instructions to present payment card.

3) After the payment card is presented, the PARCS performs payment card authorization and the EXS display shows the message “Processing”, or another Owner approved message.
4) Once payment is obtained, and if payment card reader is an insert-style reader, the EXS displays instructions to remove payment card.
5) Card is removed and the EXS produces a receipt.
6) EXS displays instructions to remove receipt.
7) After customer removes the receipt the EXS sends a signal to the barrier gate and the barrier gate rises.
8) After vehicle crosses over the closing vehicle detection loop the gate closes and the transaction data is sent to the PARCS server.

d. Normal Exit – Barcode Out

1) Upon activation of the vehicle detector, EXS is armed and displays instructions to “please insert ticket”, or another Owner approved message.
2) Customer presents valid barcode (either on smart phone or printed) allowing pre-authorized exit to parking and the EXS verifies that it is a valid barcode.
3) After barcode is verified the EXS sends a signal to the barrier gate and the barrier gate rises.
4) After vehicle crosses over the closing vehicle detection loop the gate closes, and the transaction data is sent to the PARCS server.

e. Invalid Payment Card Presented for Payment

1) After the parking fee is displayed, an invalid payment card is presented and the display shows the fee due and the appropriate message while processing.
2) Once authorization is declined, the payment card is returned and the message “Card Not Accepted”, or other Owner approved message, is displayed along with the fee due.
3) Once the customer presents a valid payment card for payment, the transaction continues as a normal exit transaction.

f. Lost Ticket Transaction

1) The customer pushes the intercom button and informs the operator that they have lost their ticket.
2) The operator activates a lost ticket transaction from the workstation The correct fee is calculated and displayed on the EXS and the transaction continues as a normal exit transaction.
3) An exception ticket is generated for the lost ticket and retained for audit purposes.

g. Unreadable Ticket Transaction

1) Ticket is presented to the ticket verifier and the ticket cannot be read. The message “Ticket Unreadable”, or other Owner approved message, is displayed.

2) The customer pushes the intercom button and informs the operator that they have an issue with their ticket.
3) The operator activates a lost ticket transaction from the workstation The correct fee is calculated and displayed on the EXS and the transaction continues as a normal exit transaction.
4) An exception ticket is generated for the lost ticket and retained for audit purposes.

h. Normal Exit – ACS

1) Upon activation of the vehicle detector, ACS reader is armed.
2) ACS reader identifies ACS credential device in lane and searches for authorization through ACS Controller. If authorized, a signal is sent to open the gate.

F. Pay-on-Foot Station (POF)

1. Independently and in concert with server, read ticket data to determine ticket validity, payment due and any encoded validation.
2. If payment is due, display amount due and request payment.

a. Accept payment card as outlined in Payment Card section.

b. Accept U.S. coin currency only (i.e. no paper bills).

c. Retrofittable to accept US paper money and dispense as change.

3. Upon receipt of payment, issue machine encoded ticket, with programmable grace period.
4. Provide concise instruction with pictograms where appropriate for user-friendly operation.
5. Provide clear, audible instructions to patron throughout transaction process, selectable language, minimum of English and Spanish
6. Include high security lock system with appropriate alarm contacts for tampering.
7. Capable of maintaining a minimum processing rate, including typical patron delays, of 100 cash transactions per hour.
8. Operational Description

a. Patron presents ticket to POF.
b. For valid tickets, fee is displayed. Patron uses any of the payment methods based on machine type. Change is returned to patron if needed or payment card transaction is processed.
c. Amount paid, transaction number and other data are printed on ticket in readable form and encoded on ticket. All data is sent to server.
d. Patron is advised audibly and visually to take ticket and proceed to vehicular exit.
e. Receipts are issued only upon patron request for all transactions.
f. If POF cannot read ticket or it is otherwise identified as an exception transaction an alarm is generated, ticket is returned to patron, and a visual message advises patron that transaction cannot be processed and to press intercom for assistance.

G. Intercom Subsystem

1. Provide and install a video enabled intercom system for two-way communication between the PARCS field devices at all entry and exit lanes and POF stations, to a centralized location designated by the Owner.
2. Fully digital, microprocessor based, modular design using VoIP (Voice over Internet Protocol).
3. Programming server for all intercom features performed through networked workstation or from staff intercom station.
4. Programmed configuration of intercom stations and system features stored in non-volatile memory.
5. System includes all software and hardware required for programming system, including:

    a. Individually programmable volume control for each intercom station.
    b. Substations programmed to call staff intercom station.
    c. Call forwarding feature for individual stations or all stations to re-direct calls to another designated staff intercom station or designated phone number, including mobile phone.

6. Staff intercom station desktop model with full color LED display and noise cancelling microphone designed for high-noise environment. Required features:

    a. Provide full-duplex hands-free conversation with any other selected individual station or combination of stations in system.
    b. Integrated amplifier and loudspeaker.
    c. Firmware/feature upgrades available via download through intercom server with no local modification on station required.
    d. High sensitive microphone to provide clear conversation from a minimum range of 5 ft.
    e. Intercom station directory panel with direct access, pre-programmable function menus, selectable language, and adjustable display contrast.
    f. “Handset function” enabling user to switch from loud-speaking microphone operation to handset mode.

7. PARCS field device intercom substation requirements:

    a. Provide push button intercoms at all public entry lanes, public exit lanes, APMs, and inside parking booths.
    b. Integrated pinhole camera activated when intercom engaged. Video feed available to staff intercom station(s).
    c. Microphone, loudspeaker, and in-use LED all housed in one unit with configurable front pushbutton control.
    d. DSP technology to provide full speaker/microphone supervision and fully adjustable (volume/timing threshold programmable via intercom server) audio monitoring.

H. Barrier Gate (BG)

1. Provide and install Barrier Gates (BG) at all entry and exit lanes, speed ramp and helix lanes, as indicated on the Drawings.
2. All gates referenced in this specification section shall contain the following:

a. Non-wood gate arm; bottom of arm padded.
b. Electronically controlled rebound feature.
c. Typical gate arm and length of 10 feet, determined by lane.
d. LED light strip for gates with variable colors based on gate action/position.
e. Single piece gate arm or articulated as required by height limitations

3. BG shall have enough power/resistance to ensure they cannot manually be forced open.
4. Gate controllers with the following features and functionalities:

a. Microprocessor controlled and communication of gate status and functions to the PARCS workstations.
b. Directional logic with electronic outputs to alarms, counters and to report atypical lane activity to PARCS.
c. Ability to test gate operability and controller programming on-site without use of special diagnostic equipment.
d. "AUTO-MANUAL" switch, and "ON-OFF" switch for gate.
e. Contains power supplies, dust-proof relays, and other circuit components to control gate.
f. Receive inputs from the ENS, CT, or EXS and open after receiving the appropriate signal and close after the vehicle passes over the closing loop.
g. Receive commands from the PARCS workstations for remote opening and closing of the BG.

5. Gates installed at all lanes shall fail to either the closed or open position in an event there is a power failure and the UPS is no longer able to provide sufficient power to operate the lane based Owners preference.

I. Control Gate Restrictions:
1. Provide signage warning and prohibiting pedestrians and motorcycles from utilizing control gate as a means of ingress or egress to the facility.
2. Locate along approach route of the automated gate and/or affix to both sides of the control gate arm.
3. Incorporate both text and graphics to convey the hazards of ignoring.

J. Vehicle Detection Device

1. Provide pre-formed vehicle detection loops at all entry and exit lanes as shown on drawings.
2. Coordinate to have pre-formed loops installed 1.5 inches below final topping.
3. Detect vehicular presence, legal entry, legal exit, illegal exit, illegal entry, and back-out.
4. Each public entry and exit lane contains two or three vehicle detection loops.
5. Loop detectors shall be dual channel detectors.
6. Provide two channel pulse and presence outputs.
7. Provide separate, momentary contact closures upon detection of a vehicle, along with continuous contact closures during the period that the vehicle is detected.
8. Loop detectors shall contain two fully separate, self-tuning, vehicle loop detectors and directional logic circuitry.
9. Incorporate a sensitive tailgate recognition system capable of resolving two automobiles within six inches of each other on a standard 2.5 ft x 6 ft loop.

10. Loop detectors shall each have adjustable sensitivity modes.
11. Different sensitivity settings shall allow vehicles of varying height and size to be properly detected.
12. Loop detectors shall be fully microprocessor-based.
13. Loop detectors shall generate two loop frequencies. No two frequencies shall be the same to minimize the possibility of detector crosstalk or interference between two detector loops mounted within close proximity. Detectors generating an identical frequency are unacceptable.

K. Inductive Loops

1. Existing loops may be used if:
   a. They are tested for ground shorts.
   b. They are positioned correctly.
   c. Contractor is willing to extend full warranty to reused loops identically to newly installed loops.

2. Cut-into paving surface and filled with manufacturer's approved sealant.
3. Be formed by three to four turns of 20-gauge/16-gauge XLPE single-conductor wire.
4. No splices are permitted.
5. Contain loop leads:

   a. Limited to a length of 30 feet
   b. Have a four-twist minimum per foot and located at a minimum of 18 inches from electrical power lines
   c. Be contained in separate conduit to prevent interference from electrical signals
   d. Light in color (White, Red, or Orange) for presence loop
   e. Dark in color (Black, Blue, or Green) for safety loop
   f. Light in color (White, Red, or Orange) for secondary presence loop (if applicable)
   g. Dark in color (Black, Blue, or Green) for down-stream loop (if applicable)

6. 20-gauge XLPE single conductor wire:

   a. #20 AWG multi-strand copper wire
   b. 0.040" Nominal XLPE (cross-linked polyethylene) Insulation
   c. 0.120 Nominal O.D. for use in 1/8" saw cuts
   d. Only used in Concrete drive lanes

7. 16-gauge XLPE single conductor wire:

   a. #16 AWG multi-strand copper wire
   b. .080" Nominal XLPE (cross-linked polyethylene) Insulation
   c. 0.220" Nominal O.D. for use in 1/4" saw cuts
   d. Used in Concrete or Asphalt drive lanes

8. Backer Rod:

   a. Closed cell polyethylene foam
   b. Installed prior to sealing saw cuts

c. Holds loop wires and lead-in wire securely in saw cuts
d. Prevents wires from floating to surface when sealant is applied
e. Use 2” piece in at least every 2’ of saw cut
f. Used in concrete or asphalt
g. 0.375” Nominal O.D. for use in 1/8” saw cut
h. 0.500” Nominal O.D. for use in 1/4” saw cut

L. Reversible Lane Function: (if applicable)

1. Reversible Lane shall be in either entry mode or exit mode
2. Entry/Exit mode to be controlled automatically via FMS

a. Mode change is programmable at certain times to operate automatically
b. Programmable times can be updated/changed via FMS by user – no service technician needed
c. Mode can be over-ridden by FMS control center via simple drop-down menu
1) If lane is in entry mode, the lane can be reversed to exit mode by FMS control center
2) Mode of reversing lane will go back to automatic control at next pre-programmed time
3) No manual intervention will be required to return to fully automatic reversing lane control

3. Entry/Exit mode will not change until the lane is clear of vehicle presence

a. If mode is changed automatically by FMS or manually over-ridden by control center and a vehicle is present on any of that lane’s presence or safety loop, the lane controller will not change mode.
b. Once that lane’s inductive loops are cleared of vehicles the entry/exit mode will automatically update.
c. No line of sight will be required for safe operation of automatic reversal of lane.

M. Roving Cashier Function

1. Proximity card with pre-loaded cash value to allow roving cashier to assist patron in payment card only lane with only cash.
2. Upon payment of cash for parking, proximity card will activate the gate with the parking fee deducted from the pre-loaded proximity card.
3. System to track Pre-loaded card and produce an activity report to balance out the cashier at the end of the shift.
4. Remaining value plus the collected cash equals the original pre-loaded value.

N. Uninterruptible Power Supply (UPS)
1. Provided conditioned/emergency power through TCP/IP-enabled UPS units for the following components to protect components from loss of power, power spikes, and power sags:
a. Servers

2. UPS battery back-up sized to last forty-five (45) minutes.
3. Facilitate a 30% expanded load with an 80% continuous load factor.
4. Provide a single UPS for each lane to support all PARCS devices within the lane.

5. On-line, solid state UPS that provides both backup power and transient surge protection.
6. Determine the UPS backup requirements for each of the locations where UPS backup is required, based upon the equipment that is being supplied by the Contractor. Owner to review and approve the UPS units to be provided by the Contractor.
7. Test all UPS system components during the LATs for each PARCS device.

O. Validation System

1. Web-Based Validation System Post Ticket

   a. Authorized issuer logs into a password protected account via computer, smartphone, or another web-enabled device.
   b. Customer's ticket number is entered or ticket is scanned via handheld, desktop, and/or wall-mount scanner (hardware included with system).
   c. Validation is selected as a cash value, time value, or a rate change.
   d. Multiple validations can be applied to the same ticket.
   e. Software tracks and stores user ID, ticket number and validation amount for billing purposes.
   f. Validation billing software can calculate and prepare monthly invoices.

2. Web-Based Chaser Ticket (Follow-up Validation)

   a. Authorized issuer logs into a password protected account via computer, smartphone, or another web-enabled device.

      1) Printable on authorized user's workstation printer.
      2) Ability to send an electronic barcode via mail, email, or text.
      3) Single ticket or bulk volume for events.

   b. Customer inserts or scans entry ticket into EXS.
   c. After fee is displayed, user inserts or scans validation.
   d. Software tracks and stores User ID, ticket number, date/time of entry and exit, and validation amount for billing purposes.
   e. Validation billing software can calculate and prepare monthly invoices.

3. Advance Creation Entry/Exit Validation Passes

   a. Authorized user logs into the system to create custom validation pass.
   b. Type of pass can be single day, multi day, single use, or multi use.
   c. Valid entry and/or exit date and time can be selected.
   d. Ability to print on paper or send an electronic barcode via mail, email, or text.
   e. Pass can be scanned at entry and exit device; no ticket is needed.
   f. Software tracks and stores validation pass data for reporting purposes.
   g. Validation billing software can calculate and prepare monthly invoices.

P. Proximity Card Access System

1. Passive credential design capable of being read within 6 inches of reader.
2. Read and process credential within one second of presentation to reader.

3. Checking protocol that identifies multiple reads of same card within a few seconds (due to users “waving” card in front of reader), correcting false anti-passback reads.
4. Owner designated individuals shall be able to use the system for ingress and egress to/from the parking facilities at designated locations.
5. Authorized PARCS users shall have the ability to view and program proximity card privileges and access rules.
6. Provide the Owner with the appropriate tools to program and/or encode proximity cards from one or multiple PARCS workstations.
7. Proximity cards with a mill thickness equal to that of a standard payment card.
8. Anti-passback capabilities that can be turned on or off at the Owner’s discretion for individual users, groups of users, or entire system.
9. Report the occupancy of proximity card customers in real-time.
10. Provide configurable user group parameters and rules that are accessible and changeable by the Owner on any of the PARCS workstations. Software code changes shall not be required to edit user group parameters and rules.
11. User groups and individuals within the user groups will each have the capability of being assigned access privileges based upon, date, day of week, time of day, or any combination thereof.
12. Upon reading the proximity card the display window will provide a welcoming or thank you message to include the users name and company (programmable message).

Q. LPR System Capabilities and Integration with PARCS

1. The LPR system consists of all hardware and software necessary to provide a complete and functional LPR system that achieves the Owner’s required functionality and accuracy, and that does not adversely affect any function of the PARCS.
2. Provide an LPR subsystem that is fully integrated into the PARCS, including tying the OCR (Optical Character Recognition) captured at entry to the unique ticket identification or other entry credential information, such as registered monthly parker license plate, for every transaction. Should the entry information need to be obtained at an exit station to process the transaction (i.e., lost ticket, unreadable, etc.), both the OCR and ticket is to be removed from their respective active inventories once the vehicle has exited.
3. Provide software with separately adjustable retention periods for LPR images and OCR text. Retention or discarding of either data type has no effect on the remaining data record if separate retention periods are kept. Data is purged after the retention period. Provide a retention period at least as short as one day and at least as long as 180 days.
4. Provide standards-based capability to receive text license plate characters from external sources through API that can be used for alerting purposes through System’s existing software-based alerting methods.

R. LPR CAMERASFurnish and install image capture cameras including any lights or shade canopies necessary at all public entry and exit lanes to provide system functionality in any amount of ambient light.
2. Provide theft deterrent and vandal resistant housings and fasteners for lane equipment.
3. Determine the exact location of each device, subject to Owner approval.

4. Entry and exit images to be pre-capture, meaning that the cameras are placed such that a vehicle's license plate is photographed before the parking credential has been issued or accepted by the entry/exit device**.**
5. Preferred method of illumination for license plate capture is a combination of infrared and natural/white light. If Contractor believes white light illumination is not required, Contractor is to explain the reason for this.
6. Provide protection for LPR cameras from passing vehicles.

S. LPR Image Review Workstation (IRW)

1. IRWs to be provided by the Owner, with all necessary LPR software installed by the Contractor. It is acceptable for the IRW to be the same workstation as is used for the PARCS administration and reporting.
2. Provide an operator with the ability to review and correct LPR data and manage LPR exception transactions at the entries and exits.
3. Automatically send correction and exception transactions to the first available IRW and remove the exception from all system workstations after it has been successfully resolved.
4. Capability of reviewing and correcting entry images after the fact; that is after the vehicle has entered the parking facility. No time limit is to be stipulated for after the fact entry lane OCR correction, therefore, entry lane corrections can be made during off-peak transaction processing time.

T. LPR System Performance Requirements

1. Acquire an image of a vehicle's entire license plate at a 99.5 percent (99.5%) or higher rate for all non-exception vehicles as defined within this section. The intent of the 99.5% capture rate is to have a visual record of 99.5% of all non-exception license plates entering the facility.
2. Achieve an N Factor rating of 94% meaning specifically that the LPR Subsystem is to read all license plate characters, exclusive of stacked characters, correctly ninety-four percent (94%) of the time for all non-exception vehicles as defined within this section. Missing, misread, or additional characters as determined by the LPR Subsystem is to be counted against the read accuracy. (i.e., if a license plate contains six standard characters "ABC123", then N=6. Therefore, in order for the system to achieve an N read, the system must return the license plate "ABC123" exactly.) Additional characters added before or after the license plate characters are to count against the read rate. (i.e., "1ABC123" would not constitute an N read.)
3. Achieve an N-1 Factor rating of 98% meaning specifically that the LPR Subsystem is to read all but one character, exclusive of stacked characters, correctly ninety-eight percent (98%) of the time for all non-exception vehicles as defined within this section. Missing, misread, or additional characters as determined by the LPR Subsystem are to be counted against the read accuracy. (i.e., if a license plate contains six standard characters "ABC123", then N=6. Therefore, in order for the system to achieve an N-1 read, the system must return "xBC123", "ABC12x", etc.) Additional characters added before or after the license plate count against the read rate.
4. Exception vehicles will not count against the accuracy of the LPR Subsystem. For the purposes of the LPR performance requirements an exception vehicle is defined as:

a. Any vehicle whose license plate is obstructed, obscured, or encroached upon by a foreign object.
b. Oversized vehicles that have a total distance between the center of the drivers' side window and the end of the rear bumper greater than 15 feet.
c. Vehicles that contain excessive graphics and advertising such that it is impossible for the LPR system to determine which graphics belong to the license plate and which graphics do not.
d. Vehicles with no license plate, or relocated to a window and not in the OEM location.
e. Vehicles with temporary cardboard "Dealer Plates."
f. Damaged plates.
g. Plates from locations other than the U.S., Canada, and Mexico.
h. Motorcycles.

5. Ambient lighting conditions are to have no effect on the accuracy of the LPR system regardless of the time of the day and night. Contractor to provide any necessary shading or lighting elements required to mitigate the effect of the ambient lighting conditions on the LPR system performance.
6. Provide a means, subject to approval by the Owner, to remotely score the LPR Subsystem to ensure it meets the performance requirements. Assist the Owner in transferring images from each lane to a storage format such as CD-ROM, DVD, memory stick, or uploaded to an FTP site that can then be viewed and scored on a standalone PC by the Owner or their designated representative. Owner is to be able to select any images stored on the LPR database for scoring purposes. The Contractor to provide all software needed to test the LPR Subsystem's performance. The software is to be able to be downloadable to a standalone PC used for testing.

U. Integrated Signage:

1. Dynamic Message Sign (DMS)

a. Provide DMS per Drawings
b. Full color 8 mm LED with variable message.
c. Changeable messages easily programed and controlled through GUI.
d. Pre-programmed messages:
1) Closed
2) Pre-paid Only
3) Open
4) Contract Parking Only
5) Credit Card Only
6) Cash or Credit

2. Traffic Control Sign
a. Provide green LED arrows and red LED X's, to indicate individual lane status.
b. Locate per drawings.
c. Dual LEDs in red and green to indicate lane status.

2.7 SOURCE QUALITY CONTROL

A. Internal Contractor Tests

1. All equipment to have successfully passed formal manufacturing tests and quality assurance inspections to validate compliance with these functional specifications prior to the start of installation. Records for formal internal Contractor testing and inspection for performance, materials quality and/or workmanship to be maintained by the Contractor and made available if requested by the Owner prior to the start of installation or at any point during the execution of the Contract.
2. Have readily available proof of product reliability analysis and testing should reliability become a problem at any time from the beginning of installation testing through the final operational test period.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Meetings: Meet with Electrical Contractor, before any rough-in work begins to:

1. Review building plans as related to PARCS equipment.
2. Discuss details and/or precautions to assure that all PARCS equipment functions properly.
3. Determine that all required conduits and wiring are properly laid out.

B. Site Verification of Conditions: Verify all existing conditions in the field prior to implementation. In the event that conditions in the field are different from the conditions described and shown in the Drawings, the Contractor shall notify the Owner in writing of the exact differences and shall inform the Owner in writing of any implications the differences have on the project.

C. Examine location of all equipment and office equipment to determine if there are any constraints of conflicts before office equipment installation.

D. Examine roughing-in for electrical systems to verify actual locations of connections before parking control equipment installation.

E. Additional Wiring: Provide all additional conduit and wiring which is needed for total system performance but which was not noted on Contract Documents at no additional cost to Owner.

F. Verify that all required PARCS conduits and wiring is properly located and installed prior to installing PARCS equipment.

G. Verify equipment layout in accordance with manufacturer’s recommendation to allow proper movement of air through and around equipment.

H. Test, adjust and interface circuits prior to installation of PARCS equipment.

I. Coordinate with Owner or Owner’s Representative location and type of internet connection required for all external communications, i.e. payment card authorization/settlement, remote access, etc. within 30-days after award of contract.

J. Examine substrates, areas, and conditions for compliance with requirements for installation tolerances, including equipment bases; accurate placement, pattern, and orientation of anchor bolts; critical dimensions; and other conditions affecting performance of the Work.

K. Investigate adequacy and quality of electrical power to all existing lanes, determine grounding requirements and notify Owner in writing prior to submission of shop drawings of any requirements for new power service, conduit, wiring or grounding.

L. Investigate existing communications conduit to all existing lanes and notify Owner in writing prior to submission of shop drawings of any requirements for replacement, relocation or extension of existing conduit not already identified for replacement or relation.

M. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Coordinate installation, staging, and power connections with various trades to ensure a coordinated effort.

B. Attend regularly scheduled project meetings.

3.3 INSTALLATION

A. Verify that the installation locations are prepared and ready to have the equipment installation completed. The Contractor to notify the Owner, in writing, if the Contractor finds that the installation location is not prepared for installation due to unfinished work outside of the Contractor's scope of work. The written notification to provide detail of the elements that are in need of modification in order to prepare the location for equipment installation.

B. Proceed with installation only after unsatisfactory conditions have been remedied.

C. Install all PARCS equipment per equipment manufacturer recommendations.

D. Any patches, upgrades, updates, or modifications to the PARCS software during the installation period require appropriate documentation and approval before the modification is made.

E. During installation and the warranty period, the Owner will attempt to make available to the Contractor an area to serve as an office/work area for the technicians that support the system. It is the responsibility of the on-site technicians to keep the office/work area clean and free of all hazards.

F. PARCS System Access

1. During installation, warranty, and post-warranty, real-time communication between the PARCS servers and the Contractor's software support team for supporting the system may be required. This communication will be via an Owner-provided VPN

connection and will be required to go through the firewall to get onto the Owner's network to access the PARCS servers.

2. Coordinate with the Owner to obtain VPN access to the Owner network and set up user accounts.
3. Each individual accessing the Owner network is required to have an account. Group accounts are prohibited.

3.4 FIELD QUALITY CONTROL/ACCEPTANCE TESTING

A. Lane Acceptance Test (LAT)

1. Conduct LATs as a demonstration to the Owner or its representatives that the installed equipment complies with the Contract, the Contractor's product data, and to other documentation, such as user manuals.
2. When a PARCS equipment location installation has been completed, the Contractor shall conduct its internal testing of the installed equipment. Internal testing shall follow the identical LAT test procedures that shall be used during LATs observed by the Owner.
3. Upon successful completion of the Contractor's test, the Contractor and the Owner will perform the LAT to verify performance. The LAT shall only be observed by the Owner after a fully completed and signed test script verifying successful completion of the Contractor's internal lane testing is submitted. Signed internal test scripts shall be submitted at least one calendar day prior to the scheduled test with the Owner.
4. LATs shall be conducted for each PARCS entry lane, exit lane, PIL, and POF and shall include tests of PARCS equipment and software. The Contractor shall not activate the system for service until all LATs have been successfully completed for each lane or device and the Owner has notified the Contractor that it is ready to put the equipment into operation.
5. The Contractor shall provide test procedure documents for LATs as part of the Test Plan in accordance to the submittal guidelines. LAT Test Procedures Documents shall be provided for each count location type and test procedures shall include the following sections:

    a. Narrative describing the general procedures to be followed;
    b. Definition of all minor and major deviation types;
    c. Checklist of all items necessary to conduct the test (e.g. PARCS devices included in the test, consumables, validations, payment cards for payments, vehicles, etc.);
    d. Checklist for the components of each PARCS equipment location;
    e. Signature page for all LAT participants' signatures;
    f. Step by step instructions for testing each functionality;
    g. Tests for verifying the reporting requirements;
    h. Area within each test section to denote "pass" or "fail"; and
    i. Section for listing and describing test deviations.

6. The Contractor shall provide all ancillary items necessary to complete the LATs for testing purposes. In addition, the Contractor shall make available sufficient personnel to perform the LAT in an efficient and timely manner.

7. The LAT shall be considered successfully completed when all components have passed their respective test procedures and all test documents have been signed by the Owner and Contractor. Minor deviations resulting in the creation of punch list items shall not be considered grounds for failure of the overall LAT. Major deviations found during the LAT shall result in the retest of the lane or device. The Contractor shall agree to credit the Owner from its total contract value for any travel and/or labor costs incurred by the Owner or its representatives as a result of additional effort required to retest failed devices.
8. Minor deviations are any failure that does not affect system functionality, fee calculation accuracy, transaction count accuracy, exception count accuracy, active ticket inventory accuracy (system vs. actual), transaction processing, payment card processing, calculations, or report accuracy.
9. Major deviations are any failures that affect system functionality, fee calculation accuracy, transaction count accuracy, exception count accuracy, active ticket inventory accuracy (system vs. actual), transaction processing, payment card processing, calculations, or report accuracy.

B. Operational Demonstration Test (ODT)

1. The ODT shall be comprised of all equipment, systems, and subsystems performing under actual conditions, e.g., Customer use, normal activity recording, and reporting procedures. This ODT shall demonstrate, over a period of 30 consecutive calendar days, the successful performance of all aspects of the PARCS.
2. During the ODT only routine maintenance procedures, as defined by the preventative maintenance procedures manual and according to industry standards, shall be permitted. All other maintenance procedures shall be approved in writing by the Owner before they are performed; otherwise, they shall constitute a failure of the ODT and a mandatory restart.
3. The Owner reserves the right to be present for all maintenance services during the ODT.
4. For purposes of the ODT, a subsystem is defined to be any one of the following:

    a. PARCS Application Software
    b. Data Communication System
    c. PARCS Servers
    d. PARCS Entry Lanes
    e. PARCS Exit Lane
    f. APMs
    g. Proximity Card Access System
    h. AVI System
    i. Intercom System
    j. PARCS Reporting System

5. The ODT shall begin after successful completion of all LATs on a date mutually selected and agreed to in writing by the Owner and the Contractor at a time designated by the Owner. The ODT monitors system performance of the entire system operating as a single unit. The Contractor shall submit an ODT test document as part of their Test Plan in accordance with the submittal requirements. ODT test documents are intended to outline procedures for monitoring the overall

performance of the PARCS and shall not include test procedures for individual components. The ODT test documents shall include:

a. Narrative describing the general procedures to be followed
b. Methodology for calculation of downtime and accuracy for the various PARCS components
c. Electronic tracking document to be used during the ODT period for documenting failures and downtime

6. The ODT shall continue for 30 consecutive 24-hour periods during which all the performance criteria, stated below, shall have been met. If during the 30-day period the system fails to meet any one of the following specified performance criteria, the test shall begin anew on a day agreed upon by the Owner and the Contractor. The Contractor shall agree to credit the Owner from its total contract value for any travel and/or labor costs incurred by the Owner as a result of retesting the system.
7. The performance criteria for successful completion of the ODT shall include:

a. No individual subsystem shall be operationally unavailable for four or more hours cumulative during the 30-day test period.
b. No individual subsystem shall be operationally unavailable for more than two consecutive hours.
c. If any single component fails more than once during the 30-day period for the same reason, it shall be replaced upon the second failure with a newly manufactured component of the same type and the test shall continue.
d. No component of a given type shall fail more than three times during the 30-day test period for the same reason. Upon the fourth failure all components of that type shall be replaced or modified to correct the common deficiency, and the test shall be restarted from the beginning.

8. In addition to the PARCS reports generated during the ODT, the Contractor shall provide to the Owner a one-page summary report that clearly provides the overall percentage of system downtime and causes of that down time.
9. The Contractor shall provide to the Owner a corrective action report that provides a detailed description of each failure that occurs during the ODT. The corrective action report shall include the type of failure, why the failure occurred, what was done to remedy the failure, and whether or not the failure resulted in a restart of the ODT.
10. A subsystem shall be considered unavailable as long as any major component of the subsystem is not functioning.
11. An inoperative subsystem shall not be deemed unavailable if it has become inoperative because of:

a. Outage of line power beyond required duration of UPS power backup
b. Malicious damage or vandalism to a component(s) by employees, customers or others
c. Network connectivity issues beyond the PARCS
d. PARCS failures due to issues and/or failures outside of the Contractor’s control
e. Failures caused by a 3rd party
f. Act of God

12. Should a failure occur in the system that is caused by normal hardware failure, it shall be repaired and the test resumed with downtime accrued. Where the failure causes inadequate test data to be collected or a loss of test data, then the test shall be restarted from a point where it can be successfully completed with data to verify compliance with the Contract and the test procedures document.
13. If the system “crashes” during a test, then the test shall be stopped. “Crash” is defined as a failure in which the PARCS cannot properly process vehicles or record transactions. The Contractor shall analyze the cause of the system “crash,” document the cause in a system problem report, responsively repair the flaw, and document the repair in a corrective action report.
14. Where corrective action impacts delivered documentation, the documentation shall be corrected prior to Final System Acceptance.
15. Upon formal written approval of the corrective action report by the Owner, testing may continue if a problem has been encountered as long as the Contractor can clearly demonstrate that the failure is associated only with one function of the system, corrective action has been taken to remedy the failure, and the corrective action shall not impact other areas of the system.
16. Where the system does not perform a function or incorrectly performs the function but the system does not crash, testing may continue, as long as the function is corrected and all of the following conditions are met:

    a. the functionality of processing vehicles and recording transactions works properly according to the Contract
    b. no personnel, vehicle or driver safety issues exist
    c. PARCS applications continue to function normally
    d. failure does not cause loss or contamination of data
    e. all reports are 100% accurate.

17. Where the above criteria are not met, the test shall be stopped and corrective action taken and verified prior to testing restart.
18. During the test, the continued availability of the system shall be demonstrated. Where a failure occurs that causes data loss, system instability (crash), and/or contamination of the data and the database, the Contractor shall immediately correct the problem. Testing shall continue until a consecutive 30-day period of stable operation is achieved. Stability is defined as the proper functioning of the PARCS with a failure having no impact on the continued system operation or on the integrity of data.

C. Punch List

1. Starting with the beginning of installation through Final System Acceptance, the Contractor shall submit a document on a weekly basis showing the status of all outstanding system issues, regardless of severity, including the plan for resolution and estimated completion date.
2. All deviations noted during acceptance testing shall be recorded on the Punch List.

D. Final System Acceptance

1. Final System Acceptance will be submitted by the Owner, in writing to the Contractor, upon successful completion of all acceptance tests, and upon

verification by the Owner of complete resolution of all outstanding items on the Punch List.

3.5 INSTRUCTION AND TRAINING

A. By means of instructional classes augmented by individual instruction as necessary, the Contractor shall fully instruct the Owner's designated staff in the operation, adjustment, and maintenance of all products, equipment, and systems.

B. Coordinate scheduling of instruction and training classes with Owner to avoid conflicts and peak-period personnel demands. Submit a proposed instruction schedule at a joint meeting conducted prior to equipment installation. Owner will tentatively approve or suggest changes to the training schedule at that time.

C. Submit an outline of the instruction material and approximate duration of the session. Ample time shall be allotted within each session for the Contractor to fully describe and demonstrate all aspects of the PARCS, and allow Owner personnel to have hands-on experience with the PARCS.

D. All instruction courses to consist of classroom instruction and actual "hands-on" experience. Classes to be set up in a room designated by the Owner. Provide one instructor for the duration of each program.

E. The instructor shall speak fluent English in a clear and precise manner.

F. The class material shall include schematics, as well as an overview and descriptions of the equipment.

G. The Contractor shall provide all documentation required for instructing Owner personnel. The Owner retains the right to copy training materials as frequently as required for ongoing internal use only.

H. An instructional notebook or user's manual shall accompany every instruction course. The Contractor shall submit a hardcopy of the user's manual per the submittal guidelines. In addition, all manuals (instruction and maintenance) shall be submitted in electronic format (.PDF) on a CD-ROM or DVD. The user's manuals shall be written in common English with appropriate photos, diagrams, and schematics to supplement the text.

I. Training classes to be provided for the following groups:

1. Cashiers
2. Supervisors
3. Image Reviewers
4. System Administrators
5. Accounting/Audit
6. Maintenance Staff

3.6 EQUIPMENT PROTECTION

A. All above ground equipment components installed near drive isles shall be protected from damage by vehicular movements by protective bollards or other barriers as recommended by the Contractor. Contractor is responsible for final bollard location to ensure installed bollard does not prevent access to the PARCS devices or interfere with the travel path of PARCS access doors.

B. Each above ground island-mounted device shall be protected by one or more bollards.

END OF SECTION 11 12 26

Appendix A

Vendor Evaluation and Selection Process

INITIAL EVALUATION CRITERIA

Proposals will be screened to ensure that they meet the minimum requirements of the proposal format. A selection committee will review qualifying proposals and select Vendors for placement on the Vendors short-list for the project. The following criteria are among those that will be used to initially evaluate submitted proposals:

1. Proposed Solution Functionality and Technical Design:
    a. This criteria pertains to system functionality and design, including the experience of parking customers, and the City as the parking owner and operator. Aspects of the parking experience include accepting payment, event parking, navigating the devices, equipment, conducting enforcement, and collecting and reviewing data.

2. Proposed Approach approach/methodology completing the scope of services such as:
    a. Logic and convenience of the proposed approach and methodology relative to the city's needs. Compatibility of the proposed approach and methodology to city policies and practices in administering this type of public improvement project.
    b. Grasp of project requirements and level of interest in the project.
    c. Creativity and problem-solving ability.

3. Experience, Qualifications, and References
    a. Experience and qualifications of all team members (including any sub-consultants) executing similar projects for municipalities similar to Dubuque, including in size, geographic market, weather conditions, and customer/user profile.
    b. Quality of references provided, similarity of references to Dubuque, and quality of feedback received from references.
    c. A Track record of the all vendor team members working together.

4. Ongoing System Maintenance and Support.

5. Proposed schedule required to complete project.

6. Cost of the proposed project.

VENDOR SHORT-LIST EVALUATION CRITERIA

The RFP selection committee may choose to interview one or all of the short-listed Vendors. Both the original submitted proposals and the results of any Vendor interviews and professional references will be used to select the final Vendor for the project. The following criteria are among those that will be used to evaluate the Vendors on the short-list:

1. Proposed Solution Functionality and Technical Design:
    a. This criteria pertains to system functionality and design, including the experience of parking customers, and the City as the parking owner and

operator. Aspects of the parking experience include accepting payment, event parking, navigating the devices, equipment, conducting enforcement, and collecting and reviewing data.

2. Proposed Approach approach/methodology completing the scope of services such as:
    a. Logic and convenience of the proposed approach and methodology relative to the city's needs. Compatibility of the proposed approach and methodology to city policies and practices in administering this type of public improvement project.
    b. Grasp of project requirements and level of interest in the project.
    c. Creativity and problem-solving ability.

3. Experience, Qualifications, and References
    a. Experience and qualifications of all team members (including any sub-consultants) executing similar projects for municipalities similar to Dubuque, including in size, geographic market, weather conditions, and customer/user profile.
    b. Responsiveness and compatibility between the Vendor and City, including general attitude and ability to communicate and be a high-quality team player, ability of the Vendor to maintain a high level of direct interaction and communication with city staff, ability to listen, be flexible, and follow and/or implement direction and/or ideas or concepts.
    c. A Track record of the all vendor team members working together.

4. Ongoing System Maintenance and Support.

5. Proposed schedule required to complete project.

6. Cost of the proposed project.

7. Overall success of past installations and system operational functionality with other municipalities and/or other system operators.

For the ranking of the Vendors during both the initial evaluation and the short list evaluation, the RFP Selection Committee shall use the RFP Scoring Matrix. The RFP Scoring Matrix has weights assigned to the above listed criteria. The Vendor ranked highest after the scoring matrix is completed will be recommended for the award of this project by the RFP Selection Committee. The RFP Scoring Matrix can be found using the hyperlink provided in Appendix D.

SELECTED CONSULTANT - FEE NEGOTIATION PROCESS

Upon the successful completion of the Vendor RFP review process, the RFP Selection Committee will recommend to the City Manager, the awarding of a contract to the highest ranked Vendor. Upon consensus of the award recommendation between the RFP Selection Committee and the City Manager, the City Manager will then make a formal recommendation of award to the Dubuque City Council. The City Manager will also request authority from the Dubuque City Council to negotiate with the

recommended Vendor a final scope of work and fee structure for the project, and for the authority to execute a contract with the Vendor awarded this project by the City Council.

After authority is granted to negotiate an agreement and execute a contract with a Vendor, the Vendor and city staff shall jointly prepare a final detailed scope of work with a set fee. After the final scope of services has been determined, a fee has been negotiated, the City shall incorporate these documents into the Contract Documents being prepared for signature.

If a contract satisfactory and advantageous to the City can be negotiated at a price considered fair and reasonable, the award shall be made to that offerer. Otherwise, negotiations with the offerer ranked first shall be formally terminated and negotiations commenced with the Vendor ranked second, and so on until a contract can be negotiated that is acceptable to the City.

The City Council has the authority to reject all proposals, and if desired issue a new RFP and seek new proposals.

Payment for Work: The Vendor with an executed contract with City shall be paid once monthly. The invoiced amount shall be based on the percent work completed as reported on as part of the monthly submitted payment application.

Appendix B

RFP Rules and Protest Procedure

MINOR IRREGULARITIES

The City reserves the right to waive minor irregularities in submitted proposals, providing such action is in the best interest of the City. Minor irregularities are defined as those that have no adverse effect on the City's best interests and will not affect the outcome of the selection process by giving the prospective Vendor an advantage or benefit not enjoyed by other prospective Vendors.

EXCEPTIONS

Proposer exceptions to any part of the requirements stated in this request must be clearly identified as exceptions and noted in the letter of transmittal and in the submitted project cost estimate.

RANKING OF THE PROPOSALS

No debriefings or scoring information shall be released before the City Manager has recommended that a contract be negotiated with the recommended Vendor. However, after authorization has been granted to negotiate a contract, all contents of the submitted proposals shall become public information.

DEFINITIONS

The City has established for the purposes of this RFP that the words "shall", "must", or "will" are equivalent in this RFP and indicate a mandatory requirement or condition, the material deviation from which shall not be waived by the City. A deviation is material if, in the City's sole discretion, the deficient response is not in substantial accord with this RFP's mandatory conditions requirements.

The words "should" or "may" are equivalent in this RFP and indicate very desirable conditions, or requirements but are permissive in nature. Deviation from, or omission of, such a desirable condition or requirement will not in and of itself cause automatic rejection of proposal but may result in being considered as not in the best interest of the City.

DISPUTES/EXCEPTIONS

Any prospective Proposer who disputes the reasonableness or appropriateness of any item within this RFP document, any addendum to this RFP document, notice of award or notice of rejection shall set forth the specific reason and facts concerning the dispute, in writing, within five (5) business days of the receipt of the proposal document or notification from the City. The written dispute shall be sent via certified mail or delivered in person to the Jurisdiction Representative set forth in the RFP Documents Manual, who shall review the written dispute and work with the City Manager to render a decision which shall be considered final.

Appendix C

City of Dubuque Contract Terms and Conditions

TERMS AND CONDITIONS

The following clauses shall be included in the final signed contract:

1. VENDOR'S CONSULTANT ENDORSEMENT ON PLANS.

If required by Iowa law as part of the equipment installation, the Vendor shall hire an Iowa licensed design professional who shall endorse any part of the work prepared under this Agreement that is required to be so under the law. The design professional shall affix thereto the seal of a licensed professional engineer, or licensed professional architect, licensed to practice in the State of Iowa, in accordance with the current Code of Iowa.

2. CHANGE IN SCOPE OF SERVICES.

No change in scope shall be permitted during this project without the prior written agreement of both parties and a contract amendment being executed by both parties.

3. EXTRA WORK.

The Vendor shall monitor the approved project budget in relation to the specific tasks included in the approved scope of work and evaluate the work effort expended as it relates to the approved budget. Should additional work be required for a task beyond the currently authorized scope and budget, the Vendor shall submit in writing a request for additional compensation which will be considered by the City. If approved by the City, the Vendor shall not commence work on the extra work until the City has provided written approval of the request for additional compensation.

4. SUBSTITUTION OF PROJECT TEAM MEMBERS.

The Project Manager, partners, management, other supervisory staff and technical specialists proposed for the project may be changed if those personnel leave the Vendor. These personnel may also be changed for other reasons however, in either case, the City retains the right to approve or reject the replacements and no replacements shall begin working on the project without the express, prior written permission of the City of Dubuque.

5. INSURANCE.

Vendor shall at all times during the performance of this Agreement provide insurance as required by the attached Insurance Schedule.

6. INDEMNIFICATION.

To the fullest extent permitted by law, Vendor shall indemnify and hold harmless the City its officers, agents, and employees from and against all claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Contract, provided that such claim, damages, loss or expense is attributable to bodily injury, sickness, disease or death, or injury to or destruction of property (other than the Project itself) including loss of use resulting therefrom, but only to the extent caused in whole or in part by negligent acts or omissions of the Vendor, Vendor's subcontractor, or anyone directly or indirectly employed by Vendor or Vendor

subcontractor or anyone for whose acts Vendor or Vendor's subcontractor may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder.

7. TERMINATION.
City may terminate this agreement, with or without cause, upon providing 14 days written notice to the Vendor.

8. ERRORS & OMISSIONS.
In the event that the work product prepared by the Vendor is found to be in error and revision or reworking the work product is necessary, the Vendor agrees that it shall do such revisions without expense to the City, even though final payment may have been received. The Vendor must give immediate attention to these changes so there will be a minimum of delay during Implementation. The above and foregoing is not to be constructed as a limitation of the City's right to seek recovery of damages for negligence on the part of the Vendor herein.

9. OWNERSHIP OF PROJECT DOCUMENTS.
All sketches, tracings, plans, specifications, reports on special studies and other data prepared under this Agreement shall become the property of the City and shall be delivered to the Project Manager upon completion of the plans or termination of the services of the Vendor. There shall be no restriction or limitations on their future use by the City, except any use on extensions of the project or on any other project without written verification or adaptation by the Vendor for the specific purpose intended will be the City's sole risk and without liability or legal exposure to the Vendor.

The City acknowledges the Vendor's plans and specifications, including all documents on electronic media, as instruments of professional service. Nevertheless, the plans and specifications prepared under this Agreement shall become the property of the City upon completion of the services and payment in full of all moneys due to the Vendor.

The City is aware that significant differences may exist between the electronic files delivered and the respective Implementation documents due to addenda, change orders or other revisions. In the event of a conflict between the signed Implementation documents prepared by the Vendor and electronic files, the signed Implementation documents shall govern.

The City may reuse or make modifications to the plans and specifications, or electronic files while agreeing to take responsibility for any claims arising from any modification or unauthorized reuse of the plans and specifications.

10. SUBLETTING, ASSIGNMENT OR TRANSFER.
Subletting, assignment, or transfer of all or part of the interest of the Vendor in this Agreement is prohibited unless written consent is obtained from the Engineer and approved by the City.

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Appendix D

Project Related Data

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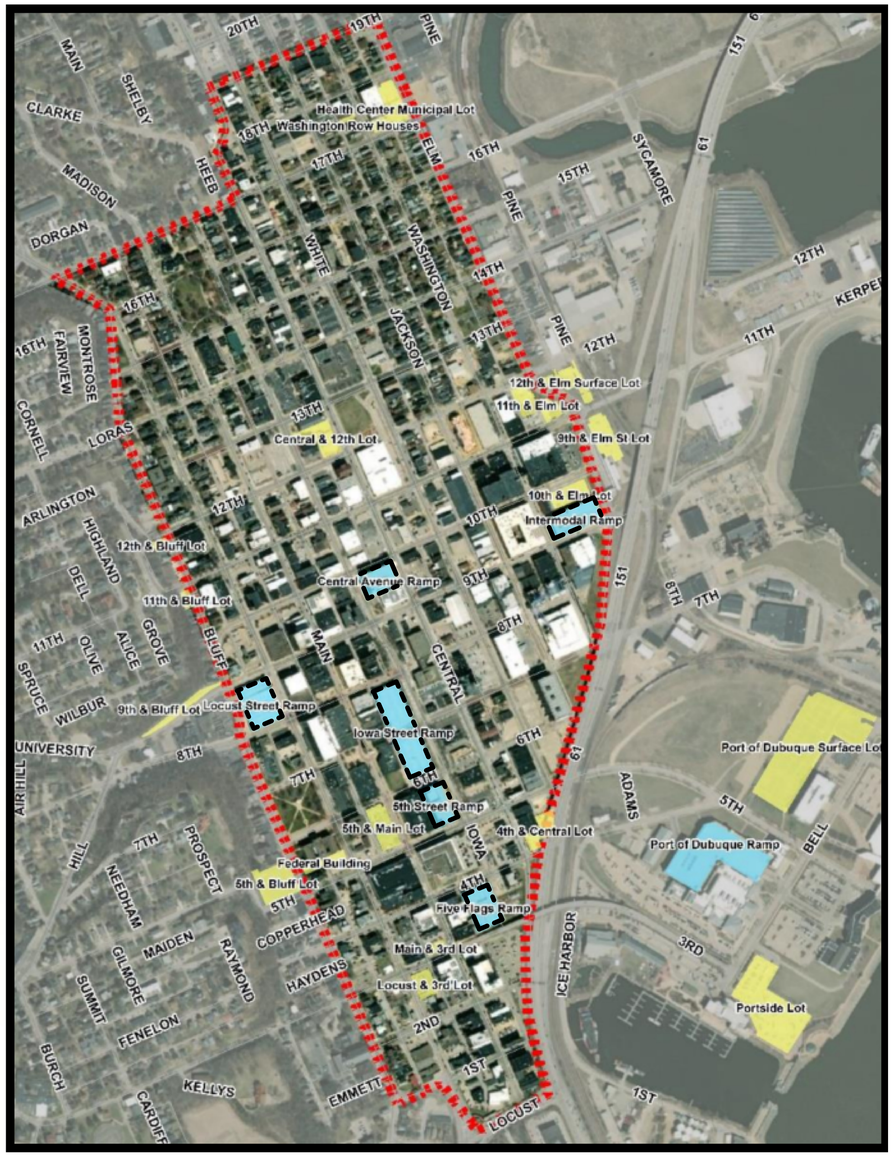
CITY OF DUBUQUE
PARKING SYSTEM
TECHNOLOGY & EQUIPMENT PROCUREMENT

DUBUQUE IOWA

SITE LOCATION PLAN



SHEET INDEX

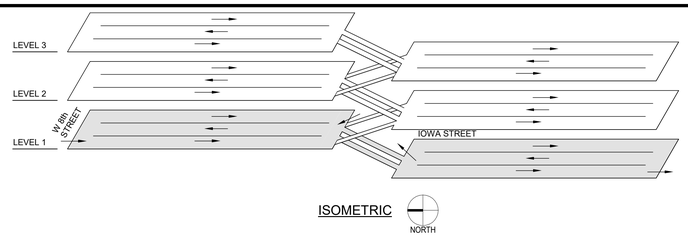
CONSTRUCTION DRAWINGS

02-06-2024

The City of Dubuque

Ryan Knuckey
Director of Transportation Services
City of Dubuque
950 Elm Street
Dubuque, Iowa 52001

WALKER PROJECT NO: 21-005202.00



ISOMETRIC

NORTH

EQUIPMENT LEGEND:

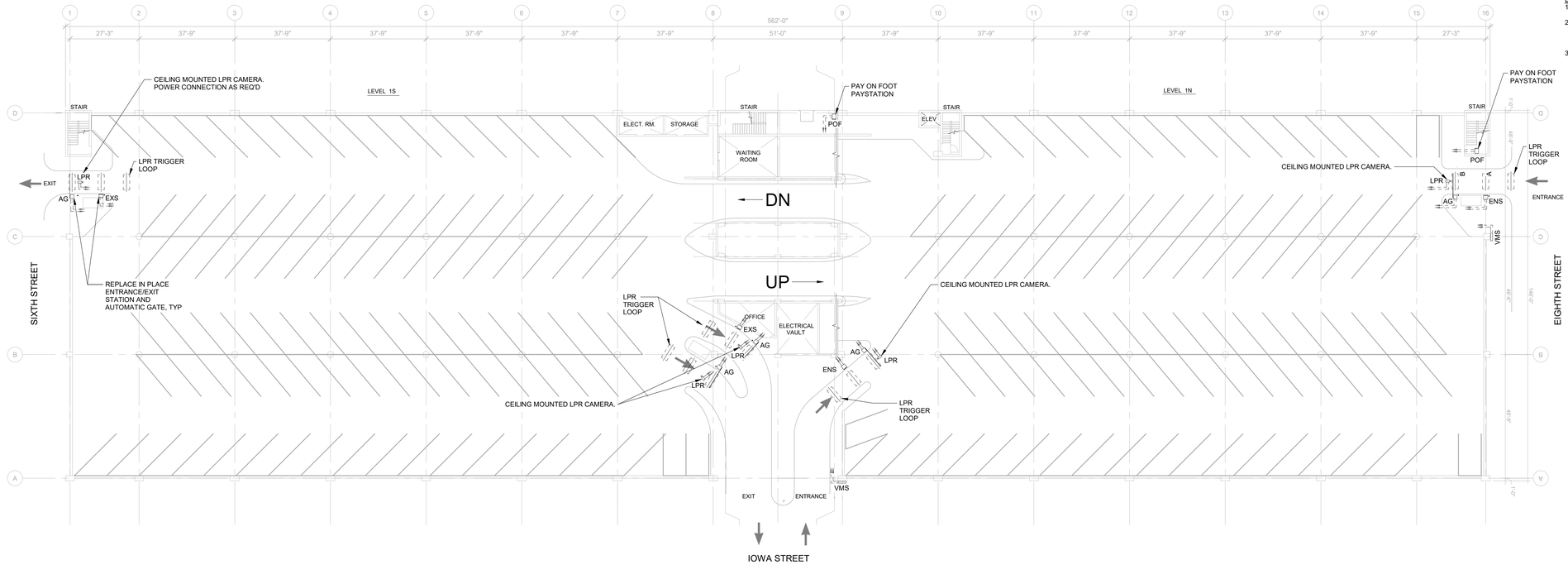
EQUIPMENT	DEFINITION
AG	AUTOMATIC GATE
6'-0" / 2'-6"	TYPICAL LOOP: EMBED IN SLAB-ON-GRADE
	BOLLARD - 4"ø SCHEDULE 40 PIPE GALVANIZED
VMS	VARIABLE MESSAGE SIGN
LPR	LICENSE PLATE RECOGNITION CAMERA
ENS	ENTRANCE STATION W/ INTEGRATED INTERCOM & CARD READER
EXS	EXIT STATION W/ INTEGRATED INTERCOM & CARD READER
POF	PAY ON FOOT PAYSTATION

GENERAL NOTES:

1. DRAWINGS ARE SCHEMATIC DIAGRAMS. PARCS CONTRACTOR TO COORDINATE FINAL CONDUIT QUANTITIES, SIZES, LOCATION OF CONDUIT STUB UPS, PROTECTIVE BOLLARDS, AND EQUIPMENT MOUNTING LOCATIONS.

ELECTRICAL NOTES:

1. ALL EXPOSED CONDUIT TO BE RIGID HOT DIPPED GALVANIZED.
2. COORDINATE WITH CIVIL AND ELECTRICAL DRAWINGS FOR POWER SUPPLY AND DATA LINE INTERFACES. FINAL LAYOUT OF EMBEDDED CONDUITS SUPPLIED BY PARCS VENDOR.
3. POWER AND COMMUNICATIONS SHALL BE ROUTED IN SEPARATE CONDUITS. VOLTAGE DROP SHALL BE LESS THAN 3%. CONDUITS AND CONDUCTORS SHALL BE SIZED PER THE NATIONAL ELECTRICAL CODE REQUIREMENTS. CONSULT ELECTRICAL ENGINEER FOR DETAILS.



1 IOWA STREET RAMP - LEVEL 1

1" = 20'-0"

N

WALKER CONSULTANTS
7760 France Ave S, Suite 820
Minneapolis, MN 55435
952.595.9116 Ph
www.walkerconsultants.com

THE CITY OF DUBUQUE
Masterpiece on the Mississippi

Dubuque 2007•2012 2017•2019

CITY OF DUBUQUE
PARKING SYSTEM
TECHNOLOGY & EQUIPMENT
PROCUREMENT

DUBUQUE IOWA

MARK	DATE	DESCRIPTION
	02/07/2023	CONSTRUCTION DRAWINGS
		REVISIONS
ISSUE:		CONSTRUCTION DRAWINGS
ISSUE DATE:		02-06-2024
PROJECT NO:		21-005202.00
DRAWN BY:		LPM
CHECKED BY:		BM/KW

SHEET TITLE:
IOWA ST RAMP LEVEL 1

Q-101

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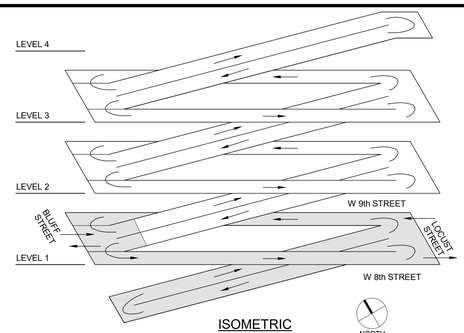

ISOMETRIC

EQUIPMENT LEGEND:

EQUIPMENT	DEFINITION
AG	AUTOMATIC GATE
6'-0" / 2'-6"	TYPICAL LOOP: EMBED IN SLAB-ON-GRADE
	BOLLARD - 4"ø SCHEDULE 40 PIPE GALVANIZED
VMS	VARIABLE MESSAGE SIGN
LPR	LICENSE PLATE RECOGNITION CAMERA
ENS	ENTRANCE STATION W/ INTEGRATED INTERCOM & CARD READER
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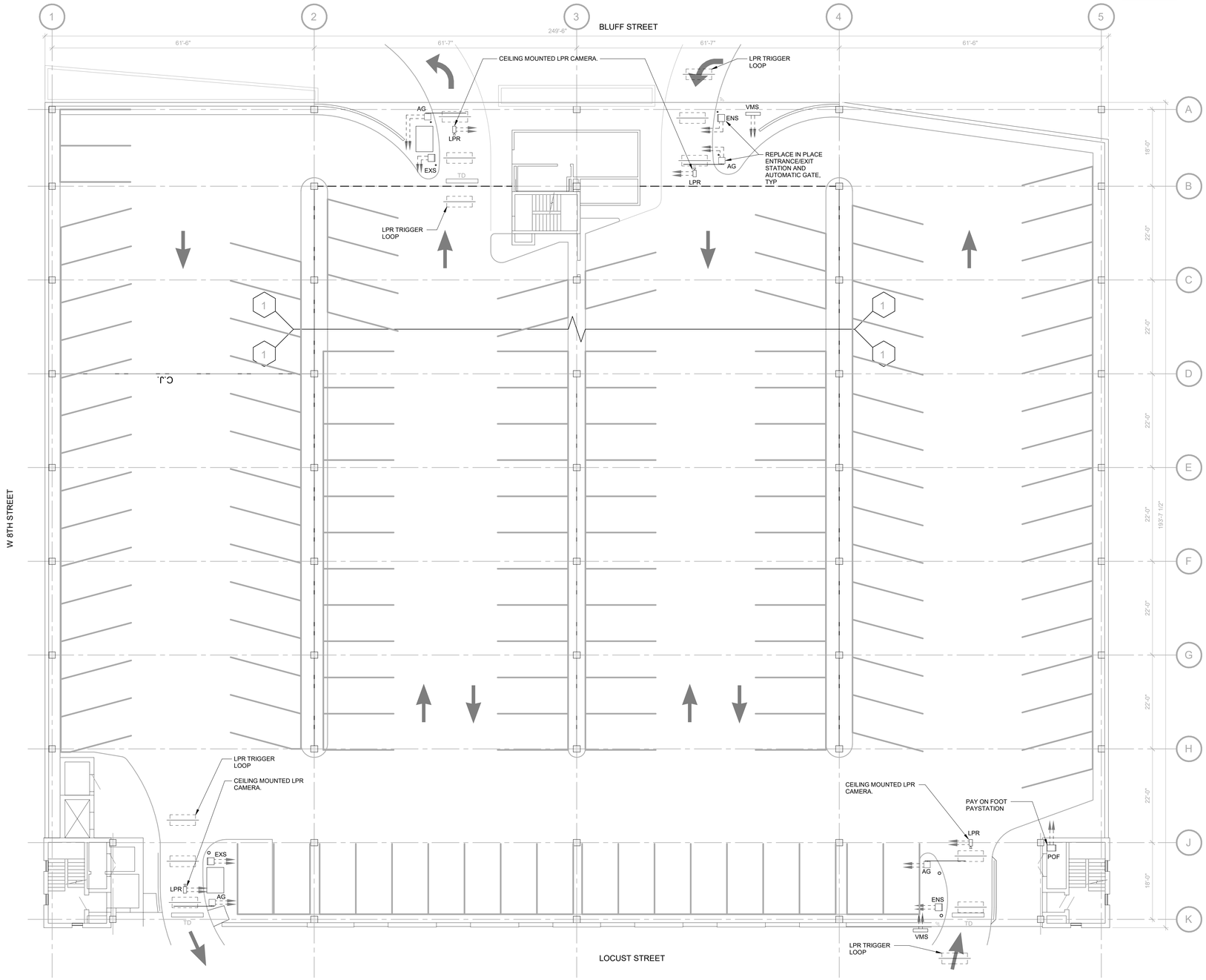

1 LOCUST STREET RAMP - LEVEL 1
3/32" = 1'-0"

GENERAL NOTES:

1. DRAWINGS ARE SCHEMATIC DIAGRAMS. PARCS CONTRACTOR TO COORDINATE FINAL CONDUIT QUANTITIES, SIZES, LOCATION OF CONDUIT STUB UPS, PROTECTIVE BOLLARDS, AND EQUIPMENT MOUNTING LOCATIONS.

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SHEET TITLE:
LOCUST ST RAMP LEVEL 1

Q-111

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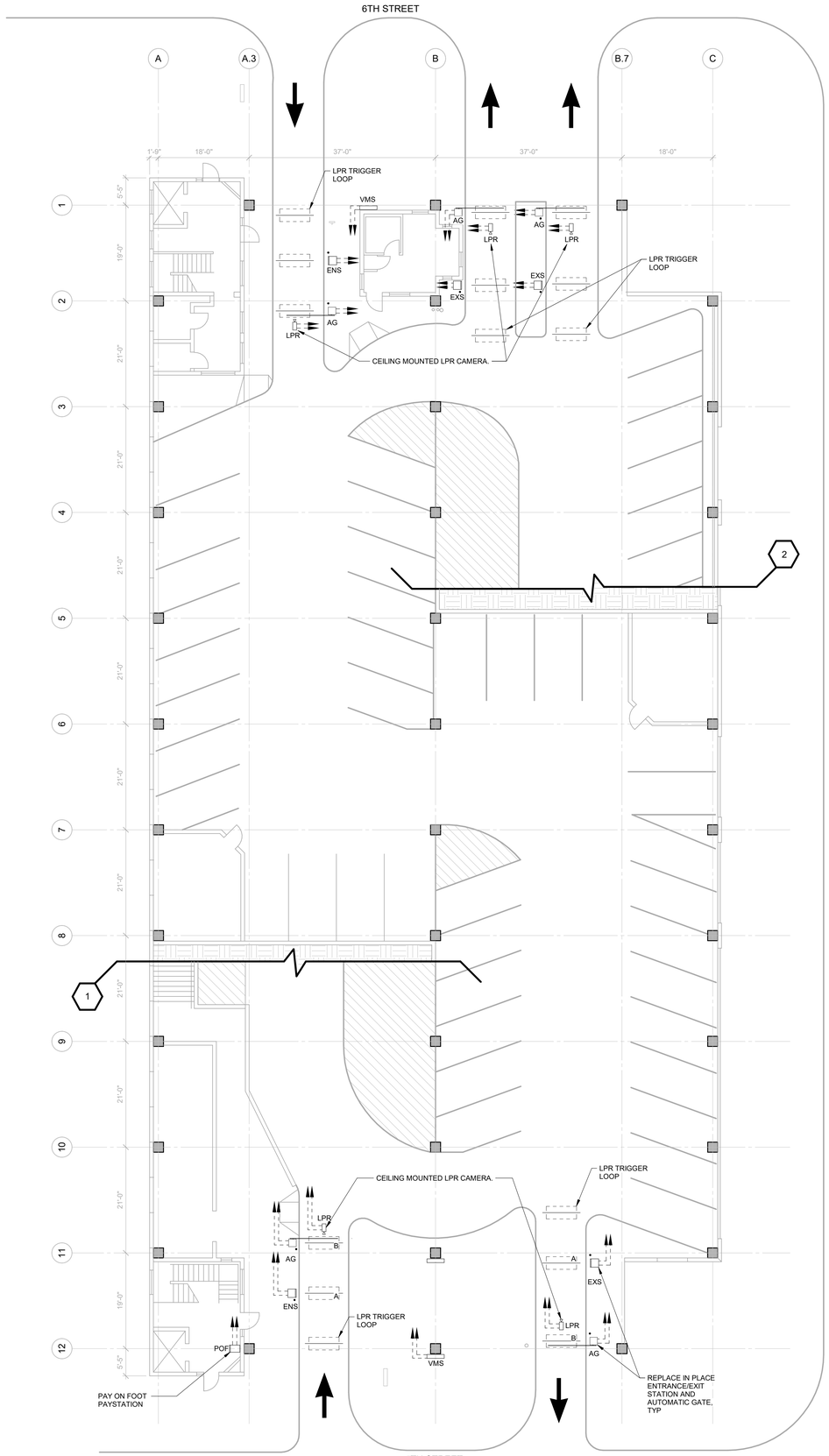
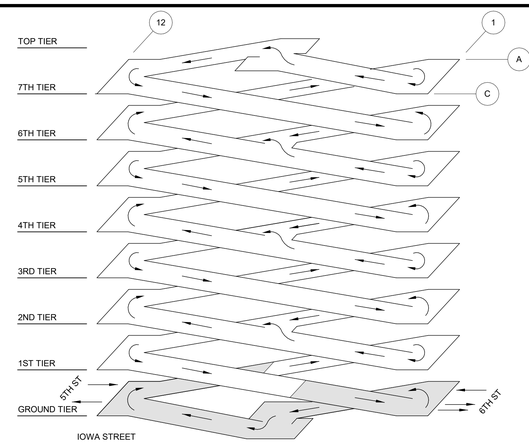


1 **5TH STREET RAMP - GROUND LEVEL**

3/32" = 1'-0"



ISOMETRIC LOOKING WEST

EQUIPMENT LEGEND:

EQUIPMENT	DEFINITION
AG	AUTOMATIC GATE
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ENS	ENTRANCE STATION W/ INTEGRATED INTERCOM & CARD READER
EXS	EXIT STATION W/ INTEGRATED INTERCOM & CARD READER
POF	PAY ON FOOT PAYSTATION

GENERAL NOTES:

1. DRAWINGS ARE SCHEMATIC DIAGRAMS. PARCS CONTRACTOR TO COORDINATE FINAL CONDUIT QUANTITIES, SIZES, LOCATION OF CONDUIT STUB UPS, PROTECTIVE BOLLARDS, AND EQUIPMENT MOUNTING LOCATIONS.

ELECTRICAL NOTES:

1. ALL EXPOSED CONDUIT TO BE RIGID HOT DIPPED GALVANIZED.
2. COORDINATE WITH CIVIL AND ELECTRICAL DRAWINGS FOR POWER SUPPLY AND DATA LINE INTERFACES. FINAL LAYOUT OF EMBEDDED CONDUITS SUPPLIED BY PARCS VENDOR.
3. POWER AND COMMUNICATIONS SHALL BE ROUTED IN SEPARATE CONDUITS. VOLTAGE DROP SHALL BE LESS THAN 3%. CONDUITS AND CONDUCTORS SHALL BE SIZED PER THE NATIONAL ELECTRICAL CODE REQUIREMENTS. CONSULT ELECTRICAL ENGINEER FOR DETAILS.

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Dubuque 2007•2012•2017•2019

CITY OF DUBUQUE
PARKING SYSTEM
TECHNOLOGY & EQUIPMENT
PROCUREMENT
DUBUQUE IOWA

MARK	DATE	DESCRIPTION
	02/07/2023	CONSTRUCTION DRAWINGS
		REVISIONS

ISSUE:	CONSTRUCTION DRAWINGS
ISSUE DATE:	02-06-2024
PROJECT NO:	21-005202.00
DRAWN BY:	LPM
CHECKED BY:	BM/KW

SHEET TITLE:
5TH ST RAMP GROUND LEVEL

Q-121

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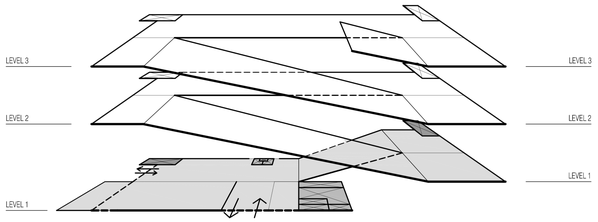
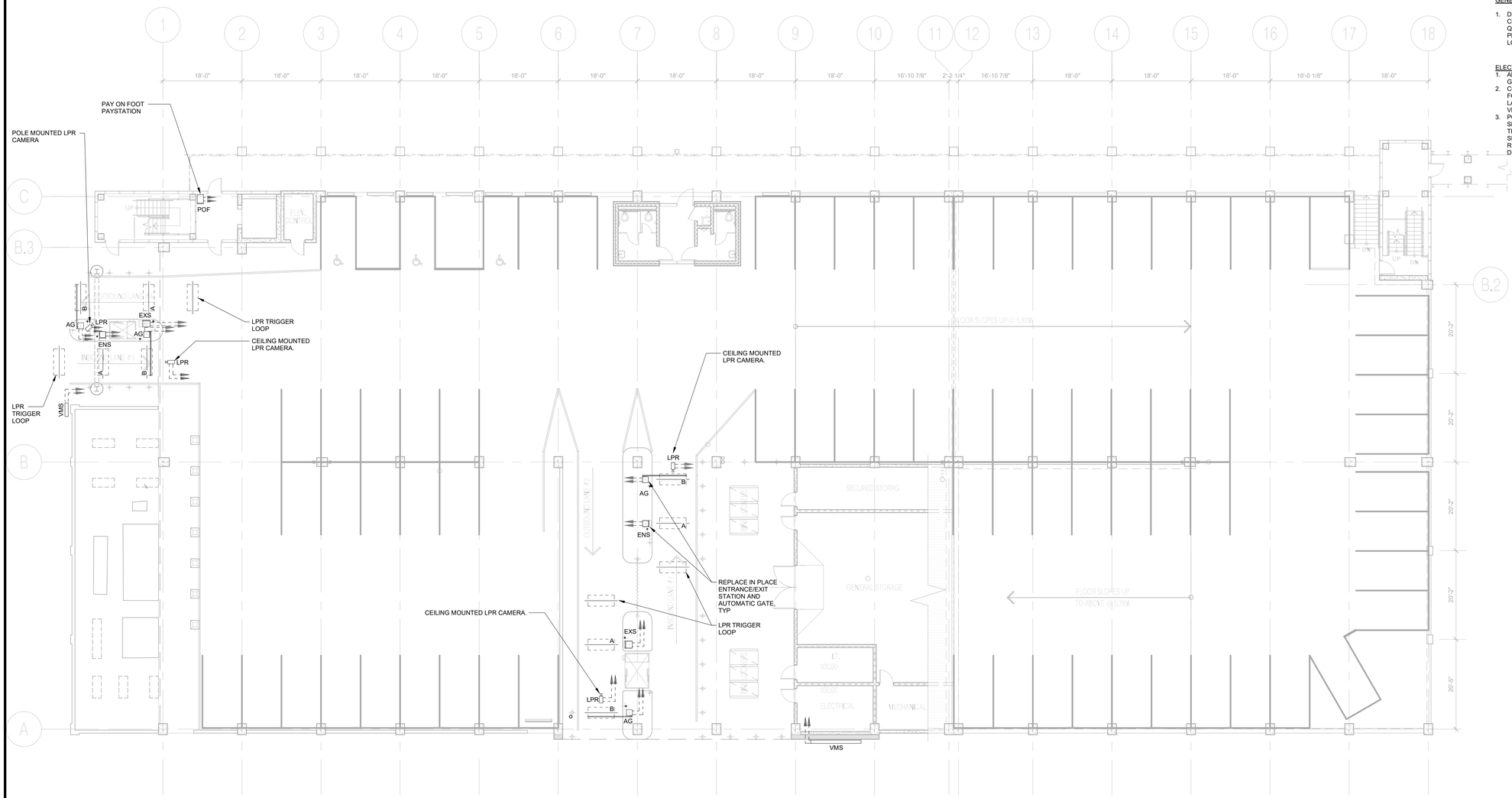


ISOMETRIC

NORTH

EQUIPMENT LEGEND:

EQUIPMENT	DEFINITION
AG	AUTOMATIC GATE
6'-0" / 2'-6"	TYPICAL LOOP: EMBED IN SLAB-ON-GRADE
	BOLLARD - 4"ø SCHEDULE 40 PIPE GALVANIZED
VMS	VARIABLE MESSAGE SIGN
LPR	LICENSE PLATE RECOGNITION CAMERA
ENS	ENTRANCE STATION W/ INTEGRATED INTERCOM & CARD READER
EXS	EXIT STATION W/ INTEGRATED INTERCOM & CARD READER
POF	PAY ON FOOT PAYSTATION



1 INTERMODAL RAMP LEVEL 1

3/32" = 1'-0"

GENERAL NOTES:

1. DRAWINGS ARE SCHEMATIC DIAGRAMS. PARCS CONTRACTOR TO COORDINATE FINAL CONDUIT QUANTITIES, SIZES, LOCATION OF CONDUIT STUB UPS, PROTECTIVE BOLLARDS, AND EQUIPMENT MOUNTING LOCATIONS.

ELECTRICAL NOTES:

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PROJECT NO:	21-005202.00
DRAWN BY:	LPM
CHECKED BY:	BM/KW

SHEET TITLE:
INTERMODAL RAMP
LEVEL 1

N

Q-131

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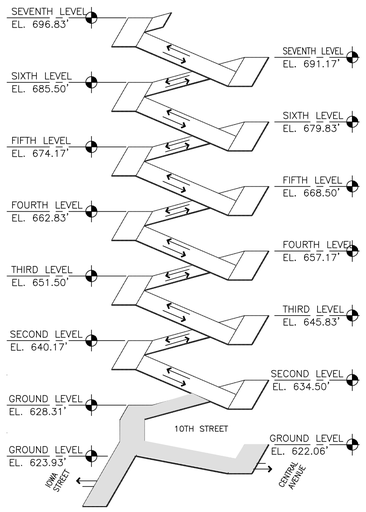

ISOMETRIC

NORTH

EQUIPMENT LEGEND:

EQUIPMENT	DEFINITION
AG	AUTOMATIC GATE
6'-0" / 2'-6"	TYPICAL LOOP: EMBED IN SLAB-ON-GRADE
	BOLLARD - 4"ø SCHEDULE 40 PIPE GALVANIZED
VMS	VARIABLE MESSAGE SIGN
LPR	LICENSE PLATE RECOGNITION CAMERA
ENS	ENTRANCE STATION W/ INTEGRATED INTERCOM & CARD READER
EXS	EXIT STATION W/ INTEGRATED INTERCOM & CARD READER
POF	PAY ON FOOT PAYSTATION

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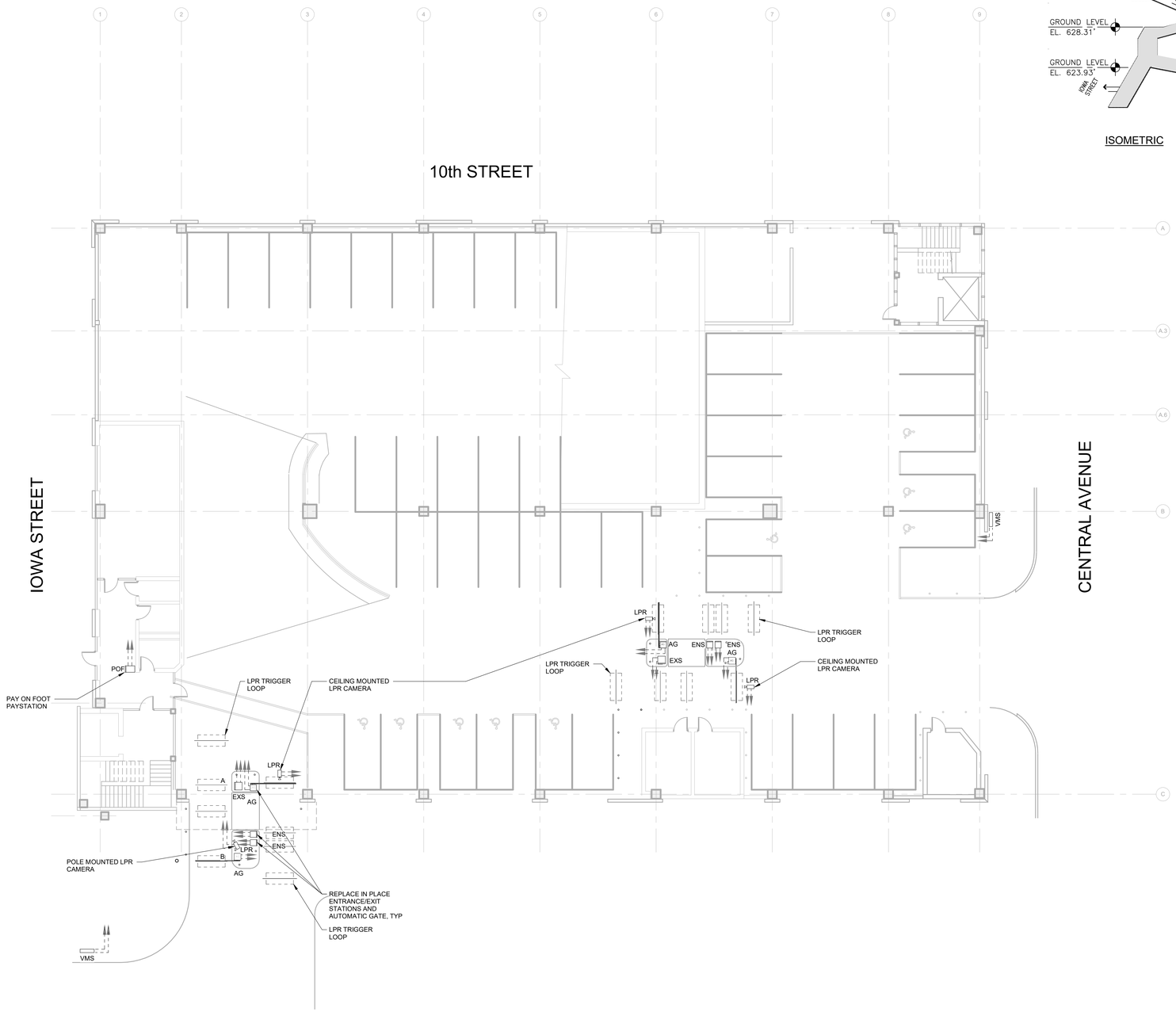

1 CENTRAL AVENUE RAMP - GROUND LEVEL

3/32" = 1'-0"

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PROCUREMENT
DUBUQUE IOWA

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DRAWN BY:		LPM
CHECKED BY:		BM/KW

SHEET TITLE:
CENTRAL AVENUE RAMP GROUND LEVEL

Q-141

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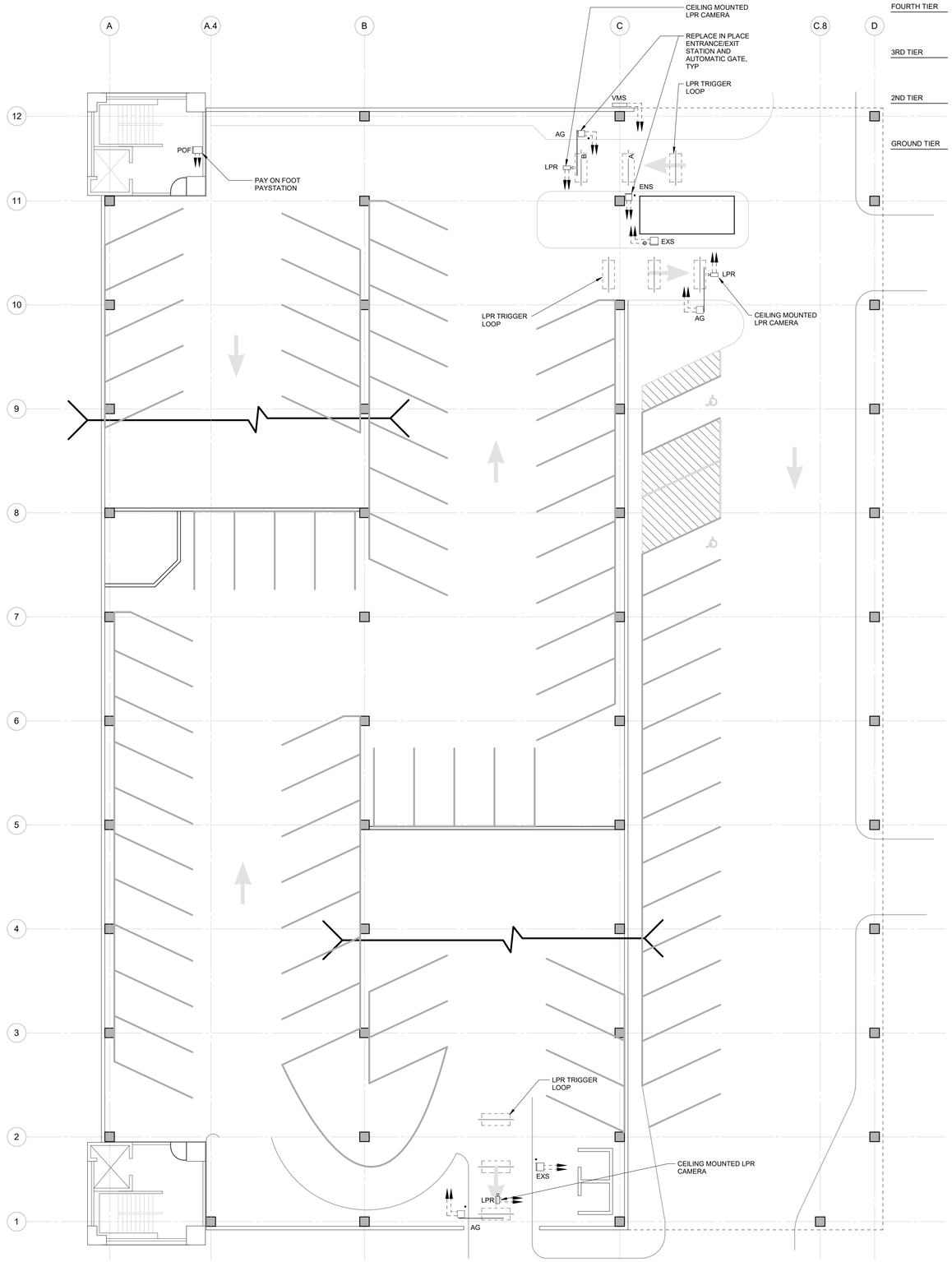
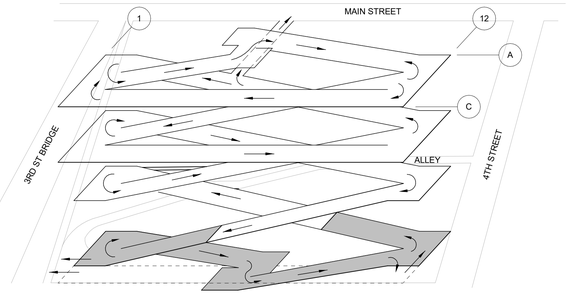


1 FIVE FLAGS RAMP- 1ST TIER
3/32" = 1'-0"



ISOMETRIC

EQUIPMENT LEGEND:

EQUIPMENT	DEFINITION
AG	AUTOMATIC GATE
6'-0" / 2'-6"	TYPICAL LOOP: EMBED IN SLAB-ON-GRADE
	BOLLARD - 4"ø SCHEDULE 40 PIPE GALVANIZED
VMS	VARIABLE MESSAGE SIGN
LPR	LICENSE PLATE RECOGNITION CAMERA
ENS	ENTRANCE STATION W/ INTEGRATED INTERCOM & CARD READER
EXS	EXIT STATION W/ INTEGRATED INTERCOM & CARD READER
POF	PAY ON FOOT PAYSTATION

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CITY OF DUBUQUE
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DRAWN BY:	LPM
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SHEET TITLE:
FIVE FLAGS RAMP 1ST TIER

Q-151

N

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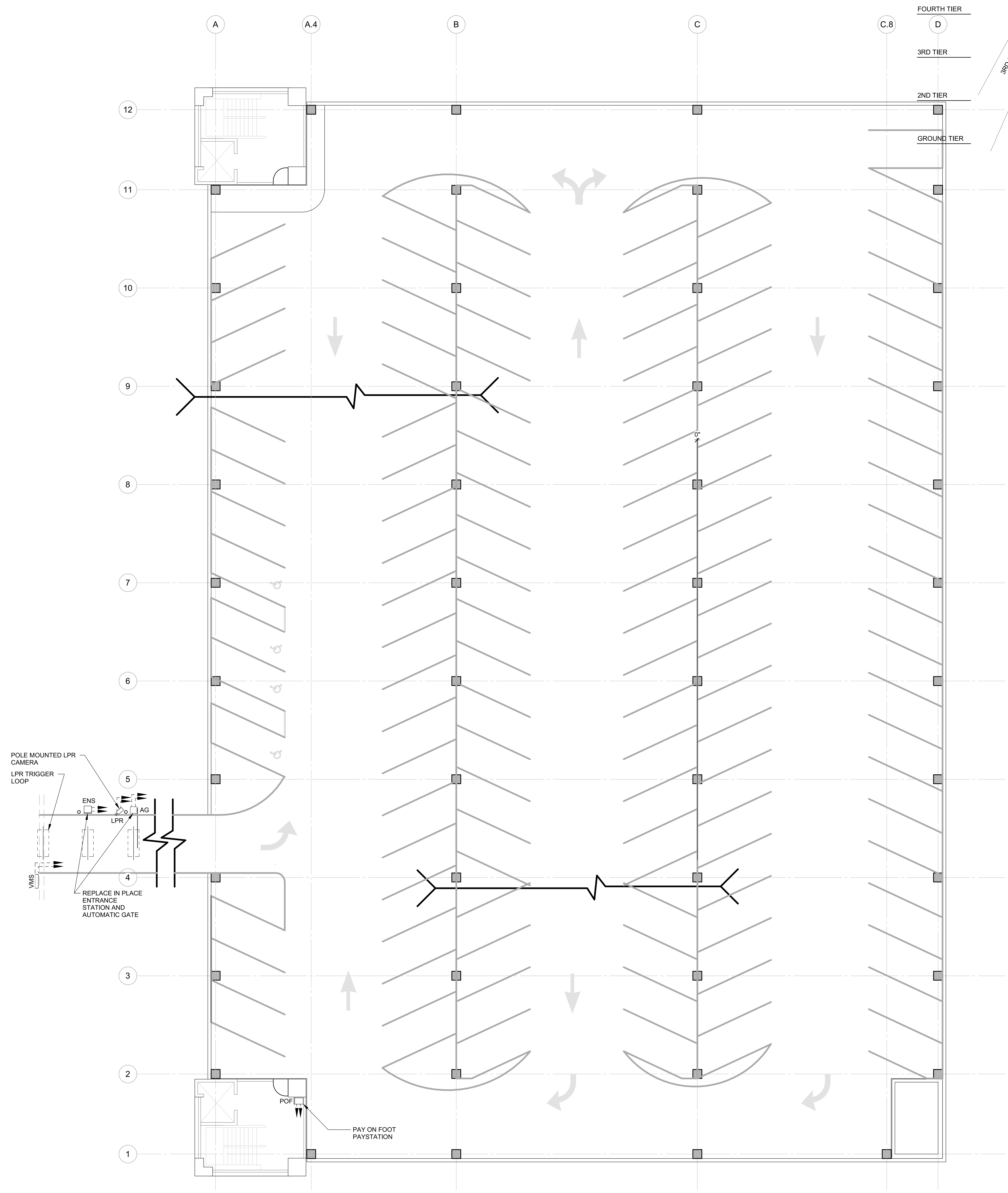
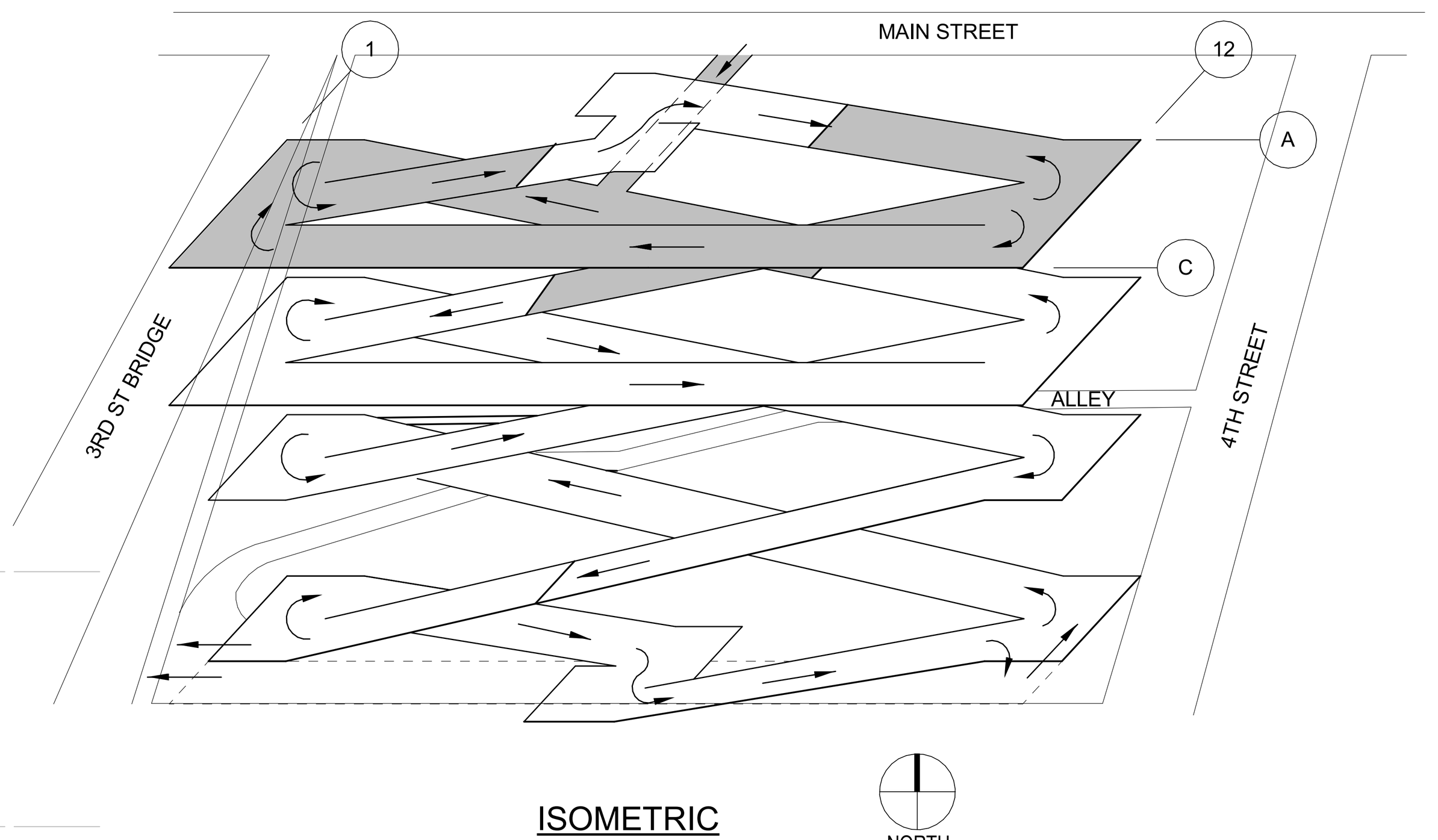


1 FIVE FLAGS RAMP - 4TH TIER
3/32" = 1'-0"



ISOMETRIC

EQUIPMENT LEGEND:

EQUIPMENT	DEFINITION
AG	AUTOMATIC GATE
6'-0" × 2'-6"	TYPICAL LOOP: EMBED IN SLAB-ON-GRADE
(bollard symbol)	BOLLARD - 4"Ø SCHEDULE 40 PIPE GALVANIZED
VMS	VARIABLE MESSAGE SIGN
LPR	LICENSE PLATE RECOGNITION CAMERA
ENS	ENTRANCE STATION W/ INTEGRATED INTERCOM & CARD READER
EXS	EXIT STATION W/ INTEGRATED INTERCOM & CARD READER
POF	PAY ON FOOT PAYSTATION

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CITY OF DUBUQUE PARKING SYSTEM TECHNOLOGY & EQUIPMENT PROCUREMENT

DUBUQUE IOWA

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SHEET TITLE:
FIVE FLAGS RAMP 4TH TIER

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