City of West University Place

A Neighborhood City

CITY COUNCIL
Bob Higley, Mayor
Kevin Trautner, Mayor Pro Tem
Lauri Lankford, Councilmember
John P. Barnes, Councilmember
Ed Sobash, Councilmember

STAFF
David J. Beach, City Manager
Alan Petrov, City Attorney
Thelma Gilliam, City Secretary

City Council Meeting Agenda

Notice is hereby given of a **workshop and regular meeting** of the West University Place City Council to be held on **Monday, January 27, 2020** beginning at **5:00 p.m.** in the **Municipal Building** located at 3800 University Boulevard, West University Place, Texas, for the purpose of considering the following agenda items:

Note: All agenda items are subject to action. The City Council reserves the right to meet in a closed session on any agenda item should the need arise and if applicable pursuant to authorization by Title 5, Chapter 551, of the Texas Government Code.

CALL REGULAR MEETING TO ORDER, RECESS AND CONVENE EXECUTIVE SESSION

EXECUTIVE SESSION (5:00 PM in the Bill Watson Conference Room)

1. **Executive Session**
   Notice is hereby given that the City Council will convene into executive session in accordance with the following provisions of Chapter 551 of the Texas Government Code:

   Section 551.071 (Consultation with outside legal counsel regarding review of zoning and land use process).

2. **Adjourn Executive Session**

WORKSHOP (6:00 PM in the Bill Watson Conference Room)

3. **Call Workshop to Order**

4. **Bees**
   Matters related to bees. *Recommended Action: Discuss and provide staff direction if desired.* ***Mr. Gerardo Barrera, Public Works Director***

5. **Adjourn Workshop**

REGULAR MEETING (6:30 PM in the Council Chambers)

6. **Call Regular Meeting to Order**

7. **Pledge of Allegiance**

8. Public Comments

This is an opportunity for citizens to speak to Council relating to agenda and non-agenda items. If the topic the speaker wishes to address is on the agenda, the speaker can either speak at this time or defer his/her comments until such time the item is discussed.

Speakers are advised that comments cannot be received on matters which are the subject of a public hearing once the hearing has been closed. Public comments must be kept relevant to the subject before the Council. The presiding officer shall rule on the relevance of comments.

Persons making irrelevant, personal, impertinent, or slanderous remarks may be barred by the presiding officer from further comment before the Council during the meeting. Speakers are required to register in advance and must limit their presentations to three minutes each.

9. Subdivision Ordinance

Matters related to an ordinance amending Chapter 74 of the Code of Ordinances relating to subdivisions. *Recommended Action: Approve ordinance on the first of two readings.* ***Mr. Gerardo Barrera, Public Works Director and Mr. Richard Wilson, ZPC Chair*** [see Agenda Memo 9]

10. Weeds/Property Condition

Matters related to an ordinance regarding weeds/property conditions. *Recommended Action: Approve ordinance on the first of two readings.* ***Mr. Gerardo Barrera, Public Works Director and Mr. Richard Wilson, Chair*** [see Agenda Memo 10]

11. Bond Counsel Selection

Matters related to approval of the City's Bond Counsel (See Exhibit A to this Agenda). *Recommended Action: Approve resolution awarding bond counsel services to Orrick, Herrington & Sutcliffe LLP and authorize the city manager to execute the contract.* ***Mr. Harrison Nicholson, Treasurer*** [see Agenda Memo 11]

12. Direct Link Alarm Monitoring Update

Matters related to a presentation regarding Direct Link. *Recommended Action: None - informational only.* ***Mr. Ken Walker, Police Chief and Ms. Jessica Li, Sergeant, Support Services*** [see Agenda Memo 12]

13. Consent Agenda

All Consent Agenda items listed are considered to be routine by the City Council and will be enacted by one motion. There will be no separate discussion of these items unless a Council member requests in which event the item will be removed from the Consent Agenda and considered in its normal sequence on the agenda.

A. City Council Minutes

Approve the City Council Workshop Minutes of January 13, 2020. [see Action Minutes]

B. Purchase of Fire Truck

Matters related to the purchase of fire truck. *Recommended Action: Approve purchase of the pumper truck and authorize the city manager to execute the contract.* ***Mr. Aaron Taylor, Fire Chief*** [see Agenda Memo 13B]

C. Purchase of Vehicles

Matters related to the purchase of vehicles. *Recommended Action: Approve purchase of vehicles and authorize the city manager to execute the contract.* ***Mr. Gerardo Barrera, Public Works Director*** [see Agenda Memo 13C]

D. Computer-Aided Dispatch Software

Matters related to a contract to upgrade the Computer Aided Dispatch system. *Recommended Action: Approve the award of a contract upgrade the City's CAD system and authorize the city manager to execute the contract.* ***Mr. Tim Dang, IT Director*** [see Agenda Memo 13D]

E. <u>Quarterly Investment Report</u>
Matters related to quarterly investment report. *Recommended Action: Accept report.* ***Mr. Harrison Nicholson, Treasurer [***see Agenda Memo 13E]

F. <u>Harris County Interlocal Agreement</u>
Matters related to an Interlocal Agreement with Harris County for donated electronic accountability devices. *Recommended Action: Approve Interlocal Agreement with Harris County for donated electronic accountability devices.* ***Aaron Taylor, Fire Chief*** [see Agenda Memo 13F]

14. <u>Adjourn Regular Meeting</u>
With no other matters before council, the meeting will adjourn.

In compliance with the Americans with Disabilities Act, if you plan to attend this public meeting and you have a disability that requires special arrangements, please contact City Secretary Thelma Gilliam at 713.662.5813 at least 24 hours prior to the meeting so that reasonable accommodations can be made to assist in your participation in the meeting. The Council Chambers is wheel chair accessible from the west entrance and specially marked parking spaces are available in the southwest parking area. Special seating will be provided.

I certify that the attached notice and agenda of items to be considered by the West University Place City Council on January _27_, 2020 was posted on the Municipal Building bulletin board on January _23_, 2020 at approximately o'clock__2:00__ p.m.

Thelma A. Gilliam
Thelma A. Gilliam, City Secretary

(SEAL)

EXHIBIT A

CITY OF WEST UNIVERSITY PLACE, TEXAS
NOTICE OF CONTINGENT FEE ENGAGEMENT OF BOND COUNSEL

Pursuant to Texas Government Code Section 2254.1036 (the "Code"), notice is hereby given that the City Council ("City Council") of the City of West University Place, Texas (the "City"), at the public meeting described in the Notice of Public Meeting to which this Exhibit is attached, shall consider the engagement of Orrick, Herrington & Sutcliffe LLP (the "Firm") to serve as Bond Counsel for a contingent fee. In support thereof, as required by the Code, the following information is provided:

(A) The Firm is proposing to perform legal services as Bond Counsel in connection with the issuance and sale of municipal bonds. The purpose of issuing such bonds is to fund capital projects and other expenses of the City. In connection with such issuances, Bond Counsel reviews the offering materials, coordinates approval of the bonds with the Texas Attorney General and provides a legal opinion to the City in connection with same pursuant to federal tax laws, among others. Best practices and the municipal finance marketplace require such an opinion in connection with the issuance of any municipal security and allow the City to market its securities more effectively and in conformity with industry norms.

(B) The Firm has been ranked by Thomson Reuters as the number one Bond Counsel law firm in the United States for each of the last 20 years. The Firm has served as Bond Counsel to hundreds of political subdivisions, including home rule Texas cities during such time, as well as other types of issuers of municipal securities, and is familiar with all aspects of municipal securities offerings and the federal tax laws applicable to such offerings.

(C) The Firm has no relationship with the City or the City Council other than in connection with its response to a Request for Proposals for Bond Counsel services.

(D) Bond Counsel services are highly specialized legal services involving Internal Revenue Code regulatory guidance which are not provided by the City's personnel, and the Firm specializes in providing these types of legal services.

(E) The Firm provides its Bond Counsel services on a fixed fee basis, and fees are paid from the proceeds of the bond issuance. This allows the City to have certainty of its costs prior to the issuance of such bonds, which allows it to size its bonds with greater certainty. An hourly fee arrangement would not allow certainty as to issuance expenses which could operate to prohibit the closing of any particular bond offering.

(F) This contingent fee contract is in the best interest of the City because it is industry standard for Bond Counsel, and many other types of legal and financial counsel associated with an offering of municipal securities, to work on a contingent fixed-fee basis. This standard has been in place for almost a century. It allows certainty as described above and also allows political subdivisions to know exactly how much their legal services will cost if and when a bond financing closes.

AGENDA MEMO

Business of the City Council
City of West University Place, Texas

Meeting Date	01.27.20	**Agenda Item**	9
Approved by City Manager	Yes	**Presenter(s)**	Richard Wilson, ZPC Chair Gerardo Barrera, Director
Reviewed by City Attorney	Yes	**Department**	Public Works
Subject	Subdivision Ordinance (Chapter 74 of the Code)		
Attachments	1. Proposed Ordinance 2. Kendig Keast Collaborative Power Point Presentation		
Financial Information	Expenditure Required:		N/A
	Amount Budgeted:		N/A
	Account Number:		N/A
	Additional Appropriation Required:		N/A
	Additional Account Number:		N/A

Executive Summary

In 2019, the City contracted with Kendig Keast Collaborative (KKC) to review Chapter 74 of the Code of Ordinances (Code) with the purpose of reorganizing the Chapter into a more intuitive and user-friendly format, as well as to ensure that Chapter 74 did not conflict with other chapters within the Code. Key areas revised in the Chapter include:

- Provide cross-referencing links where when appropriate;
- Develop an Enforcement and Remedies Article;
- Add provisions for text amendments and appeals;
- Update, consolidate and ensure definitions do not conflict with other City Ordinances;
- Ensure no duplication between Chapter 74 and other Chapters of City Ordinance; and
- Formalize Development Review process.

At the January 9, 2020 meeting, the newly proposed Chapter 74 was presented by KKC to the Zoning and Planning Commission for further review and discussion. The City Attorney also reviewed the proposed changes and ensured recent State legislative changes were included in the new draft. After minor revisions, the ZPC approved the amendments to Chapter 74 and are requesting final approval from City Council.

Due to the amount of restructuring/reformatting of the existing ordinance, the redlined copy would have been unreadable; therefore, one has not been included in the packet. In lieu of the redlined copy, the attached PowerPoint highlights the changes being proposed.

Recommended Action

The Zoning and Planning Commission and staff recommend that City Council approve the amendments to Chapter 74-Subdivisions Ordinance on the first of two readings.

City of West University Place
Harris County, Texas

ORDINANCE NO. XXXX

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF WEST UNIVERSITY PLACE, TEXAS; REPEALING CHAPTER 74, SUBDIVISIONS, OF THE CODE OF ORDINANCES OF THE CITY OF WEST UNIVERSITY PLACE, TEXAS, AND ADOPTING A NEW VERSION OF CHAPTER 74, SUBDIVISIONS AND CONTAINING FINDINGS AND PROVISIONS RELATING TO THE SUBJECT.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WEST UNIVERSITY PLACE, TEXAS, THAT:

Section 1. Chapter 74, Subdivisions, of the Code of Ordinances of the City of West University Place, Texas is repealed in its entirety and replaced by the adoption of a new Chapter 74, Subdivisions as set out in Appendix A, attached hereto.

Section 2. All ordinances and parts of ordinances in conflict with this Ordinance are repealed to the extent of the conflict only.

Section 3. If any word, phrase, clause, sentence, paragraph, section or other part of this Ordinance or the application thereof to any person or circumstance, shall ever be held to be invalid or unconstitutional by any court of competent jurisdiction, neither the remainder of this Ordinance, nor the application of such word, phrase, clause, sentence, paragraph, section or other part of this Ordinance to any other persons or circumstances, shall be affected thereby.

Section 4. The City Council officially finds, determines and declares that a sufficient written notice of the date, hour, place and subject of each meeting at which this Ordinance was discussed, considered or acted upon was given in the manner required by the Texas Open Meetings Act, as amended, and that each such meeting has been open to the public as required by law at all times during such discussion, consideration and action. The City Council ratifies, approves and confirms such notices and the contents and posting thereof.

Section 5. This Ordinance takes effect immediately upon its passage and adoption on second reading.

PASSED, APPROVED AND ADOPTED ON FIRST READING on the _____ day of _____, 2020.

Councilmembers Voting Aye:

Councilmembers Voting No:

Councilmembers Absent:

PASSED, APPROVED AND ADOPTED ON SECOND READING, AND SIGNED, on the _____day of _____, 2020.

Councilmembers Voting Aye:

Councilmembers Voting No:

Councilmembers Absent:

Attest: _____ **Signed:** _____

City Secretary (Seal) Mayor

Recommended: _____

City Manager

Approved as to legal form: _____

City Attorney

Appendix A

Chapter 74, Subdivisions

Article I. Purpose, Jurisdiction, and Applicability 4
Article II. Subdivision Standards 5
Article III. Administrative Bodies 9
Article IV. Standardized Development Procedures 11
Article V. Plats 15
Article VI. Permits and Applications 20
Article VII. Enforcement and Remedies 23
Article VIII. Definitions and Interpretation 25

Article I. Purpose, Jurisdiction, and Applicability

Section 74-1 - Purposes

The purposes of this Chapter are to:

Provide for the orderly and safe land development within the City;

Promote the health, safety, and general welfare of the community;

Ensure that new development is consistent with the City's most recently adopted Comprehensive Plan;

Ensure that facilities to be accepted and maintained by the City are properly located and constructed; and

Establish reasonable development restrictions that will neither infringe upon the Constitutions of the United States of America or the State of Texas nor create regulations that are arbitrary or capricious.

Section 74-2 - Jurisdiction

Unless otherwise noted all provisions of this Chapter apply within the municipal limits of the City of West University Place, Texas.

Section 74-3 - Applicability

All property proposed for subdivision within the municipal limits of the City shall be in accordance with this Chapter.

Section 74-4 - Consistency with Zoning and the City Plans

A. **Zoning.**

1. *Land Use.* No land contained in any proposed subdivision shall be reserved for any land use other than a use permitted within the zoning district where the property is located. (See Appendix A, *Zoning Ordinance*).

2. *Rezoning.* No subdivision approval shall be approved that requires a change in zoning until the rezoning request is officially approved in compliance with Appendix A, *Zoning Ordinance*.

B. **Plans.** All subdivisions shall be consistent with the City's plans including, but not limited to, the City's most recently adopted Comprehensive Plan and Drainage Plan.

Section 74-5 - Transition Standards

A. **Development Approvals Predating the Effective Date.**

1. It is the City's intent to respect existing development approvals. Approved development may be carried out within the scope of the development approval, including applicable

standards in effect at the time of approval, provided that the approval was valid and has not lapsed per Section 74-44, *Inactive and Expired Applications*.

2. This section does not prevent the City from enforcing any provision of Chapter 18, *Buildings and Development*, or any other chapter of the City's Code of Ordinances.

Pending Applications.

3. Except as provided in subsection (B)2 below, each application for development approval shall be evaluated only by the adopted ordinances and technical regulations in effect at the time that each complete application is submitted.
4. Applications that are not pursued with due diligence may expire pursuant to Section 74-44, *Inactive and Expired Applications*.

Article II. Subdivision Standards

Section 74-11 - Lots

Lot Size. All lots and tracts must conform to the regulations of Appendix A, Section 5-102, *Division of Building Sites*.

Lot Shape.

1. Lots shall be as rectangular as possible.
2. Irregular shaped lots shall have sufficient width at the building line to meet the minimum width requirements of Appendix A, Table 5-1, *Building Site Dimensions*.

Lot Lines. Side lot lines shall be at right angles or as close to right angles as possible.

Street Frontage. Each lot shall have adequate access to an existing or proposed public street with the width of the street area to be not less than 40 feet.

Lot Consolidation. Lots may be consolidated provided that:

3. The minimum requirements of Appendix A, Section 5-102*, Division of Building Sites,* have been met; and
4. Upon completion of any and all work permits none or only one of the applicable lots has a primary habitable building located on it.

Lot Subdivision on Previously Consolidated Lot. Lots that have previously been consolidated may be subsequently subdivided again provided that the newly created lots:

5. Satisfy the requirements of this Chapter and *Appendix A, Zoning Ordinance;* and
6. Neither of the newly proposed lots would have an accessory building, accessory use, or accessory structure left on the property without a primary building.

Through Lots. See Appendix A, *Zoning Ordinance*, Table 7-2, *Yards (or 'Setbacks'): Note 1*: *Through Lots or Building Sites*.

Section 74-12 - Building Sites

See Appendix A, *Zoning Ordinance*, Article 5, *Building Sites* and Section 18-53, *Building Sites*.

Section 74-13 - Blocks

Minimum Block Length. Block length shall be a minimum of 500 feet.

Maximum Block Length. Blocks shall not be more than 1,200 feet in length.

Section 74-14 - Streets and Public Rights-of-Way

Right-of-Way Width. The City shall maintain the existing right-of-way width necessary to provide the paved streets and sidewalks that presently exist throughout the City.

Street Pavement Width. The City shall maintain the existing street pavement width necessary to maintain the existing street network throughout the City.

Alleys. The creation of new alleys is prohibited.

Private Streets. The creation of new private streets is prohibited.

Street Lighting. Street lighting shall be provided and meet the standards as provided in the City's *Construction Design Manual*.

Street Name and Traffic Signs. All street name and traffic signs shall be provided by the City.

Traffic Impact Analysis.

1. Where a proposed new development may create either increased traffic, intersection congestion, or any transportation concern, the City may require the applicant to fund a traffic impact analysis.
2. The applicant may be required to share with the City the cost of any traffic management facility as is roughly proportional to the new development.

Section 74-15 - Access Management

See Appendix A, *Zoning Ordinance,* Table 7-5a: Parking, Driveways, etc.

Section 74-16 - Curbs, Gutters, and Sidewalks

See Section 18-62, *Curbs, Gutters, and Sidewalks*.

Section 74-17 - Easements

Drainage and Stormwater Easements. When a subdivision has a natural channel, stream, or drainage from an adjacent property, the final plat must dedicate a permanent drainage

easement to the City with sufficient width to accommodate the natural channel, stream or drainage, plus an additional width to accommodate projected future runoff.

Utility Easements. Easements across lots centered on rear and side lot lines shall provide for utilities where necessary and shall be a minimum of 10 feet wide for two utility services (e.g., electric, gas, telephone, etc.) or 14 feet to 20 feet for two or more utility services.

Water and Wastewater Easements. Easements required for water and wastewater shall be a minimum of 10 feet in width in the right-of-way of the front property line.

Encroachments and Removal of Encroachments.

1. *No Encroachments within an Easement.* No structures or permanent encroachments shall be allowed to be located within the area of any easement required by this Section.
2. *Right of Removal.* While the City or utility provider benefiting from the easement will make efforts to minimize disturbances, both, however, shall have the right to remove any encroachment, structure, fence, landscaping (including overhanging limbs, shrubbery, or vegetation), or other improvements placed upon or over such easement.
3. *Cost of Removal.* The City may assess the cost of removing an unauthorized improvement from an easement against the landowner, including the placing of a lien on the property.
4. *Restoration.* The City and/or utility provider shall not be obligated to restore or replace any such encroachment but shall restore any disturbed ground surfaces with seeding.

Maintenance of Easements. The responsibility for the regular maintenance of the ground surface in any easement shall rest with the owner of the property within which the easement exists.

Section 74-18 - Survey and Monument Specifications

Information Required.

1. *Generally.* The following shall be used for mapping natural resources or other features of subdivision plats, site development plans, or other plans or plats as otherwise required by this Section. In general, boundaries shall be measured as follows:

   Measurements for the boundary are to be made horizontally, perpendicular from, or radial from any feature or point.

   Boundaries that are dependent on elevation shall be based upon on-site elevations and shall not be interpolated.

2. *Waterbodies and Watercourses.*

   Floodplains. All development within the City, not part of a previously approved plan or plat, shall show the boundary of the floodplain and floodway, if such exists on the site. Such delineation shall be by a registered professional land surveyor.

Streams. Streams (perennial, intermittent, mapped, and unmapped) with identifiable banks and beds shall have their boundaries set at the top of the bank.

Wetlands. Wetlands shall be measured by the criteria of the U.S. Army Corps of Engineers.

Other Waterbodies/Watercourses. Initial identification of other waterbodies/watercourses not otherwise classified shall be made using the U.S. Geological Survey quadrangle maps or more accurate information, as available. Field survey verification to determine evidence and location of channelized flow is required for subdivision plats and site development plans.

3. *Topography.* Topographic lines are required and shall be drawn at one-foot contour intervals unless such intervals are impractical due to essentially flat topography.

Monumentation. Survey monuments shall be required.

4. *Monument Markers.* All boundary corners, angle points, or points of curvature or tangency, including block corners, lot corners, street intersections, and all angle points and points of curvature in street lines must be monumented by a surveyor using sufficient, stable and reasonably permanent survey markers.
5. *Monument Size and Material.* Each monument shall be described in such a way as to clearly define the size, type of material, and the nature of the monument (i.e., three-fourths-inch iron pipe, five-eights-inch iron rod, cotton spindle, mag nail, etc.).
6. *Standards.* All monuments shall be set to the standard of the Texas Board of Professional Land Surveying Practices Act and the general rules of practices and procedures of the Texas Board of Professional Land Surveying and shall bear reference caps as indicated.
7. *Benchmarking.*

   Location. A benchmark monument or survey marker of a sufficient, stable, and reasonably permanent nature shall be found or placed within the boundaries of or within 300 feet of the boundaries of the subdivision for project elevation control.

   Identification. The placement of the benchmark with the location, description, and elevation of the benchmark shall be identified on the face of the plat.

   Reference. All project benchmarks and all project elevations shall be referenced to the published National Geodetic Survey (NGS) datum adjustment of the current Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for the property location. Equations may be used to translate other datum adjustments to the required adjustment.

Section 74-19 - Sewer, Water and Utility Connections

A. **Generally.** All lots or tracts in subdivisions shall be provided by the applicant with a water supply, water distribution system, fire hydrants, and a sewer system that City's *Construction Design Manual*.

B. **Requirement for Permits.** See Section 18-64, *Utility Availability, Major Development*.

Section 74-20 - Construction Improvements

Construction Requirements. See Section 70-261, *Construction and Maintenance of Structures*.

Performance Bond.

1. *Bond Required.* Before starting any construction activity, including land clearing, an applicant must obtain a performance bond guaranteeing to the City the installation of all of the required improvements within a specified time.
2. *Cost of Bond.* The cost of the performance bond is based on the estimated cost of the improvements and shall be in an amount approved by the Administrative Official.

Applicant Report upon Completion of Improvements. When the required improvements of this section are completed, the applicant shall submit a written report to the Administrative Official stating that all required work has been completed in accordance with the approved plans and specifications.

City Acceptance. See Section 74-45, *City Acceptance of Improvements*.

Section 74-21 - Drainage, Stormwater, and Flood Management

Drainage and Stormwater.

1. Drainage facilities shall be installed so as to drain all lots in a subdivision and to handle incoming flows from natural channels, streams and other drainage, and the sufficiency of such facilities shall be approved by the Public Works Director.
2. All water runoff shall drain into the street from the same lot address either naturally or through an internal drainage system, unless otherwise indicated on the final plat.
3. For further information see the City's *Stormwater Management Plan*.

Flood Management. See Chapter 18, Article IX, *Flood Damage Prevention*.

Article III. Administrative Bodies

Section 74-31 - Administrative Official

Right of Inspection. The Administrative Official is empowered to enter any building, structure, or premises in the City upon which a development or land use is located, as follows:

1. Entry shall be for the purpose of inspection to ensure compliance with this Chapter or any other Chapter of the City's Code of Ordinances.
2. Inspection shall be performed during business hours, unless an emergency exists.
3. Inspection shall be made only after:

   Contact and permission is granted by the owner or tenant; or

   An order from a court of competent jurisdiction.

Interpretation. The Administrative Official shall have the right to interpret provisions of this Chapter. Should an applicant not agree with the Administrative Official's interpretation, he or she has the right to appeal as per Section 74-67, *Appeals*.

Responsibilities. The Administrative Official shall:

4. Establish deadlines for how far in advance an initial application must be submitted to be reviewed by either the City Council and/or the Planning and Zoning Commission;
5. Provide application materials for applicants;
6. Schedule and coordinate all Development Review Committee (DRC) meetings (See Section 74-33 - *Development Review Committee*);
7. Decide all administrative approvals as per Section 74-51, *Table of Platting Requirements*;
8. Complete a staff report for all proposals that request approval under this Chapter of the City's Code of Ordinances;
9. Submit in writing to an applicant any specific conditions required as a part of conditional approval for any and all applications; and
10. Enforce the provisions of Article VII, *Enforcement and Remedies* by:

    Providing in writing the violation and/or the specific area(s) of noncompliance to the person deemed to be in violation of any provision of this Chapter;

    Bringing violations and/or lack of compliance to the attention of the Planning Commission, City Council, or other appropriate agency; and

    Issuing or undertaking any remedies as deemed necessary by Section 74-73, *Non-Judicial Remedies,* and Section 74-74, *Judicial Remedies*.

Section 74-32 - City Council

Establishment. The City Council is established by the City of West University Place Home Rule Charter, Article II, *City Council*.

Powers and Duties. The City Council reserves to itself all of the powers and duties that are not expressly delegated within this Chapter of the Code of Ordinances. (*See* Home Rule Charter, Section 2.08, *Powers of Council*).

Section 74-33 - Development Review Committee (DRC)

Membership.

1. The Development Review Committee (DRC) shall be comprised of the City Staff designated by the Administrative Official and representatives from each referral agency that reviews development projects in conjunction with the City.
2. Based on the nature of the application, DRC meetings can be limited to those staff and agencies affected by the development, or can be expanded to include additional agencies or staff with review responsibilities.

Meetings. DRC meetings shall be convened by the Administrative Official, as necessary.

Responsibilities. The DRC shall have the role to review and provide technical recommendations concerning any application specified in this Chapter of the City's Code of Ordinances.

Section 74-34 - Zoning and Planning Commission (ZPC)

Establishment. The Zoning and Planning Commission (ZPC) is established by Home Rule Charter, Section 5.03, *Zoning and Planning Commission*.

Powers. Unless otherwise designated, the ZPC shall have the responsibility for the approval of all plans, plats, and permits as designated by this Chapter in accordance with Texas Local Government Code (TLGC) Chapter 212. (*See* Home Rule Charter, Section 5.04, *Zoning and Planning Commission: Powers and Duties*).

Article IV. Standardized Development Procedures

Section 74-41 - Pre-Application Conference

Applicant Responsibilities. An applicant shall:

1. Consult early, informally, and in-person with the Administrative Official; and
2. Avail himself to the advice and assistance of the Administrative Official.

Administrative Official Responsibilities. The Administrative Official shall:

3. Informally confer with the applicant; and
4. Advise and assist the applicant in the procedure for approval of plats and on regulations and policies of the City regarding development within the corporate limits.

Section 74-42 - Application Filing Process

Generally. Every process established by this Chapter of the Code of Ordinances shall be submitted on a form approved by the City with the appropriate application fee in accordance with Appendix E, *Fees and Charges Schedule,* of the City's Code of Ordinances.

Payment of Fees.

1. All fees for all plats (regardless of whether it is an original submittal or resubmittal) shall be paid at the time of application submittal.
2. No plat, permit, or application shall be approved unless and until such costs, charges, fees, or expenses are paid in full.

Forms. The City may revise any applicable form to comply with any new or revised requirements of this Chapter.

Title Report. A current title report (within the past 60 days as of the application date) is required to be filed with the City as part of the application process for any and all plats. (See Article V, *Plats*.)

Time and Location of Hearing.

3. *30 Day Requirement.* For all matters properly brought before the City Council or the ZPC, the date of the meeting shall be no later than 30 days following the submission of a complete application per Section 74-43, *Application Completeness Review*.
4. *Specific Time and Location.* Provided that the 30-day time requirement as discussed in subsection E(1) is met, the City shall be responsible for selecting a reasonable time and place for the hearing to be held.

Denial and Resubmittal of Plat. An applicant may not submit an additional application for subdivision of the same lot or tract within 12 months of the date of denial unless the applicant can show to the ZPC's satisfaction that there is a material change in circumstances related to the application.

Section 74-43 - Application Completeness Review

Generally. Upon receipt of an application pursuant to this Chapter, the Administrative Official shall provide the applicant with a dated receipt. Within ten working days of receipt of an application, the Administrative Official shall review the application and determine if:

1. The application includes all required materials and information; and
2. Those parts of the application which are required to be prepared by licensed professionals are, in fact, prepared by such professionals.

Determination of Completeness.

3. If the application is complete, the Administrative Official shall notify the applicant in writing of this determination and require the applicant to provide a sufficient number of copies of the application.
4. No application is complete until all up-front fees for review are paid.
5. The time period for processing an application after completeness review does not start unless the fees are paid.

6. Once an application has been accepted by the Administrative Official, the filing fee is non-refundable.

Determination of Incompleteness. If the application is incomplete, the Administrative Official shall notify the applicant in writing, specifying the additional materials or information required to complete the application. The applicant shall provide these materials within ten working days of the request or the application will be withdrawn. An application that is withdrawn may be re-filed at a future date however a new filing fee will be required.

Section 74-44 - Inactive and Expired Applications

Generally. Applications must be diligently pursued by the applicant. This Section includes procedures to void applications that become stale due to applicant inaction.

Expiration of Applications.

1. *Inactive.* An application becomes an "inactive application" for failure to comply with this Chapter, preventing it from being docketed for action or approved.
2. *Stale.*

   Generally. Inactive applications become “stale” after 90 days of the filing of the application if the applicant fails to address staff or referral agency review comments.

   Exception. When the applicant is actively pursuing action to address comments in coordination with staff, in which case the application shall become stale after 180 days of the date when the action was originally requested.
3. *Void.* Stale applications are automatically voided six months after the original date when the action was requested if the applicant fails to take action or requests an extension of time for cause.
4. *No Refund of Fees.* If a plat becomes stale and is voided, application fees will not be refunded and a new application and fees are required to file a subsequent plat.

Extension of Time. Prior to a stale application being voided, an application may be extended for up to six months upon written request of the applicant for cause only.

Change in Ordinance Provisions. If the City amends this Chapter or adopts other regulations during the period of time when an application is inactive and/or stale, the application shall not be subject to compliance to the new regulations unless the application becomes void.

Section 74-45 - City Acceptance of Improvements

For the City to accept the dedication of any public infrastructure improvement the following procedural steps are required:

A. **Applicant Report.** See Section 74-20.C, *Applicant Report upon Completion of Improvements*.

B. **City Staff Review.**

1. The City's Director of Public Works shall approve all water and sewer facilities.
2. The City's Building Official shall complete a satisfactory final inspection confirming that all work, cleanup, and requirements of the ZPC have been completed.

C. **City Council Acceptance.** Upon satisfactory completion of the applicant report and City Staff report, the City Council shall formally accept the public improvements and release any excess funds held in the performance bond that the applicant was required to post in accordance with Section 74-20.B, *Performance Bond*.

Section 74-46 - Required Notice

Generally. Notice of any ZPC hearing on a subdivision application, whether by publication or by mail, shall be given as required by TLGC Chapter 212.

Content of Notice. Notice shall include:

1. The date, time, and place of the hearing;
2. Staff contact and phone number;
3. A full legal description of the property ; and
4. A statement that the public is invited to review and comment on the application.

Constructive Notice.

5. *Minor Defects.* Minor defects in any notice shall not impair the notice or invalidate proceedings pursuant to the notice if there was a bona fide attempt to comply with applicable notice requirements. Minor defects in notice shall be limited to errors in a location map, typographic or grammatical errors, or errors of actual acreage that do not impede communication of the notice to affected parties.
6. *Failure to Receive Notice.* Failure of a party to receive written notice, when notice has been actually mailed, shall not invalidate subsequent action.
7. *Questions Concerning Adequacy of Notice.* If questions arise regarding the adequacy of notice, the City Council or the ZPC may direct City Staff to make a formal finding as to whether there was substantial compliance with the notice requirements of this Chapter and the TLGC.

Types of Required Notice.

8. *By Mail.* Notice by mail, when required, shall be provided to each property owner, as required by law, and as indicated by the most recently approved municipal tax roll of real property.
9. *By Publication.* Notice by publication, when required, shall be provided in accordance with the requirements of the TLGC.

Computation of Time Requirement. In computing the time periods for notice, the day of mailing, publication, or posting shall not be counted, but the day of the public hearing shall be counted.

Required Notice Table. Table 74-46, *Required Notice*, sets out the specific notice requirements for each type of application when notice is required.

Table 74-46 Required Notice		
Type of Application	**By Mail**	**By Publication**
Plats		
Preliminary Plats	Not Required	Required[2]
Final Plats	Not Required	Required[2]
Consolidated Preliminary and Final Plats	Not Required	Required[2]
Minor Plat Amendments	Not Required	Not Required
Replats	Required[1]	Required[2]

Notes:

1. Required per Texas Local Government Code (TLGC) Section 212.015, *Additional Requirements for Certain Replats*.
2. Required per Texas Government Code (TGC), Chapter 551, *Open Meetings.*

Article V. Plats

Section 74-51 - Table of Platting Requirements

Table 74-51 Platting Requirements					
Plat Type	**Required For**	**Timing**	**Exceptions**	**Issued By**	**Cross-reference**
Preliminary Plats	Subdivision of real property	Required prior to final plat	*See* TLGC Chapter 212, *Municipal Regulation of Subdivisions and Property Development* and *Sec. 74-52, Consolidated Preliminary and Final Plats*	Zoning and Planning Commission	Sec. 74-52, *Preliminary Plats*
Final Plats	Subdivision of real property	Required after preliminary plat and prior or concurrent with site development plan	*See* TLGC Chapter 212, *Municipal Regulation of Subdivisions and Property Development*	Zoning and Planning Commission	Sec. 74-53, *Final Plats*

Table 74-51 Platting Requirements					
Plat Type	**Required For**	**Timing**	**Exceptions**	**Issued By**	**Cross-reference**
Consolidated Preliminary and Final Plats	Subdivision of real property (only applicable for projects meeting the requirements of Sec. 74-54)	Prior or concurrent with site development plan	N/A	Zoning and Planning Commission	Sec. 74-54, *Consolidated Preliminary and Final Plats*
Minor Plat Amendments	Amendments to plats which fall under TLGC Sec. 212.016, *Amending Plat*.	Whenever requirements can be identified as being met	None	Administrative Official	Sec. 74-55, *Minor Plat Amendments*
Replats (Major Modifications)	Subdivision of real property	After plat approval when edits to a plat are necessary	*See* TLGC Chapter 212, *Municipal Regulation of Subdivisions and Property Development*	Zoning and Planning Commission	Sec. 74-56, *Replats (Major Modifications)*

Section 74-52 - Preliminary Plats

A. **Required Plat Specifications.** The preliminary plat shall show the following:

1. The names, addresses, and telephone numbers of the record owner of the lot, tract or parcel proposed to be subdivided, and the owner's agent, if any.
2. A description, by metes and bounds, of the proposed subdivision and of the lot, tract or parcel from which the subdivision is proposed.
3. Subdivision boundary lines (indicated by heavy lines) and other lot lines in the immediate vicinity.
4. The computed area of the subdivision, each lot in the subdivision, and a number or letter to identify each lot or tract.
5. A north arrow.
6. The date of plat preparation.
7. The scale of plat which shall be one inch equals 20 feet minimum.
8. The front building setback lines on all lots and tracts.

9. The side yard building setback lines on corner lots, if applicable.
10. The street to which the lot or tract is dedicated and the proposed street address (if available).
11. The proposed easements for drainage, public utility easements and streets, both public and private.
12. The standards as set out in Section 74-18, *Survey and Monument Specifications*.
13. A location inset, preferably in the upper right corner of the plat, to show the subdivision in relation to well-known streets, streams, and natural channels in all directions for a distance of at least one-fourth mile.
14. All proposed rights-of-way must be separately identified as distinct from other lots on the plat.

B. **Required Submittals.** Applicants shall submit the following prior to the City determining whether all elements of the application are complete via Section 74-43, *Application Completeness Review*:

1. Full Filing Fee as provided on the City's Schedule of Fees.
2. An electronic copy in PDF format which can be easily printed at a scale of 24 x 36 inches and stamped "Preliminary Plat" that meets or exceeds the requirements of this section.
3. Letter of transmittal, stating briefly the type of street surfacing, drainage, sanitary facilities, and water supply proposed.
4. The name and address of the owner and/or the owner's agent.
5. A statement of the extent of the applicant's ownership.
6. A boundary description of the land.
7. A notarized certificate on the face of the plat, executed by the applicant, which certifies that all of the following is fully shown and accurately identified:
   a. All existing encumbrances, such as all easements for utilities and drainage;
   b. Significant topographical features; and
   c. All of the contiguous land which the applicant owns or has a legal interest in.
8. Plans and engineering calculations which shall all contain the seal and signature of a registered professional engineer.
9. Any additional supplemental materials as applicable in other sections of this Chapter.

C. **Action by Zoning and Planning Commission (ZPC).** The ZPC shall within 30 days after the preliminary plat has been properly filed and the requirements of Section 74-43, *Application Completeness Review*, have been satisfied:

1. Conclude either:
   a. Approval;

b. Approval with conditions; or

c. Disapproval; and

2. Record the action taken on two copies of the preliminary plat.

D. **Conditional Approval.**

1. Conditional approval shall be considered to be the status of a plat or replat until such conditions are complied with.
2. All conditions imposed as part of a conditional approval, shall be furnished to the applicant in writing.

E. **Effect of Approval.**

1. Approval of the preliminary plat shall be deemed an expression of general approval of the layout of streets, water, sewer and other required improvements and utilities and shall not constitute acceptance of the final plat.

2. Should an applicant decide to not move forward with a final plat application, there is no requirement that an approved preliminary plat be formally vacated.

F. **Effect of Disapproval.** Should the ZPC disapprove a plat, the ZPC shall within ten business days notify the applicant in writing of the actions taken and the reasons for why said action was taken.

G. **Effect of No Decision.** If no decision is rendered by the ZPC within 30 days after the preliminary plat has been filed and the requirements of Section 74-43, *Application Completeness Review* have been satisfied, the preliminary plat, as submitted, shall be deemed to be approved.

H. **Expiration.** Preliminary plat approval will expire six months after the approval by the ZPC. For this reason, there is no requirement that a preliminary plat that has been approved be vacated, should an applicant decide against moving the project forward.

I. **Extension.** The applicant may apply in writing for an extension prior to the end of such six month period. This period may be extended six months, but not beyond a total of one year.

J. **Required Notice.** See Section 74-46, *Required Notice*.

Section 74-53 - Final Plats

Conformance to Preliminary Plat. The final plat and accompanying data shall conform to the form and content of the preliminary plat and other required data as conditionally approved by the ZPC incorporating any and all changes, modifications, alterations, corrections and conditions as set out in the letters of preliminary approval from the ZPC.

City Not Liable to Furnish Improvements. The acceptance of a final plat by the city does not in any manner obligate the City to finance or furnish any storm sewers, drainage structures, street, water, sewer improvements or any other items or improvements whatsoever.

Easements. The final plat must clearly document all easements that are required by Section 74-17, *Easements* and any of provisions of this Municipal Code.

Right-of-Way Dedication. Rights-of-Way intended for public facilities shall be properly dedicated to public use and title transferred to the appropriate public agency. The final plat must provide clear evidence of the intent to complete this transfer.

Required Notice. See Section 74-46, *Required Notice*.

Section 74-54 - Consolidated Preliminary and Final Plats

Applicability. The applicant may, at his option, elect to combine the preliminary plat and final plat process, whenever the following conditions are satisfied:

1. The tract of land is to be re-subdivided into no more than three lots; and
2. The dedication of streets, utilities, and infrastructure is not required.

Required Notice. See Section 74-46, *Required Notice*.

Section 74-55 - Minor Plat Amendments

Applicant Responsibilities. An applicant requesting a minor plat amendment shall submit to the Administrative Official:

1. An electronic copy in PDF format which can be easily printed at a scale of 24 x 36 inches and stamped "Preliminary Plat" that meets or exceeds the requirements of this section; and
2. A statement:

   Detailing the specific minor plat amendment requested; and

   Identifying the specific subsection of TLGC Section 212.016, *Amending Plat*, that permits the plat to be amended without requiring a replat.

Administrative Official Responsibilities. The Administrative Official may:

1. Administratively approve minor plat amendments when the requirements of TLGC Section 212.016 are met; or
2. Elect to present the plat to the Planning and Zoning Commission for approval, conditional approval, or denial.

Section 74-56 - Replats (Major Modifications)

A. **Applicability.** All replats, excluding those that qualify for a minor plat amendment per Section 74-55, *Minor Plat Amendments*, are required to be revised in accordance with this section.

B. **Legally Protested Supermajority.**

1. *Vote Requirement.* If a proposed replat is protested [as described in subsection (2) below] the replat must receive, in order to be approved, the affirmative vote of at least three-fourths of all members of the ZPC.

2. *Legal Protest Standard.* For the legal protest approval standard to be applicable, a written petition signed by the owners of at least 20 percent of the area of the lots or land immediately adjoining the area covered by the proposed replat and extending 200 feet from that area, must be filed with the Administrative Official more than 24 hours prior to the opening of the public hearing.

C. **Procedural Process.** Replats may be submitted through the Final Plat process. See Section 74-56, *Final Plats*.

D. **Required Notice.** See Section 74-46, *Required Notice*.

Section 74-57 - Final Plat Vacation

See TLGC Section 212.013, *Vacating Plat*.

Article VI. Permits and Applications

Section 74-61 - Building Permit

A. **Final Plat Required.** No building, repair, plumbing or electrical permit shall be issued by the City for any building or structure on a lot or tract unless a final plat has been approved pursuant to the provisions of this Chapter and filed for record with the City and the County Clerk.

B. **Completion of Construction Improvements Required.** The Building Official may not authorize the issuance of permits for buildings in the subdivision until all improvements are completed in accordance with the requirements of Section 74-20, *Construction Improvements*.

C. **Completion of Site Development Plan and Drainage Plan.** The Building Official may not authorize the issuance of permits for buildings until all required site development plans (See Section 18-54, *Surveys; Site Plans*) and drainage plans (See Section 18-56, *Site Drainage; Drainage Plans*) have been fully submitted and approved by the Building Official.

D. **Building Official Responsibilities.** The Building Official shall be responsible for the issuance of all building permits. See Chapter 18, *Buildings and Development*.

Section 74-62 - Floodplain Development Permit

See Chapter 18, Article IX, *Flood Damage Prevention*.

Section 74-63 - Site Development Plan

See Section 18-54, *Surveys; Site Plans*

Section 74-64 - Site Drainage Plan

See Section 18-56, *Site Drainage; Drainage Plans*

Section 74-65 - Text Amendment

Initiation of Amendment Request. Requests for amendments to the text of this Chapter may be initiated by the request of the ZPC, City Council, the Administrative Official, or the public at-large to amend, add, or repeal any portion of this Chapter that is not required by either Texas or Federal Law.

Amendment Request Process. All text amendments to this Chapter shall first be reviewed by City Staff and then subsequently reviewed by ZPC with a recommendation provided to the City Council as to whether the amendment should be adopted.

Criteria for Approval. The following shall be considered by the ZPC and the City Council in determining whether to adopt or recommend for adoption. The proposed amendment shall:

1. Promote the health, safety, and general welfare of the City;
2. Promote the safe, orderly, efficient, and healthful development of the City;
3. Be consistent with other regulations within the City's Code of Ordinances; and
4. Be consistent with the policies of the most recent Comprehensive Plan for the City.

Clerical Error Amendments. The City Council may, by resolution and without requiring the provisions of subsections (B), (C), and (D):

5. Correct spelling or punctuation errors;
6. Cross-reference changes or errors; or
7. Correct other matters determined by the City Attorney to be of a clerical nature and not requiring the notice requirements of Section 74-46, *Required Notice*.

E. **Required Notice.** See Section 1-5, *Amendments or additions to Code,* of the City's Code of Ordinances and Texas Government Code (TGC) Chapter 551, *Open Meetings*.

Section 74-66 - Variances

Unnecessary Hardship Standard. The ZPC may authorize a variance when an applicant can show that a provision of these regulations:

1. Would cause unnecessary hardship if strictly adhered to; and
2. Is because of a physical condition peculiar to the land.

Procedural Requirements.

3. Any variance authorized is required to be entered into writing into the minutes of ZPC meeting specifically stating the reason(s) for which the variance was approved.
4. Not less than two-thirds of the entire membership of the ZPC (not just those present at the meeting) must approve the request.

Required Notice. See TGC, Chapter 551, *Open Meetings.*

Section 74-67 - Appeals

Purpose. The purpose of the appeals process is to provide an opportunity for affected parties to seek review of a decision by either an Administrative Official or a public body in a timely and inexpensive manner.

City Staff Decisions. All decisions of the Administrative Official, Director of Public Works, Building Official, or any other properly designated City Staff representative pertaining to this Chapter, may be appealed to the ZPC.

Deadline to Appeal. All appeals must be fully completed and submitted to the City 30 days after an official decision.

Content. The request for appeal shall clearly state each alleged error or ground for protest which the appellant intends to assert. It cannot be amended, supplemented, or modified after notice of the meeting is posted.

Scope of Review. The ZPC shall review the application in the same manner, using the same approval criteria as the decision-maker. However the following shall apply:

1. No new evidence shall be presented to the ZPC that was not considered by the decision-maker; and
2. No issues shall be reviewed by the ZPC that were not described by the request for appeal.

Parties to Appeal.

3. Only parties shall have standing to bring an appeal. No appeal by a person who is not a party shall be heard.
4. A person is a party if it demonstrates:

That final action of the City caused it injury;

The injury is different in kind or degree from injury to members of the general public; and

The injury can be remedied if the appeal is granted.

5. Any person that owns property within 300 feet of any parcel line that is the subject of the appeal shall not be required to demonstrate injury.

Required Notice. See TGC, Chapter 551, *Open Meetings.*

Article VII. Enforcement and Remedies

Section 74-71 - Violations

A. **Timeframe for Noncompliance to be addressed.**

1. Upon delivery of a proper noncompliance letter the person receiving the letter shall have 10 business days to achieve compliance.

2. Failure to comply with a noncompliance letter within the 10-business day requirement shall constitute an offense.

B. **Other Lawful Actions Permitted.** Nothing herein contained shall prevent the City or other appropriate authority from taking such other lawful action as is necessary to prevent or remedy any violation.

C. **Complaints.** Whenever a violation of this ordinance occurs, or is allowed to have occurred, any person may file a written complaint. Such complaint shall state fully the causes and basis thereof. Said complaint shall be filed with the Administrative Official. The Administrative Official shall then immediately investigate and take any action that is appropriate per the regulations of this Chapter.

Section 74-72 - Penalties

See Section 1-7, *General Penalties for Violations; Alternative Enforcement*.

Section 74-73 - Non-Judicial Remedies

The City may on its own accord enforce any violation of this Chapter by using the following means and methods:

Withholding Permits. The City may deny or withhold permits, approvals, or other forms of authorization for failure to comply with the requirements of this Chapter or those requirements of a referral agency.

Temporary Revocation of Permits. The City may temporarily revoke permits to address an imminent danger to public health, public safety, public or private property or to prevent irreparable harm.

Suspension of Permits. The City may suspend any permits to allow for the correction of a violation or in response to a judgment of a court of competent jurisdiction.

Revocation of Permits and Approvals.

1. *Generally.* Any permit or other approval required by this Chapter may be revoked when it is determined that:

   There is a violation of any provision of this Chapter;

   The permit or approval was issued in error or based on false representation;

   Upon the request of a referral agency with jurisdiction and due cause; or

   There is a departure from approved plans or plats as required under the permit, this Chapter, or the construction requirements.

2. *Notice.* Written notice of revocation shall state a time frame to correct the violation.

3. *Effect of Notice.* No work or construction may proceed after service of the revocation notice except work that is either:

   Necessary to correct a violation; or

   Involves public safety and has the potential to create irreparable harm.

4. *Failure to Correct.* After the period to correct the violation lapses, and said violation has not been corrected or abated, the City may take action to correct such violation and may place a lien upon the property or improvements to the property in an amount to cover all costs related to correction or abatement of the violation.

Stopping Work.

5. *Administrative Official Authority.* The Administrative Official shall have the authority, with or without revoking permits, to stop any or all construction activity necessary to halt, correct, or prevent a violation of this Chapter by issuing a written stop work order.

6. *Issuance of Order*. Upon issuance of a stop work order, the permittee and/or operator shall immediately stop all activity until authorized, in writing, by the City to proceed.

Cease and Desist Orders. The City may issue a cease and desist order to close unlawful land uses or to halt a violation of this Chapter.

Section 74-74 - Judicial Remedies

The City may seek the following judicial remedies or any other judicial remedy as permitted by law to enforce this Chapter in any court of competent jurisdiction:

A. **Injunctive Relief.** The City may seek an injunction to stop any violation granted under this Chapter. In any court proceedings in which the City seeks a preliminary injunction, it shall be presumed that a violation of this Chapter is, or may be, an injury to the public health, safety or general welfare or that public health, safety or general welfare may be irreparably injured.

B. **Abatement.** The City may seek a court order in the nature of mandamus, abatement, or other action to abate or remove a violation, or to otherwise restore the premises in question to the condition in which they existed prior to a violation.

Article VIII. Definitions and Interpretation

Section 74-81 - Rules of Construction

A. **Headings.** Section and subsection headings are provided for illustrative purposes only and shall not be deemed to limit, govern, modify, or otherwise affect the scope, meaning, intent of any provision of this Chapter.

B. **Conflict between Text and Tables.** In the case of any real or apparent conflict between the text of this Chapter and any illustration, figure, or table explaining the text, the text shall control.

C. **Shall and May.**

1. "Shall" is always mandatory.
2. "May" is always discretionary.

D. **Interpretation.** The provisions of this this Chapter shall:

1. Be held to be minimum requirements;
2. Be liberally construed in favor of the governing body; and
3. Not be deemed a limitation or repeal of any other powers granted by state statute.

E. **Word Tense.** Words used in the singular include the plural, and the plural the singular, unless the context clearly indicates the contrary.

Section 74-82 - Definitions

Accessory shall mean a building, structure, or use that is lawfully permitted and subordinate to a lawfully permitted principal building, structure, or use on the same building site.

Administrative Official shall mean the City Manager or his designee to administer the regulations and provisions of this Chapter of the Code of Ordinances.

Applicant shall mean any owner of real property or their agent, dividing or proposing to divide land so as to constitute a subdivision.

Block shall mean an area bounded by street areas and occupied by or intended for occupancy by buildings.

City shall mean the City of West University Place, Texas.

City Council shall mean the City Council of the City of West University Place, Texas.

Driveway shall mean an outdoor area designated or improved to provide a path or route for motor vehicles.

Easement shall mean a granted right to a person to use land owned by another for a specific purpose.

Final plat shall mean the map or drawing on which an applicant's plan of subdivision is presented in final recordable form for approval by the ZPC.

Inactive application shall mean an application that has been submitted to the City, however the application does not fully comply with the standards of this Chapter meaning that City Staff is unable to place it on a ZPC agenda for potential adoption.

Local street shall mean all streets within the municipal limits of the City that are not identified by this Chapter as being a major thoroughfare.

Lot shall mean a contiguous area of land with boundaries established by a legal instrument such as a recorded deed, court order, or a recorded plat, which is recognized as a separate legal entity for purposes of transfer of title. The term "lot" does not include areas within rights-of-way and shall not be construed to allow the creation of lots that are not lawfully created in conformance with the provisions of this Chapter.

Major thoroughfare shall mean the following streets that are either within the City limits or directly border the City: Bissonnet St., Kirby Dr., Bellaire Blvd., and West Holcombe Blvd.

Minor Plat Amendment shall mean a type of replat that can be approved administratively because the necessary edits being requested are of the type identified by TLGC Section 212.016, *Amending Plat*.

Person shall mean a natural person, partnership, corporation, sole proprietorship, representative, governmental entity, unincorporated business association or any other entity.

Plat shall mean a map or chart of a subdivision including replats.

Preliminary plat shall mean the map or drawing on which an applicant’s plan of subdivision is initially presented to the ZPC.

Replat shall mean a subdivision plat representing land that has previously been included in a recorded subdivision plat.

Right-of-Way shall mean area on, below, or above a street, sidewalk, alley, waterway, or utility easement in which a governmental body has a legal interest. The term does not include the wireless telecommunications.

Stale application means an inactive application for a subdivision that has been submitted to the City not meeting the requirements necessary for approval and the applicant has failed to address the City Staff and/or referral agency comments 90 days after the comments hav.e been forwarded to the applicant.

Street shall mean a public right-of-way for vehicular traffic (including bicycles) whether designated a street, highway, thoroughfare, parkway, throughway, road, avenue, boulevard, lane, place, public roadway or however otherwise designated.

Subdivision shall mean the division of a lot or tract of land into two or more lots, sites or other divisions of the land for the purpose, whether immediate or future, of sale or building development.

Tract shall mean a portion of a subdivision intended for development, typically being substantially larger than a lot and intended for either large-scale development, future subdivision into smaller lots, or preservation as open space.

Zoning and Planning Commission (ZPC) shall mean the ZPC for the City of West University Place, Texas.

Subdivision Regulation Revisions

Zoning and Planning Commission Meeting

Thursday, November 14, 2019 @ 6:15 PM

Presented by: David Baird, JD, AICP

KENDIG KEAST COLLABORATIVE

Primary Revision Goals: Chapter 74, *Subdivisions*

- ✓ Ensure that Chapter 74 does not conflict with any other Chapters of the City Code
- ✓ Reorganize into a more intuitive and easier to use format
- ✓ Provide cross-referencing where appropriate to link Chapter 74 with the rest of the City Code
  - Appendix A, *Zoning Ordinance*
  - Chapter 18, *Buildings and Development*
  - Construction Design Manual
  - Stormwater Management Plan

THE CITY OF WEST UNIVERSITY PLACE TEXAS

KENDIG KEAST COLLABORATIVE

Primary Revision Goals: Chapter 74, *Subdivisions*

- ✓Develop an Enforcement and Remedies Article
- ✓Add provisions for Text Amendments and Appeals
- ✓Update, consolidate, and ensure definitions do not conflict with other City Codes
- ✓Ensure duplication does not exist between Chapter 74 and other Chapters of City Code
- ✓Formalize Development Review Process

THE CITY OF WEST UNIVERSITY PLACE TEXAS

KENDIG KEAST COLLABORATIVE

Reorganization: Annotated Outline

Chapter 74, Subdivision Regulations	
Proposed Reorganization	**Existing Sections Relocated**
Article I, Authority, Purpose, Jurisdiction, and Applicability	
Sec. 74-1. - Purposes	Sec. 74-2
Sec. 74-2. - Jurisdiction	New
Sec. 74-3. - Applicability	Sec. 74-4(a)
Sec. 74-4. – Consistency with Zoning and City Plans	New
Sec. 74-5. – Transition Standards	New

Reorganization: Annotated Outline

Chapter 74, Subdivision Regulations	
Proposed Reorganization	**Existing Sections Relocated**
Article II, Subdivision Standards	
Sec. 74-11. – Lots	Sec. 74-109
Sec. 74-12. – Building Sites	Sec. 18-53; Appendix A: Sec. 5-100; Appendix A: Sec. 5-102 (excluding Table 5.1)
Sec. 74-13. – Blocks	New
Sec. 74-14. – Streets and Public Rights-of-Way	Sec. 74-114; *Cross Reference to City Street Construction Design and Specifications* (*in the process of being developed by City Staff*)
Sec. 74-15. – Access Management	*Cross Reference to Appendix A: Table 7-5a*
Sec. 74-16. – Curbs, Gutters, and Sidewalks	Sec. 18-62
Sec. 74-17. – Easements	Sec. 74-113
Sec. 74-18. – Survey and Monument Specifications	Sec. 74-8; Sec. 74-110
Sec. 74-19. – Sewer, Water and Utility Connections	Sec. 74-111; Sec. 74-112
Sec. 74-20. – Construction Improvements	Sec. 74-6; Sec. 74-105; Sec. 74-106; Sec. 74-106(1);
Sec. 74-21. – Drainage, Stormwater and Flood Management	Sec. 74-113, *Cross Reference to Chapter 18, Article IX, and Stormwater Management Plan*

KENDIG KEAST COLLABORATIVE

Reorganization: Annotated Outline

Chapter 74, Subdivision Regulations	
Proposed Reorganization	**Existing Sections Relocated**
Article III, Administrative Bodies	
Sec. 74-31. – Administrative Official	New
Sec. 74-32. – City Council	New
Sec. 74-33. – Development Review Committee (DRC)	New
Sec. 74-34. – Zoning and Planning Commission (ZPC)	Sec. 74-3
Article IV, Standardized Development Procedures	
Sec. 74-41. – Pre-Application Conference	New
Sec. 74-42. – Application Filing Process	Sec. 74-40; Sec. 74-41; Sec. 74-42
Sec. 74-43. – Application Completeness Review	New
Sec. 74-44. – Inactive and Expired Applications	Sec. 74-72(c)
Sec. 74-45. – City Acceptance of Improvements	Sec. 74-106(2) – Sec. 74-106(4)
Sec. 74-46. – Required Notice	Sec. 74-43

Reorganization: Annotated Outline

Chapter 74, Subdivision Regulations	
Proposed Reorganization	**Existing Sections Relocated**
Article V, Plats	
Sec. 74-51. – Table of Platting Requirements	New; Sec. 74-9
Sec. 74-52. – Preliminary Plats	Sec. 74-44; Sec. 74-45; Sec. 74-76
Sec. 74-53. – Final Plats	Article III [except 74-72(c)]; Sec. 74-108
Sec. 74-54. – Consolidated Preliminary and Final Plats	Sec. 74-10(c)
Sec. 74-55. – Minor Plat Amendments	Sec. 74-10(a-b); Sec. 74-39
Sec. 74-56. – Replats (Major Modifications)	New
Sec. 74-57. – Final Plat Vacation	New

THE CITY OF WEST UNIVERSITY PLACE TEXAS

KENDIG KEAST COLLABORATIVE

Reorganization: Annotated Outline

Chapter 74, Subdivision Regulations	
Proposed Reorganization	**Existing Sections Relocated**
Article VI, Permits and Applications	
Sec. 74-61. – Building Permit	Sec. 74-5; Sec. 74-107
Sec. 74-62. – Floodplain Development Permit	*Cross Reference: Art. IX of Chapter 18*
Sec. 74-63. – Site Development Plan	Sec. 18-54; Sec. 74-4(b)
Sec. 74-64. – Site Drainage Plan	Sec. 18-56
Sec. 74-65. – Text Amendment	New
Sec. 74-66. – Variances	Sec. 74-7
Sec. 74-67. – Appeals	New

KENDIG KEAST COLLABORATIVE

Reorganization: Annotated Outline

Chapter 74, Subdivision Regulations	
Proposed Reorganization	**Existing Sections Relocated**
Article VII, Enforcement and Remedies	
Sec. 74-71. - Violations	New
Sec. 74-72. – Penalties	New
Sec. 74-73. – Non-Judicial Remedies	New
Sec. 74-74. – Judicial Remedies	New
Article VIII, Definitions and Interpretation	
Sec. 74-81. – Rules of Construction	Appendix A: Sec. 2-100
Sec. 74-82. – Definitions	Sec. 74-1; Appendix A, Sec 2-102 (appropriate terms)

THE CITY OF WEST UNIVERSITY PLACE TEXAS

KENDIG KEAST COLLABORATIVE

Important Additions and Amendments

✓Sec. 74-4, *Consistency with Zoning and City Plans*

- Ensures applications are consistent with Zoning and City Plans

✓Sec. 74-5, *Transition Standards*

- Ensures applications are processed under the regulations in effect at time of application filing

Important Additions and Amendments

✓Sec. 74-11, *Lots*

- Clarifies lot consolidation and lot subdivision process
- Ensures only one primary structure per lot after completion of work permits
- Ensures accessory structures are not the only structure left on a lot after subdivision process

✓Sec. 74-13, *Blocks*

- Establishes minimum and maximum block length
- Ensures unwanted alleys are not created

THE CITY OF WEST UNIVERSITY PLACE TEXAS

KENDIG KEAST COLLABORATIVE

Important Additions and Amendments

- ✓ Article III, *Administrative Bodies*
  - Clarifies and identifies roles and responsibilities of Administrative Official and City Council
  - Formalizes Development Review Committee (DRC)
- ✓ Sec. 74-41, *Pre-Application Conference*
  - Formalizes and encourages applicant conference and communication with City Staff prior to project filing
- ✓ Sec. 74-43, *Application Completeness Review*
  - Establishes when an application is complete and deemed to be filed

THE CITY OF WEST UNIVERSITY PLACE TEXAS

KENDIG KEAST COLLABORATIVE

Important Additions and Amendments

Table 74-46 Required Notice		
Type of Application	**By Mail**	**By Publication**
Plats		
Preliminary Plats	Not Required	Required[2]
Final Plats	Not Required	Required[2]
Consolidated Preliminary and Final Plats	Not Required	Required[2]
Minor Plat Amendments	Not Required	Not Required
Replats	Required[1]	Required[2]

Notes:

1. Required per Texas Local Government Code (TLGC) Section 212.015, *Additional Requirements for Certain Replats*.
2. Required per Texas Government Code (TGC), Chapter 551, *Open Meetings.*

THE CITY OF WEST UNIVERSITY PLACE TEXAS

KENDIG KEAST COLLABORATIVE

Important Additions and Amendments

Table 74-51 Platting Requirements					
Plat Type	**Required For**	**Timing**	**Exceptions**	**Issued By**	**Cross Reference**
Preliminary Plats	Subdivision of real property	Required prior to final plat	*See* TLGC Chapter 212, *Municipal Regulation of Subdivisions and Property Development* and *Sec. 74-52, Consolidated Preliminary and Final Plats*	Zoning and Planning Commission	Sec. 74-52, *Preliminary Plats*
Final Plats	Subdivision of real property	Required after preliminary plat and prior or concurrent with site development plan	*See* TLGC Chapter 212, *Municipal Regulation of Subdivisions and Property Development*	Zoning and Planning Commission	Sec. 74-53, *Final Plats*

THE CITY OF WEST UNIVERSITY PLACE TEXAS

KENDIG KEAST COLLABORATIVE

Important Additions and Amendments

Table 74-51 Platting Requirements					
Plat Type	**Required For**	**Timing**	**Exceptions**	**Issued By**	**Cross Reference**
Consolidated Preliminary and Final Plats	Subdivision of real property (only applicable for projects meeting the requirements of Sec. 74-54)	Prior or concurrent with site development plan	N/A	Zoning and Planning Commission	Sec. 74-54, *Consolidated Preliminary and Final Plats*
Minor Plat Amendments	Amendments to plats which fall under TLGC Sec. 212.016, *Amending Plat*.	Whenever requirements can be identified as being met	None	Administrative Official	Sec. 74-55, *Minor Plat Amendments*
Replats (Major Modifications)	Subdivision of real property	After plat approval when edits to a plat are necessary	*See* TLGC Chapter 212, *Municipal Regulation of Subdivisions and Property Development*	Zoning and Planning Commission	Sec. 74-56, *Replats (Major Modifications)*

THE CITY OF WEST UNIVERSITY TEXAS
IG KEAST COLLABORATIVE

Important Additions and Amendments

✓Sec. 74-65, *Major Modification (Replat)*

- Establishes a process for a written petition and legal protest process for a prior plat decision
- Affirmative vote of three-fourths of ZPC required to reverse a previous decision

✓Sec. 74-67, *Appeals*

- Establishes scope of review and procedures
- Identifies who can be a party to an appeal

KENDIG KEAST COLLABORATIVE

Important Additions and Amendments

✓Article VII, *Enforcement and Remedies*

- Establishes procedures for noncompliance and complaints
- Establishes what remedies City Staff may use without requiring approval of a court of law
- Establishes what remedies City Staff are required to seek via a court order prior to attempting to enforce

Subdivision Regulation Revisions

Zoning and Planning Commission Meeting

Thursday, November 14, 2019 @ 6:15 PM

Presented by: David Baird, JD, AICP

KENDIG KEAST COLLABORATIVE

AGENDA MEMO

Business of the City Council
City of West University Place, Texas

Meeting Date	01.27.20	**Agenda Item**	10
Approved by City Manager	Yes	**Presenter(s)**	Richard Wilson, ZPC Chair Gerardo Barrera, Director
Reviewed by City Attorney	Yes	**Department**	Zoning and Planning Commission Public Works Department
Subject	Weeds/Property Conditions		
Attachments	Ordinance Amending Chapter 42		
Financial Information	Expenditure Required:		N/A
	Amount Budgeted:		N/A
	Account Number:		N/A
	Additional Appropriation Required:		N/A
	Additional Account Number:		N/A

Executive Summary

Staff has identified some areas of the Code of Ordinances where updates and/or clarifications are required. With the assistance of Kendig Keast Collaborative (KKC), staff and ZPC revised the ordinance language that reflects current industry standards and comparable neighboring municipalities. The updated property maintenance regulations reflect current State law, as well as added language that controls or prohibits the planting of invasive species.

Key revisions to this Chapter include:

- Entire Sections 42-46 through 42-51 were replaced;
- Sec. 42-46 **Purpose** defines the necessity to ensure that private property is maintained;
- Sec. 42-47 **Applicability** was added to ensure all parcels of property within the City adhere to the regulations;
- Sec. 42-48 **Regulations** declared certain conditions a public nuisance that would be fully abated by the property owner;
- Sec. 42-49 **Enforcement** was added which authorizes the City to take necessary actions for compliance; and
- Sec. 42-50 **Definitions** were expanded and certain items more clearly defined.

The amendments to this Chapter allow a more comprehensive approach to property conditions in an effort to attain compliance. At its meeting on November 14, 2019, the Zoning and Planning Commission voted unanimously to accept the proposed changes to the Ordinance and present to City Council for final approval.

Recommended Action

The Zoning and Planning Commission and staff recommend that City Council approve the ordinance amending Chapter 42, Article III, Condition of Private Property, on the first of two readings.

City of West University Place
Harris County, Texas

ORDINANCE NO. XXXX

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF WEST UNIVERSITY PLACE, TEXAS; AMENDING CHAPTER 42, ARTICLE III, CONDITION OF PRIVATE PROPERTY, SECTIONS 42-46 THROUGH 42-51 OF THE CODE OF ORDINANCES OF THE CITY OF WEST UNIVERSITY PLACE, TEXAS, TO REVISE THE CRITERIA FOR CONDITIONS OF PRIVATE PROPERTY (HIGH GRASS AND WEEDS, STAGNANT WATER, ETC.) WITHIN THE CITY AND CONTAINING FINDINGS AND PROVISIONS RELATING TO THE SUBJECT.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WEST UNIVERSITY PLACE, TEXAS, THAT:

Section 1. Chapter 42, Article III of the Code of Ordinances, Sections 42-46 through Section 42-51 of the City of West University Place, Texas is amended by the repeal of the existing Article III, Sections 42-46 through 42=51 and the adoption of a new Article III, Section 42-46 through 42-51 to read as set out in Appendix A, attached hereto. All other portions of Chapter 42 of the Code of Ordinances not specifically amended hereby remain in full force and effect.

Section 2. All ordinances and parts of ordinances in conflict with this Ordinance are repealed to the extent of the conflict only.

Section 3. If any word, phrase, clause, sentence, paragraph, section or other part of this Ordinance or the application thereof to any person or circumstance, shall ever be held to be invalid or unconstitutional by any court of competent jurisdiction, neither the remainder of this Ordinance, nor the application of such word, phrase, clause, sentence, paragraph, section or other part of this Ordinance to any other persons or circumstances, shall be affected thereby.

Section 4.. The City Council officially finds, determines and declares that a sufficient written notice of the date, hour, place and subject of each meeting at which this Ordinance was discussed, considered or acted upon was given in the manner required by the Texas Open Meetings Act, as amended, and that each such meeting has been open to the public as required by law at all times during such discussion, consideration and action. The City Council ratifies, approves and confirms such notices and the contents and posting thereof.

Section 5. This Ordinance takes effect immediately upon its passage and adoption on second reading.

PASSED, APPROVED AND ADOPTED ON FIRST READING on the ____ day of _____, 2020.

Councilmembers Voting Aye:
Councilmembers Voting No:
Councilmembers Absent:

PASSED, APPROVED AND ADOPTED ON SECOND READING, AND SIGNED, on the _____ day of _____, 2020.

Councilmembers Voting Aye:
Councilmembers Voting No:
Councilmembers Absent:

Attest: _____ **Signed:** _____
City Secretary (Seal) Mayor

Recommended: _____
City Manager

Approved as to legal form: _____
City Attorney

November 14, 2019

Appendix "A"

Amend Chapter 42, Article III. Condition of Private Property by replacing Sections 42-46 through 42-51 in their entirety and replacing with the proposal below:

ARTICLE III. – CONDITION OF PRIVATE PROPERTY

Sec. 42-46. - Purpose.

The regulations of this Article are necessary to ensure that private property is maintained at a level that will not create a public nuisance which may include but is not limited to brush, garbage, weeds, refuse, rubbish, or any unsanitary condition likely to attract rodents and/or disease.

Sec. 42-47. - Applicability.

All parcels of property within the municipal limits of the City shall adhere to the regulations of this Article which are consistent with Chapter 342, *Local Regulation of Sanitation*, and Chapter 343, *Abatement of Public Nuisances*, of the State of Texas Health and Safety Code.

Sec. 42-48. - Regulations.

(a) **Public Nuisances to be Abated.** The following circumstances are deemed to be a public nuisance and shall be fully abated by the owner of the property:

(1) The existence of an excessive accumulation of weeds that exceed 10 inches in height and remain on site more than seven consecutive days.

(2) Grasses, other than ornamental or decorative grasses, that exceed 10 inches in height and remain on site more than 7 consecutive days;

(3) Any garbage allowed to remain in one place for more than 24 hours and:

(i) Is not located fully within a receptacle and
(ii) Makes the premises unwholesome.

(4) Any brush or rubbish allowed to remain in one place for the greater of ~~more than~~ 72 hours or the number of days until the next scheduled ~~trash~~ yard waste pickup day.

(5) Any stagnant water or unfilled holes on the premise which can retain water and allow it to become stagnant or produce any unwholesome condition on the property for more than seven consecutive days;

(6) The accumulation or storage of any goods or inventory that can be viewed from the public right-of-way and used in connection with any commercial activity, including without limitation building materials;

(7) Any discarded personal property allowed to remain in one place longer than seven consecutive days;

(8) Any item that is spoiled, corroded, broken, or inoperable and allowed to remain in one place longer than seven consecutive days; or

(9) Any spillage of oil or grease from a grease trap or grease or oil containment area and not abated within 72 hours.

(b) **Owner Responsibility.** The owner of the property at issue has a responsibility to fully abate the public nuisance through the owner's privately funded means.

Sec. 42-49. – Enforcement.

(a) **Right of Entry**. The Public Works Director or his designee is authorized to inspect any property within the municipal boundaries of the City at any reasonable time provided that the inspection is from the public right-of-way or the inspection is consistent with the requirements of Section 18-23, *Right of Entry*, of the City's Code of Ordinances.

(b) **Violations**.

(1) *Issuance of Citations*. The Public Works Director or his designee is authorized to issue notices or citations for violations of the terms and provisions of this Section to the owner or occupant of the property upon which condition exists.

(2) *Procedures and Penalties*. Any violation of this Section, and any associated penalties that result from it, shall be dealt with consistent with the requirements of Section 1-7, *General penalties for violations; alternative enforcement*, of the City's Code of Ordinances.

(c) **Municipal Abatement**. Whenever there are conditions in violation of this Article, the Public Works Director or his designee is authorized to abate those conditions by doing work or making improvements upon the property provided that the process of conducting the work is pursuant to Section 342.006, *Work Improvements by Municipality; Notice*, of the State of Texas Health and Safety Code.

(d) **Municipal Lien**. Pursuant to Section 342.007, *Assessment of Expenses; Lien*, of the State of Texas Health and Safety Code, the City has the right to obtain a lien on the property at issue to recover any costs associated with municipal abatement process as described above in subsection (b).

(e) **Separate Offenses**. Each single violation of any regulation of this Section 42-48, *Regulations*, shall be considered a separate and distinct offense.

(f) **Separate Remedies**. The remedies prescribed by this Section are separate, and the City may avail itself of one or more without precluding any of the others. Under no circumstances will a prosecution for a violation affect the right of the City to pursue abatement, liens, or both.

Sec. 42-50. - Definitions.

(a) **Abate** means to eliminate or remedy by removal, repair, or rehabilitation.

(b) **Brush** means all ~~uncultivated~~ shrubs, bushes, and small trees including yard waste.

(c) **Discarded** means any item of personal property that is allowed to remain in one place outside and exposed to the elements, with no apparent use being made of it. The term "discarded" may include, but is not limited to, motor vehicles or parts of motor vehicles, trailers or parts of trailers, furniture, fixtures, carpets, or debris from any construction, remodeling, or demolition activity.

(d) **Garbage** means decayable waste from a public or private establishment or ~~restaurant~~ residence. The term includes vegetable, animal, and fish offal and animal and fish carcasses, but does not include sewage, body waste, or an industrial by-product. Hazardous waste shall be subject to regulations as contained in Chapter 38 of the Code of Ordinances.

(e) **Premises** means all privately owned property including vacant land.

(f) **Receptacle** means a container that is composed of durable material and designed to prevent the discharge of its contents and to make its contents inaccessible to animals, vermin, or other pests.

(g) **Rubbish** means nondecayable waste from a public or private establishment or residence.

(h) **Uncultivated** means in a primitive state that is not domesticated or cultivated and is produced by nature.

(i) **Unwholesome** means all stagnant water, filth, carrion, impure matter and any condition liable to produce disease.

(j) **Weed** The term “weed” may include, but is not limited to, uncultivated, invasive vegetative growth which is liable to attract or harbor mosquitoes, rodents, vermin, or other disease-carrying pests and grasses that are harmful to humans by touch, such as poison ivy, poison oak, and poison sumac.

AGENDA MEMO

Business of the City Council
City of West University Place, Texas

Meeting Date	01.27.20	**Agenda Item**	11
Approved by City Manager	Yes	**Presenter(s)**	Harrison Nicholson, Treasurer
Reviewed by City Attorney	Yes	**Department**	Finance
Subject	Bond Counsel Selection		
Attachments	Resolution		
Financial Information	Expenditure Required:		Depends on Amount of Bond Issuance
	Amount Budgeted:		Part of $50,000 Issuance Cost
	Account Number:		100-2030-89026
	Additional Appropriation Required:		N/A
	Additional Account Number:		N/A

Executive Summary

On November 6, 2019, the City published a Notice of a Request for Proposal (RFP) for Bond Counsel Services in the West U Examiner and received six proposals for review and consideration and staff selected three for interviews: Orrick, Herrington & Sutcliffe LLP, Norton Rose Fulbright US LLP, and Bracewell LLP. While all three firms demonstrated the ability to provide bond counsel services, Orrick, Herrington & Sutcliffe LLP stood out in regards to customer service, services provided, and cost efficient fees.

Based on the RFP criteria and results of the interview process, staff recommends that the City Council adopt a Resolution awarding the bond counsel services contract to Orrick, Herrington & Sutcliffe LLP. The contract term shall be for three years beginning February 03, 2020, ending February 02, 2023, with a provision for one two-year extension under the same contract terms and conditions.

Recommended Action

Staff recommends that City Council approve the resolution awarding the bond counsel contract to Orrick, Herrington & Sutcliffe LLP and authorize the City Manager to execute the contract.

City of West University Place
Harris County, Texas

RESOLUTION XXXX

RESOLUTION APPROVING
BOND COUNSEL ENGAGEMENT AGREEMENT

STATE OF TEXAS §
COUNTY OF HARRIS §
CITY OF WEST UNIVERSITY PLACE §

WHEREAS, the City of West University Place, Texas (the "City") intends to issue its bonds, notes and other public securities from time to time (collectively, "Obligations") to finance and refinance City facilities, projects and for authorized purposes and, in connection with each issuance of Obligations, the City's City Council (the "City Council"), working with the City's consultants, advisors and attorneys, must prepare (or provide for the preparation of) a transcript of proceedings, including orders, resolutions, certificates, agreements and other instruments to evidence compliance with applicable federal income tax laws governing the issuance of tax-exempt obligations (collectively, "Proceedings");

WHEREAS, to assist and advise the City Council in connection with the preparation of the Proceedings and to ensure that the Proceedings are prepared and approved in accordance with applicable law, the City Council anticipates having a substantial need for legal counsel to advise the Board and the City in connection with, and to provide specialized legal services relating to, the preparation of the Proceedings and the implementation of procedures required in connection with the issuance of the Obligations and the use and disposition of the proceeds thereof, and such legal services cannot be adequately performed by the personnel of the City based upon the specialized nature of the legal services;

WHEREAS, the specialized legal services cannot reasonably be obtained from attorneys in private practice under a contract providing only for the payment of hourly fees, without regard to the outcome of the matter, because of the nature of the matter for which the services will be obtained; to wit, the matter comprises the issuance of Obligations which will serve as the sole source of payment for the legal services; and

WHEREAS, the City Council wishes to obtain such specialized legal services from attorneys with substantial previous experience serving as bond counsel by engaging the law firm of Orrick, Herrington & Sutcliffe LLP, Houston, Texas ("Orrick"), a nationally recognized law firm in the field of municipal law and state and federal laws governing the issuance of bonds, notes and other public securities;

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WEST UNIVERSITY PLACE, TEXAS:

Section 1. The declarations, determinations and findings declared, made and found in the preamble to this Resolution are hereby adopted, restated and made a part of the operative provisions hereof.

Section 2. The Mayor of the City is hereby authorized and directed to execute the engagement agreement by and between the City and Orrick in substantially the form attached to this Resolution as Exhibit A, for the purpose of engaging such firm as bond counsel to provide specialized legal services described in the engagement agreement relating to the preparation of the Proceedings in connection with the issuance of Obligations from time to time and the implementation of procedures required in connection therewith.

Section 3. It is officially found, determined and declared that the meeting at which this Resolution was adopted was open to the public and public notice of the time, place, and subject matter of this meeting and the notice required by Section 2254.1036, Texas Government Code, was given, all as required by Chapter 551, Texas Government Code.

Section 4. This Resolution shall be in force and effect from and after its final passage, and it is so resolved.

[Execution Page Follows]

APPROVED AND ADOPTED on January 27, 2020.

SIGNED:

_____
Mayor, Bob Higley
City of West University Place, Texas

ATTEST:

_____
City Secretary, Thelma Gilliam
City of West University Place, Texas

RECOMMENDED:

_____
City Manager, Dave Beach
City of West University Place, Texas

APPROVED AS TO FORM:

_____
City Attorney, Alan Petrov
City of West University Place, Texas

EXHIBIT A

(follows this page)

Exhibit A

Orrick, Herrington & Sutcliffe LLP
609 Main Street
40th Floor
Houston, TX 77002-3106
+1 713 658 6400
orrick.com

Marcus Deitz
(713) 658-6420
mdeitz@orrick.com

January 12, 2020

Honorable Mayor and City Council
City of West University Place
3800 University Boulevard
West University Place, Texas 77005

Re: Bond Counsel Services for City of West University Place

Dear Mayor and City Council Members:

This letter and the attached Standard Terms of Engagement (the "Agreement") will set out the terms under which Orrick, Herrington & Sutcliffe LLP ("Bond Counsel") will serve as bond counsel with respect to bonds that the City of West University Place (the "Issuer") intends to issue, subject to voter approval as necessary, and with respect to any equipment notes or similar contractual obligations, tax and/or revenue notes and for any refunding or variable rate bonds of the Issuer, whether currently outstanding or to be issued. Such bonds, notes and obligations are collectively referred to in this letter as the "Bonds." We are very pleased to have the opportunity to serve as Bond Counsel for the Issuer.

The following is based on our standard form of engagement letter. We do not intend this letter to be difficult to understand or filled with "legalese." Please let us know if there is anything you do not fully understand or if there are any changes you would like us to make in order to better tailor the terms of our engagement to the needs of the Issuer.

1. Scope of Services. Bond Counsel shall perform the following legal services in connection with any issuance of Bonds:

(1) Assistance with the conduct of Issuer general obligation elections and the preparation of election documents;

(2) Analysis of the structure of the Bonds under Texas law and the eligibility to finance with tax-exempt bonds under federal tax law.

(3) Consultation with representatives of the Issuer, the financial adviser, underwriters, underwriters' counsel, and others, with respect to the timing, terms, and legal structure of the proposed Bonds.

(4) Preparation of documents to be adopted or entered into by the Issuer required for the authorization, sale and issuance of the Bonds (excluding the Bond Purchase Agreement to be prepared by underwriters' counsel), including preparation of the Bond Order, Paying Agent Registrar Agreement, Escrow Agreement and the other Bond Documents (the "Major Legal Documents").

(5) Preparation of the Continuing Disclosure Agreement pursuant to United States Securities and Exchange Commission Rule 15c2-12.

(6) Preparation of summaries of the Major Legal Documents included in the Official Statement.

(7) Review of any investment agreement entered into at or prior to closing, and the procedures by which bids are solicited, in each case for compliance with federal tax laws related to tax-exemption of interest on the Bonds.

(8) Attendance at such meetings or hearings of the Issuer and working group meetings or conference calls as Issuer may request.

After the closing of any series of the Bonds and upon specific request of the Issuer, providing assistance to the Issuer concerning questions and issues that may arise prior to the maturity of the Bonds.

In rendering opinions and performing legal services under this Agreement, Bond Counsel shall be entitled to rely on the accuracy and completeness of information provided and certifications made by, and opinions provided by counsel to, the Issuer and other parties and consultants, without independent investigation or verification. Knowledge of attorneys and non-attorneys at Bond Counsel's firm not working directly any Bond issue will not be imputed to Bond Counsel nor shall there be any duty on the part of Bond Counsel to make any inquiry of such other attorneys or non-attorneys.

Bond Counsel services are limited to those specifically set forth above. Bond Counsel services do not include representation of the Issuer or any other party to the transaction in any litigation or other legal or administrative proceeding, audit or investigation involving any of the Bonds or any related matter. Bond Counsel services do not include any financial advice or analysis or data or mathematical verification. Also, Bond Counsel services will not include services related to rebate or other post issuance tax compliance or ongoing continuing disclosure filings (although Bond Counsel may be available for separate engagement to provide such services pursuant to separate a contract).

2. Fees. Bond Counsel will be paid a fixed fee for each series of Bonds issued by the Issuer, equal to the greater of $15,000 or $0.95 per $1,000 of the proceeds amount of each series of Bonds issued subject to the following adjustments and assumptions. The fixed fee would be adjusted by adding $5,000 for additional federal tax work required in the event of the issuance of refunding Bonds and $10,000 for work relating to the conduct of a Bond election (contingent on voter approval of such election and to be paid at the time of the issuance of the Bonds approved in such election).

3. Expenses. In addition to the fees provided above, Issuer will pay Bond Counsel for costs and expenses (direct and indirect) incurred in connection with the services, including (without limitation) Texas Attorney General review fees, third-party translation services related to a bond election, filing and publication, document reproduction and delivery, long distance telephone, telecopy, word processing, computer research, secretarial overtime, closing transcripts and other similar expenses. Any filing, publication or printing costs required in connection with the Bonds shall be paid directly by Issuer, but if paid by the Bond Counsel on behalf of Issuer, shall be reimbursed to Bond Counsel on demand. Payment in respect of such costs and expenses will be fixed at $1,500, exclusive of the Texas Attorney General review fees, third-party translation services related to a bond election and extraordinary expenses, provided, however, that any extraordinary expenses shall be approved by the Issuer prior to such expenses being incurred.

4. Payment. Fees and expenses shall be payable by Issuer at or after issuance of each series of Bonds. Payment of all fees and expenses hereunder shall be made from proceeds of the Bonds, or otherwise as mutually determined by the Issuer and Bond Counsel and shall be entirely contingent upon issuance of each series of Bonds.

5. Termination of Agreement, Legal Services and Other Obligations. This Agreement shall be for a term of three years beginning February 3, 2020 and ending February 2, 2023, which may be extended for an additional two years upon mutual agreement of the parties hereto. This Agreement and all legal services to be rendered under it may be terminated by the Issuer at any time by written notice, with or without cause.

6. Nature of Engagement; Client Relationships with Other Parties. The role of bond counsel, generally, is to prepare or review the proceedings for issuance of the bonds, notes or other evidence of indebtedness and to provide a legal opinion with respect to the validity thereof and other subjects (usually including the tax status of interest thereon) addressed by the opinion. Consistent with the historical origin and unique role of bond counsel, and reliance thereon by the public finance market, Bond Counsel's role as bond counsel under this Agreement is to provide opinions and related legal services that represent an objective judgment on the matters addressed rather than the partisan position of an advocate.

Issuer acknowledges that Bond Counsel regularly performs legal services for many private and public entities in connection with a wide variety of matters. For example, Bond Counsel has represented, is representing or may in the future represent other public entities, underwriters, trustees, rating agencies, insurers, credit enhancement providers, lenders, contractors, suppliers, financial and other consultants/advisors, accountants, investment and swap providers/brokers, providers/brokers of derivative products and others who may have a role or interest in the Bond financing or that may be involved with or adverse to the Issuer in this or some other matter. Bond Counsel agrees not to represent any such entity in connection with the any Bond financing, during the term of this Agreement, without the consent of the Issuer. Given the special, limited role of bond counsel described above, Issuer acknowledges and agrees that no conflict of interest exists or would exist, and waives any actual or potential conflict of interest that might be deemed to arise, now or in the future, from this Agreement or any such other relationship that Bond Counsel may have had, have or enter into, and the Issuer specifically consents to any and all such relationships.

7. Limitation of Rights to Parties. Nothing in this Agreement or in any of the documents contemplated hereby, expressed or implied, is intended or shall be construed to give any person other than Issuer and Bond Counsel any legal or equitable right or claim under or in respect of this Agreement, and this Agreement shall inure to the sole and exclusive benefit of the Issuer and Bond Counsel.

8. Counterparts. This Agreement may be executed in any number of counterparts and each counterpart shall for all purposes be deemed to be an original, and all such counterparts shall together constitute but one and the same Agreement.

9. Anti-Boycott Verification. As required by Chapter 2270, Government Code, Bond Counsel hereby verifies that Bond Counsel does not boycott Israel and will not boycott Israel through the term of this agreement. For purposes of this verification, "boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm

on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes.

10. Foreign Terrorists Organizations. Pursuant to Chapter 2252, Texas Government Code, Bond Counsel represents and certifies that, at the time of execution of this agreement neither Bond Counsel, nor any wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of the same (i) engages in business with Iran, Sudan, or any foreign terrorist organization as described in Chapters 806 or 807 of the Texas Government Code, or Subchapter F of Chapter 2252 of the Texas Government Code, or (ii) is a company listed by the Texas Comptroller of Public Accounts under Sections 806.051, 807.051, or 2252.153 of the Texas Government Code. The term "foreign terrorist organization" in this paragraph has the meaning assigned to such term in Section 2252.151 of the Texas Government Code.

If the foregoing is acceptable to the Issuer, please so indicate by returning the enclosed copy of this letter, signed by an authorized officer, and retain an original for your files.

ORRICK HERRINGTON & SUTCLIFFE, LLP

By: _____
Marcus Deitz, Partner

CITY OF WEST UNIVERSITY PLACE, TEXAS

By: _____
Bob Higley, Mayor

STANDARD TERMS OF ENGAGEMENT

Except as modified in writing by the accompanying engagement letter or in another agreement signed by the Client and Orrick, the following provisions shall apply to the relationship between Orrick and the Client.

1. Client

Our engagement is only on behalf of the person(s) or entity(s) identified in the engagement letter accompanying these Standard Terms of Engagement. Our representation of the Client, does not encompass any officer, director, employee, owner, principal, member or partner of or any other person affiliated with the Client; or any subsidiary, parent or other affiliate of the Client. If any of these persons or entities require the services of counsel in connection with the Matter, we would be pleased to discuss whether we might be able to represent any of them, but any such representation would need its own engagement letter, and would depend on our review and disclosure to all concerned of any conflicts of interest that may arise in connection with any such concurrent representation, and on appropriate consents being obtained from the Client and from those seeking such additional representation.

2. Scope of Engagement

The scope of Orrick's representation of the Client is limited to the specific Matter identified in the accompanying engagement letter, and such additional matters as the Client and Orrick may in their mutual discretion agree to from time to time. In each case, Orrick's agreement to any expansion of the scope of its representation of the Client will be subject, among other things, to such additional conflict checks, waivers, retainers, approvals and other arrangements as Orrick may in its professional judgment deem necessary or appropriate in the circumstances. Except as otherwise expressly provided in any written engagement letter (or a written amendment of a prior engagement letter) between Orrick and Client entered into in connection with such expansion of the scope of Orrick's representation, the agreement reflected in these Standard Terms of Engagement, and in the accompanying engagement letter, applies to Orrick's current representation of the Client and to any subsequent matters that Orrick agrees to undertake on the Client's behalf.

3. Conflicts of Interest

Our agreement to represent the Client is conditioned upon the understanding that we are free to represent any clients (including the Client's adversaries) and to take positions adverse to either the Client or an affiliate of the Client in any matters (whether involving the same substantive area(s) of law for which the Client has retained us or some other unrelated area(s), and whether involving business transactions, counseling, litigation or otherwise), which do not involve the same factual and legal issues as matters for which the Client has retained us or may hereafter retain us. In this connection, the Client should be aware that we provide services on a wide variety of legal subjects to a large number of clients both in the United States and internationally, some of whom are or may in the future operate in the same area(s) of business in which the Client is operating or may operate. (A summary of Orrick's current practice areas and the industries in which we represent clients can be found on Orrick's web site at www.orrick.com.) We will, of course, hold in confidence the Client's secrets and confidences. Similarly, the Client understands that while Orrick may obtain confidential information from other clients that may be of interest to the Client, Orrick cannot share such information with the Client. The Client acknowledges that the Client has had the opportunity to consult with its in-house or separate counsel

about the consequences of the waiver set forth in this paragraph. After such consultation, the Client consents to these other representations, agrees that it will not seek to disqualify Orrick from any such present or future representations, and waives any actual or potential conflict that might arise from such current or future representations so long as those other representations do not involve the same factual and legal issues as a current active engagement for the Client.

4. Internal Communications

The occasion might arise for us, at our own expense, to consult regarding our engagement for the Client with our own counsel (e.g., our Chief Legal Officer, other firm lawyers working with our Chief Legal Officer who do not perform work for the Client on the Matter, or our own outside counsel). To the extent that we are addressing our own rights or responsibilities, a conflict of interest might be deemed to exist between Orrick and the Client as to such consultation or resulting communications, particularly if a dispute were ever to arise between Orrick and the Client regarding the Matter. A condition of this engagement is that the Client hereby consents to such consultation occurring, and waives any claim of conflict of interest based on such consultation or resulting communications that could otherwise disqualify us from continuing to represent the Client or from acting in our own behalf, even if such consultation or communications might be deemed adverse to the interests of the Client. The Client acknowledges and agrees that any such consulting and communications are protected, from disclosure to the Client, by Orrick's own attorney client privilege.

5. Responsibilities of Attorney and Client

We will provide to the Client legal counsel and assistance in accordance with the accompanying engagement letter. The Client will not look to or rely upon Orrick for any investment, accounting, financial or other non-legal advice, including without limitation any advice regarding the character or credit of any person with whom the Client may be dealing. Although we will at times communicate with the Client by e-mail, letter, or other written form, we may provide much of our counsel and assistance in telephone conversations and meetings with the Client. If the Client ever wishes for us to confirm any oral advice in writing, please let us know.

For us to represent the Client effectively, we need the Client to provide us with complete and candid information regarding the subject matter of the Matter, to keep us informed of relevant developments, to make decisions necessary for us to fulfill our responsibilities in the Matter and otherwise to provide to us the Client's reasonable assistance and cooperation.

We have a duty of confidentiality to the Client and each of our other clients. We take this duty very seriously and, except to the extent permitted by the applicable rules of professional conduct, we will not disclose any confidential information of the Client to any other client or person. Similarly, we cannot disclose to the Client the confidences of any other client even when such information relates to matters that might affect the Client.

6. Fees, Costs and Disbursements

We will bill the Client on a monthly basis for our services, unless other arrangements are described in the engagement letter to which these "Standard Terms and Conditions" are attached. Our

bills are payable promptly upon receipt, with payment required no later than 30 days following our invoice date.

Unless other arrangements are described in the engagement letter to which these "Standard Terms and Conditions" are attached, our fees are based on the amount of time we spend on the Matter. Each Orrick attorney, legal assistant and other timekeeper assigned to the Matter will have an hourly billing rate. These billing rates, which are set based upon seniority and expertise, are subject to adjustment annually, effective as of January 1 of each year, to reflect, among other factors, seniority advancements.

Unless other arrangements are described in the engagement letter to which these "Standard Terms and Conditions" are attached, in addition to fees, we also will bill the Client on a monthly basis for in-house services such as telephone charges, document reproduction, word processing, computerized research, out-of-town travel and messenger services. Subject to our ethical obligations, certain of such items may be charged at more than Orrick's direct cost to cover its estimated associated administrative costs, overhead and materials. More specific information relating to Orrick's disbursement policies is available upon request.

Unless special arrangements are made, Orrick does not take responsibility for paying fees and expenses of third parties, which will be the Client's responsibility and may be billed directly to the Client.

If any claim or action is brought against Orrick or any of its personnel which alleges negligence or wrongdoing of the Client or a third party, or if Orrick or any current or former attorney or employee of Orrick is asked or required by a third party to testify or produce documents as a result of Orrick's representation of the Client, the Client agrees to pay Orrick for any resulting costs or expenses, including Orrick's time, even if Orrick's representation of the Client has ended. This paragraph is not intended to apply to any claim brought by or on behalf of the Client alleging wrongdoing by Orrick.

The obligation to timely pay our bills is solely the Client's and is not contingent upon, nor shall the payment due date be extended or otherwise affected by any judgment or settlement; any right the Client may have for reimbursement, indemnification or insurance; or the Client's receipt of any other form of payment the Client may claim or expect to receive from some other party. If the Client has any question or issue regarding any bill, the Client should notify us promptly of any such question or issue, and must in any event promptly pay any portion of such bill that is not the subject of a question or issue.

Although Orrick may furnish estimates of fees or costs that are anticipated will be incurred, these estimates shall not be binding, are subject to unforeseen circumstances, and are by their nature inexact.

7. Engagement Termination

The Client may terminate this representation at any time, with or without cause, but in the case of litigation, court approval may be necessary. Subject to the application of the applicable rules of professional responsibility, Orrick also reserves the right to withdraw, if among other things, the Client fails to make timely payments of any invoice, the Client fails to cooperate or follow Orrick's advice on a material matter, or any fact or circumstance arises that, in Orrick's view, renders our continuing

representation unlawful or unethical, or we otherwise have the right to withdraw pursuant to applicable rules of professional responsibility. Any termination of our representation of the Client would be subject to such approval as may be required from any court(s) in which we are appearing on the Client's behalf. In the event of termination by either of us, the Client agrees to pay us fees and costs for work performed prior to termination, to the extent permitted by law.

8. Date of Termination

Orrick's representation of the Client will be considered terminated at the earliest of (i) the Client's termination of the representation, (ii) Orrick's withdrawal from the representation, (iii) the substantial completion of Orrick's substantive work for the Client, or (iv) our sending you our final statement for services rendered in the matter.

9. Client Files (Cloud Storage, Retention and Disposition)

Orrick recognizes that cloud computing services offer valuable tools to its clients and has entered into arrangements with certain providers of those services. Data and documents, including client confidential data uploaded to a cloud computing service rather than stored on equipment or servers controlled by Orrick may be less secure and less confidential than clients expect. If the Client does not wish to have its information and data stored with third party cloud service providers, the Client must advise Orrick not to do so. If the Client requests or directs Orrick to use cloud computing services other than those services provided by Orrick, the Client agrees that Orrick is not responsible for, and agrees to indemnify and hold Orrick harmless from and against any and all claims, suits and actions, arising from use of the cloud computing service requested by the Client, including any security or confidentiality breaches that occur.

Once our engagement in this Matter ends, we will send you a written notice advising you that this engagement has concluded. You may thereafter direct us to return, retain or discard some or all of the documents pertaining to the engagement. Orrick may charge the Client for the reasonable costs of retrieval, assembly, copying, storage and transfer of all files or materials in any format. If Orrick determines it appropriate to dispose of materials relating to the Matter, Orrick will provide you written notice of that determination. If you do not respond to the notice within sixty (60) days, you agree and understand that any materials left with us after the engagement ends may be retained or destroyed at our discretion without further notice to you and in a manner which preserves the confidential and secret nature of their contents. If you have a Records Retention Policy in place with which outside counsel will need to comply, please advise us so that we may so inform our Records Department.

You should understand that "materials" include paper files as well as information in other mediums of storage including voicemail, email, printer files, electronic document files, facsimiles, dictation recordings, video files, and other formats. We reserve the right to make, at our expense, certain copies of all documents generated or received by us in the course of our representation. When you request copies of documents from us, copies that we generate will be made at your expense. We will maintain the confidentiality of all documents throughout this process.

Our own files pertaining to the Matter will be retained by the firm (as opposed to being sent to you) or destroyed. These firm files include, for example, firm administrative records, time and expense

reports, personnel and staffing materials, and credit and account records. For various reasons, including the minimization of unnecessary storage expenses, we reserve the right to destroy or otherwise dispose of any documents or other materials retained by us within a reasonable time after the termination of the engagement.

10. Binding Agreement

The engagement letter and these Standard Terms of Engagement represent the entire understanding and agreement between the Client and Orrick with respect to the subject matter referred to herein. By signing below, the Client acknowledges that the engagement letter and these Standard Terms of Engagement have been carefully reviewed and their content understood and that the Client agrees to be bound by all of the terms and conditions. Furthermore, the Client acknowledges that Orrick has made no representations or guarantees to the Client regarding the outcome of the Matter or the time necessary to complete the Matter. The provisions of this letter may only be amended in writing and signed by both parties.

11. Acceptance of Engagement Terms

By signing below, you acknowledge and represent that you have read the engagement letter and these Standard Terms of Engagement, that you understand and agree to the terms and provisions, and that you are authorized to do so on behalf of the Client.

ORRICK HERRINGTON & SUTCLIFFE, LLP	**CITY OF WEST UNIVERSITY PLACE, TEXAS**
By: _ _____	By: _____
Marcus Deitz, Partner	Bob Higley, Mayor

AGENDA MEMO

Business of the City Council
City of West University Place, Texas

Meeting Date	01.27.20	**Agenda Item**	12
Approved by City Manager	Yes	**Presenter(s)**	K. Walker, Police Chief Jessica Li, Sergeant, Support Serv.
Reviewed by City Attorney	N/A	**Department**	Police
Subject	Direct Link Alarm Monitoring Service Update		
Attachments	None		
Financial Information	Expenditure Required:		N/A
	Amount Budgeted:		N/A
	Account Number:		N/A
	Additional Appropriation Required:		N/A
	Additional Account Number:		N/A

Executive Summary

The West University Place Police Department (WUPD) will give an update on the changes to the City's alarm monitoring service Direct Link. Staff has implemented the following steps to improve Direct Link (DL) services based upon feedback from residents/customers.

1. Identified and installed a 3rd party vendor application (App) to upgrade DL system capabilities to match those offered by other alarm companies;
2. Reclassified the Support Services Manager position to a Community Resource Officer to implement and manage the plan; and
3. Duties for the officer will include, but not be limited to, the following:
   - Market and communicate the benefits of DL with homeowners, businesses, realtors and builders;
   - Coordinate with realtors to ensure that DL information is available to for open houses;
   - Conduct security surveys of homes and businesses; and
   - Conduct follow up visits with homeowners who have experienced false alarms to identify problems and work to prevent/reduce false alarms.

Starting in January, the Police Department did a soft launch of the enhanced services offered. Starting in February, staff will formally launch the enhanced Direct Link alarm monitoring service, which will include new logo/signs and implement the outreach plan to get residents, businesses and realtors familiar with the new services.

Recommended Action

No action by Council is required at this time.

The City of West University Place

A Neighborhood City

CITY COUNCIL
Bob Higley, Mayor
Kevin Trautner, Mayor Pro Tem
John P. Barnes, Councilmember
Lauri Lankford, Councilmember
Ed Sobash, Councilmember

STAFF
David J. Beach, City Manager
Alan Petrov, City Attorney
Thelma Gilliam, City Secretary

CITY COUNCIL ACTION MINUTES

The City Council of the City of West University Place, Texas, met on **Monday, January 13, 2020**, in the Municipal Building, 3800 University, West University Place.

Executive Session (5:30 p.m. in the Council Conference Room)

Mayor Higley called the meeting to order at 5:30 p.m. All Council present. City Manager, City Secretary and City Attorney were also present.

1. <u>Real Property</u>

Councilmember Lankford moved to convene an executive session at 5:30 p.m. in the City Council Conference Room in accordance with Section 551.072 of the Texas Government Code. Mayor Pro Tem Trautner seconded the motion. **MOTION PASSED.**

Ayes: Higley, Trautner, Barnes, Lankford, Sobash
Noes: None
Absent: None

Mayor Higley adjourned the executive session at approximately 6:02 p.m.

Workshop (6:00 p.m. in the Bill Watson Conference Room)

2. <u>Call to Order</u>

Mayor Higley called the workshop to order at approximately 6:05p.m. Council and Staff in attendance: Mayor Pro Tem Trautner, Councilmembers Barnes, Lankford and Sobash, City Manager Beach, and City Secretary Gilliam

3. <u>Board and Commission Vacancies</u>

Matters related to discussion regarding appointment. *Recommended Action: Discuss and provide staff with direction if desired.* ***Ms. Thelma A. Gilliam, City Secretary***

City Manager Beach presented the item and stated that the workshop was for council to review applications for an appointment to Positon 4 of the Building and Standards Commission, which became vacant after the resignation of David Bonner. He said the applications provided were those of applicants not appointed to a position during the appointment process that indicated that they were interested in the vacancy.

City Manager Beach stated staff's suggestion is to move an alternate up to Position 4 and appointment a candidate to then vacant alternate position.

DRAFT

After discussion, the consensus of Council was to move Muddy McDaniel to Position 4 of the Building and Standards Commission and appoint Jonathon Hance to the Alternate C position.

City Manager Beach stated that an item to take formal action is on the regular agenda.

4. Adjourn Workshop

With no further discussion, Mayor Higley adjourned the Workshop at 6:25 p.m.

Regular Meeting (6:30 PM in the Council Chambers)

5. Regular Meeting Called to Order

Mayor Higley called the regular meeting to order at 6:30 p.m. Council and Staff in attendance: Mayor Pro Tem Trautner, Councilmembers Barnes, Lankford and Sobash, City Manager Beach, City Attorney Petrov, and City Secretary Gilliam, and IT Director Dang

6. Pledge of Allegiance

Boy Scout Trey Al-Uqdah, Troop 55, led the Pledge of Allegiance.

7. Public Comments

This was an opportunity for citizens to speak to Council relating to agenda and non-agenda items.

Alida Drewes, 6112 Fordham, spoke on several topics including fire hydrants, curbs, flooding, and dog parks.

8. Building and Standards Commission Appointments

Matters related to possible appointment of a member and an alternate to the Building and Standards Commission. *Recommended Action: Discuss and take any desired action.* ***Ms. Thelma A. Gilliam, City Secretary***

City Manager Beach stated that per discussion in the workshop, Council action is to move Muddy McDaniel from an alternate to Position 4 and appoint Jonathon Hance to the alternate position.

Councilmember Barnes moved to approve a resolution moving Muddy McDaniel from the alternate position (Alternate C) to an active position (Position 4) on the Building and Standards Commission and appoint Jonathon Hance to the alternate position (Alternate C). Mayor Pro Tem Trautner seconded the motion. **MOTION PASSED.**

Ayes: Higley, Trautner, Barnes, Lankford, Sobash
Noes: None
Absent: None

9. Municipal Building Audio-Visual Upgrades

Matters related to awarding the contract for audio-visual improvements for the Municipal Building Council Chambers and Bill Watson Conference Room. *Recommended Action: Approve contract for audio-visual improvements.* ***Mr. Tim Dang, IT Director***

DRAFT

IT Director Dang presented and stated that the project has four components: audio (replacement of microphones), visual (replacement of existing monitors and adding monitors for better viewing), control mechanism for City Secretary, and recording component for City Secretary.

Mayor Higley requested a breakdown between the cost of the audio and the cost of the video. Kevin Salmon with CCS Presentation Systems spoke to provide additional information on the project and project costs.

After Council discussion with staff and the consultant regarding the proposed updated features and costs, Council had concerns and asked staff to revisit the project and provide more options. City Manager Beach stated that staff would research more options and present those options to Council at a future meeting.

10. Consent Agenda

All Consent Agenda items listed were routine and enacted by one motion. There was no separate discussion.

A. City Council Minutes

Approve the City Council Workshop Minutes of December 9, 2019.

Councilmember Barnes moved to approve the Consent Agenda as presented. Councilmember Sobash seconded the motion. **MOTION PASSED.**

Ayes: Higley, Trautner, Barnes, Lankford, Sobash
Noes: None
Absent: None

11. Recess Regular Meeting and Convene into Executive Session

Notice is hereby given that the City Council will convene into executive session.

At 6:58 p.m., Mayor Pro Tem Trautner moved to recess the regular meeting and convene into executive session per Sections 551.071 (Consultation with the City Attorney) and 551.074 (Evaluation of the City Manager) of Chapter 551 of the Texas Government Code. Councilmember Barnes seconded the motion. **MOTION PASSED.**

Ayes: Higley, Trautner, Barnes, Lankford, Sobash
Noes: None
Absent: None

12. Closed Executive Session and Reconvene Regular Meeting

At 8:45 p.m. Mayor Higley closed the executive session and reconvened the regular meeting.

13. City Manager's Contract

Matters related to action resulting from Executive Session relating to the City Manager's contract. *Recommended Action: Take any desired action.* ***City Council***

Mayor Pro Tem Trautner moved to amend Dave Beach's employment agreement in order to increase his salary by 4.5%, which is a dollar value of $7,875 for a new aggregate annual salary effective today of $182,875. Councilmember Barnes seconded the motion. **MOTION PASSED.**

DRAFT

Ayes: Higley, Trautner, Barnes, Lankford, Sobash
Noes: None
Absent: None

14. <u>Adjourn Regular Meeting</u>

With no other matter before council, the meeting will adjourn.

With no other business before Council, Councilmember Barnes moved to adjourn the meeting 8:46 p.m. Mayor Pro Tem Trautner seconded the motion. **MOTION PASSED.**

Ayes: Higley, Trautner, Barnes, Lankford, Sobash
Noes: None
Absent: None

A complete audio of this City Council meeting is available on the City's website or contact the City Secretary's office for a copy.

Prepared by: City Secretary Thelma A. Gilliam

Approved by City Council on: _____

DRAFT

AGENDA MEMO

Business of the City Council
City of West University Place, Texas

Meeting Date	01.27.20	**Agenda Item**	13B
Approved by City Manager	Yes	**Presenter(s)**	A. Taylor, Fire Chief
Reviewed by City Attorney	No	**Department**	Fire
Subject	Purchase of Fire Truck		
Attachments	1. Proposal 2. Specifications 3. Option List 4. HGAC Purchasing Contract		
Financial Information	Expenditure Required:		$747,617
	Amount Budgeted:		$750,000
	Account Number:		101-4010-91505
	Additional Appropriation Required:		N/A
	Additional Account Number:		N/A

Executive Summary

In 2019, the West University Place Fire Department (WUFD) established a planning committee charged with designing a new fire engine to serve the City for the next 25 years. This new apparatus will replace FD unit# 209, a 1995 Pierce Arrow, and serve as the new first line fire apparatus for the City; this will move the current first line apparatus, a 2007 Pierce pumper, to reserve status.

After months of planning and discussion, the specifications and options selected represent the cumulative efforts of the committee to design a fire engine to meet the emergency response needs of the City for many years to come. The planning committee selected Pierce Manufacturing to build the new fire apparatus because they are the largest manufacturer of fire apparatus in North America which provides access to the largest dealer/service network of any manufacturer and because the proven reliability and quality of their equipment that has been used by the Fire Department since 1990.

The new vehicle will be a Pierce Enforcer chassis with the Pierce Ultimate Configuration (PUC) body, which will provide a shorter wheelbase, greater maneuverability and greater capacity for equipment storage.

This purchase will be made through the HGAC Cooperative Contract (HGAC-FS12-19), which satisfies State of Texas bidding requirements, and will be delivered within 8-10 months from the order date.

Recommended Action

Staff recommends Council approve the purchase of the fire pumper from Pierce Manufacturing in an amount of $747,616; and authorize the city manager to execute the contract.

Siddons Martin Emergency Group, LLC
3500 Shelby Lane
Denton, Texas 76207
GDN P115891
TXDOT MVD No. A115890
EIN 27-4333590

January 9, 2020

WEST UNIVERSITY PLACE FIRE DEPARTMENT
3800 UNIVERSITY BLVD
HOUSTON, TX 77005

Proposal for 2020-West University Place

Siddons-Martin Emergency Group, LLC is pleased to provide the following proposal to **WEST UNIVERSITY PLACE FIRE DEPARTMENT** . The unit will comply with all specifications attached. Total price includes delivery to **WEST UNIVERSITY PLACE FIRE DEPARTMENT** and training on operation and use of the apparatus.

Description		Amount
1) Pierce-Custom Enforcer PUC- 863	Vehicle Price	$765,298.00
Unit price -$765,298.00	Chassis Prepay Discount	($10,742.00)
Price guaranteed until January 31,2020. Delivery within 8-10 months of order date. A warranty term of 12 months is included.	Full Prepay Discount	($5,968.00)
	Bond	$2,029.00
	Trade-In	($5,000.00)
	Sub Total	$745,617.00
	Contract (HGAC-FS12-19) Amount	$2,000.00
	Final Sales Price	**$747,617.00**

Additional. Inspection visits to Pierce 2 fire department personnel on two trips is included with the price.

Taxes. Taxes are not included in this proposal. In the event that the purchasing organization is not exempt from sales tax or any other applicable taxes and/or the proposed apparatus does not qualify for exempt status, it is the duty of the purchasing organization to pay any and all taxes due. Balance of sale price is due upon acceptance of the apparatus at the factory.

Late Fee. A late fee of .033% of the sale price will be charged per day for overdue payments beginning ten (10) days after the payment is due for the first 30 days. The late fee increases to .044% per day after the first 30 days until the payment is received. In the event a prepayment is received after the due date, the discount will be reduced by the same percentages above, increasing the overall cost of the apparatus.

Cancellation. In the event this proposal is accepted, and a purchase order is issued then cancelled or terminated by Customer before completion, Siddons-Martin Emergency Group may charge a cancellation fee. The following charge schedule based on costs incurred and may be applied:

(A) 10% of the Purchase Price after order is accepted and entered by Manufacturer;
(B) 20% of the Purchase Price after completion of the approval drawings;

(C) 30% of the Purchase Price upon any material requisition by Manufacturer.

The cancellation fee will increase accordingly as costs are incurred as the order progresses through engineering and into manufacturing. Siddons-Martin Emergency Group endeavors to mitigate any such costs through the sale of such product to another purchaser; however, the customer shall remain liable for the difference between the purchase price and, if applicable, the sale price obtained by Siddons-Martin Emergency Group upon sale of the product to another purchaser, plus any costs incurred by Siddons-Martin Emergency Group to conduct such sale.

Acceptance. In an effort to ensure the above stated terms and conditions are understood and adhered to, Siddons-Martin Emergency Group, LLC requires an authorized individual from the purchasing organization to sign and date this proposal and include it with any purchase order. Upon signing this proposal, the terms and conditions stated herein will be considered binding and accepted by the Customer. The terms and acceptance of this proposal will be governed by the laws of the State of Texas. No additional terms or conditions will be binding upon Siddons-Martin Emergency Group, LLC unless agreed to in writing and signed by a duly authorized officer of Siddons-Martin Emergency Group, LLC

Sincerely,

James Campbell

James Campbell
Siddons-Martin Emergency Group, LLC

I,_____, the authorized representative of **WEST UNIVERSITY PLACE FIRE DEPARTMENT** , agree to all of the terms of this proposal and the specifications attached hereto and this proposal will be binding upon **WEST UNIVERSITY PLACE FIRE DEPARTMENT**.

_____

Signature & Date

Proposal for **West University Place**

Prepared by James Campbell

Siddons-Martin Emergency Group

12/17/2019

CONTENTS

GENERAL DESIGN AND CONSTRUCTION 14
QUALITY AND WORKMANSHIP 14
DELIVERY 15
MANUAL AND SERVICE INFORMATION 15
SAFETY VIDEO 15
PERFORMANCE TESTS 15
SERVICE AND WARRANTY SUPPORT 15
LIABILITY 16
INSURANCE PROVIDED BY BIDDER 16
COMMERCIAL GENERAL LIABILITY INSURANCE 16
COMMERCIAL AUTOMOBILE LIABILITY INSURANCE 17
UMBRELLA/EXCESS LIABILITY INSURANCE 17
INSURANCE PROVIDED BY MANUFACTURER 17
PRODUCT LIABILITY INSURANCE 17
UMBRELLA/EXCESS LIABILITY INSURANCE 18
SINGLE SOURCE MANUFACTURER 18
NFPA 2016 STANDARDS 18
NFPA COMPLIANCY 19
VEHICLE INSPECTION PROGRAM CERTIFICATION 19
PUMP TEST 19
GENERATOR TEST 19
BREATHING AIR TEST 19
BID BOND 19
PERFORMANCE BOND 20
APPROVAL DRAWING 20
ELECTRICAL WIRING DIAGRAMS 20
ENFORCER CHASSIS 20
MAXIMUM OVERALL HEIGHT 20
MAXIMUM OVERALL LENGTH 20
WHEELBASE 21
GVW RATING 21
FRAME 21

FRAME REINFORCEMENT 21
FRONT NON DRIVE AXLE 21
FRONT SUSPENSION 22
FRONT SHOCK ABSORBERS 22
FRONT OIL SEALS 22
FRONT TIRES 22
REAR AXLE 22
TOP SPEED OF VEHICLE 22
REAR SUSPENSION 23
REAR OIL SEALS 23
REAR TIRES 23
TIRE BALANCE 23
TIRE PRESSURE MANAGEMENT 23
FRONT HUB COVERS 23
REAR HUB COVERS 23
CHROME LUG NUT COVERS 24
MUD FLAPS 24
WHEEL CHOCKS 24
WHEEL CHOCK BRACKETS 24
ANTI-LOCK BRAKE SYSTEM 24
BRAKES 24
AIR COMPRESSOR, BRAKE SYSTEM 24
BRAKE SYSTEM 24
BRAKE SYSTEM AIR DRYER 25
BRAKE LINES 25
AIR INLET 25
ADDITIONAL AIR TANK 25
AUTOMATIC MOISTURE EJECTOR(S) 25
ENGINE 25
REPTO DRIVE 26
HIGH IDLE 26
ENGINE BRAKE 26
CLUTCH FAN 27

ENGINE AIR INTAKE 27
EXHAUST SYSTEM 27
RADIATOR 27
COOLANT LINES 28
FUEL TANK 28
DIESEL EXHAUST FLUID TANK 28
AUXILIARY FUEL PUMP 29
FUEL SHUTOFF 29
FUEL COOLER 29
TRANSMISSION 29
TRANSMISSION SHIFTER 29
TRANSMISSION PROGRAMMING 29
TRANSMISSION COOLER 29
DOWNSHIFT MODE (w/engine brake) 30
DRIVELINE 30
STEERING 30
STEERING WHEEL 30
LOGO AND CUSTOMER DESIGNATION ON DASH 30
BUMPER 30
GRAVEL PAN 30
CENTER HOSE TRAY 31
CENTER HOSE TRAY COVER 31
TOW HOOK, TOW EYE 31
CAB 31
CAB ROOF DRIP RAIL 32
CAB PUMP ENCLOSURE 32
INTERIOR CAB INSULATION 32
FENDER LINERS 32
PANORAMIC WINDSHIELD 33
WINDSHIELD WIPERS 33
ENGINE TUNNEL 33
CAB REAR WALL EXTERIOR COVERING 34
CAB LIFT 34

Cab Lift Interlock 35
GRILLE 35
DOOR JAMB SCUFFPLATES 35
TRIM BAND ON CAB FACE 35
SIDE OF CAB MOLDING 35
MIRRORS 35
DOORS 35
Door Panels 36
ELECTRIC OPERATED CAB DOOR WINDOWS 36
CAB STEPS 36
CAB EXTERIOR HANDRAILS 37
STEP LIGHTS 37
FENDER CROWNS 37
CAB INSULATION 37
MOUNTING PLATE ON ENGINE TUNNEL 37
CAB INTERIOR 37
CAB INTERIOR UPHOLSTERY 38
CAB INTERIOR PAINT 38
CAB FLOOR 38
CAB DEFROSTER 38
CAB/CREW CAB HEATER 38
AIR CONDITIONING 39
Gravity Drain Tubes 39
SUN VISORS 40
GRAB HANDLES 40
ENGINE COMPARTMENT LIGHTS 40
ACCESS TO ENGINE DIPSTICKS 40
CAB SAFETY SYSTEM 41
FRONTAL IMPACT PROTECTION 41
SIDE ROLL PROTECTION 42
SEATING CAPACITY 42
DRIVER SEAT 42
OFFICER SEAT 42

RADIO COMPARTMENT 43
REAR FACING LEFT SIDE EMS CABINET 43
Cabinet Light 43
REAR FACING RIGHT SIDE CABINET 43
Cabinet Light 44
FORWARD FACING DRIVER SIDE OUTBOARD SEAT 44
FORWARD FACING CENTER SEATS 44
FORWARD FACING PASSENGER SIDE OUTBOARD SEAT 45
SEAT UPHOLSTERY 45
AIR BOTTLE HOLDERS 45
SEAT BELTS 45
HELMET STORAGE PROVIDED BY FIRE DEPARTMENT 45
CAB DOME LIGHTS 46
PORTABLE HAND LIGHTS, PROVIDED BY FIRE DEPARTMENT 46
CAB INSTRUMENTATION 46
GAUGES 46
INDICATOR LAMPS 47
ALARMS 48
INDICATOR LAMP AND ALARM PROVE-OUT 48
CONTROL SWITCHES 48
CUSTOM SWITCH PANELS 49
DIAGNOSTIC PANEL 50
AIR RESTRICTION INDICATOR 50
"DO NOT MOVE APPARATUS" INDICATOR 51
SWITCH PANELS 51
WIPER CONTROL 51
SPARE CIRCUIT 51
SPARE CIRCUIT 51
SPARE CIRCUIT 52
SPARE CIRCUIT 52
INFORMATION CENTER 52
VEHICLE DATA RECORDER 52
Seat Belt Monitoring System 53

INTERCOM SYSTEM 53
RADIO INTERFACE NOT REQUIRED 54
WIRELESS INTERCOM HEADSET 54
RADIO ANTENNA MOUNT 54
VEHICLE VIDEO SYSTEM 54
ELECTRICAL POWER CONTROL SYSTEM 55
VOLTAGE MONITOR SYSTEM 55
POWER AND GROUND STUDS 55
EMI/RFI PROTECTION 55
ELECTRICAL 56
BATTERY SYSTEM 57
BATTERY SYSTEM 57
MASTER BATTERY SWITCH 57
BATTERY COMPARTMENTS 57
JUMPER STUDS 57
BATTERY CHARGER 57
SHORELINE INLET 58
SHORELINE TO SHORELINE TRANSFER SWITCH 58
ALTERNATOR 58
ELECTRONIC LOAD MANAGEMENT 58
HEADLIGHTS 59
DIRECTIONAL LIGHTS 59
INTERMEDIATE LIGHT 59
CAB CLEARANCE/MARKER/ID LIGHTS 59
FRONT CAB SIDE DIRECTIONAL/MARKER LIGHTS 59
REAR CLEARANCE/MARKER/ID LIGHTING 59
REAR FMVSS LIGHTING 60
LICENSE PLATE BRACKET 60
BACK-UP ALARM 61
CAB PERIMETER SCENE LIGHTS 61
PUMP HOUSE PERIMETER LIGHTS 61
BODY PERIMETER SCENE LIGHTS 61
STEP LIGHTS 61

12 VOLT LIGHTING 61
12 VOLT LIGHTING 62
12 VOLT LIGHTING 62
12 VOLT LIGHTING 62
12 VOLT LIGHTING 63
HOSE BED LIGHTS 63
REAR WORK AREA LIGHTS 63
WALKING SURFACE LIGHT 63
WATER TANK 63
SLEEVE, PLUMBING, THROUGH TANK 64
WATER TANK RESTRAINT 64
BODY HEIGHT 64
HOSE BED 65
HOSE BED DIVIDER 65
HOSE BED COVER 65
CHEVRON, HOSEBED COVER FLAP 66
RUNNING BOARDS 66
TAILBOARD 66
REAR WALL, BODY MATERIAL, PUC 66
TOW BAR 66
COMPARTMENTATION 67
UNDERBODY SUPPORT SYSTEM 67
AGGRESSIVE WALKING SURFACE 68
LOUVERS 68
TESTING OF BODY DESIGN 68
LEFT SIDE COMPARTMENTATION 69
RIGHT SIDE COMPARTMENTATION 70
SIDE COMPARTMENT ROLLUP DOOR(S) 71
REAR COMPARTMENTATION 71
ROLLUP REAR COMPARTMENT DOOR 72
ROLLUP DOOR GUARD 72
COMPARTMENT LIGHTING 72
HATCH COMPARTMENTS 73

MOUNTING TRACKS 73
ADJUSTABLE SHELVES 73
SLIDE-OUT ADJUSTABLE HEIGHT TRAY 73
SLIDE-OUT/TILT-DOWN TRAY 74
SLIDE-OUT FLOOR MOUNTED TRAY 74
SWING OUT TOOLBOARD 75
EQUIPMENT MOUNTING 75
VERTICAL COMPARTMENT PARTITION 75
RUB RAIL 75
BODY FENDER CROWNS 75
HARD SUCTION HOSE 76
HANDRAILS 76
AIR BOTTLE STORAGE (Single) 76
AIR BOTTLE COMPARTMENT STRAP 76
AIR BOTTLE STORAGE (Double) 77
EXTENSION LADDER 77
ROOF LADDER 77
LADDER STORAGE 77
FOLDING LADDER 77
FOLDING LADDER TROUGH 77
PIKE POLE PROVIDED BY FIRE DEPARTMENT 77
6' PIKE POLE PROVIDED BY FIRE DEPARTMENT 78
PIKE POLE/FOLDING LADDER COMPARTMENT 78
LADDER, TOP ACCESS 78
PUMP 79
PUMP MOUNTING 80
MECHANICAL SEALS 80
PUMP GEAR CASE 80
CLUTCH 81
PUMPING MODE 81
PUMP SHIFT 81
TRANSMISSION LOCK UP 82
AUXILIARY COOLING SYSTEM 82

INTAKE RELIEF VALVE - PUMP 82
PRESSURE CONTROLLER 82
PRIMING PUMP 83
PUMP MANUALS 83
PLUMBING, STAINLESS STEEL AND HOSE 83
FOAM SYSTEM PLUMBING 84
MAIN PUMP INLETS 84
VALVES 84
LEFT SIDE INLET 84
RIGHT SIDE INLET 84
ANODE, INLET 84
INLET CONTROL 85
INLET BLEEDER VALVE 85
TANK TO PUMP 85
TANK REFILL 85
LEFT SIDE DISCHARGE OUTLETS 85
RIGHT SIDE DISCHARGE OUTLETS 85
LARGE DIAMETER DISCHARGE OUTLET 85
FRONT DISCHARGE OUTLET 86
HOSE BED DISCHARGE OUTLET 86
DISCHARGE CAPS/ INLET PLUGS 86
OUTLET BLEEDER VALVE 86
DISCHARGE OUTLET CONTROLS 87
DELUGE RISER 87
TELESCOPIC PIPING 87
MONITOR 87
NOZZLE 87
CROSSLAY MODULE 88
ROLLUP DOOR, CROSSLAY ENDS 88
CROSSLAY COMPARTMENT LIGHTING 88
CROSSLAY(S), LOWER 88
1.50" Crosslays 89
Crosslay Hose Trays 89

CROSSLAY(S), UPPER 89
2.50" Crosslay 89
Crosslay Hose Trays 89
FOAM PROPORTIONER 90
System Capacity 90
Control System 90
Low Level, Foam Tank 91
Hydraulic Drive System 91
Foam Concentrate Pump 91
External Foam Concentrate Connection 91
Panel Mounted Strainer/External Pick-Up Connection 91
Pick-Up Hose 92
Discharges 92
System Electrical Load 92
Foam Supply Valve 92
Maintenance Message 92
Flush System 92
FOAM GENERATING SYSTEM, CAF 92
DISCHARGES TO CAF CAPABLE 92
AIR COMPRESSOR, HYDRAULIC DRIVEN 93
AIR TOOL OUTLET 94
SINGLE FOAM TANK REFILL 95
FOAM SYSTEM TRAINING 95
FOAM TANK 95
FOAM TANK DRAIN 95
PUMP CONTROL PANELS (Left Side Control) 95
PUMP PANEL CONFIGURATION 96
PUMP AND GAUGE PANEL 96
PUMP AND PLUMBING ACCESS 97
PUMP COMPARTMENT LIGHT 98
VACUUM AND PRESSURE GAUGES 98
PRESSURE GAUGES 98
WATER LEVEL GAUGE 98

MINI SLAVE UNIT 99
WATER LEVEL GAUGE 99
FOAM LEVEL GAUGE 99
SIDE CONTROL PUMP OPERATOR'S/PUMP PANEL LIGHTING 99
AIR HORN SYSTEM 100
Air Horn Location 100
AIR HORN CONTROL 100
ELECTRONIC SIREN 100
ELECTRIC SIREN, LOCATION, ... 100
SPEAKERS 100
AUXILIARY MECHANICAL SIREN 100
MECHANICAL SIREN INTERLOCK 101
FRONT ZONE UPPER WARNING LIGHTS 101
LIGHTS, FRONT ZONE LOWER 101
HEADLIGHT FLASHER 102
SIDE ZONE LOWER LIGHTING 102
REAR ZONE LOWER LIGHTING 102
WARNING LIGHTS (Rear and Side upper zones) 102
TRAFFIC DIRECTING LIGHT 103
INVERTER / BATTERY CHARGER 103
LOOSE EQUIPMENT 103
NFPA REQUIRED LOOSE EQUIPMENT PROVIDED BY FIRE DEPARTMENT 103
SOFT SUCTION HOSE 105
DRY CHEMICAL EXTINGUISHER PROVIDED BY FIRE DEPARTMENT 105
WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT 105
FLATHEAD AXE PROVIDED BY FIRE DEPARTMENT 105
PICKHEAD AXE PROVIDED BY FIRE DEPARTMENT 105
PAINT 105
PAINT - ENVIRONMENTAL IMPACT 106
PAINT CHASSIS FRAME ASSEMBLY 107
COMPARTMENT INTERIOR PAINT 108
REFLECTIVE STRIPES 108
REAR CHEVRON STRIPING 108

CAB DOOR REFLECTIVE STRIPE 108
LETTERING 108
LETTERING 108
LETTERING 108
LETTERING 108
LETTERING 108
LETTERING 108
LETTERING 109
LETTERING 109
LETTERING 109
CAB GRILLE DESIGN 109
FIRE APPARATUS PARTS MANUAL 109
SERVICE PARTS INTERNET SITE 109
CHASSIS SERVICE MANUALS 109
CHASSIS OPERATION MANUAL 110
ONE (1) YEAR MATERIAL AND WORKMANSHIP 110
ENGINE WARRANTY 110
STEERING GEAR WARRANTY 110
FIFTY (50) YEAR STRUCTURAL INTEGRITY 110
FRONT AXLE THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY 110
REAR AXLE WARRANTY 110
ABS BRAKE SYSTEM THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY 110
TEN (10) YEAR STRUCTURAL INTEGRITY 110
TEN (10) YEAR PRO-RATED PAINT AND CORROSION 110
COMPARTMENT LIGHT WARRANTY 110
TRANSMISSION WARRANTY 111
TRANSMISSION COOLER WARRANTY 111
WATER TANK WARRANTY 111
TEN (10) YEAR STRUCTURAL INTEGRITY 111
ROLL UP DOOR MATERIAL AND WORKMANSHIP WARRANTY 111
SIX (6) YEAR PARTS, ONE (1) YEAR LABOR 111
TEN (10) YEAR PUMP PLUMBING WARRANTY 111
FOAM SYSTEM WARRANTY 111

TEN (10) YEAR PRO-RATED PAINT AND CORROSION 111
THREE (3) YEAR MATERIAL AND WORKMANSHIP 111
VEHICLE STABILITY CERTIFICATION 112
ENGINE INSTALLATION CERTIFICATION 112
POWER STEERING CERTIFICATION 112
CAB INTEGRITY CERTIFICATION 112
CAB DOOR DURABILITY CERTIFICATION 113
WINDSHIELD WIPER DURABILITY CERTIFICATION 113
ELECTRIC WINDOW DURABILITY CERTIFICATION 113
SEAT BELT ANCHOR STRENGTH 113
SEAT MOUNTING STRENGTH 113
CAB DEFROSTER CERTIFICATION 113
CAB HEATER CERTIFICATION 113
CAB AIR CONDITIONING PERFORMANCE CERTIFICATION 114
AMP DRAW REPORT 114

Siddons-Martin Emergency Group is pleased to submit a proposal to West University Place for a **Pierce® multi purpose response vehicle** per your request for quotation. The following paragraphs will describe in detail the apparatus, construction methods, and equipment proposed. This proposal will indicate size, type, model and make of components parts and equipment, providing proof of compliance with each and every item (except where noted) in the departments advertised specifications.

PIERCE MANUFACTURING was founded in 1913. Since then we have been building bodies with one philosophy, "BUILD THE FINEST". Our skilled craftsmen take pride in their work, which is reflected, in the final product. We have been building fire apparatus since the early "forties" giving Pierce Manufacturing over 75 years of experience in the fire apparatus market. Pierce Manufacturing has built and put into service more than 62,500 apparatus, including more than 33,900 on Pierce custom chassis designed and built specifically for fire and emergency applications. Our Appleton, Wisconsin facility has over 870,000 total square feet of floor space situated on approximately 105 acres of land. Our Bradenton, Florida facility has 300,000 square feet of floor space situated on approximately 38 acres of land.

Our beliefs in high ethical standards are carried through in all of our commitments and to everyone with whom we do business. Honesty, Integrity, Accountability and Citizenship are global tenets by which we all live and work. Consequently, we neither engage in, nor have we ever been convicted of price fixing, bid rigging, or collusion in any domestic or international fire apparatus market.

Pierce has only one brand of fire apparatus "Pierce", ensuring you are receiving top of the line product that meets your specification.

In accordance with the current edition of NFPA 1901 standards, this proposal will specify whether the fire department, manufacturer, or apparatus dealership will provide required loose equipment.

Images and illustrative material in this proposal are as accurate as known at the time of publication, but are subject to change without notice. Images and illustrative material is for reference only, and may include optional equipment and accessories and may not include all standard equipment.

GENERAL DESIGN AND CONSTRUCTION

To control quality, ensure compatibility, and provide a single source for service and warranty, the custom cab, chassis, pump module and body will be entirely designed, assembled/welded and painted in Pierce owned manufacturing facilities. This includes, but not limited to the cab weldment, the pumphouse module assembly, the chassis assembly, the body and the electrical system.

QUALITY AND WORKMANSHIP

Pierce has set the pace for quality and workmanship in the fire apparatus field. Our tradition of building the highest quality units with craftsmen second to none has been the rule right from the beginning and we demonstrate that ongoing commitment by: Ensuring all steel welding follows American Welding Society D1.1-2004 recommendations for structural steel welding. All aluminum welding follows American Welding society and ANSI D1.2-2003 requirements for structural welding of aluminum. All sheet metal welding follows American welding Society B2.1-2000 requirements for structural welding of sheet metal. Our flux core arc welding uses alloy rods, type 7000 and is performed to American Welding Society standards A5.20-E70T1. Furthermore, all employees classified as welders are tested

and certified to meet the American welding Society codes upon hire and every three (3) years thereafter. Pierce also employs and American Welding Society certified welding inspector in plant during working hours to monitor weld quality.

Pierce Manufacturing operates a Quality Management System under the requirements of ISO 9001. These standards sponsored by the International Organization for Standardization (ISO) specify the quality systems that are established by the manufacturer for design, manufacture, installation and service. A copy of the certificate of compliance is included with this proposal.

In addition to the Quality Management system, we also employ a Quality Achievement Supplier program to insure the vendors and suppliers that we utilize meet the high standards we demand. That is just part of our overall "Quality at the Source" program at Pierce.

To demonstrate the quality of our products and services, a list of at least two (2) fire departments/municipalities that have purchased vehicles for a second time is provided.

DELIVERY

The apparatus will be delivered under its own power to insure proper break-in of all components while the apparatus is still under warranty. A qualified delivery representative shall deliver the apparatus and remain for a sufficient length of time to instruct personnel in proper operation, care and maintenance of the equipment delivered.

MANUAL AND SERVICE INFORMATION

At time of delivery, complete operation and maintenance manuals covering the apparatus will be provided. A permanent plate will be mounted in the driver's compartment specifying the quantity and type of fluids required including engine oil, engine coolant, transmission, pump transmission lubrication, pump primer and drive axle.

SAFETY VIDEO

At the time of delivery Pierce will also provide one (1) 39-minute, professionally produced apparatus safety video, in DVD format. This video will address key safety considerations for personnel to follow when they are driving, operating, and maintaining the apparatus, including the following: vehicle pre-trip inspection, chassis operation, pump operation, aerial operation, and safety during maintenance.

PERFORMANCE TESTS

A road test will be conducted with the apparatus fully loaded and a continuous run of no less than ten (10) miles. During that time the apparatus will show no loss of power nor will it overheat. The transmission drive shaft or shafts and the axles will run quietly and be free of abnormal vibration or noise. The apparatus when fully loaded will not have less than 25 percent nor more than 50 percent on the front axle, and not less than 50 percent nor more than 75 percent on the rear axle. The apparatus will meet NFPA 1901 acceleration and braking requirements.

SERVICE AND WARRANTY SUPPORT

Pierce dealership support will be provided by Siddons-Martin Emergency Group by operating in conjunction with a Pierce authorized service center. The service center will have factory-trained mechanics on staff versed in Pierce fire apparatus. The service facility will be located within two hundred fifty (250) miles of the fire department.

In addition to the dealership, Pierce has service facilities located in both, Weyauwega, Wisconsin and Bradenton, Florida. Pierce also maintains a dedicated parts facility of over 100,000 square feet in Appleton, Wisconsin. The parts facility stocks in excess of $5,000,000 in parts dedicated to service and replacement parts. The parts facility employs a staff dedicated solely for the distribution and shipment of service and replacement parts.

Service parts for the apparatus being proposed can be found via Pierceparts.com which, is an interactive online tool that delivers information regarding your specific apparatus as well as the opportunity to register for training classes.

As a Pierce customer you have the ability to view the complete bill of materials for your specific apparatus, including assembly drawings, piece part drawings, and beneficial parts notations. You will also have the ability to search the complete Pierce item master through a parts search function which offers all Pierce SKU's and descriptions offered on all Pierce apparatus. Published component catalogs, which include proprietary systems along with an extensive operators manual library is available for easy reference.

Pierce Manufacturing maintains a dedicated service and warranty staff of over 35 personnel, dedicated to customer support, which also maintains a 24 hour 7 day a week toll free hot line, four (4) on staff EVTs, and offers hands-on repair and maintenance training classes multiple times a year.

LIABILITY

The successful bidder will defend any and all suits and assume all liability for the use of any patented process including any device or article forming a part of the apparatus or any appliance furnished under the contract.

INSURANCE PROVIDED BY BIDDER

COMMERCIAL GENERAL LIABILITY INSURANCE

The successful bidder will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of commercial general liability insurance:

Each Occurrence$1,000,000

Products/Completed Operations Aggregate$1,000,000

Personal and Advertising Injury$1,000,000

General Aggregate$2,000,000

Coverage will be written on a Commercial General Liability form. The policy will be written on an occurrence form and will include Contractual Liability coverage for bodily injury and property damage subject to the terms and conditions of the policy. The policy will include Owner as an additional insured when required by written contract.

COMMERCIAL AUTOMOBILE LIABILITY INSURANCE

The successful bidder will, during the performance of the contract, keep in force at least the following minimum limits of commercial automobile liability insurance and coverage will be written on a Commercial Automobile liability form:

Each Accident Combined Single Limit:$1,000,000

UMBRELLA/EXCESS LIABILITY INSURANCE

The successful bidder will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:

Aggregate:$3,000,000

Each Occurrence:$3,000,000

The umbrella policy will be written on an occurrence basis and at a minimum provide excess to the bidder's General Liability and Automobile Liability policies.

The required limits can be provided by one (1) or more policies provided all other insurance requirements are met.

Coverage will be provided by a carrier(s) rated A- or better by A.M. Best.

All policies will provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance will provide the following cancellation clause: Should any of the above described polices be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

Bidder agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate will show the purchaser as certificate holder.

INSURANCE PROVIDED BY MANUFACTURER

PRODUCT LIABILITY INSURANCE

The manufacturer will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of Product Liability insurance:

Each Occurrence$1,000,000

Products/Completed Operations Aggregate$1,000,000

Coverage will be written on a Commercial General Liability form. The policy will be written on an occurrence form. The manufacturer's policy will include the owner as additional insured when required by written contract between the Owner and a Pierce authorized dealer.

UMBRELLA/EXCESS LIABILITY INSURANCE

The manufacturer will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:

Each Occurrence:$25,000,000

Aggregate:$25,000,000

The umbrella policy will be written on an occurrence basis and provide excess to the manufacturer's General Liability/Products policies.

The required limits can be provided by one (1) or more policies provided all other insurance requirements are met.

Coverage will be provided by a carrier(s) rated A- or better by A.M. Best.

All policies will provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance will provide the following cancellation clause: Should any of the above described polices be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

Manufacturer agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate will show the purchaser as the certificate holder.

SINGLE SOURCE MANUFACTURER

Pierce Manufacturing, Inc. provides an integrated approach to the design and manufacture of our products that delivers superior apparatus and a dedicated support team. From our facilities, the chassis, cab weldment, cab, pumphouse (including the sheet metal enclosure, valve controls, piping and operators panel) and body will be entirely designed, tested, and hand assembled to the customer's exact specifications. The electrical system either hardwired or multiplexed, will be both designed and integrated by Pierce Manufacturing. The warranties relative to these major components (excluding component warranties such as engine, transmission, axles, pump, etc.) will be provided by Pierce as a single source manufacturer. Pierce's single source solution adds value by providing a fully engineered product that offers durability, reliability, maintainability, performance, and a high level of quality.

Your apparatus will be manufactured in Appleton, Wisconsin.

NFPA 2016 STANDARDS

This unit will comply with the NFPA standards effective January 1, 2016, except for fire department directed exceptions. These exceptions will be set forth in the Statement of Exceptions.

Certification of slip resistance of all stepping, standing and walking surfaces will be supplied with delivery of the apparatus.

All horizontal surfaces designated as a standing or walking surface that are greater than 48.00" above the ground must be defined by a 1.00" wide line along its outside perimeter. Perimeter markings and designated access paths to destination points will be identified on the customer approval print and are

shown as approximate. Actual location(s) will be determined based on materials used and actual conditions at final build. Access paths may pass through hose storage areas and opening or removal of covers or restraints may be required.Access paths may require the operation of devices and equipment such as the aerial device or ladder rack.

A plate that is highly visible to the driver while seated will be provided. This plate will show the overall height, length, and gross vehicle weight rating.

The manufacturer will have programs in place for training, proficiency testing and performance for any staff involved with certifications.

An official of the company will designate, in writing, who is qualified to witness and certify test results.

NFPA COMPLIANCY

Apparatus proposed by the bidder will meet the applicable requirements of the National Fire Protection Association (NFPA) as stated in current edition at time of contract execution. Fire department's specifications that differ from NFPA specifications will be indicated in the proposal as "non-NFPA".

VEHICLE INSPECTION PROGRAM CERTIFICATION

To assure the vehicle is built to current NFPA standards, the apparatus, in its entirety, will be third-party, audit-certified through Underwriters Laboratory (UL) that it is built and complies to all applicable standards in the current edition of NFPA 1901. The certification will include: all design, production, operational, and performance testing of not only the apparatus, but those components that are installed on the apparatus.

A placard will be affixed in the driver's side area stating the third party agency, the date, the standard and the certificate number of the whole vehicle audit.

PUMP TEST

Underwriters Laboratory (UL) will test, approved, and certify the pump. The test results and the pump manufacturer's certification of hydrostatic test; the engine manufacturer's certified brake horsepower curve; and the pump manufacturer's record of pump construction details will be forwarded to the Fire Department.

GENERATOR TEST

If the unit has a generator, Underwriters Laboratory (UL) will test, approved, and certify the generator. The test results will be provided to the Fire Department at the time of delivery.

BREATHING AIR TEST

If the unit has breathing air, Pierce Manufacturing will draw an air sample from the air system and have the sample certified that the air quality meets the requirements of NFPA 1989, *Standard on Breathing Air Quality for Fire and Emergency Services Respiratory Protection.*

BID BOND

A bid bond as security for the bid in the form of a 10% bid bond will be provided with the proposal. This bid bond will be issued by a Surety Company who is listed on the U.S. Treasury Departments list of acceptable sureties as published in Department Circular 570. The bid bond will be issued by an

authorized representative of the Surety Company and will be accompanied by a certified power of attorney dated on or before the date of bid. The bid bond will include language which assures that the bidder/principal will give a bond or bonds, as may be specified in the bidding or contract documents, with good and sufficient surety for the faithful performance of the contract, including the Basic One (1) Year Limited Warranty, and for the prompt payment of labor and material furnished in the prosecution of the contract.

Notwithstanding any document or assertion to the contrary, any surety bond related to the sale of a vehicle will apply only to the Basic One (1) Year Limited Warranty for such vehicle. Any surety bond related to the sale of a vehicle will not apply to any other warranties that are included within this bid (OEM or otherwise) or to the warranties (if any) of any third party of any part, component, attachment or accessory that is incorporated into or attached to the vehicle. In the event of any contradiction or inconsistency between this provision and any other document or assertion, this provision will prevail.

PERFORMANCE BOND

Notwithstanding any document or assertion to the contrary, any surety bond related to the sale of a vehicle will apply only to the Basic One (1) Year Limited Warranty for such vehicle. Any surety bond related to the sale of a vehicle will not apply to any other warranties that are included within this bid (OEM or otherwise) or to the warranties (if any) of any third party of any part, component, attachment or accessory that is incorporated into or attached to the vehicle. In the event of any contradiction or inconsistency between this provision and any other document or assertion, this provision will prevail.

APPROVAL DRAWING

A drawing of the proposed apparatus will be prepared and provided to the purchaser for approval before construction begins. The Pierce sales representative will also be provided with a copy of the same drawing. The finalized and approved drawing will become part of the contract documents. This drawing will indicate the chassis make and model, location of the lights, siren, horns, compartments, major components, etc.

A "revised" approval drawing of the apparatus will be prepared and submitted by Pierce to the purchaser showing any changes made to the approval drawing.

ELECTRICAL WIRING DIAGRAMS

Two (2) electrical wiring diagrams, prepared for the model of chassis and body, will be provided.

ENFORCER CHASSIS

The Pierce Enforcer™ is the custom chassis developed exclusively for the fire service. Chassis provided will be a new, tilt-type custom fire apparatus. The chassis will be manufactured in the apparatus body builder's facility eliminating any split responsibility. The chassis will be designed and manufactured for heavy-duty service, with adequate strength, capacity for the intended load to be sustained, and the type of service required. The chassis will be the manufacturer's first line tilt cab.

MAXIMUM OVERALL HEIGHT

The maximum overall height of the apparatus will be 116".

MAXIMUM OVERALL LENGTH

The maximum overall length of the apparatus will be 34'6".

WHEELBASE
The wheelbase of the vehicle will be 190.00.

GVW RATING
The gross vehicle weight rating will be 53,800.

FRAME
The chassis frame will be built with two (2) steel channels bolted to five (5) cross members or more, depending on other options of the apparatus. The side rails will be heat-treated steel measuring 10.25" x 3.50" x .375".

Each rail will have a section modulus of 16.00 cubic inches, yield strength of 120,000 psi, and a resisting bending moment (rbm) of 1,921,069 inch-pounds.

FRAME REINFORCEMENT
A full-length mainframe "C" liner will be provided.

The liner will be an internal "C" design, heat-treated steel measuring 9.38" x 3.13" x 0.25". Each reinforcement member will have a section modulus of 3.90 cubic inches, yield strength of 120,000 psi and resisting bending moment (rbm) of 938,762 in-lb.

FRONT NON DRIVE AXLE
The Oshkosh TAK-4® front axle will be of the independent suspension design with a ground rating of 19,500 lb.

Upper and lower control arms will be used on each side of the axle. Upper control arm castings will be made of 100,000-psi yield strength 8630 steel and the lower control arm casting will be made of 55,000-psi yield ductile iron.

The center cross members and side plates will be constructed out of 80,000-psi yield strength steel.

Each control arm will be mounted to the center section using elastomer bushings. These rubber bushings will rotate on low friction plain bearings and be lubricated for life. Each bushing will also have a flange end to absorb longitudinal impact loads, reducing noise and vibrations.

There will be nine (9) grease fittings supplied, one (1) on each control arm pivot and one (1) on the steering gear extension.

The upper control arm will be shorter than the lower arm so that wheel end geometry provides positive camber when deflected below rated load and negative camber above rated load.

Camber at load will be zero degrees for optimum tire life.

The ball joint bearing will be of low friction design and be maintenance free.

Toe links that are adjustable for alignment of the wheel to the center of the chassis will be provided.

The wheel ends must have little to no bump steer when the chassis encounters a hole or obstacle.

The steering linkage will provide proper steering angles for the inside and outside wheel, based on the vehicle wheelbase.

The axle will have a third party certified turning angle of 45 degrees. Front discharge, front suction, or aluminum wheels will not infringe on this cramp angle.

FRONT SUSPENSION

Front Oshkosh TAK-4™ independent suspension will be provided with a minimum ground rating of 19,500 lb.

The independent suspension system will be designed to provide maximum ride comfort. The design will allow the vehicle to travel at highway speeds over improved road surfaces and at moderate speeds over rough terrain with minimal transfer of road shock and vibration to the vehicle's crew compartment.

Each wheel will have torsion bar type spring. In addition, each front wheel end will also have energy absorbing jounce bumpers to prevent bottoming of the suspension.

The suspension design will be such that there is at least 10.00" of total wheel travel and a minimum of 3.75" before suspension bottoms.

The torsion bar anchor lock system allows for simple lean adjustments, without the use of shims. One can adjust for a lean within 15 minutes per side. Anchor adjustment design is such that it allows for ride height adjustment on each side.

The independent suspension was put through a durability test that simulated 140,000 miles of inner city driving.

FRONT SHOCK ABSORBERS

KONI heavy-duty telescoping shock absorbers will be provided on the front suspension.

FRONT OIL SEALS

Oil seals with viewing window will be provided on the front axle.

FRONT TIRES

Front tires will be Goodyear 385/65R22.5 radials, 18 ply G296 MSA tread, rated for 20,050 lb maximum axle load and 68 mph maximum speed.

The tires will be mounted on Alcoa 22.50" x 12.25" polished aluminum disc type wheels with a ten (10)stud, 11.25" bolt circle.

REAR AXLE

The rear axle will be a Dana, Model S26-190, with a capacity of 27,000 lb.

TOP SPEED OF VEHICLE

A rear axle ratio will be furnished to allow the vehicle to reach a top speed of 68 mph.

REAR SUSPENSION
The rear suspension will be Standens, semi-elliptical, 3.00" wide x 53.00" long, 12-leaf pack with a ground rating of 27,000 lb. The spring hangers will be castings.

The two (2) top leaves will wrap the forward spring hanger pin, and the rear of the spring will be a slipper style end that will ride in a rear slipper hanger. To reduce bending stress due to acceleration and braking, the front eye will be a berlin eye that will place the front spring pin in the horizontal plane within the main leaf.

A steel encased rubber bushing will be used in the spring eye. The steel encased rubber bushing will be maintenance free and require no lubrication.

REAR OIL SEALS
Oil seals will be provided on the rear axle(s).

REAR TIRES
Rear tires will be four (4) Goodyear 315/80R22.50 radials with 20 ply G289 WHA tread, rated for 36,360 lb maximum axle load and 68 mph maximum speed.

The tires will be mounted on Alcoa© 22.50" x 9.00" polished aluminum disc wheels with a ten (10) stud 11.25" bolt circle.

TIRE BALANCE
All tires will be balanced with Counteract balancing beads. The beads will be inserted into the tire and eliminate the need for wheel weights.

TIRE PRESSURE MANAGEMENT
There will be a RealWheels LED AirSecure™ tire alert pressure management system provided, that will monitor each tire's pressure. A sensor will be provided on the valve stem of each tire for a total of six (6) tires.

The sensor will calibrate to the tire pressure when installed on the valve stem for pressures between 10 and 200 psi. The sensor will activate an integral battery operated LED when the pressure of that tire drops 5 to 8 psi.

Removing the cap from the sensor will indicate the functionality of the sensor and battery. If the sensor and battery are in working condition, the LED will immediately start to flash.

FRONT HUB COVERS
Stainless steel hub covers will be provided on the front axle. An oil level viewing window will be provided.

REAR HUB COVERS
A pair of stainless steel high hat hub covers will be provided on rear axle hubs.

CHROME LUG NUT COVERS
Chrome lug nut covers will be supplied on front and rear wheels.

MUD FLAPS
Mud flaps with a Pierce logo will be installed behind the front and rear wheels.

WHEEL CHOCKS
There will be one (1) pair of folding Ziamatic, Model SAC-44-E, aluminum alloy, Quick-Choc wheel blocks, with easy-grip handle provided.

WHEEL CHOCK BRACKETS
There will be one (1) pair of Zico, Model SQCH-44-H, horizontal mounting wheel chock brackets provided for the Ziamatic, Model SAC-44-E, folding wheel chocks. The brackets will be made of aluminum and consist of a quick release spring loaded rod to hold the wheel chocks in place. The brackets will be mounted below the left side rear compartment.

ANTI-LOCK BRAKE SYSTEM
The vehicle will be equipped with a Meritor WABCO 4S4M, anti-lock braking system. The ABS will provide a 4-channel anti-lock braking control on both the front and rear wheels. A digitally controlled system that utilizes microprocessor technology will control the anti-lock braking system. Each wheel will be monitored by the system. When any particular wheel begins to lockup, a signal will be sent to the control unit. This control unit then will reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system will eliminate the lockup of any wheel thus helping to prevent the apparatus from skidding out of control.

BRAKES
The service brake system will be full air type.

The front brakes will be Knorr/Bendix disc type with a 17.00" ventilated rotor for improved stopping distance.

The brake system will be certified, third party inspected, for improved stopping distance.

The rear brakes will be Bendix™ 16.50" x 8.63" cam operated with automatic slack adjusters.

AIR COMPRESSOR, BRAKE SYSTEM
The air compressor will be a Bendix®, Model BA-921, with 15.80 cubic feet per minute output at 1,250 rpm.

BRAKE SYSTEM
The brake system will include:

- Brake treadle valve
- Heated automatic moisture ejector on air dryer
- Total air system minimum capacity of 4,272 cubic inches
- Two (2) air pressure gauges with a red warning light and an audible alarm, that activates when air pressure falls below 60 psi

- Spring set parking brake system
- Parking brake operated by a push-pull style control valve
- A parking "brake on" indicator light on instrument panel
- Park brake relay/inversion and anti-compounding valve, in conjunction with a double check valve system, with an automatic spring brake application at 40 psi
- A pressure protection valve to prevent all air operated accessories from drawing air from the air system when the system pressure drops below 80 psi (550 kPa)
- 1/4 turn drain valves on each air tank

The air tank will be primed and painted to meet a minimum 750 hour salt spray test.

To reduce the effects of corrosion, the air tank will be mounted with stainless steel brackets.

BRAKE SYSTEM AIR DRYER
The air dryer will be a WABCO System Saver 1200 IWT, with internal wet tank, spin-on coalescing filter cartridge and 100 watt heater.

BRAKE LINES
Color-coded nylon brake lines will be provided. The lines will be wrapped in a heat protective loom in the chassis areas that are subject to excessive heat.

AIR INLET
One (1) air inlet with 3D series male coupling will be provided. It will allow station air to be supplied to the apparatus brake system through a shoreline hose. The inlet will be located forward in the driver side lower step well of cab. A check valve will be provided to prevent reverse flow of air. The inlet will discharge into the "wet" tank of the brake system. A mating female fitting will also be provided with the loose equipment.

ADDITIONAL AIR TANK
An additional air tank with 1,454 cubic inch displacement will be provided to increase the capacity of the air system. This tank will be dedicated for air horn use.

The air tank will be primed and painted to meet a minimum 750 hour salt spray test. To reduce the effects of corrosion, the air tank will be mounted with stainless steel brackets.

The output flow of the engine air compressor varies with engine rpm. Full compressor output is only achieved at governed engine speed. Engine speed may be limited by generators, pumps and other PTO driven options.

AUTOMATIC MOISTURE EJECTOR(S)
Three (3) automatic moisture ejectors will be installed in the brake system.

The moisture ejector(s) will be provided on the standard reservoir(s).

ENGINE
The chassis will be powered by an electronically controlled engine as described below:

Make:	Detroit™
Model:	DD13®
Power:	505 hp at 1625 rpm
Torque:	1750 lb-ft at 1075 rpm
Governed Speed:	Full Load - 1900 rpm Road/2080 rpm Parked PTO
Emissions Certification:	EPA 2016 (GHG17)
Fuel:	Diesel
Cylinders:	Six (6)
Displacement:	781 cubic inches (12.8L)
Starter:	Delco Remy 39MT™
Fuel Filters:	Dual cartridge style with check valve, water separator, and water in fuel sensor

The engine will include On-board diagnostics (OBD), which provides self diagnostic and reporting. The system will give the owner or repair technician access to state of health information for various vehicle sub systems. The system will monitor vehicle systems, engine and after treatment. The system will illuminate a malfunction indicator light on the dash console if a problem is detected.

REPTO DRIVE

A rear engine power take off will be provided to drive the water pump. A vibration dampener will be provided between the REPTO and water pump. Transmission PTO's used to drive the water pump will not be allowed due to their lower torque ratings. The rear engine power take off will be the same as used extensively throughout the construction industry. Rear engine PTO's allow for continuous 240 hp and 480 lb-ft torque ratings needed for large pump applications. The rear engine power take off will have the same warranty as the engine provided by the engine manufacturer.

HIGH IDLE

A high idle switch will be provided, inside the cab, on the instrument panel, that will automatically maintain a preset engine rpm. A switch will be installed, at the cab instrument panel, for activation/deactivation.

The high idle will be operational only when the parking brake is on and the truck transmission is in neutral. A green indicator light will be provided, adjacent to the switch. The light will illuminate when the above conditions are met. The light will be labeled "OK to Engage High Idle."

ENGINE BRAKE

A Jacobs® engine brake is to be installed with the controls located on the instrument panel within easy reach of the driver.

The driver will be able to turn the engine brake system on/off and have a high, medium and low setting.

The engine brake will be installed in such a manner that when the engine brake is slowing the vehicle the brake lights are activated.

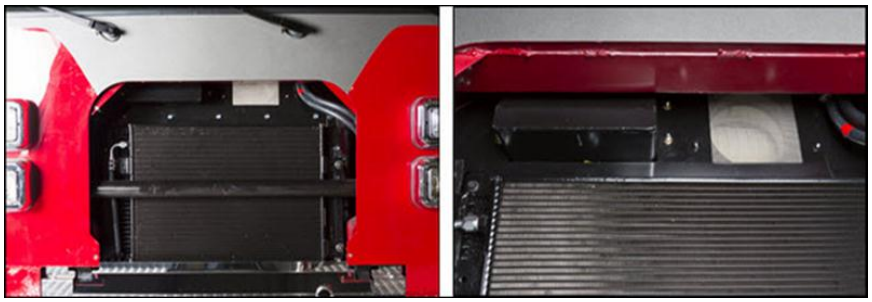
The ABS system will automatically disengage the auxiliary braking device when required.

CLUTCH FAN
A fan clutch will be provided. The fan clutch will be automatic when the pump transmission is in "Road" position, and constantly engaged when in "Pump" position.

ENGINE AIR INTAKE
The engine air intake will be located above the engine cooling package. It will draw fresh air from the front of the apparatus through the radiator grille.

A stainless steel metal screen will be installed at the inlet of the air intake system that will meet NFPA 1901 requirements.

The air cleaner and stainless steel screen will be easily accessible by tilting the cab.



EXHAUST SYSTEM
The exhaust system will include a diesel particulate filter (DPF) and a selective catalytic reduction (SCR) device to meet current EPA standards. The exhaust system will be stainless steel from the turbo to the inlet of the SCR device and will be 5.00" in diameter. An insulation wrap will be provided on all exhaust pipes between the turbo and SCR to minimize the transfer of heat to the cab. The exhaust will terminate horizontally ahead of the right side rear wheels. A tailpipe diffuser will be provided to reduce the temperature of the exhaust as it exits. Heat deflector shields will be provided to isolate chassis and body components from the heat of the tailpipe diffuser.

RADIATOR
The radiator and the complete cooling system will meet or exceed NFPA and engine manufacturer cooling system standards.

For maximum corrosion resistance and cooling performance, the entire radiator core will be constructed using long life aluminum alloy. The radiator core will consist of aluminum fins, having a serpentine design, brazed to aluminum tubes.

The radiator core will have a minimum front area of 1060 square inches.

Supply tank will be made of heavy duty glass-reinforced nylon and the return tank will be mode of aluminum. Both tanks will be crimped onto the core assembly using header tabs and a compression gasket to complete the radiator core assembly. There will be a full steel frame around the inserts to enhance cooling system durability and reliability.

The radiator will be compatible with commercial antifreeze solutions.

The radiator assembly will be isolated from the chassis frame rails with rubber isolators to prevent the development of leaks caused by twisting or straining when the apparatus operates over uneven terrain.

The radiator will include a de-aeration/expansion tank. For visual coolant level inspection, the radiator will have a built-in sight glass. The radiator will be equipped with a 15 psi pressure relief cap.

A drain port will be located at the lowest point of the cooling system and/or the bottom of the radiator to permit complete flushing of the coolant from the system.

Shields or baffles will be provided to prevent recirculation of hot air to the inlet side of the radiator.

COOLANT LINES

Gates, or Goodyear, rubber hose will be used for all engine coolant lines installed by Pierce Manufacturing.

Hose clamps will be stainless steel constant torque type to prevent coolant leakage. They will expand and contract according to coolant system temperature thereby keeping a constant clamping pressure on the hose.

FUEL TANK

A 65 gallon fuel tank will be provided and mounted at the rear of the chassis. The tank will be constructed of 12-gauge, hot rolled steel. It will be equipped with swash partitions and a vent. To eliminate the effects of corrosion, the fuel tank will be mounted with stainless steel straps.

A 0.75" drain plug will be located in a low point of the tank for drainage.

A fill inlet will be located on the left hand side of the body and is covered with a hinged, spring loaded, stainless steel door that is marked "Ultra Low Sulfur - Diesel Fuel Only."

A 0.50" diameter vent will be installed from tank top to just below fuel fill inlet.

The fuel tank will meet all FHWA 393.67 requirements including a fill capacity of 95 percent of tank volume.

All fuel lines will be provided as recommended by the engine manufacturer.

DIESEL EXHAUST FLUID TANK

A 4.5 gallon diesel exhaust fluid (DEF) tank will be provided and mounted in the driver's side body rearward of the rear axle.

A 0.50" drain plug will be provided in a low point of the tank for drainage.

A fill inlet will be provided and marked "Diesel Exhaust Fluid Only". The fill inlet will be located adjacent to the air bottle storage behind a common door on the driver side of the vehicle.

The tank will meet the engine manufacturers requirement for 10 percent expansion space in the event of tank freezing.

The tank will include an integrated heater unit that utilizes engine coolant to thaw the DEF in the event of freezing.

AUXILIARY FUEL PUMP
An auxiliary electric fuel pump will be added to the fuel line for priming the engine. A switch located on the cab instrument panel will be provided to operate the pump.

FUEL SHUTOFF
A shutoff valve will be installed in the fuel line, at the fuel tank.

FUEL COOLER
An air to fuel cooler will be installed in the engine fuel return line.

TRANSMISSION
An Allison 5th generation, Model EVS 4000P, electronic, torque converting, automatic transmission will be provided.

The transmission will be equipped with prognostics to monitor oil life, filter life, and transmission health. A wrench icon on the shift selector's digital display will indicate when service is due.

Two (2) PTO openings will be located on left side and top of converter housing (positions 8 o'clock and 1 o'clock).

A transmission temperature gauge with red light and buzzer will be installed on the cab instrument panel.

TRANSMISSION SHIFTER
A six (6)-speed push button shift module will be mounted to right of driver on console. Shift position indicator will be indirectly lit for after dark operation.

The transmission ratio will be:

1st	3.51 to 1.00
2nd	1.91 to 1.00
3rd	1.43 to 1.00
4th	1.00 to 1.00
5th	0.75 to 1.00
6th	0.64 to 1.00
R	4.80 to 1.00

TRANSMISSION PROGRAMMING
The transmission will be programmed to automatically shift the transmission to neutral when the parking brake is set to simplify operation and increase operational safety.

TRANSMISSION COOLER
A Modine plate and fin transmission oil cooler will be provided using engine coolant to control the transmission oil temperature.

DOWNSHIFT MODE (W/ENGINE BRAKE)
The transmission will be provided with an aggressive downshift mode.

This will provide earlier transmission downshifts to 2nd gear from 6th gear, resulting in improved engine braking performance.

DRIVELINE
Drivelines will be a heavy-duty metal tube and be equipped with Spicer® 1810 universal joints.

The shafts will be dynamically balanced before installation.

A splined slip joint will be provided in each driveshaft where the driveline design requires it. The slip joint will be coated with Glidecoat® or equivalent.

STEERING
Dual Sheppard, Model M110, steering gears, with integral heavy-duty power steering, will be provided. For reduced system temperatures, the power steering will incorporate an air to oil cooler and an Eaton, Model VN20, hydraulic pump with integral pressure and flow control. All power steering lines will have wire braded lines with crimped fittings.

A tilt and telescopic steering column will be provided to improve fit for a broader range of driver configurations.

STEERING WHEEL
The steering wheel will be 18.00" in diameter, have tilting and telescoping capabilities, and a 4-spoke design.

LOGO AND CUSTOMER DESIGNATION ON DASH
The dash panel will have an emblem containing the Pierce logo and customer name. The emblem will have three (3) rows of text for the customer's department name. There will be a maximum of eight (8) characters in the first row, 11 characters in the second row and 11 characters in the third row.

The first row of text will be: West

The second row of text will be: University

The third row of text will be: Place

BUMPER
The bumper will be manufactured from .25" formed steel with a 3/8" bend radius. The bumper will be 10.00" high with a 1.5" top and bottom flange. The bumper will be one piece. With the front face of the bumper to be 81.00" with a 9.00" 45 degree corners with side plates extending back approximately 10.00". The bumper will be metal finished and painted job color.

The bumper will be extended 19.00" from front face of cab.

GRAVEL PAN
A gravel pan, constructed of bright aluminum treadplate, will be furnished between the bumper and cab face. The gravel pan will be properly supported from the underside to prevent flexing and vibration of

the aluminum treadplate.

CENTER HOSE TRAY
A hose tray, constructed of aluminum, will be placed in the center of the bumper extension.

The tray will have a capacity of 150' of 1.75" double jacket cotton-polyester hose.

Black rubber grating will be provided at the bottom of the tray. Drain holes are also provided.

CENTER HOSE TRAY COVER
A bright aluminum treadplate cover will be provided over the center hose tray.

The cover will be "notched" allowing the hose to be pre connected to hose connection.

The cover will be attached with a stainless steel hinge.

A D-ring latch will secure the cover in the closed position and a pneumatic stay arm will hold the cover in the open position. The arm will be center

TOW HOOK, TOW EYE
One (1) chromed steel tow hook and one (1) chromed steel tow eye will be installed under the bumper and attached to the front frame members. The tow hook and eye will be designed and positioned to allow up to a 6,000 lb straight horizontal pull in line with the centerline of the vehicle. The tow hook and eye will not be used for lifting of the apparatus.

CAB
The Enforcer cab will be designed specifically for the fire service and manufactured by the chassis builder.

The cab will be built by the apparatus manufacturer in a facility located on the manufacturer's premises.

For reasons of structural integrity and enhanced occupant protection, the cab will be a heavy duty design, constructed to the following minimal standards.

The cab will have 12 main vertical structural members located in the A-pillar (front cab corner posts), B-pillar (side center posts), C-pillar (rear corner posts), and rear wall areas. The A-pillar will be constructed of solid A356-T5 aluminum castings. The B-pillar and C-pillar will be constructed from 0.13" wall extrusions. The rear wall will be constructed of two (2) 2.00" x 2.00" outer aluminum extrusions and two (2) 2.00" x 1.00" inner aluminum extrusions. All main vertical structural members will run from the floor to 4.625" x 3.864" x 0.090" thick roof extrusions to provide a cage-like structure with the A-pillar and roof extrusions being welded into a 0.25" thick corner casting at each of the front corners of the roof assembly.

The front of the cab will be constructed of a 0.13" firewall plate, covered with a 0.090" front skin (for a total thickness of 0.22"), and reinforced with a full width x 0.50" thick cross-cab support located just below the windshield and fully welded to the engine tunnel. The cross-cab support will run the full width of the cab and weld to each A-pillar, the 0.13" firewall plate, and the front skin.

The cab floors will be constructed of 0.125" thick aluminum plate and reinforced at the firewall with an additional 0.25" thick cross-floor support providing a total thickness of 0.375" of structural material at the front floor area. The front floor area will also be supported with two (2) triangular 0.30" wall extrusions that also provides the mounting point for the cab lift. This tubing will run from the floor wireway of the cab to the engine tunnel side plates, creating the structure to support the forces created when lifting the cab.

The cab will be 96.00" wide (outside door skin to outside door skin) to maintain maximum maneuverability.

The forward cab section will have an overall height (from the cab roof to the ground) of approximately 99.00". The crew cab section will have a 10.00" raised roof, with an overall cab height of approximately 109.00". The overall height listed will be calculated based on a truck configuration with the lowest suspension weight rating, the smallest diameter tires for the suspension, no water weight, no loose equipment weight, and no personnel weight. Larger tires, wheels, and suspension will increase the overall height listed.

The floor to ceiling height inside the crew cab will be 63.50" in the forward facing outboard positions and 54.50" in the forward facing center position.

The crew cab floor will measure 46.00" from the rear wall to the back side of the rear facing seat risers.

The medium block engine tunnel, at the rearward highest point (knee level), will measure 61.50" to the rear wall. The big block engine tunnel will measure 51.50" to the rear wall.

The crew cab will be a totally enclosed design with the interior area completely open to improve visibility and verbal communication between the occupants.

The cab will be a full tilt cab style.

A 3-point cab mount system with rubber isolators will improve ride quality by isolating chassis vibrations from the cab.

CAB ROOF DRIP RAIL

For enhanced protection from inclement weather, a drip rail shall be furnished on the sides of the cab. The drip rail shall be painted to match the cab roof, and bonded to the sides of the cab. The drip rail shall extend the full length of the cab roof.

CAB PUMP ENCLOSURE

The rear of the cab will be made to house the fire pump below the forward facing crew cab seats. The cab side panels will be notched to accommodate the pump panel.

INTERIOR CAB INSULATION

The cab will include 1.00" insulation in the ceiling, 1.50" insulation in the side walls, and 2.00" insulation in the rear wall to maximize acoustic absorption and thermal insulation.

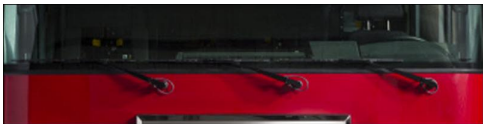
FENDER LINERS

Full circular inner fender liners in the wheel wells will be provided.

PANORAMIC WINDSHIELD

A one (1)-piece safety glass windshield will be provided with over 2,775 square inches of clear viewing area. The windshield will be full width and will provide the occupants with a panoramic view. The windshield will consist of three (3) layers: outer light, middle safety laminate, and inner light. The outer light layer will provide superior chip resistance. The middle safety laminate layer will prevent the windshield glass pieces from detaching in the event of breakage. The inner light will provide yet another chip resistant layer. The cab windshield will be bonded to the aluminum windshield frame using a urethane adhesive. A custom frit pattern will be applied on the outside perimeter of the windshield for a finished automotive appearance.

WINDSHIELD WIPERS



Three (3) electric windshield wipers with washer will be provided that meet FMVSS and SAE requirements.

The washer reservoir will be able to be filled without raising the cab.

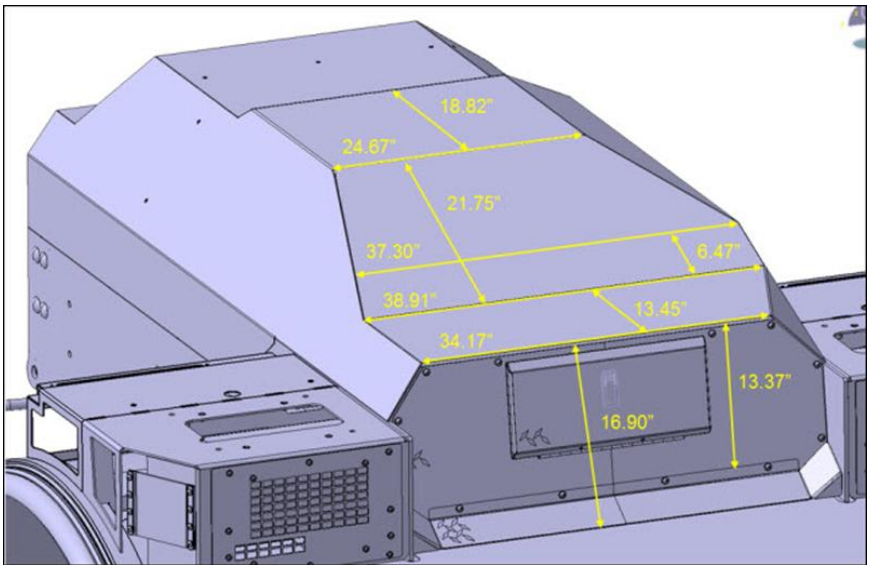
[Washer Reservoir Location]

ENGINE TUNNEL

Engine hood side walls will be constructed of 0.375" aluminum. The top will be constructed of 0.125" aluminum and will be tapered at the top to allow for more driver and passenger elbow room.

The engine hood will be insulated for protection from heat and sound. The noise insulation keeps the dBA level within the limits stated in the current NFPA 1901 standards.

The engine tunnel will be no higher than 17.00" off the crew cab floor.



CAB REAR WALL EXTERIOR COVERING

The exterior surface of the rear wall of the cab will be overlaid with bright aluminum treadplate except for areas that are not typically visible when the cab is lowered .

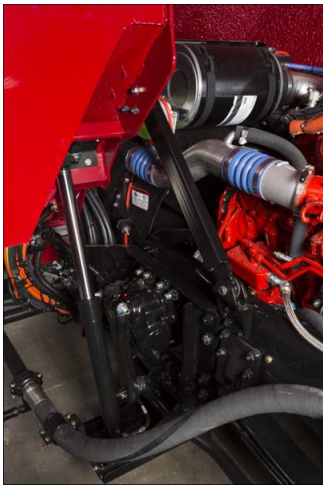
CAB LIFT

A hydraulic cab lift system will be provided consisting of an electric powered hydraulic pump, dual lift cylinders, and necessary hoses and valves.

Hydraulic pump will have a manual override for backup in the event of electrical failure.

Lift controls will be located on the right side pump panel or front area of the body in a convenient location.

The cab will be capable of tilting 43 degrees to accommodate engine maintenance and removal.



The cab will be locked down by a 2-point normally closed spring loaded hook type latch that fully engages after the cab has been lowered. The system will be hydraulically actuated to release the normally closed locks when the cab lift control is in the raised position and cab lift system is under pressure. When the cab is completely lowered and system pressure has been relieved, the spring loaded latch mechanisms will return to the normally closed and locked position.

The hydraulic cylinders will be equipped with a velocity fuse that protects the cab from accidentally descending when the control is located in the tilt position.

For increased safety, a redundant mechanical stay arm will be provided that must be manually put in place on the left side between the chassis and cab frame when the cab is in the raised position. This device will be manually stowed to its original position before the cab can be lowered.

Cab Lift Interlock
The cab lift system will be interlocked to the parking brake. The cab tilt mechanism will be active only when the parking brake is set and the ignition switch is in the on position. If the parking brake is released, the cab tilt mechanism will be disabled.

GRILLE
A bright finished aluminum mesh grille screen, inserted behind a bright finished grille surround, will be provided on the front center of the cab.

DOOR JAMB SCUFFPLATES
All cab door jambs will be furnished with a polished stainless steel scuffplate, mounted on the striker side of the jamb.

TRIM BAND ON CAB FACE
A band of 22 gauge patterned stainless steel trim will be installed across the front of the cab, from door hinge to door hinge. The trim band will be centered on the warning light bezel located above the headlights and applied with two-sided tape. A 0.625" self-adhesive trim strip will be applied around the perimeter of the trim band.

SIDE OF CAB MOLDING
Chrome molding will be provided on both sides of cab.

MIRRORS
A Retrac, Model 613423, dual vision, motorized, west coast style mirror, with chrome finish, will be mounted on each side of the front cab door with spring loaded retractable arms. The flat glass and convex glass will be heated and adjustable with remote control within reach of the driver.

DOORS
To enhance entry and egress to the cab, the forward cab door openings will be a minimum of 37.50" wide x 63.37" high. The crew cab doors will be located on the sides of the cab and will be constructed in the same manner as the forward cab doors. The crew cab door openings will be a minimum of 34.30" wide x 73.25" high.

The forward cab and crew cab doors will be constructed of extruded aluminum with a nominal material thickness of 0.093". The exterior door skins will be constructed from 0.090" aluminum.

A customized, vertical, pull-down type door handle will be provided on the exterior of each cab door. The exterior handle will be designed specifically for the fire service to prevent accidental activation, and will provide 4.00" wide x 2.00" deep hand clearance for ease of use with heavy gloved hands.

[Exterior Door Handle]

[Interior Door Handle]

Each door will also be provided with an interior flush, open style paddle handle that will be readily operable from fore and aft positions, and be designed to prevent accidental activation. The interior handles will provide 4.00" wide x 1.25" deep hand clearance for ease of use with heavy gloved hands.

The cab doors will be provided with both interior (rotary knob) and exterior (keyed) locks exceeding FMVSS standards. The keys will be Model 751. The locks will be capable of activating when the doors are open or closed. The doors will remain locked if locks are activated when the doors are opened, then closed.

A full length, heavy duty, stainless steel, piano-type hinge with a 0.38" pin and 11 gauge leaf will be provided on all cab doors. There will be double automotive-type rubber seals around the perimeter of the door framing and door edges to ensure a weather-tight fit.

A chrome grab handle will be provided on the inside of each cab door for ease of entry.

A red webbed grab handle will be installed on the crew cab door stop strap. The grab handles will be securely mounted.

The bottom cab step at each cab door location will be located below the cab doors and will be exposed to the exterior of the cab.

Door Panels

The inner cab door panels will be constructed out of brushed stainless steel.

ELECTRIC OPERATED CAB DOOR WINDOWS

All four (4) cab doors will be equipped with electric operated windows with one (1) flush mounted automotive style switch on each door. The driver's door will have four (4) switches, one (1) to control each door window.

Each switch will allow intermittent or auto down operation for ease of use. Auto down operation will be actuated by holding the window down switch for approximately 1 second.

CAB STEPS

The forward cab and crew cab access steps will be a full size two (2) step design to provide largest possible stepping surfaces for safe ingress and egress. The bottom steps will be designed with a grip pattern punched into bright aluminum treadplate material to provide support, slip resistance, and drainage. The bottom steps will be a bolt-in design to minimize repair costs should they need to be replaced. The forward cab steps will be a minimum 25.00" wide, and the crew cab steps will be 21.65" wide with a 10.00" minimum depth. The inside cab steps will not exceed 16.50" in height.

The vertical surfaces of the step well will be aluminum treadplate.

CAB EXTERIOR HANDRAILS

A 1.25" diameter slip-resistant, knurled aluminum handrail will be provided adjacent to each cab and crew cab door opening to assist during cab ingress and egress.

STEP LIGHTS

There shall be six (6) white LED step lights installed for cab and crew cab access steps.

- One (1) light for the driver's access steps.
- Two (2) lights for the driver's side crew cab access steps.
- Two (2) lights for the passenger's side crew cab access steps.
- One (1) light for the passenger's side access step.

In order to ensure exceptional illumination, each light shall provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light.

The lights shall be activated when the battery switch is on and the adjacent door is opened.

FENDER CROWNS

Stainless steel fender crowns will be installed at the cab wheel openings.

CAB INSULATION

There will be additional insulation provided in the interior of the cab and crew cab doors. The insulation is to help reduce air conditioning or heat loss.

MOUNTING PLATE ON ENGINE TUNNEL

Equipment installation provisions will be installed on the engine tunnel.

A 0.188" smooth aluminum plate will be bolted to the top surface of the engine tunnel. The plate will follow the contour of the engine tunnel and will run the entire length of the engine tunnel. The plate will be spaced off the engine tunnel .50" to allow for wire routing below the plate.

The mounting surface will be painted to match the cab interior.

CAB INTERIOR

The cab interior will be constructed of primarily metal (painted aluminum) to withstand the severe duty cycles of the fire service.

The officer side dash will be a flat faced design to provide easy maintenance and will be constructed out of painted aluminum.

The instrument cluster will be surrounded with a high impact ABS plastic contoured to the same shape of the instrument cluster.

The engine tunnel will be painted aluminum to match the cab interior.

To provide a deluxe automotive interior the side walls and rear wall will be covered by a leather grain vinyl that is resistant to oil, grease, and mildew.

The headliner will be installed in both forward and rear cab sections. Headliner material will be vinyl. A sound barrier will be part of its composition. Material will be installed on aluminum sheet and securely fastened to interior cab ceiling.

Forward portion of cab headliner will permit easy access for service of electrical wiring or other maintenance needs.

All wiring will be placed in metal raceways.

CAB INTERIOR UPHOLSTERY

The cab interior upholstery will be 36 oz dark silver gray vinyl.

CAB INTERIOR PAINT

The cab interior metal surfaces, excluding the rear heater panels, will be painted fire smoke gray, vinyl texture paint.

The rear heater panels will be painted black, vinyl textured paint.

CAB FLOOR

The cab and crew cab floor areas will be covered with Lonseal, Lonplate II, Gunmetal treadplate design.

CAB DEFROSTER

To provide maximum defrost and heating performance, a 43,500 BTU heater-defroster unit with 350 CFM of air flow will be provided inside the cab. The defroster unit will be strategically located under the center forward portion of the vacuum formed instrument panel. For easy access, a removable vacuum formed cover will be installed over the defroster unit. The defroster will include an integral aluminum frame air filter, high performance dual scroll blowers, and ducts designed to provide maximum defrosting capabilities for the 1-piece windshield. The defroster ventilation will be built into the design of the cab dash instrument panel and will be easily removable for maintenance. The defroster will be capable of clearing 98 percent of the windshield and side glass when tested under conditions where the cab has been cold soaked at 0 degrees Fahrenheit for 10 hours, and a 2 ounce per square inch layer of frost/ice has been able to build up on the exterior windshield. The defroster system will meet or exceed SAE J382 requirements.

CAB/CREW CAB HEATER

Two (2) 44,180 BTU auxiliary heaters with 276 CFM (each unit) of air flow will be provided inside the crew cab, one (1) in each outboard rear-facing seat riser. The heaters will include high performance dual scroll blowers, one (1) for each unit. Outlets for the heaters will be located below each rear facing seat riser and below the fronts of the driver and passenger seats, for efficient airflow. An extruded aluminum plenum will be incorporated in the cab structure that will transfer heat to the forward cab seating positions.

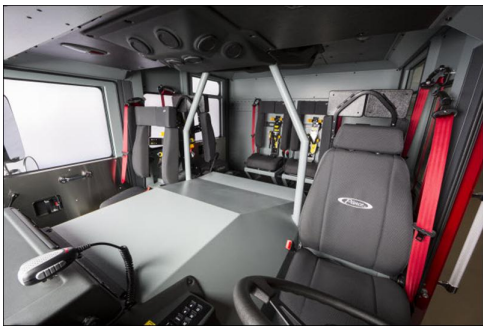
The heater/defroster and crew cab heaters will be controlled by a single integral electronic control panel. The heater control panel will allow the driver to control heat flow to the front and rear simultaneously. The control panel will include variable adjustment for temperature and fan control, and be conveniently located on the dash in clear view of the driver. The control panel will include highly visible, progressive LED indicators for both fan speed and temperature.

AIR CONDITIONING

A high performance, customized air conditioning system will be furnished inside the cab and crew cab.

The air conditioning system will be capable of cooling the average cab temperature from 100 degrees Fahrenheit to 75 degrees Fahrenheit within 30 minutes at 50 percent relative humidity. The cooling performance test will be run only after the cab has been heat soaked at 100 degrees Fahrenheit for a minimum of 4 hours.

A radiator mounted condenser with a 59,644 BTU output that meets and exceed the performance specification will be installed.



One (1) evaporator unit will be installed in the center roof with two (2) cores, one (1) for the cab and one (1) for the crew cab. The evaporator unit will have an adequate BTU rating to meet the performance specifications.

Adjustable air outlets will be strategically located on the evaporator cover per the following:

- Four (4) will be directed towards the driver's location
- Four (4) will be directed towards the officer's location
- Seven (7) will be directed towards the crew cab area

The air conditioner refrigerant will be R-134A and will be installed by a certified technician.

The air conditioner will be controlled by a single electronic control panel. For ease of operation, the control panel will include variable adjustment for temperature and fan control and be conveniently located on the dash in clear view of the driver.

Gravity Drain Tubes

Two (2) condensate drain tubes will be provided for the air

conditioning evaporator. The drip pan will have two (2) drain tubes plumbed separately to allow for the condensate to exit the drip pan. No pumps will be provided.

SUN VISORS

Two (2) smoked Lexan™ sun visors provided. The sun visors will be located above the windshield with one (1) mounted on each side of the cab.

There will be no retention bracket provided to help secure each sun visor in the stowed position.

GRAB HANDLES

A black rubber covered grab handle will be mounted on the door post of the driver and officer's side cab door to assist in entering the cab. The grab handles will be securely mounted to the post area between the door and windshield.

ENGINE COMPARTMENT LIGHTS

There will be one (1) Whelen, Model 3SC0CDCR, 12 volt DC, 3.00" white LED light(s) with Whelen, Model 3FLANGEC, chrome flange kit(s) installed under the cab to be used as engine compartment illumination.

These light(s) will be activated automatically when the cab is raised.

ACCESS TO ENGINE DIPSTICKS

For access to the engine oil and transmission fluid dipsticks, there will be a door on the engine tunnel, inside the crew cab. The door will be on the rear wall of the engine tunnel, on the vertical surface.

The engine oil dipstick will allow for checking only. The transmission dipstick will allow for both checking and filling.

The door will have a rubber seal for thermal and acoustic insulation. One (1) flush latch will be provided on the access door.

CAB SAFETY SYSTEM

The cab will be provided with a safety system designed to protect occupants in the event of a side roll or frontal impact, and will include the following:

- A supplemental restraint system (SRS) sensor will be installed on a structural cab member behind the instrument panel. The SRS sensor will perform real time diagnostics of all critical subsystems and will record sensory inputs immediately before and during a side roll or frontal impact event.
- A slave SRS sensor will be installed in the cab to provide capacity for eight (8) crew cab seating positions.
- A fault-indicating light will be provided on the vehicle's instrument panel allowing the driver to monitor the operational status of the SRS system.
- A driver side front air bag will be mounted in the steering wheel and will be designed to protect the head and upper torso of the occupant, when used in combination with the 3-point seat belt.
- A passenger side knee bolster air bag will be mounted in the modesty panel below the dash panel and will be designed to protect the legs of the occupant, when used in combination with the 3-point seat belt.
- Air curtains will be provided in the outboard bolster of outboard seat backs to provide a cushion between occupant and the cab wall.
- Suspension seats will be provided with devices to retract them to the lowest travel position during a side roll or frontal impact event.
- Seat belts will be provided with pre-tensioners to remove slack from the seat belt during a side roll or frontal impact event.

FRONTAL IMPACT PROTECTION

The SRS system will provide protection during a frontal or oblique impact event. The system will activate when the vehicle decelerates at a predetermined G force known to cause injury to the occupants. The cab and chassis will have been subjected, via third party test facility, to a crash impact during frontal and oblique impact testing. Testing included all major chassis and cab components such as mounting straps for fuel and air tanks, suspension mounts, front suspension components, rear suspensions components, frame rail cross members, engine and transmission and their mounts, pump house and mounts, frame extensions and body mounts. The testing provided configuration specific information used to optimize the timing for firing the safety restraint system. The sensor will activate the pyrotechnic devices when the correct crash algorithm, wave form, is detected.

The SRS system will deploy the following components in the event of a frontal or oblique impact event:

- Driver side front air bag
- Passenger side knee bolster air bag
- Air curtains mounted in the outboard bolster of outboard seat backs
- Suspension seats will be retracted to the lowest travel position
- Seat belts will be pre-tensioned to firmly hold the occupant in place

SIDE ROLL PROTECTION

The SRS system will provide protection during a fast or slow 90 degree roll to the side, in which the vehicle comes to rest on its side. The system will analyze the vehicle's angle and rate of roll to determine the optimal activation of the advanced occupant restraints.

The SRS system will deploy the following components in the event of a side roll:

- Air curtains mounted in the outboard bolster of outboard seat backs
- Suspension seats will be retracted to the lowest travel position
- Seat belts will be pre-tensioned to firmly hold the occupant in place

SEATING CAPACITY

The seating capacity in the cab will be four (4).

DRIVER SEAT

A seat will be provided in the cab for the driver. The seat design will be a cam action type, with air suspension. For increased convenience, the seat will include a manual control to adjust the horizontal position (6.00" travel). The manual horizontal control will be a towel-bar style located below the forward part of the seat cushion. To provide flexibility for multiple driver configurations, the seat will have an adjustable reclining back. The seat back will be a high back style with side bolster pads for maximum support. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A suspension seat safety system will be included. When activated in the event of a side roll, this system will pretension the seat belt and retract the seat to its lowest travel position.

The seat will be furnished with a 3-point, shoulder type seat belt.

OFFICER SEAT

A seat will be provided in the cab for the passenger. The seat will be a fixed type, with no suspension. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat back will be an SCBA back style with 5 degree fixed recline angle. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A seat safety system will be included. When activated, this system will pretension the seat belt.

The seat will be furnished with a 3-point, shoulder type seat belt.

RADIO COMPARTMENT

A radio compartment will be provided under the officer's seat.

The inside compartment dimensions will be 16.00" wide x 7.50" high x 15.00" deep, with the back of the compartment angled up to match the cab structure.

A drop-down door with a chrome plated lift and turn latch will be provided for access.

The compartment will be constructed of smooth aluminum and painted to match the cab interior.

REAR FACING LEFT SIDE EMS CABINET

A rear facing cabinet will be provided in the crew cab at the left side outboard position.

The cabinet will be 23.00" wide x 34.00" high x 26.75" deep with one (1) Amdor rollup door with anodized finish, non-locking. The frame to frame opening will be 20.50" wide x 28.75" high. The minimum clear door opening of the cabinet will be 17.75" wide x 22.87" high.

CLEAR DOOR OPENINGS (F-F = Frame to Frame)					
AMDOR		GORTITE		ROM	
HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
Subtract 2.00" from F-F	Subtract 5.88" from F-F	Subtract 2.75" from F-F	Subtract 4.75" from F-F	Subtract 2.56" from F-F	Subtract 4.50" from F-F

The cabinet will include one (1) infinitely adjustable shelf with a 0.75" up-turned lippainted to match the cab interior.

The cabinet will include no louvers.

The cabinet will be constructed of smooth aluminum and painted to match the cab interior.

Cabinet Light

There will be one (1) white Amdor LED strip light installed on the right side of the interior cabinet door opening and one (1) white Amdor LED strip light installed on the left side of the interior cabinet door opening. The lights will be controlled by an automatic door switch.

REAR FACING RIGHT SIDE CABINET

A rear facing cabinet will be provided in the crew cab at the right side outboard position.

The cabinet will be 22.00" wide x 34.00" high x 26.75" deep with one (1) Amdor rollup door with anodized finish, non-locking. The frame to frame opening will be 19.50" wide x 28.75" high. The minimum clear door opening of the cabinet will be 16.75" wide x 22.87" high.

CLEAR DOOR OPENINGS (F-F = Frame to Frame)					
AMDOR		GORTITE		ROM	
HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
Subtract 2.00" from F-F	Subtract 5.88" from F-F	Subtract 2.75" from F-F	Subtract 4.75" from F-F	Subtract 2.56" from F-F	Subtract 4.50" from F-F

The cabinet will include one (1) infinitely adjustable shelf with a 0.75" up-turned lippainted to match the cab interior.

The cabinet will include no louvers.

The cabinet will be constructed of smooth aluminum, and painted to match the cab interior.

Cabinet Light

There will be one (1) white Amdor LED strip light installed on the right side of the interior cabinet door opening and one (1) white Amdor LED strip light installed on the left side of the interior cabinet door opening. The lights will be controlled by an automatic door switch.

FORWARD FACING DRIVER SIDE OUTBOARD SEAT

There will be one (1) forward facing, foldup seat provided at the driver side outboard position in the crew cab. The seat back will be a high back style with 9 degree fixed recline angle. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A seat safety system will be included. When activated, this system will pretension the seat belt around the occupant to firmly hold them in place in the event of a side roll.

The seat will be furnished with a 3-point, shoulder type seat belt.

FORWARD FACING CENTER SEATS

There will be two (2) forward facing seats provided at the center position in the crew cab. For optimal comfort, the seats will be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat backs will be an SCBA style with 90 degree back. The SCBA cavity will be adjustable from front to rear in 1.00" increments to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat will include the following features incorporated into the side roll protection system:

- A seat safety system will be included. When activated, this system will pretension the seat belt.

The seats will be furnished with a 3-point, shoulder type seat belt.

FORWARD FACING PASSENGER SIDE OUTBOARD SEAT

There will be one (1) forward facing foldup seat provided at the passenger side outboard position in the crew cab. The seat back will be a high back style with 9 degree fixed recline angle. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat will include the following features incorporated into the side roll protection system:

- Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
- A seat safety system will be included. When activated, this system will pretension the seat belt around the occupant to firmly hold them in place in the event of a side roll.

The seat will be furnished with a 3-point, shoulder type seat belt.

SEAT UPHOLSTERY

All seat upholstery will be leather grain 36 oz black vinyl resistant to oil, grease and mildew. The cab will have four (4) seating positions.

AIR BOTTLE HOLDERS

All SCBA type seats in the cab will have a "Hands-Free" auto clamp style bracket in its backrest. For efficiency and convenience, the bracket will include an automatic spring clamp that allows the occupant to store the SCBA bottle by simply pushing it into the seat back. For protection of all occupants in the cab, in the event of an accident, the inertial components within the clamp will constrain the SCBA bottle in the seat and will exceed the NFPA standard of 9G.

There will be a quantity of three (3) SCBA brackets.

SEAT BELTS

All cab and tiller cab (if applicable) seating positions will have red seat belts. To provide quick, easy use for occupants wearing bunker gear, the female buckle and seat belt webbing length will meet or exceed the current edition of NFPA 1901 and CAN/ULC - S515 standards.

The 3-point shoulder type seat belts will include height adjustment. This adjustment will optimize the belts effectiveness and comfort for the seated firefighter. The 3-point shoulder type seat belts will be furnished with dual automatic retractors that shall provide ease of operation in the normal seating position.

The 3-point shoulder type belts will also include the ReadyReach D-loop assembly to the shoulder belt system. The ReadyReach feature adds an extender arm to the D-loop location placing the D-loop in a closer, easier to reach location.

To ensure safe operation, the seats will be equipped with seat belt sensors in the seat cushion and belt receptacle that shall activate an alarm indicating a seat is occupied but not buckled.

HELMET STORAGE PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2016 edition, section 14.1.7.4.1 requires a location for helmet storage be provided.

There is no helmet storage on the apparatus as manufactured. The fire department will provide a location for storage of helmets.

CAB DOME LIGHTS

There will be four (4) dual LED dome lights with black bezels provided. Two (2) lights will be mounted above the inside shoulder of the driver and officer and two (2) lights will be installed and located, one (1) on each side of the crew cab.

The color of the LED's will be red and white.

The white LED's will be controlled by the door switches and the lens switch.

The color LED's will be controlled by the lens switch.

In order to ensure exceptional illumination, each white LED dome light will provide a minimum of 10.1 foot-candles (fc) covering an entire 20.00" x 20.00" square seating position when mounted 40.00" above the seat.

PORTABLE HAND LIGHTS, PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2016 edition, section 5.9.4 requires two portable hand lights mounted in brackets fastened to the apparatus.

The hand lights are not on the apparatus as manufactured. The fire department will provide and mount these hand lights.

CAB INSTRUMENTATION

The cab instrument panel will be a molded ABS panel and include gauges, telltale indicator lamps, control switches, alarms, and a diagnostic panel. The function of the instrument panel controls and switches will be identified by a label adjacent to each item. Actuation of the headlight switch will illuminate the labels in low light conditions. Telltale indicator lamps will not be illuminated unless necessary. The cab instruments and controls will be conveniently located within the forward cab section, forward of the driver. The gauge assembly and switch panels are designed to be removable for ease of service and low cost of ownership.

GAUGES

The gauge panel will include the following ten (10) black faced gauges with black bezels to monitor vehicle performance:

- Voltmeter gauge (volts):
  - Low volts (11.8 VDC)
    - Amber telltale light on indicator light display with steady tone alarm
  - High volts (15.5 VDC)
    - Amber telltale light on indicator light display with steady tone alarm
- Engine Tachometer (RPM)

- Speedometer MPH (Major Scale), KM/H (Minor Scale)
- Fuel level gauge (Empty - Full in fractions):
    - Low fuel (1/8 full)
        - Amber indicator light in gauge dial with steady tone alarm
- Engine Oil pressure Gauge (PSI):
    - Low oil pressure to activate engine warning lights and alarms
        - Red indicator light in gauge dial with steady tone alarm
- Front Air Pressure Gauges (PSI):
    - Low air pressure to activate warning lights and alarm
        - Red indicator light in gauge dial with steady tone alarm
- Rear Air Pressure Gauges (PSI):
    - Low air pressure to activate warning lights and alarm
        - Red indicator light in gauge dial with steady tone alarm
- Transmission Oil Temperature Gauge (Fahrenheit):
    - High transmission oil temperature activates warning lights and alarm
        - Amber indicator light in gauge dial with steady tone alarm
- Engine Coolant Temperature Gauge (Fahrenheit):
    - High engine temperature activates an engine warning light and alarms
        - Red indicator light in gauge dial with steady tone alarm
- Diesel Exhaust Fluid Level Gauge (Empty - Full in fractions):
    - Low fluid (1/8 full)
        - Amber indicator light in gauge dial

INDICATOR LAMPS

To promote safety, the following telltale indicator lamps will be located on the instrument panel in clear view of the driver. The indicator lamps will be "dead-front" design that is only visible when active. The colored indicator lights will have descriptive text or symbols.

The following amber telltale lamps will be present:

- Low coolant
- Trac cntl (traction control) (where applicable)
- Check engine
- Check trans (check transmission)
- Air rest (air restriction)
- DPF (engine diesel particulate filter regeneration)
- HET (engine high exhaust temperature) (where applicable)
- ABS (antilock brake system)
- MIL (engine emissions system malfunction indicator lamp) (where applicable)
- Regen inhibit (engine emissions regeneration inhibit) (where applicable)
- Side roll fault (where applicable)
- Front air bag fault (where applicable)
- Aux brake overheat (auxiliary brake overheat) (where applicable)
- The following red telltale lamps will be present:

- Ladder rack down
- Parking brake
- Stop engine
- The following green telltale lamps will be present:
- Left turn
- Right turn
- Battery on
- Ignition
- Aux brake (auxiliary brake engaged) (where applicable)
- The following blue telltale lamps will be present:
- High beam

ALARMS

Audible steady tone warning alarm: A steady audible tone alarm will be provided whenever a warning condition is active.

INDICATOR LAMP AND ALARM PROVE-OUT

A system will be provided which automatically tests telltale indicator lights and alarms located on the cab instrument panel. Telltale indicators and alarms will perform prove-out for 3 to 5 seconds when the ignition switch is moved to the on position with the battery switch on.

CONTROL SWITCHES

For ease of use, the following controls will be provided immediately adjacent to the cab instrument panel within easy reach of the driver. All switches will have backlit labels for low light applications.

Headlight/Parking light switch: A three (3)-position maintained rocker switch will be provided. The first switch position will deactivate all parking and headlights. The second switch position will activate the parking lights. The third switch will activate the headlights.

Panel back lighting intensity control switch: A three (3)-position momentary rocker switch will be provided. Pressing the top half of the switch, "Panel Up" increases the panel back lighting intensity and pressing the bottom half of the switch, "Panel Down" decreases the panel back lighting intensity. Pressing the half or bottom half of the switch several times will allow back lighting intensity to be gradually varied from minimum to maximum intensity level for ease of use.

Ignition switch: A three (3)-position maintained/momentary rocker switch will be provided. The first switch position will turn off and deactivate vehicle ignition. The second switch position will activate vehicle ignition and will perform prove-out on the telltale indicators and alarms for 3 to 5 seconds after the switch is turned on. A green indicator lamp is activated with vehicle ignition. The third momentary position will temporarily silence all active cab alarms. An alarm "chirp" may continue as long as alarm condition exists. Switching ignition to off position will terminate the alarm silence feature and reset function of cab alarm system.

Engine start switch: A two (2)-position momentary rocker switch will be provided. The first switch position is the default switch position. The second switch position will activate the vehicle's engine. The switch actuator is designed to prevent accidental activation.

Hazard switch will be provided on the instrument panel or on the steering column.

Heater and defroster controls.

Turn signal arm: A self-canceling turn signal with high beam headlight controls.

Windshield wiper control will have high, low, and intermittent modes.

Parking brake control: An air actuated push/pull park brake control.

Chassis horn control: Activation of the chassis horn control will be provided through the center of the steering wheel.

High idle engagement switch: A maintained rocker switch with integral indicator lamp will be provided. The switch will activate and deactivate the high idle function. The "OK To Engage High Idle" indicator lamp must be active for the high idle function to engage. A green indicator lamp integral to the high idle engagement switch will indicate when the high idle function is engaged.

"OK To Engage High Idle" indicator lamp: A green indicator light will be provided next to the high idle activation switch to indicate that the interlocks have been met to allow high idle engagement.

Emergency switching will be controlled by multiple individual warning light switches for various groups or areas of emergency warning lights. An Emergency Master switch provided on the instrument panel that enables or disables all individual warning light switches is included.

An additional "Emergency Master" button will be provided on the lower left hand corner of the gauge panel to allow convenient control of the "Emergency Master" system from inside the driver's door when standing on the ground.

CUSTOM SWITCH PANELS

The design of cab instrumentation will allow for emergency lighting and other switches to be placed within easy reach of the operator thus improving safety. There will be positions for up to four (4) switch panels in the lower instrument console and up to six (6) switch panels in the overhead visor console. All switches have backlit labels for low light conditions.

[Gauge Cluster and Lower Switch Panels]

[Overhead Switch Panels]

DIAGNOSTIC PANEL

A diagnostic panel will be provided and accessible while standing on the ground. The panel will be located inside the driver's side door left of the steering column. The diagnostic panel will allow diagnostic tools such as computers to connect to various vehicle systems for improved troubleshooting providing a lower cost of ownership. Diagnostic switches will allow ABS systems to provide blink codes should a problem exist.

The diagnostic panel will include the following:

- ENGINE/TRANSMISSION/ABS J1939 Diagnostic Port
- ABS Diagnostic Switch and Indicator - The switch and amber indicator will allow access to diagnostic mode and display of standard ABS system fault blink codes that may be generated by the ABS system
- DPF REGEN (Diesel Particulate Filter Regeneration Switch) (where applicable) will be provided to request regeneration of the engine emission system. An amber indicator will be provided on top of the switch that will illuminate in a "CHECK ENGINE" condition
- REGEN INHIBIT (Diesel Particulate Filter Regeneration Inhibit Switch) (where applicable) will be provided that will request that regeneration be temporarily prevented. A green indicator will be provided on top of the Regen Inhibit switch that will illuminate when the Regen Inhibit feature is active. Regen Inhibit will be disabled upon cycling of the ignition switch to the off state.

AIR RESTRICTION INDICATOR

A high air restriction warning indicator light (electronic) will be provided.

"DO NOT MOVE APPARATUS" INDICATOR

A flashing red indicator light, located in the driving compartment, will be illuminated automatically per the current NFPA requirements. The light will be labeled "Do Not Move Apparatus If Light Is On."

The same circuit that activates the Do Not Move Apparatus indicator will activate a pulsing alarm when the parking brake is released.

SWITCH PANELS

The built-in switch panels will be located in the lower console or overhead console of the cab. Switches will be rocker type with an indicator light, of which is an integral part of the switch.

WIPER CONTROL

Wiper control will consist of a two (2)-speed windshield wiper control with intermittent feature and windshield washer controls.

SPARE CIRCUIT

There will be four (4) pair of wires, including a positive and a negative, installed on the apparatus.

The above wires will have the following features:

- The positive wire will be connected directly to the battery power
- The negative wire will be connected to ground
- Wires will be protected to 20 amps at 12 volts DC
- Power and ground will terminate in EMS compartment(s)
- Termination will be with heat shrinkable butt splicing
- Wires will be sized to 125% of the protection

This circuit(s) may be load managed when the parking brake is set.

SPARE CIRCUIT

There will be four (4) pair of wires, including a positive and a negative, installed on the apparatus.

The above wires will have the following features:

The positive wire will be connected directly to the battery power.

The negative wire will be connected to ground.

Wires will be protected to 20 amps at 12 volts DC.

Power and ground will terminate LS1,LS2,LS3,B1.

Termination will be with heat shrinkable butt splicing.

Wires will be sized to 125% of the protection.

This circuit(s) may be load managed when the parking brake is set.

SPARE CIRCUIT
There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus.

The above wires will have the following features:

- The positive wire will be connected directly to the battery power.
- The negative wire will be connected to ground.
- Wires will be protected to 2.0 amps at 12 volts DC.
- Power and ground will terminate officer side console.
- Termination will be a Blue Sea Systems part number 1016 dual USB charger socket.
- Wires will be sized to 125% of the protection.

This circuit(s) may be load managed when the parking brake is applied.

SPARE CIRCUIT
There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus.

The above wires will have the following features:

- The positive wire will be connected directly to the battery power.
- The negative wire will be connected to ground.
- Wires will be protected to 20 amps at 12 volts DC.
- Power and ground will terminate Behind driver seat.
- Termination will be to a Blue Sea System, Model 5026, 12 circuit with negative bus bar, straight blade fuse block. The terminal block will include a cover with circuit labels.

Wires will be sized to 125% of the protection.

This circuit(s) may be load managed when the parking brake is set.

INFORMATION CENTER
There will be a LCD display integral to the cab gauge panel provided that will display the following information:

- Total distance
- Trip distance
- Total hours
- Trip hours
- PTO "A" hours
- PTO "B" hours

VEHICLE DATA RECORDER
There will be a vehicle data recorder (VDR) capable of reading and storing vehicle information provided.

The information stored on the VDR can be downloaded through a USB port mounted in a convenient location determined by cab model. A USB cable can be used to connect the VDR to a laptop to retrieve

required information. The program to download the information from the VDR will be available to download on-line.

The vehicle data recorder will be capable of recording the following data via hardwired and/or CAN inputs:

- Vehicle Speed - MPH
- Acceleration - MPH/sec
- Deceleration - MPH/sec
- Engine Speed - RPM
- Engine Throttle Position - % of Full Throttle
- ABS Event - On/Off
- Seat Occupied Status - Yes/No by Position
- Seat Belt Buckled Status - Yes/No by Position
- Master Optical Warning Device Switch - On/Off
- Time - 24 Hour Time
- Date - Year/Month/Day

Seat Belt Monitoring System

A seat belt monitoring system (SBMS) will be provided. The SBMS will be capable of monitoring up to 10 seating positions indicating the status of each seat position per the following:

- Seat Occupied & Buckled = Green LED indicator illuminated
- Seat Occupied & Unbuckled = Red LED indicator with audible alarm
- No Occupant & Buckled = Red LED indicator with audible alarm
- No Occupant & Unbuckled = No indicator and no alarm

The SBMS will include an audible alarm that will warn that an unbuckled occupant condition exists and the parking brake is released, or the transmission is not in park.

INTERCOM SYSTEM

A Setcom, IM 950W4 intercom system will be provided with charging drop for the driver and officer and two (2) crew cab positions. The drivers wireless will be provided with the intercom mixer and the officers position will be provided with a wireless radio base station. The driver and officer will have radio transmit capabilities. The two (2) crew cab positions at both forward facing seats will be provided with wireless radio base stations, intercom only.

The following components will be supplied with this system:

- One (1) IM-950W4 intercom/radio mixer with one wireless position
- One (1) JS-900-20 Jumpseat Station
- One (1) 900W4 Wireless radio transmit base station
- Two (2) 901W4-3 Wireless intercom base stations
- All required cables

RADIO INTERFACE NOT REQUIRED
The apparatus manufacturer will not provide a radio/intercom interface.

WIRELESS INTERCOM HEADSET
There will be four (4) Setcom, Model CSB-900W4 headset(s) provided Driver, officer, 2- crew cab.

Each headset will feature:

- Dual-speaker headset with a noise reduction rating of 24dB
- Volume controls
- Bluetooth
- Instant on, auto off
- Mobile radio, portable radio push to talk buttons
- Cut-away ear cups allow headset to be worn under most helmets
- Waterproof, flexible-boom microphone

RADIO ANTENNA MOUNT
There will be one (1) standard 1.125", 18 thread antenna-mounting base(s) installed on the right side on the cab roof with high efficiency, low loss, coaxial cable(s) routed to the instrument panel area. A weatherproof cap will be installed on the mount.

VEHICLE VIDEO SYSTEM
A video camera system will be provided with the following color cameras with built in microphone:

- One (1) Outside, front of cab, facing forward, manually displayed.
- One (1) on the right side of the cab, facing rearward, displayed automatically when the right side turn signal is active.
- One (1) on the left side of the cab, facing rearward, displayed automatically when the left turn signal is active.
- One (1) at the rear of the apparatus, displayed automatically with transmission in reverse.

All cameras will record to an four (4) channel Hybrid video recorder located Rear, front, RS, LS with one (1) 128GB SSD card, battery back-up, and GPS tracking.

No additional networking or recording features will be provided.

Images will be displayed in the cab on the driver's 7" touch screen display and pump panel 7"display.

Audio from the active camera will be via an amplified speaker with volume control located behind the driver seat.

The following Safety Vision components will be supplied:

- One (1) SV-CP4-HYB-Kit Cab touch screen display
- One (1) SV-LED70WP4 Waterproof display

- One (1) 4000-HVR-128 Kit 4 channel hybrid recorder
- Two (2) SV-630A-KIT 3mm Color CAM W/Accessories (Rear, Front)
- Two (2) SV-EXTCAM Side Cameras
- One (1) 128GB SSD Memory card
- All necessary cables, splitters

ELECTRICAL POWER CONTROL SYSTEM

A compartment will be provided in or under the cab to house the vehicle's electrical power and signal circuit protection and control components. The power and signal protection and control compartment will contain circuit protection devices and power control devices. Power and signal protection and control components will be protected against corrosion, excessive heat, excessive vibration, physical damage and water spray.

Serviceable components will be readily accessible.

Circuit protection devices, which conform to SAE standard, will be utilized to protect each circuit. All circuit protection devices will be sized to prevent wire and component damage when subjected to extreme current overload. General protection circuit breakers will be Type-I automatic reset (continuously resetting) and conform to SAE J553 or J258. When required, automotive type fuses conforming to SAE J554, J1284, J1888 or J2077 will be utilized to protect electronic equipment.

Power control relays and solenoids will have a direct current (dc) rating of 125 percent of the maximum current for which the circuit is protected.

Visual status indicators will be supplied to identify control safety interlocks and vehicle status. In addition to visual status indicators, audible alarms designed to provide early warning of problems before they become critical will be used.

VOLTAGE MONITOR SYSTEM

A voltage monitor system will be provided to indicate the status of each battery system connected to the vehicle's electrical load. The monitor system will provide visual and audio warning when the system voltage is above or below optimum levels.

POWER AND GROUND STUDS

Spare circuits will be provided in the primary distribution center for two-way radio equipment.

The spare circuits will consist of the following:

- One (1) 12-volt DC, 30 amp battery direct spare
- One (1) 12-volt DC ground and un-fused switched battery stud located in or adjacent to the power distribution center

EMI/RFI PROTECTION

The electrical system proposed will include means to control undesired electromagnetic and radio frequency emissions. State of the art electrical system design and components will be used to ensure radiated and conducted EMI (electromagnetic interference) and RFI (radio frequency interference) emissions are suppressed at their source.

The apparatus proposed will have the ability to operate in the electromagnetic environment typically found in fire ground operations. The contractor will be able to demonstrate the EMI and RFI testing has been done on similar apparatus and certifies that the vehicle proposed meets SAE J551 requirements.

EMI/RFI susceptibility will be controlled by applying immune circuit designs, shielding, twisted pair wiring and filtering. The electrical system will be designed for full compatibility with low level control signals and high powered two-way radio communication systems. Harness and cable routing will be given careful attention to minimize the potential for conducting and radiated EMI-RFI susceptibility.

ELECTRICAL

All 12-volt electrical equipment installed by Pierce Manufacturing will conform to modern automotive practices. All wiring will be high temperature crosslink type. Wiring will be run, in loom or conduit, where exposed and have grommets where wire passes through sheet metal. Automatic reset circuit breakers will be provided which conform to SAE Standards. Wiring will be color, function and number coded. Function and number codes will be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors will be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids.

Electrical wiring and equipment will be installed utilizing the following guidelines:

1. All holes made in the roof will be caulked with silicon. Large fender washers, liberally caulked, will be used when fastening equipment to the underside of the cab roof.
2. Any electrical component that is installed in an exposed area will be mounted in a manner that will not allow moisture to accumulate in it. Exposed area will be defined as any location outside of the cab or body.
3. Electrical components designed to be removed for maintenance will not be fastened with nuts and bolts. Metal screws will be used in mounting these devices. Also, a coil of wire will be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work.
4. Corrosion preventative compound will be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections will have this compound in the plug to prevent corrosion and for easy separation (of the plug).
5. All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area.
6. All electrical terminals in exposed areas will have silicon (1890) applied completely over the metal portion of the terminal.

All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, will be furnished. Rear identification lights will be recessed mounted for protection.

Lights and wiring mounted in the rear bulkheads will be protected from damage by installing a false bulkhead inside the rear compartments.

An operational test will be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.

The results of the tests will be recorded and provided to the purchaser at time of delivery.

BATTERY SYSTEM
There will be six (6) 12 volt Exide®, Model 31S950X3W, batteries that include the following features will be provided:

- 950 CCA, cold cranking amps
- 190 amp reserve capacity
- High cycle
- Group 31
- Rating of 5700 CCA at 0 degrees Fahrenheit
- -190 minutes of reserve capacity
- Threaded stainless steel studs

Each battery case will be a black polypropylene material with a vertically ribbed container for increased vibration resistance. The cover will be manifold vented with a central venting location to allow a 45 degree tilt capacity.

The inside of each battery will consist of a "maintenance free" grid construction with poly wrapped separators and a flooded epoxy bottom anchoring for maximum vibration resistance.

BATTERY SYSTEM
There will be a single starting system with an ignition switch and starter button provided and located on the cab instrument panel.

MASTER BATTERY SWITCH
There will be a master battery switch provided within the cab within easy reach of the driver to activate the battery system.

An indicator light will be provided on the instrument panel to notify the driver of the status of the battery system.

BATTERY COMPARTMENTS
Batteries will be placed on non-corrosive mats and stored in well ventilated compartments located under the cab.

Heavy-duty, 2/0 gauge, color coded battery cables will be provided. Battery terminal connections will be coated with anti-corrosion compound.

Battery solenoid terminal connections will be encapsulated with semi-permanent rubberized compound.

JUMPER STUDS
One (1) set of battery jumper studs with plastic color-coded covers will be included on the battery compartments.

BATTERY CHARGER
A Charging Systems International, Dual Pro Charger, a two bank, 15 amps each bank, battery charger will be provided.

This charging system will include the single remote indicator.

The battery charger will be wired to the AC shoreline inlet through an AC receptacle adjacent to this battery charger.

Battery charger will be located in the pump plumbing area, below the cargo area floor.

The battery charger indicator will be located in the driver's step area.

SHORELINE INLET

There will be one (1) Blue Sea Sure Eject™ part number 7851, 20 amp 120 volt AC shoreline inlet provided to operate the dedicated 120 volt AC circuits on the apparatus.

The shoreline will be connected to Battery.

The shoreline inlet cover color to be red.

The connector body will be released from the inlet when the apparatus engine start button is activated.

There will be a mating connector body supplied with the loose equipment.

There will be a label installed near the inlet(s) that state the following:

- Line Voltage
- Current Ratting (amps)
- Phase
- Frequency

The shoreline receptacle will be located on the driver side of cab, above wheel.

SHORELINE TO SHORELINE TRANSFER SWITCH

There will be an automatic transfer switch between the shoreline to the second shoreline inlet. The loads connected to the transfer switch from the first shoreline inlet will be power from the second shoreline inlet when the second shoreline inlet is energized.

ALTERNATOR

A Delco Remy®, Model 40SI, alternator will be provided. It will have a rated output current of 320 amps, as measured by SAE method J56. The alternator will feature an integral regulator and rectifier system that has been tested and qualified to an ambient temperature of 257 degrees Fahrenheit (125 degrees Celsius). The alternator will be connected to the power and ground distribution system with heavy-duty cables sized to carry the full rated alternator output.

ELECTRONIC LOAD MANAGEMENT

An electronic load management (ELM) system that monitors the vehicles 12-volt electrical system, and automatically reduces the electrical load in the event of a low voltage condition and by doing so, ensures the integrity of the electrical system.

The ELM will monitor the vehicle's voltage while at the scene (parking brake applied). It will sequentially shut down individual electrical loads when the system voltage drops below a preset value.

Two (2) separate electrical loads will be controlled by the load manager. The ELM will sequentially re-energize electrical loads as the system voltage recovers.

HEADLIGHTS

There will be four (4) JW Speaker®, Model 8800, 4" x 6" rectangular LED lights mounted in the front quad style, chrome housing on each side of the cab grille:

- the outside light on each side will contain a part number 055***1 low beam module
- the inside light on each side will contain a part number 055***1 high beam module
- the headlight to include chrome bezels

The low beam lights will be activated when the headlight switch is on.

The high beam and low beam lights will be activated when the headlight switch and the high beam switch is activated.

DIRECTIONAL LIGHTS

There will be two (2) Whelen®, Model C6T*, 5.12" high x 7.56" wide x 1.56" deep amber LED populated arrow directional lights provided on the front of the cab, above the headlights. Each light will be housed in the same quad common bezel as the front warning light. The lens color(s) to be clear.

INTERMEDIATE LIGHT

There will be two (2) Weldon, Model 9186-8580-29, amber LED turn signal marker lights furnished, one (1) each side, in the rear fender panel. The light will double as a turn signal and marker light.

CAB CLEARANCE/MARKER/ID LIGHTS

There will be five (5) amber LED lights provided to indicate the presence and overall width of the vehicle in the following locations:

- Three (3) amber LED identification lights will be installed in the center of the cab above the windshield.
- Two (2) amber LED clearance lights will be installed, one (1) on each outboard side of the cab above the windshield.

FRONT CAB SIDE DIRECTIONAL/MARKER LIGHTS

There will be two (2) Weldon, Model 9186-8580-29, amber LED lights installed front of the cab door, one (1) on each side of the cab.

The lights will activate as marker lights with the headlight switch and directional lights with the corresponding directional circuit.

REAR CLEARANCE/MARKER/ID LIGHTING

There will be three (3) Truck-Lite®, Model 26250R, LED lights used as identification lights located at the rear of the apparatus per the following:

- As close as practical to the vertical centerline
- Centers spaced not less than 6.00" or more than 12.00" apart
- Red in color

- All at the same height

There will be two (2) Truck-Lite, Model 26250R, LED lights installed at the rear of the apparatus used as clearance lights located at the rear of the apparatus per the following:

- To indicate the overall width of the vehicle
- One (1) each side of the vertical centerline
- As near the top as practical
- Red in color
- To be visible from the rear
- All at the same height

There will be two (2) Truck-Lite, Model 26250R, LED lights installed on the side of the apparatus as marker lights as close to the rear as practical per the following:

- To indicate the overall length of the vehicle
- One (1) each side of the vertical centerline
- As near the top as practical
- Red in color
- To be visible from the side
- All at the same height

There will be two (2) red reflectors located on the rear of the truck facing to the rear. One (1) each side, as far to the outside as practical, at a minimum of 15.00", but no more than 60.00", above the ground.

There will be two (2) red reflectors located on the side of the truck facing to the side. One (1) each side, as far to the rear as practical, at a minimum of 15.00", but no more than 60.00", above the ground.

Per FMVSS 108 and CMVSS 108 requirements.

REAR FMVSS LIGHTING

There will be two (2) wrap around tri-cluster LED modules provided on the face of the rear body compartments.

Each tri-cluster will include the following:

- One (1) LED stop/tail light
- One (1) LED directional light
- One (1) LED backup light

LICENSE PLATE BRACKET

There will be one (1) license plate bracket mounted on the rear of the body.

A white LED light will illuminate the license plate. A polished stainless steel light shield will be provided over the light that will direct illumination downward, preventing white light to the rear.

BACK-UP ALARM
A PRECO, Model 1040, solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse will be provided. The device will sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) dBA above surrounding environmental noise levels.

CAB PERIMETER SCENE LIGHTS
There will be four (4) Amdor, Model AY-LB-12HW020, 350 lumens each, 20.00" white LED strip lights provided, one (1) for each cab door.

These lights will be activated automatically when the battery switch is on and the exit doors are opened or by the same means as the body perimeter scene lights.

PUMP HOUSE PERIMETER LIGHTS
There will be two (2) Amdor, Model AY-LB-12HW020, 350 lumens each, 20.00" LED weatherproof strip lights with brackets provided under the pump panel running boards, one (1) each side.

If the combination of options in the vehicle does not permit clearance for a 20.00" light, a 12.00" version of the Amdor light will be installed.

The lights will be controlled by the same means as the body perimeter lights.

BODY PERIMETER SCENE LIGHTS
There will be two (2) Amdor, Model AY-LB-12HW020, 350 lumens, 20.00" long, white LED's, 12 volt DC lights provided at the rear step area of the body, one (1) each side shining to the rear.

The perimeter scene lights will be activated when the parking brake is applied and either directional light is activated, activating all side facing perimeter lights.

STEP LIGHTS
There will be two (2) white LED step lights will be provided at the rear to illuminate the tailboard/step area.

In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light.

These step lights will be actuated with the perimeter scene lights.

All other steps on the apparatus will be illuminated per the current edition of NFPA 1901.

12 VOLT LIGHTING
There will two (2) Whelen® Model P*H2*, 17,750 lumens 12 volt DC LED light(s) with a combination of flood and spot optics installed on the apparatus located, one rearward and one forward on hatch compartment RS.

The painted parts of this light assembly to be white

The light(s) to be installed in a 15 degree vertical recessed painted bracket.

The lights will be controlled by a switch at the driver's side switch panel, by a switch at the driver's side pump panel and by a switch at the passenger's side switch panel.

The light(s) may be load managed when the parking brake is applied.

12 VOLT LIGHTING
There will two (2) Whelen® Model P*H2*, 17,750 lumens 12 volt DC LED light(s) with a combination of flood and spot optics installed on the apparatus located, one rearward and one forward on hatch compartment LS.

The painted parts of this light assembly to be white

The light(s) to be installed in a 15 degree vertical recessed painted bracket.

The lights will be controlled by a switch at the driver's side switch panel, by a switch at the driver's side pump panel and by a switch at the passenger's side switch panel.

The light(s) may be load managed when the parking brake is applied.

12 VOLT LIGHTING
There will two (2) Whelen® Model P*H2*, 17,750 lumens 12 volt DC LED light(s) with a combination of flood and spot optics installed on the apparatus located, one each side rear high.

The painted parts of this light assembly to be white

The light(s) to be installed in a 15 degree vertical recessed chrome trim.

The lights will be controlled by a switch at the driver's side switch panel, by a switch at the passenger's side switch panel and by a switch in a recessed cup located at the driver's side rear bulkhead.

The light(s) may be load managed when the parking brake is applied.

12 VOLT LIGHTING
There will be two (2) Fire Research Evolution, Model FCA851-V20-*, 12 volt LED floodlight(s) provided on the front visor, one (1) on the driver's side and one (1) on the passenger's side with 15 degree outward bracket.

The light's housing(s) painted parts to be white.

The light(s) will be controlled in the following way:

- a switch at the driver's side switch panel and a switch at the passenger's side switch panel
- no additional switch location
- no additional switch location
- no additional switch location

These lights may be load managed when the parking brake is applied.

12 VOLT LIGHTING
There will be one (1) Whelen® Model P*H2*, 17,750 lumens 12 volt DC light(s) with a combination of flood and spot optics provided on the front visor, centered.

The housing(s) painted parts of this light assembly to be white.

The light(s) will be controlled by a switch at the driver's side switch panel and by a switch at the passenger's side switch panel.

These light(s) may be load managed when the parking brake is applied.

HOSE BED LIGHTS
There will be white 12 volt DC LED light strips with stainless steel protective cover, provided to light the hose bed area. Hose Bed lights will meet the photometric levels listed in NFPA 1901 for Hose Bed lighting requirements.

- Light strip(s) will be installed along the upper edge of the left side of the hose bed.
- Light strip(s) will be installed along the upper edge of the right side of the hose bed.

The lights will be activated by a cup switch at the rear of the apparatus no more than 72.00" from the ground.

REAR WORK AREA LIGHTS
There will be two (2) Whelen®, part number 01-066C520-10, 3.00" x 7.00" white LED scene lights installed at the rear of the vehicle, under the tailboard, facing the rear. The lights will have 12 white LEDs and have no internal optics. The lights will be mounted on brackets below the truck so as to not interfere with the angle of departure.

The lights will be controlled by a switch at the driver's side switch panel and by a cup switch at the driver's side rear bulkhead.

WALKING SURFACE LIGHT
There will be Model FRP, 4" round black 12 volt DC LED floodlight(s) with bolt mount provided to illuminate the entire designated walking surface on top of the body.

The light(s) will be activated when the body step lights are on.

WATER TANK
Booster tank will have a capacity of 750 gallons and be constructed of UV stabilized ultra high impact polypropylene plastic by a manufacturer with a minimum of 20 years experience building tanks, is ISO 9001:2000 certified in all its manufacturing facilities, and has over 50,000 tanks in service.

Tank joints and seams will be nitrogen welded inside and out.

Tank will be baffled in accordance with NFPA Bulletin 1901 requirements.

Baffles will have vent openings at both the top and bottom to permit movement of air and water between compartments.

Longitudinal partitions will be constructed of .38" polypropylene plastic and will extend from the bottom of the tank through the top cover to allow for positive welding.

Transverse partitions will extend from 4.00" off the bottom of the tank to the underside of the top cover.

All partitions will interlock and will be welded to the tank bottom and sides.

Tank top will be constructed of .50" polypropylene. It will be recessed .38" and will be welded to the tank sides and the longitudinal partitions.

Tank top will be sufficiently supported to keep it rigid during fast filling conditions.

Construction will include 2.00" polypropylene dowels spaced no more than 30.00" apart and welded to the transverse partitions. Two (2) of the dowels will be drilled and tapped (.50" diameter, 13.00" deep) to accommodate lifting eyes.

A sump that will be sized dependent on the tank to pump plumbing will be provided at the bottom of the water tank.

Sump will include a drain plug and the tank outlet.

Tank will be installed in a fabricated cradle assembly constructed of structural steel.

Sufficient crossmembers will be provided to properly support bottom of tank. Crossmembers will be constructed of steel bar channel or rectangular tubing.

Tank will "float" in cradle to avoid torsional stress caused by chassis frame flexing. Rubber cushions, .50" thick x 3.00" wide, will be placed on all horizontal surfaces that the tank rests on.

Stops or other provision will be provided to prevent an empty tank from bouncing excessively while moving vehicle.

Mounting system will be approved by the tank manufacturer.

Fill tower will be constructed of .50" polypropylene and will be a minimum of 8.00" wide x 14.00" long.

Fill tower will be furnished with a .25" thick polypropylene screen and a hinged cover.

An overflow pipe, constructed of 4.00" schedule 40 polypropylene, will be installed approximately halfway down the fill tower and extend through the water tank and exit to the rear of the rear axle.

SLEEVE, PLUMBING, THROUGH TANK

One (1) sleeve will be provided in the water tank for a 3.00" pipe to the rear.

WATER TANK RESTRAINT

A heavy-duty water tank restraint will be provided.

BODY HEIGHT

The height of the body will be 89.00" from the bottom of the body to the top of the body.

HOSE BED

The hose bed will be fabricated of .125"-5052 aluminum with a nominal 38,000 psi tensile strength.

Flooring of the hose bed will be removable aluminum grating with the top surface corrugated to aid in hose aeration. The grating slats will be a minimum of 0.50" x 4.50" with spacing between slats for hose ventilation.

A cross divider will be provided at the front of the hose bed before the tank transitions from the lower section to the upper section. The divider will run from the top of the side sheet down below the hose bed grating.

The hose bed will be directly above the rear compartment door. The dimension from the ground will be approximately 67.00" depending on the suspension and equipment load.

The hose bed will be at a minimum 85.00" long.

Hose bed will accommodate 300' of 2.5" hose, 1000' of 5.0" hose, 250' of 2.5" hose, .

HOSE BED DIVIDER

Two (2) adjustable hosebed dividers will be furnished for separating hose.

Each divider will be constructed of a .125" brushed aluminum sheet fitted and fastened into a slotted, 1.50" diameter radiused extrusion along the top, bottom, and rear edge.

Divider will be fully adjustable by sliding in tracks, located at the front and rear of the hose bed.

Divider will be held in place by tightening bolts, at each end.

Acorn nuts will be installed on all bolts in the hose bed which have exposed threads.

HOSE BED COVER

A roller shutter style hose bed cover will be supplied.

The cover will be the full length and width of the hose bed area with a red vinyl flap at the rear. The vinyl flap will be attached to the cover with 1.00" cam buckle at the top and 2.00" cam buckle at the bottom.

The cover will be constructed of stainless steel with aluminum support channels bonded and mechanically fastened to the bottom. There will be a non-slip coating applied to the top surface.

A lift bar will be located at the rear of door and have latches on the outer extrusion of the door frame to hold the door in the closed position.

A cross divider will be provided at the front of the hose bed forward of any domes to section off the door roll area.

CHEVRON, HOSEBED COVER FLAP
There will be chevron striping located on the vinyl rear flap of the hosebed.

The ruby red chevrons will be alternating with the color of the vinyl flap it is installed on.

Each stripe will be 6.00" in width.

RUNNING BOARDS
A running board will be provided on each side of the front body to allow access to the backboard/crosslay storage area. The running boards will be designed with a grip pattern punched into .125" bright aluminum treadplate material providing support, slip resistance, and drainage.

TAILBOARD
The tailboard will be constructed of .125" bright aluminum treadplate and spaced .50" from the body, as well as supported by a structural steel assembly.

The tailboard area will be 16.00" deep and full width of the body. The outboard sides of the tailboard will be angled at 45 degrees beginning at the point where the body meets the tailboard at the outboard edge angling rearward to the rear edge of the tailboard.

The exterior side will be flanged down and in for increased rigidity of tailboard structure.

REAR WALL, BODY MATERIAL, PUC
The rear wall will be smooth and the same material as the body.

The rear wall body material will be painted. Unpainted aluminum overlays will be provided to allow for chevron application and to provide continuously smooth rear wall panels.

The outboard edges of the rear wall will be trimmed in polished stainless steel.

TOW BAR
A tow bar will be installed under the tailboard at center of truck.

Tow bar will be fabricated of 1.00" CRS bar rolled into a 3.00" radius.

Tow bar assembly will be constructed of .38" structural angle. When force is applied to the bar, it will be transmitted to the frame rail.

Tow bar assembly will be designed and positioned to allow up to a 30-degree upward angled pull of 17,000 lb, or a 20,000 lb straight horizontal pull in line with the centerline of the vehicle.

Tow bar design will have been fully tested and evaluated using strain gauge testing and finite element analysis techniques.

COMPARTMENTATION

The apparatus body will be built of aluminum construction using a minimum of .125" thick, 5052-H32 aluminum.

The body panel assembly will be constructed in a fixture and consist of formed sheet metal for the front and rear bulkheads, door frames, floors, ceilings, and back walls. These parts will be welded together to ensure greatest longevity with no visible welds in compartment interior.

Welded construction will consist of 1.00" x .38" engineered plug weld holes that control the size, location, and the amount of weld required. The bodies will be assembled and welded from engineered prints that call out the size, location, and type of weld required.

In structural areas the sheet metal components will have flanges for welding. No butt joints will be allowed. Gussets and support posts will be provided for additional strength where needed.

The fender panel will be an integral part of the complete welded body assembly. All light and compartment holes are pre punched prior to construction to provide accuracy and rounded corners to prevent stress risers in the material.

Circular fender liners will be provided. For prevention of paint chips and ease of suspension maintenance the fender liners will be formed from brush finished 304L stainless steel, be unpainted, and removable for suspension maintenance.

Side compartment flooring will be of the sweep out design with the floor minimum of 1.00" higher than the compartment door lip.

Drip protection will be provided above the doors by means of aluminum extrusion, or formed bright aluminum treadplate.

The top of the compartment will be sheet metal and covered with bright aluminum treadplate rolled over the edges on the front, and rear. These covers will have the corners welded.

The aluminum treadplate covers will not make up the ceiling of the compartment.

All screws and bolts, which are not Grade 8, will be stainless steel and where they protrude into a compartment will have acorn nuts on the ends to prevent injury.

UNDERBODY SUPPORT SYSTEM

Due to the severe loading requirements of this pumper a method of body and compartment support suitable for the intended load will be provided.

The backbone of the body support system will begin with the chassis frame rails which is the strongest component of the chassis and is designed for sustaining maximum loads. The support system will include lateral frame rail extensions that are formed from .375" 80k high strength steel and bolted to the chassis frame rails with .625" diameter Grade 8 bolts.

The vertical and horizontal members of the frame rail extensions are to be reinforced with welded gussets and extend to the outside edge of the body. The lateral frame extensions will be electro-coated for superior corrosion resistance.

The floating substructure will be separated from the lateral frame extensions with neoprene elastomer isolators. These isolators will reduce the natural flex stress of the chassis from being transmitted to the body, and absorb road shock and vibration.

The isolators will have a broad load range, proven viability in vehicular applications, be of a fail safe design and allow for all necessary movement in three (3) transitional and rotational modes.

The neoprene isolators will be installed in a modified V three (3)-point mounting pattern to reduce the natural flex of the chassis being transmitted to the body. Two (2) 3.50" diameter isolators are provided at the front of the body near the centerline of the vehicle above the chassis frame. A minimum of eight (8) - 2.55" diameter isolators will be provided, two (2) under each front compartment and two (2) under each rear side compartment. A minimum of four (4) 3.50" diameter isolators will be provided under the rear compartment.

AGGRESSIVE WALKING SURFACE

All exterior surfaces designated as stepping, standing, and walking areas will comply with the required average slip resistance of the current NFPA standards. Documentation of the material meeting the standard will be provided at time of delivery.

LOUVERS

All body compartments will have a minimum of one (1) set of automotive style, dust resistant louvers pressed into a wall. The louvers will incorporate a one (1)-way rubber valve that provides airflow out of the compartment and prevents water and dirt from gaining access to the compartment. Compartments over the wheel will not have louvers.

TESTING OF BODY DESIGN

Body structural analysis will be fully tested. Proven engineering and test techniques such as finite element analysis and strain gauging have been performed with special attention given to fatigue life and structural integrity of the body and substructure.

The body will be tested while loaded to its greatest in-service weight.

The criteria used during the testing procedure will include:

- Raising opposite corners of the vehicle tires 9.00" to simulate the twisting a truck may experience when driving over a curb.

- Making a 90 degree turn, while driving at 20 mph to simulate aggressive driving conditions.

- Driving the vehicle on at 35 mph on a washboard road.

- Driving the vehicle at 55 mph on a smooth road.

- Accelerating the vehicle fully, until reaching the approximate speed of 45 mph on rough pavement.

Evidence of the actual testing techniques will be made available upon request.

FEA will have been performed on all substructure components.

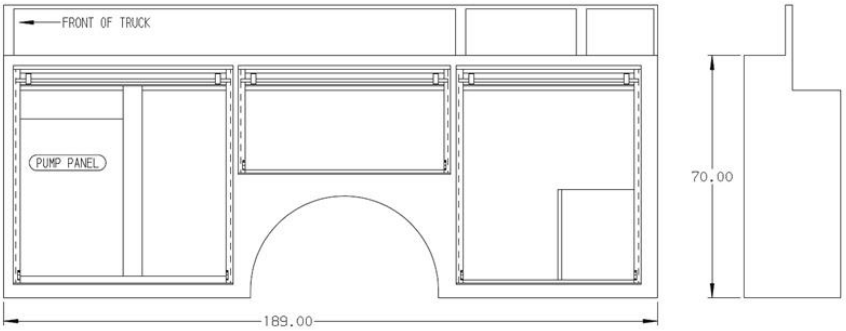
LEFT SIDE COMPARTMENTATION

The left side compartmentation will consist of three rollup door compartments.

A full height, rollup door compartment ahead of the rear wheels will be provided. The 31" wide pump operator's panel will be located in this compartment. A vertical partition will be provided on the right side of the pump panel. The interior dimensions of the remaining space in this compartment will be 25.25" wide x 53.63" high x 26.00" deep. The clear door opening will be a minimum of 59.25" wide x 53.63" high.

A rollup door compartment over the rear wheels will be provided. The interior dimensions of this compartment will be 60.00" wide x 22.88" high x 26.00" deep. The clear door opening will be a minimum of 57.25" wide x 22.88" high.

A full height, rollup door compartment behind the rear wheels will be provided. The interior dimensions of this compartment will be 51.75" wide x 54.63" high x 26.00" deep. The clear door opening will be a minimum of 49.25" wide x 54.63" high.



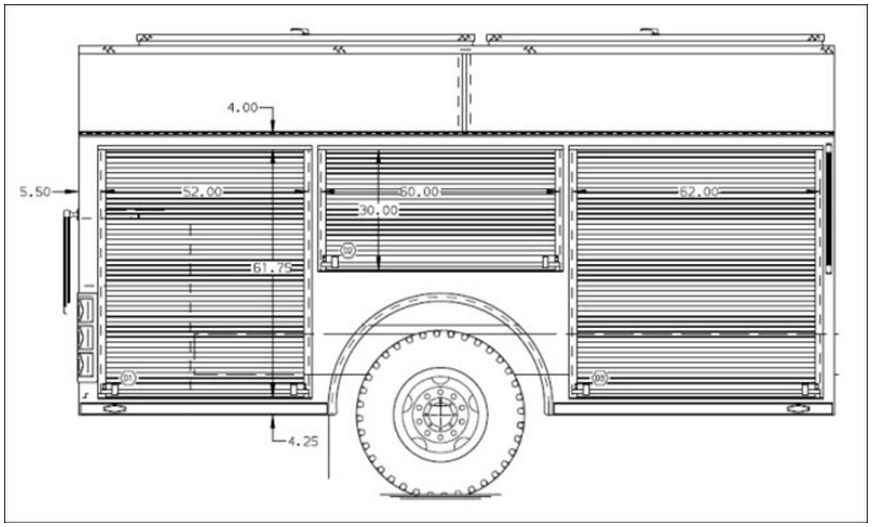
	MINIMUM CLEAR DOOR OPENINGS					
	AMDOR		GORTITE		ROM	
COMPARTMENT	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
Ahead of axle	60.00	53.63	59.25	53.63	59.44	53.63
Over axle	58.00	22.88	57.25	22.88	57.44	22.88
Behind axle	50.00	54.63	49.25	54.63	49.44	54.63

The roll up door spool will be installed in a recess above the compartment ceiling. All compartments will include a drip pan below the roll of the door. The drip pan will be installed level with the compartment ceiling. The interior height of the compartments will be measured from the compartment floor to the ceiling. The depth of the compartments will be measured from the back wall to the inside of the door frame.

Closing of the doors will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand.

RIGHT SIDE COMPARTMENTATION

A full height, jump off compartment with a roll-up door ahead of the rear wheels will be provided, as convenient large storage compartment for often used items for the crew. The interior dimensions of this compartment will be 62.00" wide x 54.50" high x 25.88" deep. The area behind the roll up door spool will be notched for exterior storage or larger capacity water tank tee. The depth of the compartment will be calculated with the compartment door closed. The compartment interior will be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment will be 59.00" wide x 54.50 high.



Closing of the door will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand.

A roll-up door compartment over the rear wheels will be provided. The interior dimensions of this compartment will be 60.00" wide x 23.00" high x 25.88" deep. The area behind the roll up door spool will be notched for exterior storage or larger capacity water tank tee. The depth of the compartment will be calculated with the compartment door closed. The clear door opening of this compartment will be 57.00" wide x 23.00" high.

Closing of the door will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand.

A full height, roll-up door compartment behind the rear wheels will be provided. The interior dimensions of this compartment will be 52.00" wide x 54.50" high x 25.88" deep. The area behind the roll up door spool will be notched for exterior storage or larger capacity water tank tee. The depth of the compartment will be calculated with the compartment door closed. The compartment interior will be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment will be 49.00" wide x 54.50" high.

Closing of the door will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand.

All compartments will include a drip pan below the roll of the door.

SIDE COMPARTMENT ROLLUP DOOR(S)

There will be six (6) compartment doors installed on the side compartments. The doors will be double faced aluminum construction, painted one (1) color to match the lower portion of the body and manufactured by Gortite®.

Lath sections will be an interlocking rib design and will be individually replaceable without complete disassembly of door.

Between each slat at the pivoting joint will be a PVC inner seal to prevent metal to metal contact and prevent dirt or moisture from entering the compartments. Seals will allow door to operate in extreme temperatures ranging from 180 to -40 degrees Fahrenheit. Side, top and bottom seals will be provided to resist ingress of dirt and weather and be made of Santoprene.

All hinges, barrel clips and end pieces will be nylon 66. All nylon components will withstand temperatures from 300 to -40 degrees Fahrenheit.

A polished stainless steel lift bar to be provided for each roll-up door. Lift bar will be located at the bottom of door and have latches on the outer extrusion of the doors frame. A ledge will be supplied over lift bar for additional area to aid in closing the door.

Doors will be constructed from an aluminum box section. The exterior surface of each slat will be flat. The interior surfaces will be concave to provide strength and prevent loose equipment from jamming the door from inside.

To conserve space in the compartments, the spring roller assembly will not exceed 3.00" in diameter.

The header for the rollup door assembly will not exceed 4.00".

A heavy-duty magnetic switch will be used for control of open compartment door warning lights.

REAR COMPARTMENTATION

A roll-up door compartment above the rear tailboard will be provided.

the interior dimensions of this compartment will be 37.00" wide x 36.50" high x 25.88" deep in the lower 27.00" of the compartment and 15.00" deep in the remaining upper portion. The clear door opening will be a minimum of 33.88" wide x 26.63" high.

A removable access panel will be furnished on the back wall of the compartment.

The rear compartment will be open into the rear side compartments. The transverse opening will be a minimum of 22.00" wide x 27.50" high.

A drip pan will be installed below the roll of the door. A guard will be installed behind the roll of the door. The interior height of the compartment will be measured from the floor to the ceiling. The depth of the compartment will be measured from the back wall to the inside of the door frame.

Closing of the door will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand.

ROLLUP REAR COMPARTMENT DOOR

The rear compartment will have a rollup door. The door will be double faced aluminum construction, an anodized satin finish and manufactured by Gortite®.

Lath sections will be an interlocking rib design and will be individually replaceable without complete disassembly of door.

Between each slat at the pivoting joint will be a PVC inner seal to prevent metal to metal contact and prevent dirt or moisture from entering the compartments. Seals will allow door to operate in extreme temperatures ranging from 180 to -40 degrees Fahrenheit. Side, top and bottom seals will be provided to resist ingress of dirt and weather and be made of Santoprene.

All hinges, barrel clips and end pieces will be nylon 66. All nylon components will withstand temperatures from 300 to -40 degrees Fahrenheit.

A polished stainless steel lift bar to be provided for each roll-up door. Lift bar will be located at the bottom of door and have latches on the outer extrusion of the doors frame. A ledge will be supplied over lift bar for additional area to aid in closing the door.

Door will be constructed from an aluminum box section. The exterior surface of each slat will be flat. The interior surface will be concave to provide strength and prevent loose equipment from jamming the door from inside.

To conserve space in the compartments, the spring roller assembly will not exceed 3.00" in diameter.

The header for the rollup door assembly will not exceed 4.00".

A heavy-duty magnetic switch will be used for control of open compartment door warning lights.

ROLLUP DOOR GUARD

There will be two (2) compartment doors rollup door guards raised to provide additional clearance in the compartment. The raised door guards will be provided Crosslay Module.

COMPARTMENT LIGHTING

There will be nine (9) compartment(s) with two (2) white 12 volt DC LED compartment light strips. The dual light strips will be centered vertically along each side of the door framing. There will be two (2) light strips per compartment.The dual light strips will be in all body compartment(s).

Any remaining compartments without light strips will have a 6.00" diameter Truck-Lite, Model: 79384 light. Each light will have a number 1076 one filament, two wire bulb.

Opening the compartment door will automatically turn the compartment lighting on.

HATCH COMPARTMENTS

Hatch compartments 189.00" long x 21.00" wide x 19.00" maximum depth will be provided above the left side body compartments, with two (2) lift-up top opening hatch doors.

Compartment(s) will extend the full length of the side body compartmentation except for a 20.00" recessed step area at the rear of the compartment on the access ladder side.

Sides of the compartment(s) will be constructed of the same material as the body and painted job color on the outside panels.

Top of the compartment(s) will be constructed of bright aluminum treadplate.

Two (2) lift-up, bright aluminum treadplate doors will be provided on the top of the compartment(s), each with a slam style latch with lever handle to hold the doors in the closed position.

Double pan doors will have lipped edges with a rubber seal for weather resistance.

Doors will be hinged on the outboard side and will be held open with pneumatic stay arms.

Compartment will have a 3/4" drain that extends to below the body.

Ribbed rubber matting will be provided on the compartment floor to stop wet equipment from sitting in water pools.

MOUNTING TRACKS

There will be recessed tracks installed vertically to support the adjustable shelf(s).

Tracks will not protrude into any compartment in order to provide the greatest compartment space and widest shelves possible.

The tracks will be provided in each compartment except for the one that contains the pump operator's panel.

ADJUSTABLE SHELVES

There will be seven (7) shelves with a capacity of 500 lb provided.

The shelf construction will consist of .188" aluminum painted spatter gray with 2.00" sides.

Each shelf will be infinitely adjustable by means of a threaded fastener, which slides in a track.

The shelves will be held in place by .12" thick stamped plated brackets and bolts.

The location(s) will be in LS1 at the depth transition point, in RS1 centered between the floor and the ceiling, in RS1 in the lower third, in RS1 in the upper third, in B1 centered between the floor and ceiling, in LS3 in the upper third and in LS1 in the upper third.

SLIDE-OUT ADJUSTABLE HEIGHT TRAY

There will be four (4) slide-out trays provided.

Each tray will have 2.00" high sides and a minimum capacity rating of 250 lb in the extended position.

Each tray will be constructed of aluminum painted spatter gray.

Each tray will be mounted on a pair of side mounted slides. The slide mechanisms will have ball bearings for ease of operation and years of dependable service. The slides will be mounted to shelf tracks to allow the tray to be adjustable up and down within the designated mounting location.

An automatic lock will be provided for both the in and out tray positions. The lock trip mechanism will be located at the front of the tray and will be easily operated with a gloved hand.

The location(s) will be in RS1 centered between the floor and the ceiling to the left of the partition, in RS1 in the upper third to the left of the partition, in LS1 in the lower third and in LS3 in the lower third

SLIDE-OUT/TILT-DOWN TRAY

There will be three (3) slide-out trays provided.

The bottom of each tray will be constructed of 0.188" thick aluminum painted spatter gray while special aluminum extrusions will be utilized for the tray sides, ends, and tracks. The corners will be welded to form a rigid unit.

A spring loaded lock will be provided on each side at the front of the tray. Releasing the locks will allow the tray to slide out approximately two-thirds (2/3) of its length from the stowed position and tip 30 degrees down from horizontal. The tray will be equipped with ball bearing rollers for smooth operation.

Rubber padded stops will be provided for the tray in the extended position.

The capacity rating of the tray will be a minimum of 215 lb in the extended position.

The vertical position of the tray within the compartment will be adjustable.

The location(s) will be in RS2 centered between the floor and the ceiling, in RS3 centered between the floor and the ceiling and in RS3 in the upper third.

SLIDE-OUT FLOOR MOUNTED TRAY

There will be five (5) floor mounted slide-out tray(s) provided.

Each tray will have 2.00" high sides and a minimum capacity rating of 500 lb in the extended position.

Each tray will be constructed of aluminum painted spatter gray

There will be two undermount-roller bearing type slides rated at 250lb each provided. The pair of slides will have a safety factor rating of 2.

To ensure years of dependable service, the slides will be coated with a finish that is tested to withstand a minimum of 1,000 hours of salt spray per ASTM B117.

To ensure years of easy operation, the slides will require no more than a 50lb force for push-in or pull-out movement when fully loaded after having been subjected to a 40 hour vibration (shaker) test under full load. The vibration drive file will have been generated from accelerometer data collected from a

heavy truck chassis driven over rough gravel roads in an unloaded condition. Proof of compliance will be provided upon request.

Automatic locks will be provided for both the "in" and "out" positions. The trip mechanism for the locks will be located at the front of the tray for ease of use with a gloved hand.

The location(s) will be RS1 to the left of the partition, RS3, LS1, B1 and LS3.

SWING OUT TOOLBOARD

A swing out aluminum toolboard will be provided.

It will be a minimum of .188" thick with .203" diameter holes in a pegboard pattern with 1.00" centers between holes.

A 1.00" x 1.00" aluminum tube frame will be welded to the edge of the pegboard.

The board will be mounted on a pivoting device at the front of the compartment on the top and bottom to allow easy movement in and out of the compartment. The maximum tool load will be 400 lb.

The board will have positive lock in the stowed and extended position.

The board will be mounted on adjustable tracks from front to back within the compartment.

There will be One (1) toolboard(s) provided. The toolboard(s) will be spatter gray painted and installed in LS2.

EQUIPMENT MOUNTING

Pac Trac equipment mounting system will be installed on the walls of two (2) compartment(s), ls3,ls2.

VERTICAL COMPARTMENT PARTITION

One (1) partition will be provided.

The partition construction will consist of body material painted spatter gray. Each partition will be the full vertical height of the compartment.

The location(s) will be in RS1, centered from left to right in the door frame.

RUB RAIL

Bottom edge of the side compartments will be trimmed with a bright aluminum extruded rub rail.

Trim will be 3.12" high with 1.50" flanges turned outward for rigidity.

The rub rails will not be an integral part of the body construction, which allows replacement in the event of damage.

Rub rails will be attached with bolts and spaced from the body with isolators that will help to absorb any moderate impact without damaging the body.

BODY FENDER CROWNS

Polished stainless steel fender crowns will be provided around the rear wheel openings.

A fender liner constructed of unpainted brushed stainless will be provided to avoid paint chipping. The liners will be removable to aid in the maintenance of rear suspension components.

A dielectric barrier will be provided between the fender crown fasteners (screws) and the fender sheet metal to prevent corrosion.

The fender crowns will be held in place with stainless steel screws that thread directly into a composite nut and not directly into the parent body sheet metal to eliminate dissimilar metals contact and greatly reduce the chance for corrosion.

HARD SUCTION HOSE
Hard suction hose will not be required.

HANDRAILS
The handrails will be 1.25" diameter anodized aluminum extrusion, with a ribbed design, to provide a positive gripping surface.

Chrome plated end stanchions will support the handrail. Plastic gaskets will be used between end stanchions and any painted surfaces.

Drain holes will be provided in the bottom of all vertically mounted handrails..

Handrails will be located on the front of the body in positions needed to meet NFPA requirements.

- Two (2) vertical handrails will be located at the rear, one on each side of the rear compartment .

One (1) horizontal knurled handrail will be provided above the hose bed at the rear of the apparatus. The hose bed dividers shall be tied to the upper handrail or cross bar in order to provide sufficient reinforcement.

AIR BOTTLE STORAGE (SINGLE)
A quantity of one air bottle compartment, approximately 7.50" wide x 7.50" tall x 26.00" deep, will be provided on the driver side rearward of the rear wheels. The triangular door will cover the air bottle opening, the DEF tank access, and fuel fill. The compartment will be square with angled corners. A polished stainless steel door with a Southco raised trigger C2 chrome lever latch will be provided to contain the air bottle. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal.

Inside the compartment, black rubber matting will be provided.

AIR BOTTLE COMPARTMENT STRAP
A strap will be provided in the air bottle compartment to help contain the air bottle when the vehicle is parked on an incline. The strap will wrap around the neck and attach to the wall of the compartment.

AIR BOTTLE STORAGE (DOUBLE)
A quantity of four (4) air bottle compartments, 15.25" wide x 7.75" tall x 26.00" deep, will be provided on the left side forward of the rear wheels, on the left side rearward of the rear wheels, on the right side forward of the rear wheels and on the right side rearward of the rear wheels . A polished stainless steel door with a Southco raised trigger C2 chrome lever latch will be provided to contain the air bottle. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal.

Inside the compartment, black rubber matting will be provided.

EXTENSION LADDER
There will be a 30', three (3) section, aluminum Duo-Safety Series 1225-A extension ladder provided.

ROOF LADDER
There will be a 14' aluminum Duo-Safety Series 775-A roof ladder provided.

LADDER STORAGE
The ladders will be stored inside the upper section of the right side compartments. This ladder rack will reduce the depth of the upper section in the side compartments.

A partition will be installed inside the compartment on the side of the rack to allow for equipment storage and to conceal the ladders.

The ladders will be banked in separate storage troughs.

The ladder storage assembly will be fabricated of stainless steel track channels to aid in loading and removal of ladders.

Rear of the ladder storage area will have a vertically hinged smooth aluminum door with lift-and-turn latches to contain the ladders.

FOLDING LADDER
One (1) 10.00' aluminum, Series 585-A, Duo-Safety folding ladder will be installed in a U-shaped trough inside the ladder storage compartment.

FOLDING LADDER TROUGH
A stainless steel trough will be provided for mounting the folding ladder.

PIKE POLE PROVIDED BY FIRE DEPARTMENT
NFPA 1901, 2016 edition, Section 5.9.4 requires one (1) 8 ft or longer pike pole mounted in a bracket fastened to the apparatus.

The pike pole is not on the apparatus as manufactured. The fire department will provide and mount the pike pole.

The pike pole(s) will be a Duo-Safety 10' pike pole.

6' PIKE POLE PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2016 edition, Section 5.9.4 requires one (1) 6' pike pole or plaster hook mounted in a bracket fastened to the apparatus.

The pike pole is not on the apparatus as manufactured. The fire department will provide and mount the pike pole.

The pike pole(s) will be a Duo-Safety 6' pike pole.

PIKE POLE/FOLDING LADDER COMPARTMENT

One (1) pike pole compartment will be provided, recessed in the upper, inside part of body compartment on the left side. The compartment will be equipped with two (2) aluminum tubes to hold two (2) pike poles and a stainless steel trough for the folding ladder. The door will be made of smooth aluminum and have a lift and turn latch.

One (1) compartment will be provided, recessed in the upper, inside part of body compartment on the right side for storage of long handle tools. The door will be made of smooth aluminum and have a lift and turn latch.

LADDER, TOP ACCESS

A wide easy climbing access ladder, constructed of aluminum rungs and extruded aluminum rails, will be provided on the opposite side of the ladder storage at the rear of the apparatus. The inside climbing area of the ladder will be 13.75" wide.

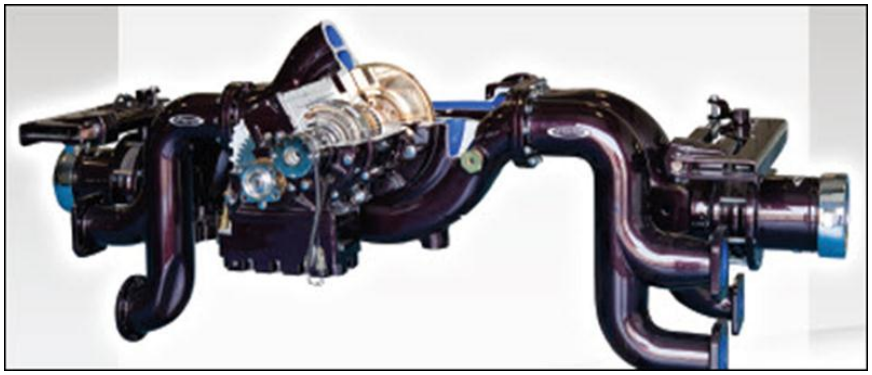
The lower section of the ladder will be retractable into the upper section to eliminate interference with the rear FMVSS lights. When lowered the bottom rung will be lower than the body, approximately 16.00" to 20.00" from the ground to allow a lower first step height.

The ladder will be slanted when in use for easy access, and fold against the body for storage to reduce the overall length. Corrosion resistant, stainless steel spring-loaded locks will hold the ladder in place.

This ladder will activate the Do Not Move Truck indicator, in the cab, if not in the stowed position when the parking brake is disengaged.

PUMP

Pump will be a Pierce, low profile, 1500 gpm single stage midship mounted centrifugal type, mounted below the cab. The pump will have a 15 percent reserve capacity to allow for extended time between pump rebuild. To ensure efficient pump/vehicle design the capacity to weight ratio will not be less than 1.5:1.



The pump casing will consist of three (3) discharge outlets, one (1) to each side in line with the impeller and one (1) to the rear. The pump casing will incorporate two (2) water strippers to maintain radial balance.

Pump will be the Class A type.

Pump will be certified to deliver the percentage of rated discharge from draft at pressure indicated below:

- 100 percent of rated capacity at 150 psi net pump pressure

-70 percent of rated capacity at 200 psi net pump pressure

-50 percent of rated capacity at 250 psi net pump pressure

The pump will have the capacity to deliver the percentage of rated discharge from a pressurized source as indicated below:

- 135 percent of rated capacity at 100 psi net pump pressure from a 5 psi source

Pump body will be fine-grained gray iron. Pump will incorporate a heater/cooling jacket integral to the pump housing.

The impeller will be high strength vacuum cast bronze alloy accurately machine balanced and splined to a 10 spline stainless steel pump shaft for precision fit, exceptional durability, and efficiency. Double replaceable reverse flow labyrinth type bronze wear ring design will help to minimize end thrust. The impeller will be a twisted vane design to create higher lift.

The pump will include o-ring gaskets throughout the pump.

Deep groove radial type oversize ball bearings will be provided. The bearings will be protected at the openings from road dirt and water with an oil seal and a water slinger.

The pump will have a flat, patterned area on the top of the pump intake wye to allow standing for plumbing maintenance. The main inlet manifold will be 6.00" in diameter and will have a low profile design to facilitate low crosslays and high flows.

For ease of service, the pump housing, intake wye, impeller, mechanical seal, and gear case will be accessible from above the chassis frame by tilting the cab. The intake wyes will be removable without having to remove the main intake casting. Removal of the main inlet wyes will provide access to the impeller, mechanical seal, and wear ring.

The tank to pump line and the primary discharge line will be the only piping required to be removed for overhaul.

For ease of service and overhaul there will be no piping or manifolding located directly over the pump.

PUMP MOUNTING

Pump will be mounted to the chassis frame rails directly below the crew cab, to minimize wheelbase and facilitate service, using rubber isolators in a modified V pattern that include two (2) central mounted isolators located between the frame rails, and one (1) on each side outside the frame rails. The mounting will allow chassis frame rails to flex independently without damage to the fire pump. Each isolator will be 2.55" in total outside diameter and will be rated at 490 lb. The pump will be completely accessible by tilting the cab with no piping located directly above the pump.

MECHANICAL SEALS

Silicon carbide mechanical seals will be provided. The seals will be spring loaded and self-adjusting. The seals will have a minimum thermal conductivity of 126 W/m*K to run cooler. Seals will have a minimum hardness of 2800 kg/mm2 to be more resistant to wear, and have thermal expansion characteristics of no more than 4.0 X106mm/mm*K to be more resistant to thermal shock.

PUMP GEAR CASE

The pump gear case will be a pressure-lubricated to cool, lubricate, and filter the oil. The gear case will include an auxiliary PTO opening. The gear case will be constructed of lightweight aluminum, and impregnated with resin in accordance to MIL Spec MIL-I-17563. A dipstick, accessible by tilting the cab, will be provided for easy fluid level checks. A filter screen will be provided for long life.

The gear case will consist of two (2) gears to drive the pump impeller and one (1) for the auxiliary PTO.

The auxiliary PTO opening will provide for the addition of PTO driven accessories.

The pump will be driven through the rear engine power take-off and clutch. The rear engine power take-off drive will be live at all times to allow for pump and roll applications. Rear engine power take-off's allow for high horsepower and torque ratings needed for large pump applications, and is a proven drive system throughout the rugged construction industry.

CLUTCH

There will be a heavy-duty electric clutch mounted directly to the front of the pump to engage and disengage the pump without gear clash. The clutch will be a multiple disc design for maximum torque. The clutch will be fully self-adjusting to provide automatic wear compensation, and consistent torque throughout the life of the clutch. Positive engagement and disengagement will be provided through a high efficient and dependable magnetic system to assure superior performance. The clutch will have a 500 lb-ft rating. Clutch will be of a time-tested design used in critical military applications.

PUMPING MODE

Pump will provide for both pump and roll mode and stationary pumping mode.

Stationary pumping mode will be accomplished by stopping the vehicle, setting the parking brake and engaging the water pump switch on the cab switch panel. The transmission will shift to "Neutral" range automatically when the parking brake is set. The "OK to Stationary Pump" indicator will also illuminate when the parking brake is set. If the vehicle is equipped with a foam system or CAFS system, these systems will be engaged from the cab switch panel as well.

Pump and roll mode will be accomplished by the use of the main pump and will not require the use of a secondary pump. Pump and roll mode will use the same operation sequence as stationary pumping mode with a few additional steps. After the vehicle is setup for stationary pumping, the operator will leave the cab and set-up the pump panel to discharge at the desired outlet(s). Upon returning to the cab, the operator will disengage the parking brake. An "OK to Pump & Roll" indicator will illuminate on the cab switch panel. First gear on the transmission gear selector will be selected by the operator for pump and roll operations. The operator as needed will apply the foot throttle. Pump and roll mode will be maintained unless the transmission shifts out of first gear.

Stopping either stationary pumping mode or pump and roll mode will be accomplished by pressing the "Water Pump" switch down to disengage the pump.

PUMP SHIFT

Pump will be engaged in not more than two steps, by simply setting the parking brake, which will automatically put the transmission into neutral, and activating a rocker switch in the cab. Switches in the cab will also allow for water, foam, or CAFS if equipped, and activate the appropriate system to preset parameters. The engagement will provide simple two-step operation, enhance reliability, and completely eliminate gear clash. The shift will include the indicator lights as mandated by NFPA. A direct override switch will be located behind a door in the lower pump operator's panel. The switch will automatically disengage when the door is closed.

As the parking brake is applied, the pump panel throttle will be activated and deactivate the chassis foot throttle for stationary operation.

Pump and roll operation will be available by releasing the parking brake with the pump in the pumping mode. Releasing the parking brake will activate the chassis foot throttle, and deactivate the pump panel throttle. To protect from accidental pump overheating, the pump will automatically disengage when the truck transmission shifts into second gear.

TRANSMISSION LOCK UP

Transmission lock up is not required as transmission will automatically shift to neutral as soon as the parking brake is set.

AUXILIARY COOLING SYSTEM

A supplementary heat exchange cooling system will be provided to allow the use of water from the discharge side of the pump for cooling the engine water. A water-to-coolant heat exchanger will be used.

INTAKE RELIEF VALVE - PUMP

An Akron Style 53 relief valve will be installed on the suction side of the pump preset at 125 psig.

The relief valve will have a working range of 50 psi to 250 psi.

The outlet will terminate below the frame rails with a 2.50" National Standard hose thread adapter and will have a "do not cap" warning tag.

The relief valve pressure control will be located behind behind the left side pump panel with a stainless steel access door .

PRESSURE CONTROLLER

A Pierce Pressure Governor will be provided. An electric pressure governor will be provided which is capable of automatically maintaining a desired preset discharge pressure in the water pump. When operating in the pressure control mode, the system will automatically maintain the discharge pressure set by the operator (within the discharge capabilities of the pump and water supply) regardless of flow, within the discharge capacities of the water pump and water supply.

A pressure transducer will be installed in the water discharge of the pump. The transducer continuously monitors pump pressure sending a signal to the Electronic Control Module (ECM).

The governor can be used in two (2) modes of operation, RPM mode and pressure modes.

In the RPM mode, the governor can be activated after vehicle parking brake has been set. When in this mode, the governor will maintain the set engine speed, regardless of engine load (within engine operation capabilities).

In the pressure mode, the governor system can only operate after the fire pump has been engaged and the vehicle parking brake has been set. When in the pressure mode, the pressure controller monitors the pump pressure and varies engine speed to maintain a precise pump pressure. The pressure controller will use a quicker reacting J1939 database for engine control.

A preset feature allows a predetermined pressure or rpm to be set.

A pump cavitation protection feature is also provided which will return the engine to idle should the pump cavitate. Cavitation is sensed by the combination of pump pressure below 30 psi and engine speed above 2000 rpm for more than five (5) seconds.

The throttle will be a vernier style control, with a large control knob for use with a gloved hand. A throttle ready light will be provided adjacent to the throttle control. A large 0.75" RPM display will be provided to be visible at a glance.

Check engine, and stop engine indicator lights will be provided for easy viewing.

Large 0.75" push buttons will be provided for menu, mode, preset, and silence selections.

The water tank level indicator will be incorporated in the pressure governor.

A fuel level indicator will be incorporated in the pressure controller.

A pump hour meter will be incorporated in the pressure controller.

The pressure controller will incorporate monitoring for engine temperature, oil pressure, fuel level alarm, and voltage. Pump monitoring will include, pump gearcase temperature, error codes, diagnostic data, pump service reminders, and time stamped data logging, to allow for fast accurate trouble shooting. It will also notify the driver/engineer of any problems with the engine and the apparatus. Complete understandable messages will be provided in a 20-character display, providing for fewer abbreviations in the messages. An automatic dim feature will be included for night operations.

The pressure controller will include a USB port for easy software upgrades, which can be downloaded through a USB memory stick, eliminating the need for a laptop for software installations.

A complete interactive manual will be provided with the pressure controller.

PRIMING PUMP

The priming pump will be a Trident Emergency Products compressed air powered, high efficiency, multistage venturi based AirPrime System, conforming to standards outlined in the current edition of NFPA 1901.

All wetted metallic parts of the priming system are to be of brass and stainless steel construction.

One (1) priming control will open the priming valve and start the pump primer.

PUMP MANUALS

There will be a total of two (2) pump manuals provided by the pump manufacturer and furnished with the apparatus. The manuals will be provided by the pump manufacturer in the form of two (2) electronic copies. Each manual will cover pump operation, maintenance, and parts.

PLUMBING, STAINLESS STEEL AND HOSE

All inlet and outlet lines will be plumbed with either stainless steel pipe, flexible polypropylene tubing or synthetic rubber hose reinforced with hi-tensile polyester braid. All hose's will be equipped with brass or stainless steel couplings. All stainless steel hard plumbing will be a minimum of a schedule 10 wall thickness.

Where vibration or chassis flexing may damage or loosen piping or where a coupling is required for servicing, the piping will be equipped with victaulic or rubber couplings.

Plumbing manifold bodies will be ductile cast iron or stainless steel.

All piping lines are to be drained through a master drain valve or will be equipped with individual drain valves. All drain lines will be extended with a hose to drain below the chassis frame.

All water carrying gauge lines will be of flexible polypropylene tubing.

All piping, hose and fittings will have a minimum of a 500 PSI hydrodynamic pressure rating.

FOAM SYSTEM PLUMBING

All piping that is in contact with the foam concentrate or foam/water solution will be stainless steel. The fittings will be stainless steel or brass. Cast iron pump manifolds will be allowed.

MAIN PUMP INLETS

A 6.00" pump manifold inlet will be provided on each side of the vehicle. The suction inlets will include removable die cast zinc screens that are designed to provide cathodic protection for the pump, thus reducing corrosion in the pump.

Main pump inlets will not be located on the main operator's panel and will maintain a low connection height by terminating below the top of the chassis frame rail.

VALVES

All ball valves will be Akron® Brass. The Akron valves will be the 8000 series heavy-duty style with a stainless steel ball and a simple two-seat design. No lubrication or regular maintenance is required on the valve.

Valves will have a **ten (10) year** warranty.

LEFT SIDE INLET

There will be one (1) auxiliary inlet with a 2.50" valve at the left side pump panel, terminating with a 2.50" (F) National Standard hose thread adapter.

The auxiliary inlet will be provided with a strainer, chrome swivel and plug.

RIGHT SIDE INLET

There will be one (1) auxiliary inlet with a 2.50" valve at the right side pump panel, terminating with a 2.50" (F) National Standard hose thread adapter.

The auxiliary inlet will be provided with a strainer, chrome swivel and plug.

The location of the valve for the one (1) inlet will be recessed behind the pump panel.

ANODE, INLET

A pair of sacrificial zinc anodes will be provided in the water pump inlets to protect the pump from corrosion.

INLET CONTROL
The side auxiliary inlet(s) will incorporate a quarter-turn ball valve with the control located at the inlet valve. The valve operating mechanism will indicate the position of the valve.

INLET BLEEDER VALVE
A 0.75" bleeder valve will be provided for each side gated inlet. The valves will be located behind the panel with a swing style handle control extended to the outside of the panel. The handles will be chrome plated and provide a visual indication of valve position. The swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage. The water discharged by the bleeders will be routed below the chassis frame rails.

TANK TO PUMP
The booster tank will be connected to the intake side of the pump with heavy duty 4.00" piping and a quarter turn 3.00" full flow line valve with the control located at the operator's panel. A rubber coupling will be included in this line to prevent damage from vibration or chassis flexing.

A check valve will be provided in the tank to pump supply line to prevent the possibility of "back filling" the water tank.

TANK REFILL
A 1.50" combination tank refill and pump re-circulation line will be provided, using a quarter-turn full flow ball valve controlled from the pump operator's panel.

LEFT SIDE DISCHARGE OUTLETS
There will be two (2) discharges with a 2.50" valves on the left side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter. Discharges will be located below the cab, and will be no higher than the top of the chassis frame rail. Discharges will not be located on the pump operator's panel. Lever controls will be provided at the valve.

RIGHT SIDE DISCHARGE OUTLETS
There will be one (1) discharge outlet with a 2.50" valve on the right side of the apparatus, terminating with a 2.50" MNST adapter. The discharge(s) will be located below the crew cab and will be no higher than the top of the chassis frame rail.

There will be Akron 9335 electric valve controller(s) provided on the pump operators panel. The electric control(s) must be of a true position feedback design, requiring no clutches in the motor or current limiting. The unit(s) must be completely sealed with momentary open, close as well and an optional one touch full open feature to operate the valve actuator. The controller(s) will provide position indication on a full color, backlit LCD display. They will have manual adjustment of the brightness as well as an auto dimming option.

In addition to valve position, each controller will include a pressure display.

LARGE DIAMETER DISCHARGE OUTLET
There will be a 4.00" discharge outlet with a 4.00" valve installed on the right side of the apparatus, terminating with 4.00" MNST threads. The discharge will be located below the crew cab and will be no higher than the top of the chassis frame rail.

There will be an Akron 9335 electric valve controller provided on the pump operators panel. The electric control must be of a true position feedback design, requiring no clutches in the motor or current limiting. The unit must be completely sealed with momentary open, close as well and an optional one touch full open feature to operate the valve actuator. The controller will provide position indication on a full color, backlit LCD display. It will have manual adjustment of the brightness as well as an auto dimming option.

In addition to valve position, the controller will include a pressure display.

FRONT DISCHARGE OUTLET

There will be one (1) 2.50" discharge outlet piped to the front of the apparatus and located on the top of the right side of the front bumper.

Plumbing will consist of 2.50" piping and flexible hose with a 2.50" full flow valve with control at the pump operator's panel. A fabricated weldment made of stainless steel pipe will be used in the plumbing where appropriate. The piping will terminate with a 2.50" NST with 90 degree stainless steel swivel.

There will be automatic drains provided at all low points of the piping.

HOSE BED DISCHARGE OUTLET

There will be two (2) discharge outlets piped to the front of the hose bed, in the one each side bed. Plumbing will consist of 3.00" schedule 10 304L welded or formed stainless steel piping along with a 2.50" full flow ball valve with the control from the pump operator's panel. Discharge will terminate with 2.50" NST thread.

DISCHARGE CAPS/ INLET PLUGS

Chrome plated, rocker lug, caps with chain will be furnished for all discharge outlets 1.00" thru 3.00" in size, besides the pre-connected hose outlets.

Chrome plated, rocker lug, plugs with chain will be furnished for all auxiliary inlets 1.00" thru 3.00" in size.

The caps and plugs will incorporate a thread design to automatically relieve stored pressure in the line when disconnected (no exception).

OUTLET BLEEDER VALVE

A 0.75" bleeder valve will be provided for each outlet 1.50" or larger. Automatic drain valves are acceptable with some outlets if deemed appropriate with the application.

The valves will be located behind the panel with a swing style handle control extended to the outside of the side pump panel. The handles will be chrome plated and provide a visual indication of valve position. The swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage. Bleeders will be located at the bottom of the pump panel. They will be properly labeled identifying the discharge they are plumbed in to. The water discharged by the bleeders will be routed below the chassis frame rails.

DISCHARGE OUTLET CONTROLS

The right side discharges will incorporate a quarter-turn ball valve and be controlled by Akron 9335 electric valve controllers provided on the pump operators panel. The electric controls must be of a true position feedback design, requiring no clutches in the motor or current limiting. The units must be completely sealed with momentary open, close as well and an optional one touch full open feature to operate their corresponding valve actuator. The controllers will provide position indication on a full color, backlit LCD display. They will have manual adjustment of the brightness as well as an auto dimming option. In addition to the valve controls, the electric valve controllers will include a pressure display

All other outlets will have manual swing handles that operate in a vertical up and down motion. These handles will be able to lock in place to prevent valve creep under pressure.

DELUGE RISER

A 3.00" deluge riser will be installed above the pump in such a manner that a monitor can be mounted and used effectively. Piping will be installed securely so no movement develops when the line is charged. A 2.50" gated valve will be installed and controlled at the pump operator's panel. The deluge outlet will provide 1000 GPM. This outlet will have two (2) supply lines teed together to allow proper water flow in the water only operation and the water/foam operation. The water/foam piping will include a 2.50" ball valve and it will be plumbed into the foam system.

TELESCOPIC PIPING

The deluge riser piping will include a 18.00" Elkhart Electrically Actuated Extender.

This extension will be telescopic to allow the deluge gun to be raised 18.00" increasing the range of operation.

A control will be mounted on the pump operators panel to actuate the Extender. The wiring will include a "Do not move vehicle" light inside the cab when the monitor is in the raised position.

MONITOR

An Elkhart Cobra EXM 7200 electric radio remote control waterway monitor will be properly installed on the deluge riser.

This monitor will include all electric 12 VDC controls for the monitor.

The monitor will include the automatic stow feature.

A remote control will be installed on the pump operator's panel and a wireless radio remote will be furnished with loose equipment.

The monitor will be painted as provided by monitor manufacturer.

NOZZLE

An Elkhart #SM-1250E electrically controlled Select-O-Matic master stream nozzle will be provided.

The deluge riser will have a 3.00" ANSI Flange for mounting the Elkhart monitor.

CROSSLAY MODULE
The crosslay module will be full width of the rear body.

The forward, upper corners of the module will have full body corners.

The crosslay module will be manufactured for installation of roll up doors on each side.

ROLLUP DOOR, CROSSLAY ENDS
The compartment doors will be rollup style, double faced aluminum construction painted one (1) color to match the lower portion of the body and manufactured by Gortite®.

Lath sections will be an interlocking rib design and will be individually replaceable without complete disassembly of door.

Between each slat at the pivoting joint will be a PVC inner seal to prevent metal to metal contact and prevent dirt or moisture from entering the compartments. Seals will allow door to operate in extreme temperatures ranging from 180 to -40 degrees Fahrenheit. Side, top and bottom seals will be provided to resist ingress of dirt and weather and be made of Santoprene.

All hinges, barrel clips and end pieces will be nylon 66. All nylon components will withstand temperatures from 300 to -40 degrees Fahrenheit.

A polished stainless steel lift bar to be provided for each roll-up door. Lift bar will be located at the bottom of door and have latches on the outer extrusion of the doors frame. A ledge will be supplied over lift bar for additional area to aid in closing the door.

Doors will be constructed from an aluminum box section. The exterior surface of each slat will be flat. The interior surfaces will be concave to provide strength and prevent loose equipment from jamming the door from inside.

To conserve space in the compartments, the spring roller assembly will not exceed 3.00" in diameter.

The header for the rollup door assembly will not exceed 4.00".

A heavy-duty magnetic switch will be used for control of open compartment door warning lights.

The crosslays will have a drip pan below the roll of the door.

CROSSLAY COMPARTMENT LIGHTING
There will be two (2) 12 volt DC light strips with white LEDs and mechanical fasteners, provide behind the front door frame on the crosslay compartments per the following:

- One (1) strip light for the left side crosslay compartment door
- One (1) strip light for the right side crosslay compartment door

The lights will be activated when the battery switch is on and the respective door is opened.

CROSSLAY(S), LOWER
There will be two (2) lower crosslays provided.

1.50" Crosslays
There will be two (2) 1.50" crosslays plumbed with 2.00" welded or formed schedule 10 304L stainless steel pipe.

The crosslays will be low mounted with the bottom of both crosslay trays no more than 11.00" above the frame rails for simple, safe reloading and deployment (no exception).

There will be a 1.50" National Standard hose thread 90-degree swivel provided in each hose bed, so that the hose may be removed from either side of apparatus. The swivel will be as far outbound as possible for ease of changing hose.

Each crosslay will be gated with a 2.00" quarter turn ball valve with the controls located at the pump operator's panel.

Each hose bed will be capable of carrying 200' of 1.75" double jacket hose .

Crosslay Hose Trays
A removable tray will be provided for each crosslay hose bed. The crosslay tray will be constructed of black poly to provide a lightweight sturdy tray. Two (2) hand holes will be in the floor and additional hand holes will be provided in the sides for easy removal and installation from the compartment. The floor of the trays will be perforated to allow for drainage and hose drying.

Trays will be held in place by a mechanical spring-loaded stainless-steel latch that automatically deploys upon loading the trays to hold the trays in place during transit.

CROSSLAY(S), UPPER
There will be one (1) upper crosslay provided.

2.50" Crosslay
There will be one (1) 2.50" crosslay plumbed with 2.50" welded or formed schedule 10 304L stainless steel pipe.

There will be a 2.50" National Standard hose thread 90-degree swivel provided in each hose bed, so that hose may be removed from either side of apparatus. The swivel will be as far outbound as possible for ease of changing hose.

Each crosslay will be gated with a 2.50" quarter turn ball valve with the controls located at the pump operator's panel.

Each hose bed will be capable of carrying 200' of 2.50" double jacket hose .

Crosslay Hose Trays
A removable tray will be provided for each crosslay hose bed. The crosslay tray will be constructed of black poly to provide a lightweight sturdy tray. Two (2) hand holes will be in the floor and additional hand holes will be provided in the sides for easy removal and installation from the compartment. The floor of the trays will be perforated to allow for drainage and hose drying.

Trays will be held in place by a mechanical spring-loaded stainless-steel latch that automatically deploys upon loading the trays to hold the trays in place during transit.

FOAM PROPORTIONER

A foam proportioning system will be provided that is an on demand, automatic proportioning, single point, direct injection system suitable for all types of Class A and B foam concentrates, including the high viscosity (6000 cps), alcohol resistant Class B foams. Operation will be based on direct measurement of water flow, and remain consistent within the specified flows and pressures. The system will automatically balance and proportion foam solution at rates from .1 percent to 9.9 percent regardless of variations in water pressure and flow, up to the maximum rated capacity of the foam concentrate pump.

The design of the system will allow operation from draft, hydrant, or relay operation. This will provide a versatile system to meet the demands at a fire scene.

SYSTEM CAPACITY

The system will have the ability to deliver the following minimum foam solution flow rates that meet or exceed NFPA requirements at a pump rating of 250 psi.

200 gpm @ 6 percent

400 gpm @ 3 percent

1200 gpm @ 1 percent

The foam concentrate setting may be adjusted in .1 percent increments from .1 percent to 9.9 percent. Typical settings are .3 percent, .5 percent and 1.0 percent (The maximum capacity will be limited to the plumbing and water pump capacity).

CONTROL SYSTEM

The system will be equipped with a digital electronic control display located on the pump operators panel. Push button controls will be integrated into the panel to turn the system on/off, control the foam percentage, direct which foam to use on a multi-tank system, and to set the operation modes (automatic, manual, draft, calibration, or flush).

The percent of injection will have presets for Class A or Class B foam. These presets can be changed at the fire department as desired. The percent of injection will be able to be easily changed at the scene to adjust to changing demands.

In order to minimize the use of abbreviations and interpretations, system information will be displayed on the panel by way of .50 tall LEDs that total 14 characters (two (2) lines of seven (7) each). System on and foam pump on indicator lights will also be included. Information displayed will include mode of operation (automatic, manual, draft, calibration, or flush), foam supply selected (Class A or Class B), water total, foam total, foam percentage, remaining gallons, and time remaining.

The control display will direct a microprocessor, which receives input from the systems water flow meter while also monitoring the position of the foam concentrate pump. The microprocessor will compare the values of the water flow versus the position/rate of the foam pump, to ensure the proportion rate is

accurate. One (1) check valve will be installed in the plumbing to prevent foam from contaminating the water pump.

LOW LEVEL, FOAM TANK

The control head will display a warning message when the foam tank in use is below a quarter tank.

HYDRAULIC DRIVE SYSTEM

The foam concentrate pump will be powered by a hydraulic drive system, which is automatically activated, whenever the vehicle water pump is engaged. A large parasitic electric load used to power the foam pump can cause an overload of the chassis electrical system.

Hydraulic oil cooler will be provided to automatically prevent overheating of the hydraulic oil, which is detrimental to system components. The oil/water cooler will be designed to allow continuous system operation without allowing hydraulic oil temperature to exceed the oil specifications.

The hydraulic oil reservoir will be of four (4) gallons minimum capacity and will also be of sufficient size to minimize foaming and be located to facilitate checking oil level or adding oil without spillage or the need to remove access panels.

FOAM CONCENTRATE PUMP

The foam concentrate pump will be of positive displacement, self-priming; linear actuated design, driven by the hydraulic motor. The pump will be constructed of brass body; chrome plated stainless steel shaft, with a stainless steel piston. In order to increase longevity of the pump, no aluminum will be present in its construction.

A relief system will be provided which is designed to protect the drive system components and prevent over pressuring the foam concentrate pump.

The foam concentrate pump will have minimum capacity for 12 gpm with all types of foam concentrates with a viscosity at or below 6000 cps including protein, fluoroprotein, AFFF, FFFP, or AR-AFFF. The system will deliver only the amount of foam concentrate flow required, without recirculating foam back to the storage tank. Recirculating foam concentrate back to the storage tank can cause agitation and premature foaming of the concentrate, which can result in system failure. The foam concentrate pump will be self-priming and have the ability to draw foam concentrate from external supplies such as drums or pails.

EXTERNAL FOAM CONCENTRATE CONNECTION

An external foam pick-up will be provided to enable use of a foam agent that is not stored on the vehicle. The external foam pick-up will be designed to allow continued operation after the on-board foam tank is empty. The external foam pick-up will be designed to allow use with training foam or colored water for training purposes.

PANEL MOUNTED STRAINER/EXTERNAL PICK-UP CONNECTION

A bronze body strainer/connector unit will be provided. The unit will be mounted to the pump panel. The external foam pick-up will be one (1) 1.00" male connection with chrome-plated cap integrated to a 2.00" strainer cleanout cap. A check valve will be installed in the pick-up portion of the cleanout cap. A basket style stainless steel screen will be installed in the body of the strainer/connector unit. Removal

of the 2.00" cleanout cap will be all that is required to gain access to and remove the stainless steel basket screen. The strainer/connector unit will be ahead of the foam concentrate pump inlet port to insure that all agent reaching the foam pump has been strained.

PICK-UP HOSE

A 1.00" flexible hose with an end for insertion into foam containers will be provided. The hose will be supplied with a 1.00" female swivel NST thread swivel connector. The hose will be shipped loose.

DISCHARGES

The foam system will be plumbed to the right side of front bumper, Deluge Foam Bypass, front of hose bed right side, crosslay center, crosslay lower and crosslay upper.

SYSTEM ELECTRICAL LOAD

The foam proportioning will not impose an electrical load on the vehicle electrical system any greater than five (5) amps at 12VDC.

FOAM SUPPLY VALVE

An electric valve will be used for the foam supply valve. The foam supply valve will be controlled at the foam system control head for ease of operation. The supply valve will be electric, remote controlled, to eliminate air pockets in the foam tank supply hose.

MAINTENANCE MESSAGE

A message will be displayed on the control head to advise when system maintenance needs to be performed. The message will display interval for cleaning the foam strainer, cleaning for the water strainers, and changing the hydraulic oil.

FLUSH SYSTEM

The system will be designed such that a flush mode will be provided to allow the system to flush all foam concentrate with clear water. The flush circuit control logic will ensure the foam tank supply valve is closed prior to opening the flush valve. The flush valve will be operated at the foam system control head for ease of operation. The valve will be electrically controlled and located as close to the foam tank supply valve as possible. A manual flush drain valve will be labeled and conveniently located.

FOAM GENERATING SYSTEM, CAF

A Hercules 140 cfm capacity compressed air foam, will be provided. The system will supply six (6) discharges with compressed air foam. It will be capable of providing foam solution or compressed air foam from any of the specified CAFS discharges simultaneously. In addition, the consistency of the compressed air foam (wet to dry) from each discharge will be adjustable. All CAF capable discharges will have the discharge valve control, air injection control, and discharge pressure gauge mounted in a group on the operator's panel. Each CAF capable discharge will feature a check valve to prevent reverse flows of compressed air foam that is integrated into the discharge valve. The wafer check valve will be a type and design approved by the manufacturer of the discharge valve.

DISCHARGES TO CAF CAPABLE

The Front , bumper, 3 cl, Right side hose bed and deluge gun discharges will be capable of discharging compressed air foam. There is no second pump on the vehicle

AIR COMPRESSOR, HYDRAULIC DRIVEN

An oil flooded rotary screw compressor rated for at least 140cfm @ 150psig will be provided. The compressor will be mounted in an area that allows for proper service and maintenance of the components. The compressor will be driven by a hydraulic drive system. The hydraulic drive system will be driven by the vehicle transmission through a PTO. All components of the system will be sized and rated for the system to deliver compressed air, uninterrupted, for up to two (2) hours at a time without undue stresses, vibrations, or overheating. The air compressor will be capable of delivering the rated capacity of the compressor when the fire pump is delivering 250gpm @120psi from tank or draft.

The hydraulic compressor drive system will be comprised of a variable displacement piston type hydraulic pump supplying a fixed displacement piston hydraulic motor. The displacement of the hydraulic pump will be controlled by a fixed orifice type, load sensing, hydraulic circuit. The hydraulic system will have a properly sized reservoir, cooler, filter(s) and accessory components. The components will be mounted in the vehicle body to facilitate routine maintenance operations. The hydraulic drive design will be certified by manufacturer of the primary components as suitable for the intended use and duty cycle.

All components of the air compressor and drive system will be readily available on the domestic air compressor / hydraulic market (USA). The compressor will be designed and assembled by the apparatus manufacturer, using standard components available to air compressor OEM's. The hydraulic drive system will be assembled by the apparatus manufacturer using standard mobile hydraulic components.

The PTO will be a 10 bolt SAE type mounted to the PTO opening of the vehicle's Allison transmission. The PTO will be rated for at least 20 percent more torque throughput than the air compressor drive system will demand.

The air/oil separator for the compressor system will be easily serviced. The separator will be inside a cast iron compressor base, receiver combination. The separator will consist of two stages. The first stage being a centrifuge arrangement engineered into the compressor base. The second stage will be a cartridge arrangement inside an enclosure featuring an "inside to outside" flow of the air through the cartridge. The cartridge will be serviceable by the removal of the compressor system minimum pressure valve. The separation system will be capable of at least 140 SCFM flow at 40 psi tank pressure. The allowable oil carry over will be no more than 10 parts per million oil in air.

A cast iron air/oil receiver tank will be provided. The tank will be constructed and tested to the applicable standards as addressed by NFPA 1901 for CAF system air compressor tanks. The tank will be mounted in a manner that allows easy access to the fill opening and the level sight gauges. The tank will be of the vertical type with the minimum pressure valve of the compressor system integrated into the top of the tank. The minimum pressure valve will be rotatable to facilitate different discharge arrangements from the tank.

The compressor lubricant will be filtered by spin on type filter. The filter will have a 25 Micron rating and a safety bypass valve. The filter assembly will be mounted and located in a manner that allows easy service. A thermostat valve will be integrated into the oil filter and compressor base housing. The

thermostat will route lubricant to the oil cooler to maintain the compressor's temperature between minimum and maximum limits.

A water/oil cooler will be provided to cool the compressor. The cooler will be sized to meet the duty cycle requirements as specified.

A heavy duty, automotive type, dry element air cleaner will be provided. The air cleaner will be mounted in such a manner as to be easily serviced. The air cleaner will be mounted, or the inlet of the filter routed, in such a manner that the air cleaner intakes fresh air from outside the vehicle body. In addition, the compressor air intake will be screened to prevent debris from entering the filter housing.

The system will have the following safety or monitoring devices.

Minimum pressure valve

Compressor lube temperature gauge

Compressor system pressure gauge

Air flow meter

Compressor lube temperature warnings, audible and visible

High pressure relief valve on receiver tank

Applicable warning and information decals

The air compressor will be controlled by a modulating inlet valve mounted on the air compressors inlet port. A controller will be provided that senses air pressure and controls the delivery volume of the air compressor while maintaining a constant pressure. The controller will feature an automatic balancing system to maintain the air pressure within plus or minus 5% of the discharge pressure of the fire pump, throughout a pressure range of 60psi to 150psi.

The compressor system will have operators controls at the pump panel for the following functions.

Automatic pressure regulation, to match the compressor discharge pressure to the pump discharge pressure.

Fixed pressure regulation, to set the air pressure at on pressure for the use of air tools, etc.

PTO engagement switch

PTO engaged indicator light

AIR TOOL OUTLET

A 1.00" air outlet supplied by the CAFS compressor shall be provided on the pump operators panel for a side mount pumphouse and on the left pump panel for a top mount pumphouse.This outlet will have a chrome plated 1.0" FNST swivel fitting at the panel and a valve behind the pump panel. The outlet will

be capable of supplying the capacity of the compressor. A mating 1.0" MNST x 1.0" NPT fitting will be supplied with loose equipment.

SINGLE FOAM TANK REFILL

The foam system's proportioning pump will be used to fill the Class A foam tank. This will allow use of the auxiliary foam pick-up to pump the foam from pails or a drum on the ground into the foam tank. A foam shut-off switch will be installed in the fill dome of the tank to shut the system down when the tank is full. The fill operation will be controlled by a mode in the foam system controller stating TANK FILL. While the proportioner pump is filling the tank, the controller will display FILL TANK. When the tank is full, as determined by the float switch in the tank dome, the pump will stop and the controller will display TANK FULL.

FOAM SYSTEM TRAINING

The fire department will be provided training for the foam / CAFS system installed on their apparatus. The operation of the systems will only be demonstrated by factory approved or certified personnel.

This demonstration will include:

- A review of the foam system manual, emphasizing key areas

- A walk around review of the system components on the finished truck

- A hands-on foam / CAFS system startup and foam discharge session

- Instructions on the use of the manual overrides

- A demonstration explaining the proper way to shutdown and flush the foam system.

FOAM TANK

The foam tank will be an integral portion of the polypropylene water tank. The cell will have a capacity of 30 gallons of foam with the intended use of Class A foam. The brand of foam stored in this tank will be Silvex. The foam cell will reduce the capacity of the water tank. The foam cell will have a screen in the fill dome and a breather in the lid.

FOAM TANK DRAIN

A system of 1.00" foam tank drains will be provided, integrated into the foam systems strainer and tank to foam pump valve management system.The tank to pump hoses running from the tank(s) to the panel mounted strainer will 1.00" diameter.The foam system controller will have a mode that allows for a given foam valve to be opened at will. Flow of foam from the tank valve to the strainer will be usable as a tank drain mode.

An adaptor will be supplied, that allows the 1.00" foam intake screen to assembly to be used as a drain outlet. The standard supplied 1.00" foam pick up hose will be attached to the screen assembly by way of the adapter. The drain mode will allow the operator to open and close the tank valve as required from the control head, to drain foam and re-fill foam containers through the connected hose, without foam spillage beneath the vehicle.

PUMP CONTROL PANELS (LEFT SIDE CONTROL)

Pump controls and gauges will be located midship at the left side of the apparatus and properly identified.

The main pump operator's control panel will be completely enclosed and located in the forward section of the body compartment, to protect against road debris and weather elements. The pump operator's panels will be no more than 31.00" wide, and made in four (4) sections with the center section easily removable with simple hand tools. For the safety of the pump operator, there will be no discharge outlets or pump inlets located on the main pump operators panel.

Layout of the pump control panel will be ergonomically efficient and systematically organized. The upper section will contain the master gauges. This section will be angled down for easy visibility. The center section will contain the pump controls aligned in two horizontal rows. The pressure control device, engine monitoring gauges, electrical switches, and foam controls (if applicable) will be located on or adjacent to the center panel, on the side walls for easy operation and visibility. The lower section will contain the outlet drains.

Manual controls will be easy moving 8" long lever style controls that operate in a vertical, up and down swing motion. These handles will have a 2.25" diameter knob and be able to lock in place to prevent valve creep under any pressure. Bright finish bezels will encompass the opening, be securely mounted to the pump operator's panel, and will incorporate the discharge gauge bezel. Bezels will be bolted to the panel for easy removal and gauge service. The left side discharges will be controlled directly at the valve. There will be no push-pull style control handles.

Identification tags for the discharge controls will be recessed within the same bezel. The discharge identification tags will be color coded, with each discharge having its own unique color.

All remaining identification tags will be mounted on the pump panel in chrome-plated bezels.

All discharge outlets will be color coded and labeled to correspond with the discharge identification tag.

The pump panels for the midship discharge and intake ports will be located ahead of the body compartments with no side discharge or intake higher than the frame rail. The pump panels will be easily removable with simple hand tools.

A recessed cargo area will be provided at the front of the body, ahead of the water tank above the plumbing.

PUMP PANEL CONFIGURATION

The pump panel configuration will be arranged and installed in an organized manner that will provide user-friendly operation.

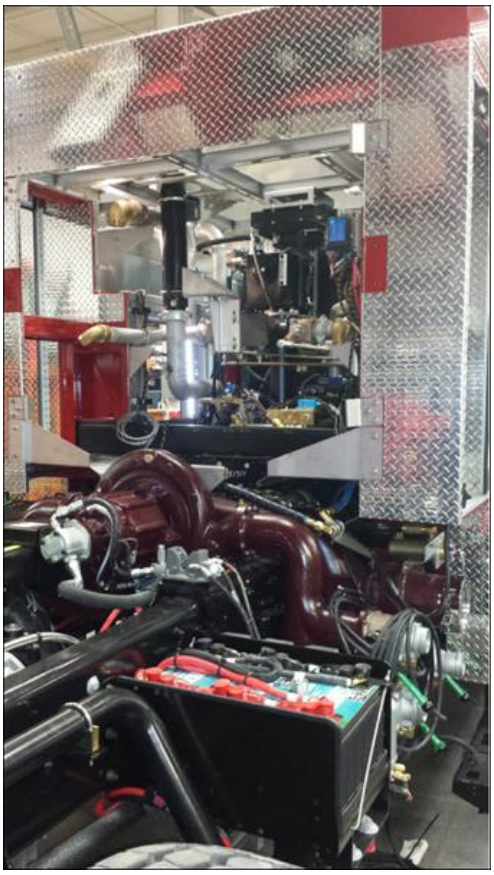
PUMP AND GAUGE PANEL

The pump operator's panel and gauge panels will be constructed of stainless steel with a brushed finish.

The side control panels will be constructed of stainless steel with a brushed finish for durability and ease of maintenance.

PUMP AND PLUMBING ACCESS

Simple access to the plumbing will be provided through the front of the body area by raising the cab for complete plumbing service and valve maintenance. Access to valves will not require removal of operator panels or pump panels. Access for rebuilding of the pump will not require removal of more than the tank to pump line and a single discharge line. This access will allow for fast, easy valve or pump rebuilding, making for reduced out of service times. Steps will be provided for access to the top of the pump.



Access to the pump will be provided by raising the cab. The pump will be positioned such that all maintenance and overhaul work can be performed above the frame and under the tilted cab. The service and overhaul work on the pump will not require the removal of operator panels or pump panels. Complete pump casing and gear case removal will require no more than removal of the intake and discharge manifolds, driveline, coolers and a single discharge line. The pump case and gear case will be able to be removed by lifting upward without interference from piping and be removable in less than 3 hours.

PUMP COMPARTMENT LIGHT

There will be one (1) Whelen®, Model 3SC0CDCR, 3.00" white 12 volt DC LED light(s) with Whelen, Model 3FLANGEC, flange(s) installed in the plumbing area.

The light(s) will be activated by a toggle switch located in the pump compartment area.

Engine monitoring graduated LED indicators will be incorporated with the pressure controller.

VACUUM AND PRESSURE GAUGES

The pump vacuum and pressure gauges will be liquid filled and manufactured by Class 1 Incorporated ©.

The gauges will be a minimum of 4.00" in diameter and will have white faces with black lettering, with a pressure range of 30.00"-0-600#.

Gauge construction will include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut.

The pump pressure and vacuum gauges will be installed adjacent to each other at the pump operator's control panel.

Test port connections will be provided at the pump operator's panel. One will be connected to the intake side of the pump, and the other to the discharge manifold of the pump. They will have 0.25 in. standard pipe thread connections and non-corrosive polished stainless steel or brass plugs. They will be marked with a label.

This gauge will include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.

PRESSURE GAUGES

The individual "line" pressure gauges for the discharges will be Class 1© interlube filled.

They will be a minimum of 2.00" in diameter and have white faces with black lettering.

Gauge construction will include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut.

Gauges will have a pressure range of 30"-0-400#.

The individual pressure gauge will be installed as close to the outlet control as practical.

This gauge will include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.

WATER LEVEL GAUGE

An electric water level gauge will be incorporated in the pressure controller that registers water level by means of nine (9) LEDs. They will be at 1/8 level increments with a tank empty LED. The LEDs will be a bright type that is readable in sunlight, and have a full 180-degree of clear viewing.

To further alert the pump operator, the gauge will have a warning flash when the tank volume is less than 25 percent. The gauge will have down chasing LEDs when the tank is almost empty.

The level measurement will be ascertained by sensing the head pressure of the fluid in the tank or cell.

MINI SLAVE UNIT

An electric water level gauge will be provided in the cab that registers water level by means of five (5) LEDs. They will be at 1/4 level increments with a tank empty LED. The LEDs will be a bright type that are readable in sunlight and have a full 180-degree of clear viewing.

The water level gauge in the cab will be activated when the pump is in gear.

WATER LEVEL GAUGE

There will be two (2) additional water level indicator(s), a Whelen®, Model PSTANK2, LED module with chrome housing, installed one (1) each side rearward of crew cab doors.

This light module(s) will include four (4) colored levels and will function as follows:

- First, the green light module indicates a full water level.
- Second, the blue light module indicates a water level above 3/4 full.
- Third, an amber light module indicates a water level above 1/2 full.
- Last, a red light module indicates a water level above 1/4 full.

The light module will be steady burning when the water level is above the 1/4 full mark.

The light module will flash all green indicating the water level is empty.

This light module will be activated when the pump is in gear.

The flash rate will be determined by the main water level tank sensor.

FOAM LEVEL GAUGE

A Pierce electric foam level gauge will be provided on the operator's panel, that registers foam level by means of nine (9) LEDs. There will also be a mini foam level gauge with five (5) LEDs in the cab. They will be at 1/8 level increments with a tank empty LED. The LEDs will be a bright type that is readable in sunlight, and have a full 180 degree of clear viewing. The gauge will match the water level gauge in the pressure controller.

To further alert the pump operator, will have a warning flash when the tank volume is less than 25 percent, and will have Down Chasing LEDs when the tank is almost empty.

The level measurement will be ascertained by sensing the head pressure of the fluid in the tank or cell. This method provides accuracy with an array of multi-viscosity foams.

The foam level gauge in the cab will be activated by pump is in gear.

SIDE CONTROL PUMP OPERATOR'S/PUMP PANEL LIGHTING

Illumination will be provided for controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus and the equipment provided on it. External illumination will be a minimum of five (5) foot-candles on the face of the device. Internal illumination will be a minimum of four (4) footlamberts.

The pump panels will be illuminated by two (2) Truck-Lite, Model 60354C, 6.00" x 2.00" oval white LED lights with Model 60700, grommets and chrome covers installed on the back of the cab, one (1) on the driver's side and one (1) on the passenger's side.

The pump operator's panel will utilize the same LED strip lighting at the forward doorframe as all other compartment lighting.

There will be a small white LED pump engaged indicator light installed overhead.

AIR HORN SYSTEM
There will be two (2) Grover air horns recessed in the front bumper. The horn system will be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve will be installed in-line to prevent loss of air in the air brake system.

Air Horn Location
The air horns will be located on each side of the bumper, towards the outside.

AIR HORN CONTROL
One (1) lanyard chain pull control will be provided. It will be centered between the driver's and officer's seats. The chain will split so that there is a separate chain accessible for both the driver and officer.

ELECTRONIC SIREN
A Whelen®, Model 295SLSA1, electronic siren with noise canceling microphone will be provided.

This siren to be active when the battery switch is on and that emergency master switch is on.

ELECTRIC SIREN, LOCATION,
Siren head will be mounted behind driver seat.

The electronic siren will be controlled on the siren head only. No horn button or foot switches will be provided.

SPEAKERS
There will be two (2) Whelen, Model SA315P, black nylon composite, 100-watt, speakers with through bumper mounting brackets provided. Each speaker will be connected to the siren amplifier.

The speakers will be recessed in each side of the front bumper, just outside of the frame rails.

AUXILIARY MECHANICAL SIREN
A Federal Q2B® siren will be furnished. A siren brake button will be installed on the switch panel.

The control solenoid will be powered up after the emergency master switch is activated.

The mechanical siren will be mounted on the bumper deck plate. It will be mounted on the left side. A reinforcement plate will be furnished to support the siren.

The mechanical siren will be actuated by two (2) foot switches, one (1) located on the officer's side and one (1) on the driver's side.

MECHANICAL SIREN INTERLOCK

The mechanical siren will be interlocked to shutoff whenever parking brake is applied. The interlock will disconnect the power only.

A second siren brake switch will be installed on the passenger side.

FRONT ZONE UPPER WARNING LIGHTS

There will be one (1) 72.00" Whelen Freedom IV LED lightbar mounted on the cab roof.

The lightbar will include the following:

- One (1) red flashing LED module in the driver's side end position.
- One (1) red flashing LED module in the driver's side front corner position.
- One (1) red flashing LED module in the driver's side first front position.
- One (1) red flashing LED module in the driver's side second front position.
- One (1) white flashing LED module in the driver's side third front position.
- One (1) red flashing LED module in the driver's side fourth front position.
- One (1) red flashing LED module in the driver's side fifth front position.
- One (1) 795 LED traffic light controller sent to national standard high priority in the center positions.
- One (1) red flashing LED module in the passenger's side fifth front position.
- One (1) red flashing LED module in the passenger's side fourth front position.
- One (1) white flashing LED module in the passenger's side third front position.
- One (1) red flashing LED module in the passenger's side second front position.
- One (1) red flashing LED module in the passenger's side first front position.
- One (1) red flashing LED module in the passenger's side front corner position.
- One (1) red flashing LED module in the passenger's side end position.

There will be clear lenses included on the lightbar.

The following switches may be installed in the cab on the switch panel to control the lightbar:

- a switch to control the flashing LED modules.
- the traffic light controller will be activated by a cab switch with emergency master control,
- and there will be a passenger's side momentary cab switch with no emergency master control to activate the traffic light controller.

The two (2) white flashing LED modules and the traffic light controller will be disabled when the parking brake is applied.

The eight (8) red flashing LED modules in the front positions may be load managed when the parking brake is applied.

LIGHTS, FRONT ZONE LOWER

Two (2) Whelen model M6*C LED flashing warning lights will be installed on the cab face above the headlights, in a common bezel with the directional lights.

The driver's side front warning light to be red.

The passenger's side front warning light to be red.

Both lights will include a clear lens.

There will be a switch located in the cab on the switch panel to control the lights.

HEADLIGHT FLASHER
The high beam headlights will flash alternately between the left and right side.

There will be a switch installed in the cab on the switch panel to control the high beam flash. This switch will be live when the battery switch and the emergency master switches are on.

The flashing will automatically cancel when the hi-beam headlight switch is activated or when the parking brake is set.

SIDE ZONE LOWER LIGHTING
There will be four (4) Whelen®, Model M6**, 4.31" high x 6.75" long x 1.37" deep flashing LED warning lights with chrome trim installed per the following:

- Two (2) lights, one (1) each side on the bumper extension. The side front warning LEDs to be red.
- Two (2) lights, one (1) each side above rear wheels. The side rear LEDs to be red.
- The warning light lens color(s) to be clear.

There will be a switch in the cab on the switch panel to control the lights.

REAR ZONE LOWER LIGHTING
There will be two (2) Whelen®, Model M6*C LED flashing warning lights with chrome trim located at the rear of the apparatus.

- The driver's side rear light to be red
- The passenger's side rear light to be red

The lenses will be clear.

There will be a switch located in the cab on the switch panel to control the lights.

WARNING LIGHTS (REAR AND SIDE UPPER ZONES)
Four (4) Whelen, model M6*C LED flashing warning lights will be provided at the rear of the apparatus.

The side upper rear light on the left side to include red flashing LEDs.

The rear upper light on the left side to include red flashing LEDs.

The rear upper light on the right side to include red flashing LEDs.

The side upper rear light on the right side to include red flashing LEDs.

These lights will include a lens that is clear.

These lights will be provided with a flange.

There will be a switch located in the cab on the switch panel to control the lights.

TRAFFIC DIRECTING LIGHT

There will be one (1) Whelen®, Model TAL65, 36.00" long x 2.87" high x 2.25" deep, amber LED traffic directing light installed at the rear of the apparatus.

The Whelen, Model TACTL5, control head will be included with this installation.

The controller will be energized when the battery switch is on.

The auxiliary flash not activated.

This traffic directing light will be recessed with a stainless steel trim plate at the rear of the apparatus as high as practical.

The traffic directing light control head will be located in the driver side overhead switch panel in the right panel position.

INVERTER / BATTERY CHARGER

A Vanner Model Bravo 1050 model QBC10-12/120-60G inverter will be provided. The inverter will provide a de-rated 800 continuous watts of 120 VAC modified sine wave power to operate lights, tools and appliances. The inverter will be connected to the batteries through proper fusing and also to shoreline AC power.

An auto transfer switch will be included allowing AC loads connected to the inverter to be powered from the battery whenever shoreline AC power is not available. If shoreline AC power is available, the AC loads connected to the inverter will be powered through the shoreline connection.

The inverter will be mounted in the B1 and have adequate ventilation. A master on/off switch will be provided in the driver side cab switch panel.

LOOSE EQUIPMENT

The following equipment will be furnished with the completed unit:

- One (1) bag of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit.

NFPA REQUIRED LOOSE EQUIPMENT PROVIDED BY FIRE DEPARTMENT

The following loose equipment as outlined in NFPA 1901, 2016 edition, section 5.9.3 and 5.9.4 will be provided by the fire department.

- 800 ft (60 m) of 2.50" (65 mm) or larger fire hose.
- 400 ft (120 m) of 1.50" (38 mm), 1.75" (45 mm), or 2.00" (52 mm) fire hose.
- One (1) handline nozzle, 200 gpm (750 L/min) minimum.
- Two (2) handline nozzles, 95 gpm (360 L/min) minimum.

- One (1) smoothbore of combination nozzle with 2.50" shutoff that flows a minimum of 250 gpm.
- One (1) SCBA complying with NFPA 1981 for each assigned seating position, but not fewer than four (4), mounted in brackets fastened to the apparatus or stored in containers supplied by the SCBA manufacturer.
- One (1) spare SCBA cylinder for each SCBA carried, each mounted in a bracket fastened to the apparatus or stored in a specially designed storage space(s).
- One (1) first aid kit.
- Four (4) combination spanner wrenches.
- Two (2) hydrant wrenches.
- One (1) double female 2.50" (65 mm) adapter with National Hose threads.
- One (1) double male 2.50" (65 mm) adapter with National Hose threads.
- One (1) rubber mallet, for use on suction hose connections.
- Two (2) salvage covers each a minimum size of 12 ft x 14 ft (3.7 m x 4.3 m).
- One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 207, *Standard for High Visibility Public Safety Vests*, and have a five-point breakaway feature that includes two (2) at the shoulders, two (2) at the sides, and one (1) at the front.
- Five (5) fluorescent orange traffic cones not less than 28.00" (711 mm) in height, each equipped with a 6.00" (152 mm) retro-reflective white band no more than 4.00" (152 mm) from the top of the cone, and an additional 4.00" (102 mm) retro-reflective white band 2.00" (51 mm) below the 6.00" (152 mm) band.
- Five (5) illuminated warning devices such as highway flares, unless the five (5) fluorescent orange traffic cones have illuminating capabilities.
- One (1) automatic external defibrillator (AED).
- Four (4) ladder belts meeting the requirements of NFPA 1983, *Standard on Fire Service Life Safety Rope and System Components* (if equipped with an aerial device).
- If the supply hose carried does not use sexless couplings, an additional double female adapter and double male adapter, sized to fit the supply hose carried, will be carried mounted in brackets fastened to the apparatus.
- If none of the pump intakes are valved, a hose appliance that is equipped with one or more gated intakes with female swivel connection(s) compatible with the supply hose used on one side and a swivel connection with pump intake threads on the other side will be carried. Any intake connection larger than 3.00" (75 mm) will include a pressure relief device that meets the requirements of 16.6.6.
- If the apparatus does not have a 2.50" National Hose (NH) intake, an adapter from 2.50" NH female to a pump intake will be carried, mounted in a bracket fastened to the apparatus if not already mounted directly to the intake.
- If the supply hose carried has other than 2.50" National Hose (NH) threads, adapters will be carried to allow feeding the supply hose from a 2.50" NH thread male discharge and to allow the hose to connect to a 2.50" NH female intake, mounted in brackets fastened to the apparatus if not already mounted directly to the discharge or intake.

SOFT SUCTION HOSE
There will be no soft suction hose provided.

DRY CHEMICAL EXTINGUISHER PROVIDED BY FIRE DEPARTMENT
NFPA 1901, 2016 edition, section 5.9.4 requires one (1) approved dry chemical portable fire extinguisher with a minimum 80-B:C rating mounted in a bracket fastened to the apparatus.

The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.

WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT
NFPA 1901, 2016 edition, section 5.9.4 requires one (1) 2.5 gallon or larger water extinguisher mounted in a bracket fastened to the apparatus.

The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.

FLATHEAD AXE PROVIDED BY FIRE DEPARTMENT
NFPA 1901, 2016 edition, Section 5.9.4 requires one (1) flathead axe mounted in a bracket fastened to the apparatus.

The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.

PICKHEAD AXE PROVIDED BY FIRE DEPARTMENT
NFPA 1901, 2016 edition, Section 5.9.4 requires one (1) pickhead axe mounted in a bracket fastened to the apparatus.

The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.

PAINT
The exterior custom cab and body painting procedure will consist of a seven (7) step finishing process as follows:

1. Manual Surface Preparation - All exposed metal surfaces on the custom cab and body will be thoroughly cleaned and prepared for painting. Imperfections on the exterior surfaces will be removed and sanded to a smooth finish. Exterior seams will be sealed before painting. Exterior surfaces that will not be painted include; chrome plating, polished stainless steel, anodized aluminum and bright aluminum treadplate.
2. Chemical Cleaning and Pretreatment - All surfaces will be chemically cleaned to remove dirt, oil, grease, and metal oxides to ensure the subsequent coatings bond well. The aluminum surfaces will be properly cleaned and treated using a high pressure, high temperature 4 step Acid Etch process. The steel and stainless surfaces will be properly cleaned and treated using a high temperature 3 step process specifically designed for steel or stainless. The chemical treatment converts the metal surface to a passive condition to help prevent corrosion. A final pure water rinse will be applied to all metal surfaces.
3. Surfacer Primer - The Surfacer Primer will be applied to a chemically treated metal surface to provide a strong corrosion protective basecoat. A minimum thickness of 2 mils of Surfacer

Primer is applied to surfaces that require a Critical aesthetic finish. The Surfacer Primer is a two-component high solids urethane that has excellent sanding properties and an extra smooth finish when sanded.

4. Finish Sanding - The Surfacer Primer will be sanded with a fine grit abrasive to achieve an ultra-smooth finish. This sanding process is critical to produce the smooth mirror like finish in the topcoat.
5. Sealer Primer - The Sealer Primer is applied prior to the Basecoat in all areas that have not been previously primed with the Surfacer Primer. The Sealer Primer is a two-component high solids urethane that goes on smooth and provides excellent gloss hold out when topcoated.
6. Basecoat Paint - Two coats of a high performance, two component high solids polyurethane basecoat will be applied. The Basecoat will be applied to a thickness that will achieve the proper color match. The Basecoat will be used in conjunction with a urethane clear coat to provide protection from the environment.
7. Clear Coat - Two (2) coats of Clear Coat will be applied over the Basecoat color. The Clear Coat is a two-component high solids urethane that provides superior gloss and durability to the exterior surfaces. Lap style and roll-up doors will be Clear Coated to match the body. Paint warranty for the roll-up doors will be provided by the roll-up door manufacture.

Each batch of basecoat color is checked for a proper match before painting of the cab and the body. After the cab and body are painted, the color is verified again to make sure that it matches the color standard. Electronic color measuring equipment is used to compare the color sample to the color standard entered into the computer. Color specifications are used to determine the color match. A Delta E reading is used to determine a good color match within each family color.

All removable items such as brackets, compartment doors, door hinges, and trim will be removed and separately if required, to ensure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly will be finish painted before assembly.

Pierce Manufacturing paint finish quality levels for critical areas of the apparatus (cab front and sides, body sides and doors, and boom lettering panels) meet or exceed the Cadillac/General Motors GMW15777 global paint requirements. Orange peel levels meet or exceed the #6 A.C.T.standard in critical areas. These requirements are met in order for the exterior paint finish to be considered acceptable. The Pierce Manufacturing written paint standards will be available upon request.

The cab will be two-tone, with the upper section painted #20 white along with a shield design on the cab face and lower section of the cab and body painted #90 red.

PAINT - ENVIRONMENTAL IMPACT

Contractor will meet or exceed all current State regulations concerning paint operations. Pollution control will include measures to protect the atmosphere, water and soil. Controls will include the following conditions:

- Topcoats and primers will be chrome and lead free.
- Metal treatment chemicals will be chrome free. The wastewater generated in the metal treatment process will be treated on-site to remove any other heavy metals.
- Particulate emission collection from sanding operations will have a 99.99% efficiency factor.

- Particulate emissions from painting operations will be collected by a dry filter or water wash process. If the dry filter is used, it will have an efficiency rating of 98.00%. Water wash systems will be 99.97% efficient
- Water from water wash booths will be reused. Solids will be removed on a continual basis to keep the water clean.
- Paint wastes are disposed of in an environmentally safe manner.
- Empty metal paint containers will be to recover the metal.
- Solvents used in clean-up operations will be recycled on-site or sent off-site for distillation and returned for reuse.

Additionally, the finished apparatus will not be manufactured with or contain products that have ozone depleting substances. Contractor will, upon demand, present evidence that the manufacturing facility meets the above conditions and that it is in compliance with his State EPA rules and regulations.

PAINT CHASSIS FRAME ASSEMBLY

The chassis frame assembly will be finished with primer and gloss paint to match the lower job color before the installation of the cab and body, and before installation of the engine and transmission assembly, air brake lines, electrical wire harnesses, etc.

Components that are included with the chassis frame assembly that will be painted are:

- Frame rails
- Frame liners
- Cross members
- Axles
- Suspensions
- Steering gear
- Battery boxes
- Bumper extension weldment
- Frame extensions
- Body mounting angles
- Rear Body support substructure (front and rear)
- Pump house substructure
- Air tanks
- Steel fuel tank
- Castings
- Individual piece parts used in chassis and body assembly

FILM TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	PERFORMANCE
Color	–	Black
Film Thickness	–	0.5 - 1.5 Mils
Gloss - 60 Degree	ASTM D523	65 - 85
Pencil Hardness	ASTM D3363	2H Minimum
Direct Impact	ASTM D2794	100 in. - lbs. Minimum
Reverse Impact	ASTM D2794	60 in. - lbs. Minimum
Crosshatch Adhesion	ASTM D3359	4B - 5B
Humidity	ASTM D1735	1000 Hours Minimum
Water Immersion	ASTM D870	250 Hours Minimum
Gravelometer	GM9508P	6 Minimum
Throwpower	GM9535P	12 - 15 in.

Cold rolled steel lab panels, Zinc Phosphate pretreatment, 0.6 mils average film thickness, cured 20 minutes @ 350°F.

PROPERTY	SUBSTRATE PRETREATMENT	SALT SPRAY* 1000 HOURS
Corrosion Resistance	CRS / Zinc Phos / Non-Chrome	1 - 2 mm

*Salt Spray - ASTM B117, cold rolled steel lab panels cured 20 minutes @ 350°F. (Average Total Scribe Creep)

Components treated with epoxy E-coat protection prior to paint:

- Two (2) C-channel frame rails
- Two (2) frame liners

The E-coat process will meet the technical properties shown.

COMPARTMENT INTERIOR PAINT
The interior of all compartments will be painted with a gray spatter finish for ease of cleaning and to make it easier to touch up scratches and nicks.

REFLECTIVE STRIPES
Three (3) reflective stripes will be provided across the front of the vehicle and along the sides of the body. The reflective band will consist of a 1.00" white stripe at the top with a 1.00" gap then a 6.00" white stripe with a 1.00" gap and a 1.00" white stripe on the bottom.

The reflective band provided on the cab face will be at the headlight level.

REAR CHEVRON STRIPING
There will be alternating chevron striping located on the rear-facing vertical surface of the apparatus. The rear surface, excluding the rear roll up door, will be covered.

The colors will be red and fluorescent yellow green diamond grade.

Each stripe will be 6.00" in width.

This will meet the requirements of the current edition of NFPA 1901, which states that 50% of the rear surface will be covered with chevron striping.

CAB DOOR REFLECTIVE STRIPE
A 6.00" x 16.00" white reflective stripe will be provided across the interior of each cab door. The stripe will be located approximately 1.00" up from the bottom, on the door panel.

This stripe will meet the NFPA 1901 requirement.

LETTERING
The lettering will be totally encapsulated between two (2) layers of clear vinyl.

LETTERING
Forty-one (41) to sixty (60) genuine gold leaf lettering, 3.00" high, with outline and shade will be provided.

LETTERING
Twenty-one (21) to forty (40) reflective lettering, 11.00" high, with outline and shade will be provided.

LETTERING
Eighty-one (81) to one hundred (100) reflective lettering, 2.00" high, with outline and shade will be provided.

LETTERING
One (1) to twenty (20) reflective lettering, 14.00" high, with outline and shade will be provided.

LETTERING
Twenty-one (21) to forty (40) reflective lettering, 10.00" high, with outline and shade will be provided.

LETTERING
Forty-one (41) to sixty (60) reflective lettering, 11.00" high, with outline and shade will be provided.

LETTERING
One (1) to twenty (20) reflective lettering, 12.00" high, with outline and shade will be provided.

LETTERING
Forty-one (41) to sixty (60) reflective lettering, 10.00" high, with outline and shade will be provided.

CAB GRILLE DESIGN
A Texas flag design will be painted on the cab grille.

FIRE APPARATUS PARTS MANUAL
There will be one (1) custom parts manual(s) in USB flash drive format for the complete fire apparatus provided.

The manual(s) will contain the following:

- Job number
- Part numbers with full descriptions
- Table of contents
- Parts section sorted in functional groups reflecting a major system, component, or assembly
- Parts section sorted in alphabetical order
- Instructions on how to locate parts

Each manual will be specifically written for the chassis and body model being purchased. It will not be a generic manual for a multitude of different chassis and bodies.

SERVICE PARTS INTERNET SITE
The service parts information included in these manuals are also available on the Pierce website. The website offers additional functions and features not contained in this manual, such as digital photographs and line drawings of select items. The website also features electronic search tools to assist in locating parts quickly.

CHASSIS SERVICE MANUALS
There will be one (1) chassis service manuals on USB flash drives containing parts and service information on major components provided with the completed unit.

The manual will contain the following sections:

- Job number
- Table of contents
- Troubleshooting
- Front Axle/Suspension
- Brakes
- EngineTires
- Wheels

- Cab
- Electrical, DC
- Air Systems
- Plumbing
- Appendix

The manual will be specifically written for the chassis model being purchased. It will not be a generic manual for a multitude of different chassis and bodies.

CHASSIS OPERATION MANUAL
The chassis operation manual will be provided on one (1) USB flash drive.

ONE (1) YEAR MATERIAL AND WORKMANSHIP
A Pierce basic apparatus limited warranty certificate, WA0008, is included with this proposal.

ENGINE WARRANTY
A Detroit Diesel **five (5) year** limited engine warranty will be provided. A limited warranty certificate, WA0180, is included with this proposal.

STEERING GEAR WARRANTY
A Sheppard **three (3) year** limited steering gear warranty shall be provided. A copy of the warranty certificate shall be submitted with the bid package.

FIFTY (50) YEAR STRUCTURAL INTEGRITY
The Pierce custom chassis frame limited warranty certificate, WA0013, is included with this proposal.

FRONT AXLE THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY
The Pierce TAK-4 suspension limited warranty certificate, WA0050, is included with this proposal.

REAR AXLE WARRANTY
A Eaton **five (5)-year/100,000 mile** parts and labor warranty will be provided.

ABS BRAKE SYSTEM THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY
A Meritor Wabco™ABS brake system limited warranty certificate, WA0232, is included with this proposal.

TEN (10) YEAR STRUCTURAL INTEGRITY
The Pierce custom cab limited warranty certificate, WA0012, is included with this proposal.

TEN (10) YEAR PRO-RATED PAINT AND CORROSION
A Pierce cab limited pro-rated paint warranty certificate, WA0055, is included with this proposal.

COMPARTMENT LIGHT WARRANTY
The Pierce 12 volt DC LED strip lights limited warranty certificate, WA0203, is included with this proposal.

TRANSMISSION WARRANTY
The transmission will have a **five (5) year/unlimited mileage** warranty covering 100 percent parts and labor. The warranty will be provided by Allison Transmission.

Note: The transmission cooler is not covered under any extended warranty you may be getting on your Allison Transmission. Please review your Allison Transmission warranty for coverage limitations.

TRANSMISSION COOLER WARRANTY
The transmission cooler will carry a five (5) year parts and labor warranty (exclusive to the transmission cooler). In addition, a collateral damage warranty will also be in effect for the first three (3) years of the warranty coverage and will not exceed $10,000 per occurrence. A copy of the warranty certificate will be submitted with the bid package.

WATER TANK WARRANTY
A UPF poly water tank limited warranty certificate, WA0195, is included with this proposal.

TEN (10) YEAR STRUCTURAL INTEGRITY
The Pierce apparatus body limited warranty certificate, WA0009, is included with this proposal.

ROLL UP DOOR MATERIAL AND WORKMANSHIP WARRANTY
A Gortite roll-up door limited warranty will be provided. The mechanical components of the roll-up door will be warranted against defects in material and workmanship for the lifetime of the vehicle. A **six (6) year** limited warranty will be provided on painted and satin roll up doors.

The limited warranty certificate, WA0190, is included with this proposal.

SIX (6) YEAR PARTS, ONE (1) YEAR LABOR
The pump and its components will be provided with a six (6) year parts and one (1) year labor limited warranty. The manufacturer's warranty will provide that the pump and its components will be free from failures caused by defects in material and workmanship that would arise under normal use and service.

A copy of the warranty certificate will be submitted with the bid package.

TEN (10) YEAR PUMP PLUMBING WARRANTY
The Pierce apparatus plumbing limited warranty certificate, WA0035, is included with this proposal.

FOAM SYSTEM WARRANTY
The Husky 12 foam system limited warranty certificate, WA0231, is included with this proposal.

TEN (10) YEAR PRO-RATED PAINT AND CORROSION
A Pierce body limited pro-rated paint warranty certificate, WA0057, is included with this proposal.

THREE (3) YEAR MATERIAL AND WORKMANSHIP
The Pierce Goldstar gold leaf lamination limited warranty limited warranty certificate, WA0018, is included with this proposal.

VEHICLE STABILITY CERTIFICATION
The fire apparatus manufacturer will provide a certification stating the apparatus complies with NFPA 1901, current edition, section 4.13, Vehicle Stability. The certification will be provided at the time of bid.

ENGINE INSTALLATION CERTIFICATION
The fire apparatus manufacturer will provide a certification, along with a letter from the engine manufacturer stating they approve of the engine installation in the bidder's chassis. The certification will be provided at the time of bid.

POWER STEERING CERTIFICATION
The fire apparatus manufacturer will provide a certification stating the power steering system as installed meets the requirements of the component supplier. The certification will be provided at the time of bid.

CAB INTEGRITY CERTIFICATION
The fire apparatus manufacturer will provide a cab crash test certification with this proposal. The certification will state that a specimen representing the substantial structural configuration of the cab has been tested and certified by an independent third party test facility. Testing events will be documented with photographs, real-time and high-speed video, vehicle accelerometers, cart accelerometers, and a laser speed trap. The fire apparatus manufacturer will provide a state licensed professional engineer to witness and certify all testing events. Testing will meet or exceed the requirements below:

- European Occupant Protection Standard ECE Regulation No.29.

- SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks.

- SAE J2420 COE Frontal Strength Evaluation - Dynamic Loading Heavy Trucks.

- Roof Crush

The cab will be subjected to a roof crush force of 22,500 lb. This value meets the ECE 29 criteria, and is equivalent to the front axle rating up to a maximum of ten (10) metric tons.

- Side Impact

The same cab will be subjected to dynamic preload where a 13,275-lb moving barrier is slammed into the side of the cab at 5.50 mph, striking with an impact of 13,000 ft-lb of force. This test is part of the SAE J2422 test procedure and more closely represents the forces a cab will see in a rollover incident.

- Frontal Impact

The same cab will withstand a frontal impact of 32,600 ft-lb of force using a moving barrier in accordance with SAE J2420.

- Additional Frontal Impact

The same cab will withstand a frontal impact of 65,200 ft-lb of force using a moving barrier. (Twice the force required by SAE J2420)

The same cab will withstand all tests without any measurable intrusion into the survival space of the occupant area.

CAB DOOR DURABILITY CERTIFICATION

Robust cab doors help protect occupants. Cab doors will survive a 200,000 cycle door slam test where the slamming force exceeds 20 G's of deceleration. The bidder will certify that the sample doors similar to those provided on the apparatus have been tested and have met these criteria without structural damage, latch malfunction, or significant component wear.

WINDSHIELD WIPER DURABILITY CERTIFICATION

Visibility during inclement weather is essential to safe apparatus performance. Windshield wipers will survive a 3 million cycle durability test in accordance with section 6.2 of SAE J198 *Windshield Wiper Systems - Trucks, Buses and Multipurpose Vehicles.* The bidder will certify that the wiper system design has been tested and that the wiper system has met these criteria.

ELECTRIC WINDOW DURABILITY CERTIFICATION

Cab window roll-up systems can cause maintenance problems if not designed for long service life. The window regulator design will complete 30,000 complete up-down cycles and still function normally when finished. The bidder will certify that sample doors and windows similar to those provided on the apparatus have been tested and have met these criteria without malfunction or significant component wear.

SEAT BELT ANCHOR STRENGTH

Seat belt attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat belt anchor design will withstand 3000 lb of pull on both the lap and shoulder belt in accordance with FMVSS 571.210 Seat Belt Assembly Anchorages. The bidder will certify that each anchor design was pull tested to the required force and met the appropriate criteria.

SEAT MOUNTING STRENGTH

Seat attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat mounting design will be tested to withstand 20 G's of force in accordance with FMVSS 571.207 Seating Systems. The bidder will certify, at time of delivery, that each seat mount and cab structure design was pull tested to the required force and met the appropriate criteria.

CAB DEFROSTER CERTIFICATION

Visibility during inclement weather is essential to safe apparatus performance. The defroster system will clear the required windshield zones in accordance with SAE J381 Windshield Defrosting Systems Test Procedure And Performance Requirements - Trucks, Buses, And Multipurpose Vehicles. The bidder will certify that the defrost system design has been tested in a cold chamber and passes the SAE J381 criteria.

CAB HEATER CERTIFICATION

Good cab heat performance and regulation provides a more effective working environment for personnel, whether in-transit, or at a scene. The cab heaters will warm the cab 77 degrees Fahrenheit from a cold-soak, within 30 minutes when tested using the coolant supply methods found in SAE J381.

The bidder will certify, at time of delivery, that a substantially similar cab has been tested and has met these criteria.

CAB AIR CONDITIONING PERFORMANCE CERTIFICATION

Good cab air conditioning temperature and air flow performance keeps occupants comfortable, reduces humidity, and provides a climate for recuperation while at the scene. The cab air conditioning system will cool the cab from a heat-soaked condition at 100 degrees Fahrenheit to an average of 78 degrees Fahrenheit in 30 minutes. The bidder will certify that a substantially similar cab has been tested and has met these criteria.

AMP DRAW REPORT

The bidder will provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system.

The manufacturer of the apparatus will provide the following:

- Documentation of the electrical system performance tests.
- A written load analysis, which will include the following:
    - The nameplate rating of the alternator.
    - The alternator rating under the conditions specified per:
        - Applicable NFPA 1901 or 1906 (Current Edition).
    - The minimum continuous load of each component that is specified per:
        - Applicable NFPA 1901 or 1906 (Current Edition).
    - Additional loads that, when added to the minimum continuous load, determine the total connected load.
    - Each individual intermittent load.

All of the above listed items will be provided by the bidder per the applicable NFPA 1901 or 1906 (Current Edition).

Proposal Option List

12/17/2019

Customer:	West University Place	**Bid Number:**	863
Representative	Campbell, James	**Job Number:**	
Organization:	Siddons-Martin Emergency Group	**Number of Units:**	1
Requirements Manager:		**Bid Date:**	01/01/2020
Description:	West University Place Enforcer	**Stock Number:**	
Body:	Pumper, PUC, Aluminum	**Price Level:**	38 (Current: 38)
Chassis:	Enforcer Chassis, PUC	**Lane:**	Lane 1

Line	Option	Type	Option Description	Qty
1	0766589		Boiler Plates, PUC Pumper	1
			Fire Department/Customer - West University Place Operating/In conjunction W-Service Center - In Conjunction Miles - 250 Miles Number of Fire Dept/Municipalities - 2 Bidder/Sales Organization - Siddons-Martin Emergency Group Delivery - Delivery representative Dealership/Sales Organization, Service - Siddons-Martin Emergency Group	
2	0661794		Single Source Compliance	1
3	0584456		Manufacture Location, Appleton, Wisconsin	1
4	0584452		RFP Location: Appleton, Wisconsin	1
5	0588609		Vehicle Destination, US	1
6	0610784		Comply NFPA 1901 Changes Effective Jan 1, 2016, With Exceptions	1
7	0533347		Pumper/Pumper with Aerial Device Fire Apparatus	1
8	0588611		Vehicle Certification, Pumper	1
9	0661778		Agency, Apparatus Certification, Pumper/Tanker, U.L.	1
10	0620362		Consortium, HGAC	1
11	0537375		Unit of Measure, US Gallons	1
12	0529326		Bid Bond, 10%, Pierce Built Chassis	1
13	0050066		Performance Bond, 100% Req'd (Statement by Rep)	1
14	0000007		Approval Drawing	1
15	0002928		Electrical Diagrams	1
16	0625939		Enforcer Chassis, PUC	1
17	0021007		Maximum Overall Height	1
			Size - 116"	
18	0021010		Maximum Overall Length	1
			Size - 34'6"	
19	0000110		Wheelbase	1
			Wheelbase - 190.00	
20	0000070		GVW Rating	1
			GVW rating - 53,800	
21	0649713		Frame Rails, 10.25" x 3.50" x .375", Saber FR/Enf	1
22	0648354		Frame Liner, Internal "C", 9.38" x 3.13" x .25", Saber FR/Enf, 26" Qval	1
23	0630705		Axle, Front, Oshkosh TAK-4, Non Drive, 19,500 lb, Enforcer	1
24	0030264		Suspension, Front TAK-4, 19,500 lb, Qtm/AXT/Imp/Vel/Dash CF/Enf	1
25	0087572		Shock Absorbers, KONI, TAK-4, Qtm/AXT/Imp/Vel/DCF/Enf	1
26	0000322		Oil Seals, Front Axle	1
27	0677584		Tires, Front, Goodyear, G296 MSA, 385/65R22.50, 18 ply, Fire Service Load Rating	1
28	0019611		Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot	1
29	0640711		Axle, Rear, Dana S26-190, 27,000 lb Saber/Enforcer	1
30	0544253		Top Speed of Vehicle, 68 MPH	1
31	0565380		Suspen, Rear, Single Slipper Spring, 27,000 lb, Saber/Enforcer	1
32	0000485		Oil Seals, Rear Axle	1
33	0585004		Tires, Rear, Goodyear, G289 WHA, 315/80R22.50, 20 ply, Single	1
34	0019668		Wheels, Rear, Alcoa, 22.50" x 9.00", Aluminum, Hub Pilot, Single	1
35	0568081		Tire Balancing, Counteract Beads	1
36	0620570		Tire Pressure Monitoring, RealWheels, AirSecure, Valve Cap, Single Axle	1
			Qty, Tire Pressure Ind - 6	
37	0003245		Axle Hub Covers w/center hole, S/S, Front Axle	1
38	0001960		Axle Hub Covers, Rear, S/S, High Hat (Pair)	1

Line	Option	Type	Option Description	Qty
39	0057936		Covers, Lug Nut, Chrome	1
40	0002045		Mud Flaps, w/logo front & rear	1
41	0544802		Chocks, Wheel, SAC-44-E, Folding	1
			Qty, Pair - 01	
42	0544806		Mounting Brackets, Chocks, SAC-44-E, Folding, Horizontal	1
			Qty, Pair - 01	
			Location, Wheel Chocks - Left Side Rear Compt	
43	0010670		ABS Wabco Brake System, Single rear axle	1
44	0030185		Brakes, Knorr/Bendix 17", Disc, Front, TAK-4	1
45	0627930		Brakes, Bendix, Cam, Rear, 16.50 x 8.63"	1
46	0058463		Air Compressor, Brake, Bendix 15.8 CFM	1
47	0644232		Brake Reservoirs, 4,272 Cubic Inch Minimum Capacity, Saber FR/Enforcer	1
48	0644228		Air Dryer, Wabco System Saver 1200 IWT, Heated, Saber FR/Enforcer	1
49	0000790		Brake Lines, Nylon	1
50	0000854		Air Inlet, w/Disconnect Coupling	1
			Location, Air Coupling(s) - a) DS Step Well, Forward	
			Qty, Air Coupling (s) - 1	
51	0014130		Air Tank, Additional for Extra Air Horn Capacity	1
52	0010767		Moisture Ejector, Automatic, w/o Heat	3
			Location - standard	
			Qty, Auto. Moisture Eject - 3	
53	0610860		Engine, DDC DD13, 505 hp, 1750 lb-ft, W/OBD, EPA 2016, REPTO, Enforcer	1
54	0001244		High Idle w/Electronic Engine, Custom	1
55	0590300		Engine Brake, Jacobs Compression Brake, DD13	1
			Switch, Engine Brake - f) DD13	
56	0644227		Clutch, Fan, Air Actuated, Saber FR/Enforcer	1
57	0640477		Air Intake, Metal Screen, Saber FR/Enforcer	1
58	0565965		Exhaust System, 5", 2010 DD13, ISX engine, Horizontal, Right Side	1
59	0788765		Radiator, Saber FR/Enforcer	1
60	0001090		Cooling Hoses, Rubber	1
61	0001125		Fuel Tank, 65 Gallon, Left Side Fill	1
62	0001129		Lines, Fuel	1
63	0662965		DEF Tank, 4.5 Gallon, DS Fill, Rear of Axle, Common Air Bottle Door	1
64	0552777		Fuel Pump for Repriming	1
65	0552567		Shutoff Valve, Fuel Line @ Fuel Tank	1
66	0553019		Cooler, Engine Fuel, Imp/Vel, AXT/Qtm/Sab/DCF/SFR/Enf	1
67	0642582		Trans, Allison 5th Gen, 4000 EVS P, w/Prognostics, Imp/Vel/DCF/SFR/Enf	1
68	0625331		Transmission, Shifter, 6-Spd, Push Button, 4000 EVS	1
69	0517604		Transmission Programming, Park to Neutral, PUC	1
70	0684459		Transmission Oil Cooler, Modine, External	1
71	0535530		Mode, Downshift, Aggressive downshift to 2nd, w/engine brake, 6 speed	1
72	0001375		Driveline, Spicer 1810	1
73	0669988		Steering, Sheppard M110 w/Tilt, TAK-4, Eaton Pump, w/Cooler	1
74	0605356		Steering Wheel, 4 Spoke without Controls, Saber FR/Enforcer	1
75	0690274		Logo/Emblem, on Dash	1
			Text, Row (1) One - West	
			Text, Row (2) Two - University	
			Text, Row (3) Three - Place	
76	0606491		Bumper, 19" Extended, Painted, Reinforced, "Chicago" Style, SFR/Enf	1
77	0640197		Tray, Hose, Center, 19" Bumper, Outside Air Horns	1
			Grating, Bumper extension - Grating, Rubber	
			Capacity, Bumper Tray - 21) 150' of 1.75"	
78	0630809		Cover, Aluminum Treadplate, One (1) D-Ring Latch, Hose Tray, Notched	1
			Location - center	
			Stay arm, Tray Cover - b) Pneumatic Stay Arm	
79	0614646		No Lift & Tow Package, Imp/Vel, AXT, SFR/Enf	1
80	0748866	SP	Tow Hook, Tow Eye, Chrome	1
81	0625646		Cab, Enforcer, 7010, PUC	1
82	0647918		Engine Tunnel, DD13, Enforcer	1
83	0610508		Rear Wall, Interior, Adjustable Seating, Not Available	1
84	0632103		Rear Wall, Exterior, Cab, Saber FR/Enforcer	1
			Material, Exterior Rear Wall - Aluminum Treadplate	

Line	Option	Type	Option Description	Qty
85	0639727		Cab Lift, Elec/Hyd, Manual Override, Saber FR/Enforcer	1
86	0695930		Grille, Bright Finished, Front of Cab, Dash CF/Enforcer	1
87	0002224		Scuffplates, S/S At Cab Door Jambs, 4-Door Cab	1
			Material Trim/Scuffplate - c) S/S, Polished	
88	0619009		Trim, S/S Band, Across Cab Face, Above Headlights, Arrow XT/DCF/Saber/Enf	1
			Material Trim/Scuffplate - e) S/S, Patterned	
89	0087357		Molding, Chrome on Side of Cab	1
90	0521669		Mirrors, Retrac, West Coast Style, Htd/Rmt, w/Htd/Rmt Convex	1
91	0648170		Door, Half-Height, Saber FR/Enforcer 4-Door Cab, Raised Roof	1
			Key Model, Cab Doors - 751	
92	0655543		Door Panel, Brushed Stainless Steel, Saber/Enforcer 4-Door Cab	1
93	0630636		Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber FR/Enforcer	1
94	0638310		Steps, 4-Door Cab, Saber FR/Enforcer	1
			Step Well Material - Aluminum Treadplate	
95	0770194		Handrail, Exterior, Knurled, Alum, 4-Door Cab	1
96	0634786		Lights, Cab and Crew Cab Access Steps, P25, LED w/Bezel, 1Lt Per Step 6lts	1
97	0583698		Fenders, S/S on cab, Extra Wide, Saber/Enf	1
98	0042105		No Windows, Side of Crew Cab	1
99	0012090		Not Required, Windows, Front/Side of raised roof	1
100	0779033		Not Required, Windows Rear of Crew Cab, Saber FR/Enforcer	1
101	0598202		Insulation, Additional, Cab Doors	1
102	0607217		Mounting Provisions, 3/16" Alum, Full Engine Tunnel, Saber FR/Enforcer	1
			Mounting Provision Spacing - .50"	
			Material Finish, Cab Interior - Painted	
103	0749404		Cab Interior, Vinyl Headliner and Walls, Saber FR/Enforcer, CARE	1
			Color, Cab Interior Vinyl/Fabric - Endure Vinyl - Silver/Gray	
			Engine Tunnel Cover - Painted	
104	0753903		Cab Interior, Paint Color, Saber FR/Enforcer	1
			Color, Cab Interior Paint - i) fire smoke gray	
105	0750353	SP	Floor, Lonseal, Lonplate II, Color, Cab & Crew Cab	1
			Color, Interior Flooring - Lonplate II (P424)	
106	0644195		Heater/Defroster, Saber FR/Enforcer	1
107	0644194		Air Conditioning, Saber FR/Enforcer	1
108	0639675		Sun Visor, Smoked Lexan, AXT, Dash CF, Imp/Vel, Saber FR/Enforcer	1
			Sun Visor Retention - No Retention	
109	0634328		Grab Handles, Driver and Officer Door Posts, Saber FR/Enforcer	1
110	0583938		Lights, Engine Compt, Custom, Auto Sw, Wln 3SC0CDCR, 3" LED, Trim	1
			Qty, - 01	
111	0631830		Fluid Check Access, Saber FR/Enforcer, Arrow XT	1
112	0583042		Side Roll and Frontal Impact Protection	1
113	0622619		Seating Capacity, 4 Seats	1
114	0636955		Seat, Driver, Pierce PSV, Air Ride, High Back, Safety, Saber FR/Enforcer	1
115	0636942		Seat, Officer, Pierce PSV, Fixed, SCBA, Safety, Saber FR/Enforcer	1
116	0620420		Radio Compartment, Below Non-Air Ride Seat, Saber FR/Enforcer	1
117	0771206		Cabinet, Rear Facing, LS, 23 W x 34 H x 26.75 D, Roll, SFR/Enf	1
			Light, Short Cabinet - Amdor, Interior, White, Right Side and Amdor, Interior, White, Left Side	
			Light, Short Cabinet - Amdor, Interior, White, Right Side and Amdor, Interior, White, Left Side	
			Material Finish, Shelf - Painted - Cab Interior	
			Shelf/Tray, Cabinet - (1) Shelf, Adjustable, 0.75" Up-Turned Lip	
			Door, Cab Interior Cabinet - Rollup, Amdor, Anodized, Non-Locking	
			Louvers, Cabinet - 0-No Louvers	
118	0102783		Not Required, Seat, Rr Facing C/C, Center	1
119	0767387		Cabinet, Rear Facing, RS, 22 W x 34 H x 26.75 D, Roll, SFR/Enf	1
			Light, Short Cabinet - Amdor, Interior, White, Right Side and Amdor, Interior, White, Left Side	
			Light, Short Cabinet - Amdor, Interior, White, Right Side and Amdor, Interior, White, Left Side	
			Material Finish, Shelf - Painted - Cab Interior	
			Shelf/Tray, Cabinet - (1) Shelf, Adjustable, 0.75" Up-Turned Lip	
			Door, Cab Interior Cabinet - Rollup, Amdor, Anodized, Non-Locking	
			Louvers, Cabinet - 0-No Louvers	

Line	Option	Type	Option Description	Qty
120	0607563		Seat, Forward Facing C/C, DS Outboard, PSV,Hi-Back,Foldup,17" Btm,Safety,SFR/Enf	1
121	0635957		Seat, Forward Facing C/C, Center, (2) Pierce PSV, SCBA, Safety, Saber FR/Enf	1
122	0607558		Seat, Forward Facing C/C, PS Outboard, PSV,Hi-Back,Foldup,17" Btm,Safety,SFR/Enf	1
123	0766467		Upholstery, Seats In Cab, All Vinyl, Seats Inc, CARE	4
			Color, Cab Interior Vinyl/Fabric - Endure Vinyl - Black	
			Qty, - 04	
124	0543991		Bracket, Air Bottle, Hands-Free II, Cab Seats	3
			Qty, - 03	
125	0603866		Seat Belt, Dual Retractor, ReadyReach, Saber FR/Enforcer	1
			Seat Belt Color - Red	
126	0602464		Helmet Storage, Provided by Fire Department, NFPA 2016	1
127	0647647		Lights, Dome, FRP Dual LED 4 Lts	1
			Color, Dome Lt - Red & White	
			Color, Dome Lt Bzl - Black	
			Control, Dome Lt White - Door Switches and Lens Switch	
			Control, Dome Lt Color - Lens Switch	
128	0602637		Portable Hand Light, Provided by Fire Dept, Pumper NFPA 2016 Classification	1
129	0644187		Cab Instruments, Black Gauges, Black Bezels, Saber FR/Enforcer	1
			Emergency Switching - Individual Switches	
130	0002544		Air Restriction Indicator - Pierce Chassis	1
131	0543751		Light, Do Not Move Apparatus	1
			Alarm, Do Not Move Truck - Pulsing Alarm	
132	0637359		Not Required, Door Open Indicator w/Do Not Move Truck Light, Enf/Saber FR	1
133	0632738		Switching, Cab Instrument Lower Console & Overhead, Rocker, Enforcer	1
134	0644179		Wiper Control, 2-Speed with Intermittent, Saber FR/Enforcer	1
135	0602586		Wiring, Spare, 2.0 A 12V DC, USB Termination Blue Sea 1016 2nd	1
			Qty, - 01	
			12vdc power from - Battery direct	
			Location - officer side console	
136	0548013		Wiring, Spare, 20 A 12V DC 2nd	4
			Qty, - 04	
			12vdc power from - Battery direct	
			Wire termination - Butt Splice	
			Location - LS1,LS2,LS3,B1	
137	0548009		Wiring, Spare, 20 A 12V DC 1st	4
			Qty, - 04	
			12vdc power from - Battery direct	
			Wire termination - Butt Splice	
			Location, Spare Wiring - EMS Compt	
138	0657222		Wiring, Spare, 20 A 12V DC, 12 Circuit Fuse Block, Blue Sea 5026 1st	1
			Qty, - 01	
			12vdc power from - Battery direct	
			Location - Behind driver seat	
139	0763646		Vehicle Information Center, LCD On Gauge Cluster Only, Sab/Enf	1
			System Of Measurement - US Customary	
140	0610240		Vehicle Data Recorder w/Seat Belt Monitor	1
141	0791556		Intercom, Setcom 950W4, 4-Pos, 2-Radio (D,O.Wireless), 2C,Wireless.	1
			Location, Intercom, C Cab - 2) 2 forward facing seats	
142	0009063		Not Required, Radio Interface	1
143	0794902		Headset, Setcom, CSB-900W4, Wireless	4
			Qty, - 04	
			Location - Driver, officer, 2- crew cab	
144	0696439		Antenna Mount, Custom Chassis, Cable Routed to Instrument Panel Area	1
			Qty, - 01	
			Location, Antenna Mount - Right Side	
145	0740768	SP	Camera, Safety Vision, 7" Cab, Pump Display, R, RS, LS, F, Cab Cameras, HVR,	1
			Location - Rear, front, RS, LS	
			Camera System Audio - Speaker Behind Driver	
146	0624241		Electrical Power/Signal Protection & Control, Enforcer	1
147	0624256		Electrical System, Enforcer Hard Wired	1
148	0079211		Batteries, (6) Exide Grp 31, 950 CCA each, Threaded Stud	1
149	0008621		Battery System, Single Start, All Custom Chassis	1

Line	Option	Type	Option Description	Qty
150	0002698		Battery Compartment, Saber/Enforcer	1
151	0531307		Charger, Sngl Sys, Dual Bank, Dual Pro Charger, Two 15-Amp Banks	1
152	0520227		Location, Charger, Pump Plumbing Area, PUC	1
153	0536099		Location, Bat Chrg Ind, Driver's Step Area	1
154	0782026		Shoreline, 20A 120V, Blue Sea Sure Eject 7851	1
			Qty, - 01	
			Connection, Shoreline - Battery	
			Color, Cover, Bl Sea Inlet - Red	
155	0026800		Shoreline Location	1
			Location, Shoreline(s) - DS Cab Side	
156	0783390		Transfer Switch, Shoreline to Shoreline 30 Amp and Under	1
157	0647729		Alternator, 320 amp, Delco Remy 40SI	1
158	0644176		Load Manager, Integrated In Electrical System, Saber FR/Enforcer	1
159	0783153		Headlights, Rect LED, JW Spkr Evo 2, AXT/DCF/Enf/Imp/Sab/Vel	1
			Color, Headlight Bez - Chrome Bezel	
160	0775055		Light, Directional, Wln C6T* LED Arrow, Common Bzl, Above Headlts, Sab/Enf	1
			Color, Lens, LED's - Clear	
161	0620054		Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts	1
162	0647802		Lights, Clearance/Marker/ID, Front, P25 LED 5 Lts, Saber FR/Enforcer	1
163	0647899		Lights, Directional/Marker, Cab Front Side, Weldon 9186-8580-29 LED, Sab/Enf	1
164	0088869		Lights, Clearance/Marker/ID, Rear, Truck-Lite 26250R LED 7Lts	1
165	0517025		Lights, Tail, Wrap-around, Stop/Tail, Turn & Backup LED, Tri-Cluster	1
166	0085910		Lights, Backup Included in Signal Cluster	1
167	0664481		Bracket, License Plate & Light, P25 LED	1
168	0589905		Alarm, Back-up Warning, PRECO 1040	1
169	0769420		Lights, Perimeter Cab, Amdor AY-LB-12HW020 LED 4Dr	1
170	0769572		Lights, Perimeter Pump House, Amdor AY-LB-12HW020 LED 2lts	1
171	0770056		Lights, Perimeter Body, Amdor AY-LB-12HW020 LED 2lts, Rear Step	1
			Control, Perimeter Lts - Parking Brake Applied and Directional Light Activation	
			Control, Perimeter Lts - Parking Brake Applied and Directional Light Activation	
172	0556337		Lights, Step, P25 LED at Rear Tailboard, 2lts Perm Lts	1
173	0776361		Light, Wln, 12V P*H2* Pioneer LED, 3rd	2
			Location, Lights - one each side rear high	
			Qty, - 02	
			Color, Wln Lt Housing - White Paint	
			Control, Scene Lts - Cab Sw Panel DS, Cab Sw Panel PS and Body Switch, DS Rear Bulkhead	
			Scene Light Optics - Flood/Spot	
			Mount, Wln - Semi-recessed Chrome 15 deg P**2	
174	0776383		Light, Wln, 12V P*H2* Pioneer LED, 1st	2
			Location, Lights - one rearward and one forward on hatch compartment LS	
			Qty, - 02	
			Color, Wln Lt Housing - White Paint	
			Control, Scene Lts - Cab Sw Panel DS, Pump Panel Sw DS and Cab Sw Panel PS	
			Scene Light Optics - Flood/Spot	
			Mount, Wln - Semi-recessed Painted 15 deg P**2	
175	0776373		Light, Wln, 12V P*H2* Pioneer LED, 2nd	2
			Location, Lights - one rearward and one forward on hatch compartment RS	
			Qty, - 02	
			Color, Wln Lt Housing - White Paint	
			Control, Scene Lts - Cab Sw Panel DS, Pump Panel Sw DS and Cab Sw Panel PS	
			Scene Light Optics - Flood/Spot	
			Mount, Wln - Semi-recessed Painted 15 deg P**2	
176	0776357		Light, Visor, Wln, 12V P*H2* Pioneer, Cnt Feature, 1st	1
			Qty, - 01	
			Location, driver's/passenger's/center - Centered	
			Color, Wln Lt Housing - White Paint	
			Control, Scene Lts - Cab Sw Panel DS and Cab Sw Panel PS	

Line	Option	Type	Option Description	Qty
176			Scene Light Optics - Flood/Spot	
177	0709739		Light, Visor, FRC, 12V FCA851-V20-*, LED 1st	2
			Qty, - 02	
			Location, driver's/passenger's/center - 1DS & 1PS 15 Deg Out	
			Switch, Lt Control 1 DC,1 - DS & PS Switch Panel	
			Switch, Lt Control 2 DC,2 - e) No Control	
			Switch, Lt Control 3 DC,3 - d) No Control	
			Switch, Lt Control 4 DC,4 - d) No Control	
			Color, Lt Housing - White	
178	0532358		Not Required, Deck Lights, Other Hose Bed & Rear Lighting	1
179	0645877		Lights, Hose Bed, Sides, Dual LED Light Strips	1
			Control, Hose Bed Lts - Cup Switch At Rear	
180	0635487		Lights, Rear Scene, Wln, 700 LED, Below Tailboard	1
			Control, Rear Scene Lts - Cab Switch Panel DS and Body Switch, DS Rear Bulkhead	
			Control, Rear Scene Lts - Cab Switch Panel DS and Body Switch, DS Rear Bulkhead	
181	0709438		Light, Walking Surf, FRP Flood, LED	1
182	0518282		Pumper, PUC, Aluminum	1
183	0554271		Body Skirt Height, 20"	1
184	0682617		Tank, Water, 750 Gallon, Poly, 67 LHB, PUC	1
185	0003405		Overflow, 4.00" Water Tank, Poly	1
186	0028104		Foam Cell Required	1
187	0633066		Sleeve, Through Tank	1
			Qty, Sleeve - 1	
			Water Tank Sleeve - Plumbing/Hydraulic Diameter - 3" Plumbing	
188	0553725		Restraint, Water Tank, Heavy Duty, Special Type Tank, 4x4, or Export	1
189	0003429		Not Required, Direct Tank Fill	1
190	0003424		Not Required, Dump Valve	1
191	0048710		Not Required, Jet Assist	1
192	0030007		Not Required, Dump Valve Chute	1
193	0514778		Not Required, Switch, Tank Dump Master	1
194	0597043		Body Height, PUC	1
			Body Height - 89.00"	
195	0683290		Hose Bed, Aluminum, Pumper, PUC, 67 LHB	1
196	0003481		Hose Bed Capacity, Special	1
			Capacity, Hosebed - 300' of 2.5" hose, 1000' of 5.0" hose, 250' of 2.5" hose,	
197	0003488		Divider, Hose Bed, Unpainted	2
			Qty, Hosebed Dividers - 2	
198	0690054		Cover, Hose Bed, Roller Shutter, Fasteners, Pumper	1
			Color, Vinyl Cover - a) red	
			Type of fastener - 2" cam buckle - bottom of hosebed	
			Type of fastener, Rear - 1" cam buckle	
199	0680058		Chevron, Rear Flap of Hose Bed Cover, Reflective Vinyl, 1 Color, Pumper	1
			Color, Chev, Reflective A - ruby red	
200	0525658		Running Boards, PUC	1
201	0676723		Tailboard, 16" Deep, Full Width, Angled Corners, PUC	1
202	0690029		Wall, Rear, Body Material, PUC, PUC Tanker, PRM	1
203	0003531		Tow Bar, Under Tailboard	1
204	0656764		Construction, Compt, Alum, Pumper, PUC	1
205	0503804		LS 189" Rollup, (1) 62" Fwd, (1) 52" Rr, Full Height & Depth Front & Rear, PUC	1
206	0503803		RS 189" Rollup, (1) 62" Fwd, (1) 52" Rr, Full Height & Depth Front & Rear, PUC	1
207	0692733		Doors, Rollup, Gortite, Side Compartments	6
			Qty, Door Accessory - 06	
			Color, Roll-up Door, Gortite - Painted to Match Lower Body	
			Latch, Roll-up Door, Gortite - Non-Locking Liftbar	
208	0599445		Compt, Rear, Rollup, 33.50" FF, w/Tailboard, PUC	1
209	0692743		Door, Gortite, Rollup, Rear Compartment, PUC	1
			Color, Roll-up Door, Gortite - Satin finish	
			Latch, Roll-up Door, Gortite - Non-Locking Liftbar	
210	0592591		Guard, Drip Pan, Roll-up Door, Mounted Special Height, PUC Std Dpth or 2nd Gen	2
			Qty, Door Accessory - 02	

Line	Option	Type	Option Description	Qty
210			Location, Door Accessory - Crosslay Module	
211	0616670		Lights, Compt, Pierce LED, Dual Light Strips, Each Side of Door, Pumper/Tanker	9
			Qty, - 09	
			Location, Compartment Lights - All Body Compts	
212	0529059		189" Hatch, (2) Lift-up, 21" Wide, Left Side Only, PUC	1
			Size, Hatch Compt, Height - 19.00"	
213	0687145		Shelf Tracks, Recessed, PUC/3rd Generation	1
214	0600350		Shelves, Adj, 500 lb Capacity, Full Width/Depth, Predefined Locations	7
			Qty, Shelf - 07	
			Material Finish, Shelf - Painted - Spatter Gray	
			Location, Shelves/Trays, Predefined - LS1-Transition Point, RS1-Centered, RS1-Lower Third, RS1-Upper Third, B1-Centered, LS3-Upper Third and LS1-Upper Third	
215	0709690		Tray, 250 lb Slide-out, 2" Sides - Adj. Height, Predefined Locations	4
			Qty, Tray (slide-out) - 04	
			Location, Shelves/Trays, Predefined - RS1-Centered Left of Partition, RS1-Upper Third Left of Partition, LS1-Lower Third and LS3-Lower Third	
			Material Finish, Tray - Painted - Spatter Gray	
216	0709692		Tray, 215 lb, Tilt/Slide-Out, 30 Deg, Adj, Predefined Locations	3
			Qty, Tray (slide-out) - 03	
			Location, Shelves/Trays, Predefined - RS2-Centered, RS3-Centered and RS3-Upper Third	
			Material Finish, Tray - Painted - Spatter Gray	
217	0647091		Tray, Floor Mounted, Slide-Out, 500lb, 2.00" Sides	5
			Qty, - 05	
			Location, Tray Slide-Out, Floor Mounted - RS1 - Left of Partition, RS3, LS1, B1 and LS3	
			Material Finish, Tray - Painted - Spatter Gray	
218	0544614		Toolboard, Swing-out, Alum, .188", Peg Board, 3G	1
			Qty - 1	
			Location, Pivot - Front	
			Mounting, Toolboard - Adjustable Frt-back	
			Hole Diameter, Pegboard/Toolboard - .203" diameter	
			Finish, Pegboard/Toolboard - Painted - Spatter Gray	
			Location, Toolboard - LS2	
219	0009729		Pac Trac, Installed on Compt Walls	2
			Location - ls3,ls2	
			Qty, Comp. Accessory - 02	
220	0600281		Partition, Vertical Compartment, Predefined Locations	1
			Qty, Partition - 01	
			Location, Partition/Toolboard, Predefined - RS1 - Centered	
			Material Finish, Partition - Painted - Spatter Gray	
221	0063064		Rub Rail, Aluminum Extruded, Side of Body, 3rd Gen Body	1
222	0515441		Fender Crowns, Rear, S/S, W/Removable Fender Liner, Pumper, 3rd Gen	1
			Material Finish, Fender Liner - Brushed Stainless	
223	0519849		Not Required, Hose, Hard Suction	1
224	0527021		Handrails Located @ Front Body	1
225	0664688		Handrails, Rear, PUC	1
226	0610196		Handrail, Rear, Above Hose Bed, New York Style/Low Hose Bed	1
			Handrail Finish - Knurled	
			Reinforcement, Hose Bed Divider - Tied to Upper Handrail/Crossbar	
227	0654143		Compt, Air Bottle, Single, Common Triple Door (DEF/Fuel), Fender Panel	1
			Door Finish, Fender Compt - Polished	
			Latch, Air Bottle Compt - Southco C2 Chrome Raised	
			Insert, Air Bottle Compt - Rubber Matting	
228	0657651		Compt, Air Bottle, Double, Full Width Door, Fender Panel	4
			Qty, Air Bottle Comp - 4	
			Door Finish, Fender Compt - Polished	
			Location, Fender Compt - Double - LS Fwd, Double - LS Rear, Double - RS Fwd and Double - RS Rear	
			Latch, Air Bottle Compt - Southco C2 Chrome Raised	
			Insert, Air Bottle Compt - Rubber Matting	
229	0545785	SP	Ladder, 30' Duo-Safety 1225-A 3-Sect, PUC	1
230	0004230		Ladder, 14' Duo-Safety 775A Roof	1

Line	Option	Type	Option Description	Qty
231	0638360		Rack, Ladders, in RS Full Depth Body, PUC, 3-Sec/Roof	1
			Door, Material & Finish, Ladder Storage - smooth aluminum	
			Latch, Door Ladder Storage - D-Handle latch	
232	0014245		Ladder, 10' Duo-Safety Folding 585A, w/Mounting	1
			Location, Folding Ladder - Ladder Compartment	
233	0024245		Trough, Mounting Folding Ladder	1
234	0602877		Pike Pole, Pumper, Provided by Fire Department, NFPA 2016	1
			Pike Pole Make/Model - Duo-Safety 10' Pike Pole	
235	0602875		Pike Pole, 6', Pumper, Provided by Fire Department, NFPA 2016	1
			Pike Pole Make/Model - Duo-Safety 6' Pike Pole	
236	0539402		Compt, Pike Poles/Fld Ldr In Upper Bdy (1) LS, Long Storage (1) RS, Sm Alum, PUC	1
237	0521734		No Steps Required, Front Of Body, PUC	1
238	0759144		Ladder, Top Access, Alum, Rear, PUC, Opposite Ladder Storage, Tied to DNM Light	1
239	0515695		Pump, Pierce, 1500 GPM, Single Stage, PUC	1
240	0515822		Seal, Mechanical, Silicon Carbide, PUC Pump	1
241	0515705		Gear Case, Pierce Pump, REPTO-Clutch Drive	1
242	0521309		Pumping Mode, Pump and Roll/Stationary, Basic, PUC	1
243	0515829		Pump Shift, Sure-Shift	1
244	0515833		Transmission Lock-up, Not Req'd, Park to Neutral, Pump, PUC	1
245	0515835		Auxiliary Cooling System, PUC	1
246	0014486		Not Required, Transfer Valve, Stage Pump	1
247	0777650		Valve, Relief Intake, Akron	1
			Pressure Setting - 125 psig	
			Intake Relief Valve Control - Behind Left Side Pump Panel	
248	0515838		Controller, Pressure, Pierce, PUC	1
249	0072153		Primer, Trident, Air Prime, Air Operated	1
250	0780359		Manuals, Pump, (2) Total, Electronic Copies, Pierce PUC Pump	1
251	0602496		Plumbing, Stainless Steel and Hose, Single Stage Pump, PUC	1
252	0795135		Plumbing, Stainless Steel, w/Foam System	1
253	0517852		Inlets, 6.00" - 1500 GPM, Pierce PUC Pump	1
254	0699096		Not Required, Cap, Main Pump Inlet, Included w/Storz Adapter	1
255	0084610		Valves, Akron 8000 series- All	1
256	0004660		Inlet, Left Side, 2.50"	1
257	0004680		Inlet, Right Side, 2.50"	1
258	0520002		Valve, Inlet(s) Recessed, Side Cntrl, PUC	1
			Qty, Inlets - 1	
259	0521137		Anode, Zinc, Pair, Pump Inlets, PUC	1
260	0004700		Control, Inlet, at Valve	1
261	0092569		No Rear Inlet (Large Dia) Requested	1
262	0092696		Not Required, Cap, Rear Inlet	1
263	0064116		No Rear Inlet Actuation Required	1
264	0009648		No Rear Intake Relief Valve Required on Rear Inlet	1
265	0092568		No Rear Auxiliary Inlet Requested	1
266	0563738		Valve, .75" Bleeder, Aux. Side Inlet, Swing Handle	1
267	0520277		Tank to Pump, (1) 3.00" Valve, 4.00" Plumbing, PUC	1
268	0595508		Outlet, Tank Fill, 1.50", PUC	1
269	0516755		Outlet, Left Side, 2.50" (2), PUC	1
270	0766761		Outlet, Right Side, 2.50", (1), Electric Akron 9335 Controller, PUC	1
			Qty, Discharges - 01	
271	0766992		Outlet, Right Side, 4" w/4" Valve, Akron 9335 Elec Controller, PUC	1
272	0648906		Outlet, Front, 2.50" w/2.50" Plumbing	1
			Fitting, Outlet - 2.50" NST with 90 degree swivel	
			Drain, Front Outlet - Automatic	
			Location, Front, Single - top of right bumper	
273	0092575		Not Required, Outlet, Rear	1
274	0537394		Not Required, Outlet, Rear, Additional, PUC	1
275	0516835		Outlet, Front of Hose Bed, 2.50", w/2.50" Valve, 3" Piping, PUC	2
			Qty, Discharges - 02	
			location - one each side	
276	0752097		Caps/Plugs for 1.00" to 3.00" Discharges/Inlets, Chain	1

Line	Option	Type	Option Description	Qty
277	0563739		Valve, 0.75" Bleeder, Discharges, Swing Handle	1
278	0055095		Not Required, Elbow, Left Side Outlets, 2.50"	1
279	0021134		Not Required, Elbow, Right Side Outlets	1
280	0045099		Not Required, Elbow, Rear Outlets	1
281	0537395		Not Required, Elbow, Rear Outlets, Additional	1
282	0007308		Not Required, Elbow, Large Diameter Outlet	1
283	0766941		Control, Outlets, Swing Handle, Elec Right Outlets Akron 9335 w/Press Disp, PUC	1
284	0516870		Outlet, 3.00" Deluge w/2.50" Valve, w/Elkhart Elec Extndr 18", Foam Bypass, PUC	1
285	0624465		Monitor, Elkhart Cobra EXM 7200, Electric, Panel and Wireless Remote Control	1
			Monitor Finish - Painted by OEM	
286	0058724		Nozzle, Elkhart SM-1250E, 1,250 GPM - Electric	1
287	0792017		Deluge Mount, 3.00" ANSI Flange, When An Elkhart Extender Is Used	1
288	0750982		Crosslay Module, Full Width, Roll Up Doors, PUC	1
289	0747660		Lights, Crosslay Compt, Forward LED, 2Lts	1
290	0749510		Doors, Crosslay, Roll-up Gortite, Each End, Full Height, PUC	1
			Color, Roll-up Door, Gortite - Painted to Match Lower Body	
			Latch, Roll-up Door, Gortite - Non-Locking Liftbar	
			Door Guard - Drip Pan Required	
291	0750916		Crosslays, (2) 1.50", W/Poly Trays, PUC	1
			Crosslay/Deadlay/Speedlay Capacity 1 - 200' of 1.75" double jacket hose	
292	0750900		Crosslay, (1) 2.50", W/Poly Trays, PUC	1
			Crosslay/Deadlay/Speedlay Capacity 1 - 200' of 2.50" double jacket hose	
293	0693973		Foam Sys, Husky 12, Single Agent, PUC, Multi Select Feature	1
			Discharge, Foam Locations - Front Bumper Right Side, Deluge Foam Bypass, Front of Hose Bed Right Side, Crosslay Center, Crosslay Lower and Crosslay Upper	
			Discharge, Foam Locations - Front Bumper Right Side, Deluge Foam Bypass, Front of Hose Bed Right Side, Crosslay Center, Crosslay Lower and Crosslay Upper	
294	0535281		Hercules CAFS, 140 CFM, Hydraulic Drive, PUC	1
			Fill in Blank - Front , bumper, 3 cl, Right side hose bed and deluge gun	
			Amount of Disch. W/Hercules CAFS - 6	
			CAF with a second pump - No second pump	
295	0552481		Refill, Foam Tank, Single Tank, Husky 12, Class A Foam	1
296	0553150		Demonstration, Foam System and CAFS, Dealer Provided, Siddons-Martin Emergency	1
297	0020148		Foam Cell, 30 Gallon, Reduce Water	1
			Type of Foam - Class "A"	
			Foam, Brand Name - Silvex	
298	0505016		Drain, 1.00", Foam Tank #1, Husky 12 Foam System	1
299	0091079		Not Required, Foam Tank #2	1
300	0091112		Not Required, Foam Tank #2 Drain	1
301	0515692		Pump Operators Panel, 31", Control Zone, PUC	1
302	0032479		Pump Panel Configuration, Control Zone	1
303	0516975		Material, Pump Panels, Operators Brushed Stainless, Sides Brushed Stainless, PUC	1
304	0516978		Pump and Plumbing Access, Simple Tilt Service, PUC	1
305	0520016		Not Required, Pumphouse Structure, PUC	1
306	0618458		Light, Pump Compt, Wln 3SC0CDCR LED White, PUC	1
			Qty, - 01	
307	0516983		Gauges, Engine, Included With Pierce Pressure Controller, PUC	1
308	0005601		Throttle Included w/ Pressure Controller	1
309	0549333		Indicators, Engine, Included with Pressure Controller	1
310	0511078		Gauges, 4.00" Master, Class 1, 30"-0-600psi	1
311	0511100		Gauge, 2.00" Pressure, Class 1, 30"-0-400psi	1
312	0517009		Gauge, Water Level, Pierce, In pressure Controller, w/Mini Slave, PUC	1
			Activation, Water Level G - pg) pump in gear	
313	0750203		Water Level Gauge, Wln PSTANK2, LED 1-Light, 4-Level, Use w/Pierce Class 1, PMFD	2
			Qty, - 02	
			Activation, Water Level G - pg) pump in gear	
			Location, Water Level Gauge - Each Side Custom Cab	
			Color, Trim - Chrome Housing	

Line	Option	Type	Option Description	Qty
314	0517012		Gauge, Foam Level, Pierce, PUC, PP and Mini in Cab	1
			Activation, Foam Level Gauge - pump in gear	
315	0653081		Light, Pump Operator & Panel, Side Ctrl, PUC, 60354C LED Cab & LED OH Chr Cvr	1
316	0606697		Air Horns, (2) Grover, In Bumper	1
317	0606835		Location, Air Horns, Bumper, Each Side, Outside Frame, Outboard (Pos #1 & #7)	1
318	0588494		Control, Air Horn, Lanyard Centered, Chain DS & PS Access	1
319	0525667		Siren, Wln 295SLSA1, 100 or 200 Watt	1
320	0015283		Location, Elect Siren	1
			Location - behind driver seat	
321	0076156		Control, Elec Siren, Head Only	1
322	0601298		Speaker, (2) Wln, SA315P, 100 watt	1
			Connection, Speaker - siren head	
323	0601558		Location, Speaker, Frt Bumper, Recessed, Ea Side, Outside Frame, Inbrd (Pos 2/6)	1
324	0016080		Siren, Federal Q2B	1
325	0006095		Siren, Mechanical, Mounted Above Deckplate	1
			Location, Siren, Mech - a) Left	
326	0026163		Control, Mech Siren, DS & PS Foot Sw	1
327	0002623		Cut-Out, Mech Siren, Interlock to Parking Brake	1
328	0006086		Switch, Second Siren Brake	1
329	0608616		Lightbar, Wln, Freedom IV-Q, 72", RRRRWRROptRRWRRRR	1
			Opticom Priority - b) High	
			Opticom Activation - Cab Switch & E-Master	
			Momentary Opticom Activation - PS Switch	
			Filter, Whl Freedom Ltbrs - No Filters	
330	0016380		No Additional Lights Req'd, Side Zone Upper	1
331	0540384		Lights, Front Zone, Wln M6*C LED, Clear Lens, in Common Bzl	1
			Color, Lt DS Front - Red	
			Color, Lt PS Front - Red	
332	0653937		Flasher, Headlight Alternating	1
			Headlt flash deactivation - a)w/high beam	
333	0793476		Lights, Side Zone Lower, Wln M6** LED, PUC, 2pr	1
			Location, Lights Front Side - b)each side bumper	
			Color, Lens, LED's - Clear	
			Color, Lt Side Front - Red	
			Color, Lt Side Rear - Red	
			Location, Lights Rear Side - Over Rear Wheels	
334	0540783		Lights, Rear Zone Lower, Wln M6*C LED	1
			Color, Lt DS Rear - r) DS Rear Lt Red	
			Color, Lt PS Rear - r) PS Rear Lt Red	
335	0541152		Lights, Rear/Side Up Zone, Wln M6*C LED, Clear Lens 4lts	1
			Flange Kit, 2pr - w/with a flange	
			Color, Lt, Side Rear Upper DS - Red	
			Color, Lt, Side Rear Upper PS - Red	
			Color, Lt, Rear Upper DS - Red	
			Color, Lt, Rear Upper PS - Red	
336	0006551		Not Required, Lights, Rear Upper Zone Blocking	1
337	0590000		No Hose Bed Warn Light Brackets Req'd, Lights Mtd on Hatch/Body Compts, PUC	1
338	0791528		Light, Traffic Directing, Wln TAL65, 36.00" Long, TACTL5	1
			Activation, Traffic Dir L - Not Connected	
339	0551728		Location, Traf Dir Lt, Recessed with S/S Trim	1
340	0530282		Location, Traf Dir Lt Controller, Overhead Switch Panel DS Right End	1
341	0589985		Inverter, Vanner Bravo QBC10-12/120-60G,1050W - Derated to 800W Loc Feature	1
			Location, Inverter - B1	
			Location, Inverter Switch - DS Cab	
342	0519934		Not Required, Brand, Hydraulic Tool System	1
343	0649753		Not Required, PTO Driven Hydraulic Tool System	1
344	0007150		Bag of Nuts and Bolts	1
			Qty, Bag Nuts and Bolts - 1	
345	0602516		NFPA Required Loose Equipment, Pumper, NFPA 2016, Provided by Fire Department	1
346	0519913		Not Required, Soft Suction Hose	1
347	0027023		No Strainer Required	1

Line	Option	Type	Option Description	Qty
348	0602538		Extinguisher, Dry Chemical, Pumper NFPA 2016 Class, Provided by Fire Department	1
349	0602360		Extinguisher, 2.5 Gal. Pressurized Water, Pumper NFPA 2016,Provided by Fire Dept	1
350	0602679		Axe, Flathead, Pumper NFPA 2016 Classification, Provided by Fire Department	1
351	0602667		Axe, Pickhead, Pumper NFPA 2016 Classification, Provided by Fire Department	1
352	0559682		Paint, Two Tone, Cab, w/Shield, Custom Cab	1
			Paint Color, Predefined - #90 Red	
			Paint Color, Upper Area, Predefined - #20 White	
353	0646901		Paint Chassis Frame Assy, With Liner, E-Coat, Standard	1
			Paint Color, Frame Assembly, Predefined - Lower Job Color	
354	0693797		No Paint Required, Aluminum Front Wheels	1
355	0693792		No Paint Required, Aluminum Rear Wheels	1
356	0007230		Compartment, Painted, Spatter Gray	1
357	0544129		Reflective Band, 1"-6"-1"	1
			Color, Reflect Band - A - a) white	
			Color, Reflect Band - B - l) white	
			Color, Reflect Band - C - w) white	
358	0007356		Reflective across Cab Face	1
359	0593732		Stripe, Chevron, Rear, Diamond Grade, Pumper, PUC	1
			Color, Rear Chevron DG - fluorescent yellow green	
360	0065687		Stripe, Reflective, Cab Doors Interior	1
			Color, Reflective - a) white	
361	0027372		Lettering Specifications, (GOLD STAR Process)	1
362	0686428		Lettering, Gold Leaf, 3.00", (41-60)	1
			Outline, Lettering - Outline and Shade	
363	0686037		Lettering, Reflective, 2.00", (81-100)	1
			Outline, Lettering - Outline and Shade	
364	0685987		Lettering, Reflective, 11.00", (21-40)	1
			Outline, Lettering - Outline and Shade	
365	0685980		Lettering, Reflective, 14.00", (1-20)	1
			Outline, Lettering - Outline and Shade	
366	0685984		Lettering, Reflective, 12.00", (1-20)	1
			Outline, Lettering - Outline and Shade	
367	0685991		Lettering, Reflective, 10.00", (21-40)	1
			Outline, Lettering - Outline and Shade	
368	0685986		Lettering, Reflective, 11.00", (41-60)	1
			Outline, Lettering - Outline and Shade	
369	0685990		Lettering, Reflective, 10.00", (41-60)	1
			Outline, Lettering - Outline and Shade	
370	0769755		Emblem, Texas Flag Painted on Cab Grille, All Custom Chassis	1
371	0772003		Manual, Fire Apparatus Parts, USB Flash Drive, Custom	1
			Qty, - 01	
372	0772037		Manual, Chassis Service, USB Flash Drive, Custom	1
			Qty, - 01	
373	0773381		Manual, Chassis Operation, (1) USB Flash Drive, Custom	1
374	0030008		Warranty, Basic, 1 Year, Apparatus, WA0008	1
375	0696696		Warranty, Engine, Detroit DD13, 5 Year, WA0180	1
376	0684953		Warranty, Steering Gear, Sheppard M110, 3 Year WA0201	1
377	0596017		Warranty, Frame, 50 Year, Custom Chassis, WA0013	1
378	0595698		Warranty, Axle, 3 Year, TAK-4, WA0050	1
379	0610485		Warranty, Axle, Eaton/Dana, 5 Year/100,000 Mile, Parts and Labor	1
380	0652758		Warranty, ABS Brake System, 3 Year, Meritor Wabco, WA0232	1
381	0019914		Warranty, Structure, 10 Year, Custom Cab, WA0012	1
382	0595813		Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	1
383	0647720		Warranty, Pierce LED Strip Lights, WA0203	1
384	0046369		Warranty, 5-year EVS Transmission, Standard Custom, WA0187	1
385	0685945		Warranty, Transmission Cooler, WA0216	1
386	0688798		Warranty, Water Tank, Lifetime, UPF, Poly Tank, WA0195	1
387	0596025		Warranty, Structure, 10 Year, Body, WA0009	1
388	0693127		Warranty, Gortite, Roll-up Door, 6 Year, WA0190	1
389	0516693		Warranty, Pump, Pierce, PUC, 6 Year Parts, 1 Year Labor, WA0039	1

Line	Option	Type	Option Description	Qty
390	0648675		Warranty, 10 Year S/S Pumbing, WA0035	1
391	0657846		Warranty, Foam System, Husky 12, WA0231	1
392	0595820		Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	1
393	0595421		Warranty, Goldstar, 3 Year, Apparatus, WA0018	1
394	0683627		Certification, Vehicle Stability, CD0156	1
395	0610839		Certification, Engine Installation, Enforcer, Detroit DD13, 2016, CD0146	1
396	0686786		Certification, Power Steering, CD0098	1
397	0631980		Certification, Cab Integrity, Saber FR/Enforcer, CD0130	1
398	0631973		Certification, Cab Door Durability, Saber FR/Enforcer, CD0137	1
399	0631978		Certification, Windshield Wiper Durability, Saber FR/Enforcer, CD0132	1
400	0631974		Certification, Electric Window Durability, Saber FR/Enforcer, CD0133	1
401	0631977		Certification, Seat Belt Anchors and Mounting, Saber FR/Enforcer, CD0134	1
402	0631976		Certification, Cab Heater and Defroster, Saber FR/Enforcer, CD0131	1
403	0631971		Certification, Cab Air Conditioning Performance, Saber FR/Enforcer, CD0135	1
404	0545073		Amp Draw Report, NFPA Current Edition	1
405	0002758		Amp Draw, NFPA/ULC Radio Allowance	1
406	0799248		Appleton/Florida BTO	1
407	0000048		PUMPER/TANKER, 3rd Gen	1
408	0000012		PIERCE CHASSIS	1
409	0562778		DD13 ENGINE	1
410	0046396		EVS 4000 Series TRANSMISSION	1
411	0520324		PIERCE PUMP, PUC	1
412	0020009		POLY TANK	1
413	0028048		FOAM SYSTEM	1
414	0020006		SIDE CONTROL	1
415	0020007		AKRON VALVES	1
416	0020015		ABS SYSTEM	1
417	0658751		PUMPER BASE	1

COOPERATIVE PURCHASING PROGRAM
Houston-Galveston Area Council of Governments
3555 Timmons, Suite 120, Houston, TX 77027
Phone: 800-926-0234 Fax: 713-993-4548
www.hgacbuy.org

INVITATION TO SUBMIT COMPETITIVE: ☒ BIDS ☐ PRE-PROPOSAL

INVITATION NO.: **FS12-19** ISSUE DATE: **June 27, 2019**

CATEGORY: **Fire Service Apparatus (All Types)**

PURPOSE OF THIS INVITATION

The Cooperative Purchasing Program (HGACBuy) of the Houston-Galveston Area Council of Governments is soliciting offerings for the furnishing of products/services as described herein. These products/services may be purchased by any of more than 7000 member local governments, districts, agencies in 49 states across the nation.

Responses must be submitted in an original and one (1) copy, and shall be subject to the terms, conditions, requirements and specifications detailed in the documents comprising this Invitation. Responses are scheduled to be opened publicly at **H-GAC** offices on the date indicated. For Bid Invitations, responses will be available for public review until 4:00 p.m. CT that day, and on subsequent days by appointment only. Any Responses submitted later than 1:00 p.m. on the due date will be returned unopened to the bidder/proposer.

PROCUREMENT SCHEDULE & DETAILS

DRAFT SPECIFICATION / INVITATION:	May 1, 2019
PRE-BID/PROPOSAL CONFERENCE:	June 5, 2019 @ 9:00 a.m. CT; H-GAC Offices
FINAL SPECIFICATION / INVITATION:	June 27, 2019
BID/PROPOSAL RESPONSES DUE:	July 24, 2019 @ 1:00 p.m. CT; H-GAC Clock
PUBLIC RESPONSE OPENING:	July 24, 2019 @ 2:00 p.m. CT; H-GAC Clock
RECOMMENDATIONS TO BOARD:	October 15, 2019
CONTRACT START DATE & TERM:	December 01, 2019 through November 30, 2021
The documents comprising this Invitation are available via web download at: **https://www.hgacbuy.org/bids/**	
For assistance regarding this Invitation, please contact: Name: **Jackie Palmer** Phone: **713-993-2466** E-mail: **jpalmer@h-gac.com**	

CONTENTS OF THIS INVITATION

SECTION A - General Terms & Conditions

SECTION B - Product/Service Specific Requirements & Specifications (Final)

SECTION C - **HGACBuy** *FORMS* (Final)

SECTION D - Pro-Forma (Sample) Contract

This procurement conforms to government requirements for Competitive Procurement.

LABELING OF SEALED RESPONSE PACKAGE

IMPORTANT:
You must affix an identifying label to the outside of your Sealed Response Package to ensure proper identification and log-in at HGACBuy offices on receipt. HGACBuy is not responsible for any response that might be lost or misdirected due to improper or unclear labeling. Your label should look as follows and should be affixed conspicuously to the package.

H-GAC Cooperative Purchasing

Sealed Bid/Proposal No. **FS12-19**

DO NOT OPEN IN MAIL ROOM

Responses by E-mail or FAX will not be acceptable. Hard copies, as described herein, plus appropriate electronic media are required.

SECTION A

GENERAL TERMS & CONDITIONS
FOR BIDS AND PROPOSALS

INVITATION NO. FS12-19
DESCRIPTION: Fire Service Apparatus (All Types)
TABLE OF CONTENTS

1. INTRODUCTION 2
2. DEFINITIONS, ABBREVIATIONS & ACRONYMS 2
3. NON-BINDING ORAL COMMENTS 4
4. STRUCTURE OF RESPONSE 4
5. BASIC REQUIREMENTS & CONDITIONS 4
6. OFFEROR'S AUTHORIZED SIGNATORY 5
7. SURETY FOR INSURANCE 6
8. CONFIDENTIAL / PROPRIETARY MATERIALS 6
9. REFERENCES 6
10. INSURANCE 6
11. OFFEROR CERTIFICATIONS 7
12. HISTORICALLY UNDERUTILIZED BUSINESS (HUB) PARTICIPATION 7
13. NON-RESIDENT RECIPROCAL SALES ACT 8
14. TEXAS MOTOR VEHICLE COMMISSION CODE & LICENSING 8
15. INTENT AND SCOPE OF SPECIFICATIONS 8
16. REQUIREMENTS APPLICABLE TO PHYSICAL GOODS 8
17. PRODUCT CODES 8
18. SPECIFIC DESCRIPTIVE REFERENCES 9
19. MANUALS 9
20. STANDARD FEATURES & OPTIONS 9
21. WARRANTIES, SALES & SERVICE 10
22. H-GAC ORDER PROCESSING CHARGE 11
23. PRE-PAYMENTS AND DISCOUNTS 11
24. INSPECTION / TESTING 11
25. PRODUCT DELIVERY 11
26. OFFERED PRODUCT ITEM VARIANCES 11
27. REQUIREMENTS FOR SUBMISSION OF A RESPONSE 11
28. CLARIFICATION TO SPECIFICATIONS & REQUIREMENTS 13
29. INCONSISTENT INFORMATION 14
30. REJECTION OF RESPONSES 14
31. WITHDRAWAL OR MODIFICATION OF RESPONSES 14
32. RESPONSE EVALUATION 14
33. ORDER OF PRECEDENCE PRIOR TO CONTRACT AWARD 15
34. AWARD OF CONTRACT 15
35. PRO-FORMA CONTRACT 15
36. CONTRACT TERM 15

37. PERFORMANCE & PAYMENT BOND 15
38. CHANGE ORDERS 15
39. DUPLICATION OF TERMS OR STATEMENTS 15
40. PUBLICITY 15
41. TAXES 16
42. DRUG FREE WORKPLACE 16
43. PRODUCT NOTICES & MAILINGS 16
44. HANDLING OF ORDERS & PAYMENTS 16
45. PRICE CHANGES 17
46. CONTRACT ITEM CHANGES 17
47. FORCE MAJEURE 18
48. PERFORMANCE UNDER CONTRACT 18
49. CONTRACTOR ORIENTATION/TRAINING 18
50. LEGAL & CONTRACTUAL REMEDIES 19
51. NATIONWIDE SALES OPPORTUNITIES 20

1. INTRODUCTION

The Houston-Galveston Area Council (**H-GAC)** is a "Government-to-Government" procurement service for States, State Agencies, Local Governments, Districts, Authorities, and qualifying Not-for-Profit Corporations (**End User**s). End Users become **Members** of the **H-GAC** Cooperative Purchasing Program (**HGACBuy**) by executing an Interlocal Contract, which is free of cost and evergreen unless cancelled. **HGACBuy**, acting on behalf of **Members**, is soliciting competitive offerings for the furnishing of products and/or services, as described elsewhere, which MAY be purchased by **Members** during the contract term. **Members** using the Program issue purchase orders directly to **HGACBuy** contractors.

2. DEFINITIONS, ABBREVIATIONS & ACRONYMS

The following definitions, abbreviations and acronyms may be found in these specifications, and shall be interpreted herein as specified below.

Definitions and Abbreviations:

Acceptance. Acceptance takes place when the **End User** agrees with the **Contractor** that the terms and conditions of the contract have been met and verified. Acceptance is not the same as Receipt, and can only occur after intact shipping, inspection by **End User**, and any onsite testing that has been stipulated as part of the order

Aggregate/Single Occurrence. The term *"aggregate"* in insurance terms is the sum of all claims against a specific policy for a specific loss incident. The term *"single occurrence"* differentiates between multiple claims and single claims against a specific policy. The inherent value of a policy's aggregate value is less important to an **End User** than is the value of a single claim as stated under *"single occurrence."*

Approved. Acceptable to the "authority having jurisdiction."

ARO. "After Receipt of Order". Used in conjunction with a defined time period (usually days or weeks) to establish the delivery or lead time pursuant to any individual purchase transaction. In the case of orders for bodies which will be mounted on a customer furnished cab/chassis, the term ARO shall be construed to mean "After Receipt Of Cab/Chassis".

Authority Having Jurisdiction. The authority shall be either **H-GAC** or the relevant **End User** based on the requirements as stated in each specification item. Unless specifically stated, the authority shall be **H-GAC**.

Bidder. Any entity that submits a competitive bid to this Invitation. (See also "**Offeror**")

Change Order. Request by an **End User** for a change in the composition of an already submitted purchase order, for example to change quantity ordered, add or delete items, etc.

Contract. Specifically, a contract between **H-GAC** and a successful **Offeror** which is executed based on an award made pursuant this Invitation.

Contract Pricing Worksheet. The standard **H-GAC** form to by used by **Contractor** in preparing a quotation to an End User, upon which End User's purchase order will be based. **Contractor** may use another quotation form provided it contains required information, and only if approved by **H-GAC**.

Contractor. The contracted business entity responsible for fulfilling a contract executed pursuant to this Invitation.

Dealer/Distributor. A duly authorized and/or franchised business entity which sells and services a manufacturer's product in a specified marketing area.

Defect. A discontinuity in a part or a failure to function that interferes with the service or reliability for which the part was intended.

Electronic Media. As used herein, means computer based media such as 100mb Zip Disk, CDRom, e-mail, e-mail attachment, file downloaded from the web, etc.

End User. (See "**Participant**" and "**Member**")

Listed. Equipment or materials included in a list published by an organization, acceptable to the "Authority Having Jurisdiction" and concerned with product evaluation, that conducts periodic inspection of production of listed equipment or materials and whose listing states either that the equipment or materials meet appropriate standards or has been tested and found suitable for use in a specified manner. NOTE: The means for identifying listed equipment may vary for each organization concerned with product evaluation, some of which do not recognize equipment as listed unless it is also labeled. The "authority having jurisdiction" should utilize the system employed by the listing organization to identify a listed product.

Manufacturer. The person or persons, company firm, corporation, partnership, or other organization responsible for taking raw materials or components and making a finished product.

May. A term indicating a permissive use or an acceptable alternative to a specified requirement.

Member. An authorized Participant in the Program. (See "**Participant**" and "**End User**")

Motor Vehicle. The meaning of this term shall be based on the legal definition ascribed to it by the laws and/or regulations of the state in which any specific sale made pursuant to a Contract takes place.

Must. A term indicating a mandatory requirement.

Offer or Offering. Any product or service offered in reply to this Invitation.

Offeror. Any entity that submits a competitive bid or proposal in response to this Invitation. Bidder or Proposer.

Participant. Generally, any qualifying governmental or non-profit entity which has executed an Interlocal Contract for cooperative purchasing services with **H-GAC.**

Product Liability Insurance. Failure of Components and/or assembled equipment resulting in personal injury, disability or death and/or property damage is covered under the product liability insurance provisions.

Product or **Product Item.** Any of the specific goods, materials, equipment or service(s) specified in this Invitation. This term encompasses the base line item itself, and any and all accessories, options, modifications, ancillary services, assembly, testing, etc. that may be included in the delivered Product.

Proposer. Any entity that submits a competitive proposal in response to this Invitation. (See also "**Offeror**")

Purchaser. The **End User** having responsibility for the specification, requisition, ordering and acceptance of the Product or Service. (See also "**End User**")

Purchasing Authority. The agency that has sole responsibility and authority for negotiating, placing and, if necessary, modifying any solicitation, purchase order, or other award issued by a governing body [**H-GAC**].

Quotation. See "Contract Pricing Worksheet".

Receipt. Receipt takes place when a Product or Service is delivered to an **End User** and a document is executed that establishes that the Product is now in the possession of the **End User** or that the Service has been completed. Receipt DOES NOT connote or imply Acceptance.

Response. All or part of any offering submitted in response to this Invitation.

Shall. A term indicating a mandatory requirement or action.

Should. A term indicating a recommended or advised response to a specified requirement.

Vendor. A manufacturer's representative or dealer authorized to make sales and supply parts and service.

Acronyms:

ANSI = **A**merican **N**ational **S**tandards **I**nstitute

ASTM = **A**merican **S**ociety for **T**esting and **M**aterials

ASME = **A**merican **S**ociety of **M**echanical **E**ngineers

CFR = U.S. **C**ode of **F**ederal **R**egulations

DOJ = U.S. **D**epartment **O**f **J**ustice
DOT = U.S. **D**epartment **O**f **T**ransportation
EPA = U.S. **E**nvironmental **P**rotection **A**gency
FAA = **F**ederal **A**viation **A**dministration
FMVSS = U.S. **F**ederal **M**otor **V**ehicle **S**afety **S**tandards
H-GAC = **H**ouston-**G**alveston **A**rea **C**ouncil of Governments
IEEE = **I**nstitute of **E**lectrical and **E**lectronics **E**ngineers
MVD = **M**otor **V**ehicle **D**ivision of Texas Department of Transportation
NFPA = **N**ational **F**ire **P**rotection **A**ssociation
NHTSA = **N**ational **H**ighway **T**raffic **S**afety **A**dministration
NIOSH = **N**ational **I**nstitute **F**or **O**ccupational **S**afety And **H**ealth
NIST = **N**ational **I**nstitute of **S**tandards and **T**echnology
NTEA = **N**ational **T**ruck **E**quipment **A**ssociation
OSHA = U.S. **O**ccupational **S**afety and **H**ealth **A**dministration
RRC = **R**ail**r**oad **C**ommission of Texas
SAE = **S**ociety of **A**utomotive **E**ngineers
TBPC = **T**exas **B**uilding and **P**rocurement **C**ommission (formerly GSC)
TxDOT = **T**exas **D**epartment **O**f **T**ransportation
UL = **U**nderwriter's **L**aboratories Inc.
VTCS = **V**ernon's **T**exas **C**ivil **S**tatutes

3. NON-BINDING ORAL COMMENTS

No oral comment, utterance or response made by any employee, member, or agent of **H-GAC** or any Member of the Cooperative Purchasing Program shall be considered factual or binding with regard to this Invitation, or any contract awarded as a result of this Invitation. Valid and binding terms, conditions, provisions, changes or clarifications, or requests thereof, shall ONLY be communicated written form.

4. STRUCTURE OF RESPONSE

Depending on the Product or Service, market structures and sales practices can differ substantially. For example, dealers may sell into any market or may be restricted to certain territories, manufacturers may sell direct or may be limited by law to selling thru independent dealerships, etc. **H-GAC**'s objective is to ensure that **End Users**, no matter where located, can buy contracted products/services and receive quality and timely service and support, while at the same time allowing for the most appropriate and effective response to this Invitation. Therefore, responses to this Invitation will be accepted in conformance with the following scenarios and requirements:

A. Single Respondent Acting Alone Or As "Lead" For A Group:

Offeror shall complete and sign a **Form A** and, if contracted, shall be solely responsible for all contractual requirements including administration, processing of purchase orders and handling of payments for transactions which may involve other dealers who actually deliver the products or services.

B. Multiple Respondents Acting Jointly:

A single Response shall be submitted, and each party to the Response shall complete and sign a separate **Form A** to be included in the single Response. If the Response is successful each party shall sign a separate contract with **H-GAC** and shall be responsible for compliance with all terms and conditions. Only those which have executed a written contract with **H-GAC** may process purchase orders and payments.

In any event, Offeror may be a party to one, and only one, response.

5. BASIC REQUIREMENTS & CONDITIONS

a. The final requirements and specifications contained herein may be different, perhaps materially, from those in the "Invitation To Attend Pre-Bid / Pre-Proposal Conference", if any. It is **Offeror**'s sole responsibility to thoroughly examine and review all documentation associated with this Invitation, including any Addendums, and to insure that any response submitted complies in every respect with all requirements.

b. Any Addendum to this Invitation which may be required prior to the Response due date will be delivered to those prospective Offerors of record who have previously obtained a copy of this Invitation from **H-GAC**. Prospective Offerors shall be responsible for obtaining all documents relating to submission of a Response.

c. **Offeror** shall thoroughly examine any drawings, specifications, schedules, instructions and any other documents, supplied as a part of this Invitation, and is solely responsible for understanding and compliance.

d. **H-GAC** shall not be liable for **Offeror's** incomplete documentation, or for any costs associated with preparation and submission of any Response hereto. Additionally, all components of any Response become the property of **H-GAC, and shall be considered to be in the public domain**.

e. **Offeror** shall make all investigations necessary to become thoroughly informed regarding any plan and/or infrastructure that may be required to support delivery of any Product or Service covered by this Invitation. No plea of ignorance by **Offeror** stemming from failure to investigate conditions that may now or hereafter exist, shall be accepted as a basis for varying **H-GAC's** requirements**,** or **Offeror's/Contractor's** obligations or entitlements.

f. Requests for changes to the requirements or specifications herein must be in writing (e-mail, fax, letter) and must be received by **H-GAC** no later than fifteen (15) calendar days prior to the Response Due Date. **H-GAC** will review such requests, but may or may not make changes at its sole discretion. Changes, if any, will only be made by written Addendum sent to addressees of record. In any event, it is **Offeror's** sole responsibility to insure that any and all Addendums which may have been issued have been received and addressed.

g. <u>By submission of a response, **Offeror** expressly understands and agrees that all terms and conditions herein will be part of any subsequent contract that is executed pursuant to this Invitation.</u>

h. **Offeror** is advised that all **H-GAC** contracts are subject to the legal requirements established in any applicable Local, State or Federal statute.

i. **Offeror/Contractor** must be in compliance with all licensing, permitting, registration and other applicable legal or regulatory requirements imposed by any governmental authority having jurisdiction. It is **Offeror/Contractor's** responsibility to insure that this requirement is met, and to supply to **H-GAC** upon request, copies of any license, permit or other documentation bearing on such compliance.

j. Unless otherwise established elsewhere in this Invitation, NO minimum purchase quantities or spending levels are provided or guaranteed by **H-GAC** or any **End User**.

k. This Invitation is not meant to restrict competition, but rather is intended to allow for a wide range of responses.

l. Responses which are 'qualified' with conditional clauses or alterations of or exceptions to any of the terms and conditions in this Invitation may be deemed non-compliant at **H-GAC**'s sole discretion.

m. The term '**Offeror**', or derivative thereof, shall become synonymous with '**Contractor**' for any successful **Offeror** recommended for a contract pursuant to this Invitation.

n. **H-GAC** reserves the right to:
   - Reject any and all offers received in response to this Invitation.
   - Reject any part of an offer received in response to this Invitation.
   - Determine the correct price and/or terminology in the event of any discrepancies in any response.
   - Accept a response from, and enter into agreement with, other than the lowest price **Offeror**.
   - Accept responses and award contracts to as many or as few **Offeror**s as **H-GAC** may select.
   - Amend, waive, modify, or withdraw (in part or in whole) this Invitation, or any requirements herein.
   - Hold discussions with **Offeror**s, although award may be made without discussion.
   - Request an **Offeror** to give a presentation of the Response at a time and place scheduled by **H-GAC**.
   - Exercise any of these rights at any time without liability to any **Offeror**.

o. **H-GAC** reserves the right to determine that conditions exist which prevent the public opening of responses on the date and at the time advertised, and to reschedule the public opening for a future date and time. Responses received by **H-GAC** by the original deadline will be secured unopened until the rescheduled opening date and time, and those having timely submitted such responses will be notified.

6. OFFEROR'S AUTHORIZED SIGNATORY

The signatory shall be authorized to sign and contractually bind **Offeror**, and shall sign any and all Response documentation requiring a signature.

7. SURETY FOR INSURANCE

Contractor shall be responsible for using a surety company properly licensed by any and all states in which Contractor will do business with Participants. The surety company shall not expose itself to any loss on any one risk in an amount exceeding ten percent (10%) of its surplus to policy holders, provided any risk or portion of any risk shall have been reinsured, and such reinsurance shall be deducted in determining the limitation of risk applicable to **H-GAC**'s insurance requirements.

8. CONFIDENTIAL / PROPRIETARY MATERIALS

All documentation submitted as part of **Offeror's** response to this Invitation will be considered to be in the public domain and may be made available to Members and others, after contract award, upon properly submitted request. If **Offeror** submits documents marked "confidential" or "proprietary", the Response may be deemed non-compliant.

9. REFERENCES

a. **Offeror** shall list the names of at least five government agencies within the continental United States which have purchased from **Offeror** products or services similar to those covered by this Invitation, within the last two years. **H-GAC** reserves the right to determine if such products or services are appropriately similar.

b. **Offeror** may provide reference information in whatever format desired, but each should include the following specific information:

- Agency name
- Contact person name
- Address
- Phone & Fax numbers
- Description of product(s) or service(s) and date sold

c. Other information, including criticism however learned, may be used by **H-GAC** in evaluation of responses.

10. INSURANCE

a. Unless otherwise stipulated in Section B, **Offeror/Contractor** must have the following insurance and coverage minimums:

General liability insurance with a Single Occurrence limit of at least $1,000,000.00, and a General Aggregate limit of at least two times the Single Occurrence limit.

Product liability insurance with a Single Occurrence limit of at least $1,000,000.00, and a General Aggregate limit of at least two times the Single Occurrence limit for all Products except Automotive Fire Apparatus. For Automotive Fire Apparatus, see Section B – Product Specific of this Invitation.

Property Damage or Destruction insurance is required for coverage of **End User** owned equipment while in **Contractor**'s possession, custody or control. The minimum Single Occurrence limit is $500,000.00 and the General Aggregate limit must be at least two times the Single Occurrence limit. This insurance may be carried in several ways, e.g. under an Inland Marine policy, as part of Automobile coverage, or under a Garage Keepers policy. In any event, this coverage must be specifically and clearly listed on insurance certificate(s) submitted to **H-GAC**.

b. Insurance coverage shall be in effect for the length of any contract made pursuant to this Invitation, and for any extensions thereof, plus the number of days/months required to *deliver* any outstanding order after the close of the contract period.

c. Original Insurance Certificates must be furnished to **H-GAC** on request, showing **Offeror/Contractor** as the insured and showing coverage and limits for the insurances listed above.

d. If any Product(s) or Service(s) will be provided by parties other than **Offeror/Contractor**, all such parties are required to carry the minimum insurance coverages specified herein, and if requested by **H-GAC**, a separate insurance certificate must be submitted for each such party.

e. **H-GAC** reserves the right to contact insurance underwriters to confirm policy and certificate issuance and document accuracy.

11. OFFEROR CERTIFICATIONS

Offeror, by submission of a Response hereto, makes the following certifications under penalty of perjury and possible contract termination if any of these certifications are found to be false.

Non-Collusive Response

a. The prices in the Response have been arrived at independently without collusion, consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other **Offeror** or potential competitor.

b. The prices which have been quoted in the Response (unless otherwise required by law), have not been knowingly disclosed by **Offeror** and will not be knowingly disclosed by **Offeror** prior to the public response opening, either directly or indirectly, to any other **Offeror** or competitor.

c. No attempt has been made or will be made by **Offeror** to induce any other person, partnership or corporation to submit or not to submit a response for the purpose of restricting competition.

Non-Biased Specifications

This Invitation contains no requirements considered to be unduly biased in favor of **Offeror** or any other **Offeror**s that may be competing for this procurement.

No Financial Interest or Other Conflict

a. No **H-GAC** officer, employee, Board of Directors member or member of any **H-GAC** board or commission, nor family member of any such person, has a financial interest, direct or indirect, in **Offeror** or in any contract **Offeror** might enter into with **H-GAC**.

b. No economic or employment opportunity, gift, loan, gratuity, special discount, trip, favor or service has been, or will be, offered or given to any officer, employee, Board of Directors member, or member of any **H-GAC** board or commission, nor to any family member of any such person.

Debarment and Suspension Status

a. **Offeror** is not currently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any government agency, nor is **Offeror** an agent of any person or entity that is currently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transaction by any government agency.

b. **Offeror** has not within a three year period preceding this Invitation been convicted of or had a civil suit judgement renedered against **Offeror** for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public transaction or contract under a public transaction; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statement, or receiving stolen property.

c. **Offeror** is not presently indicted for or otherwise criminally or civilly charged by a government entity (federal, state, or local) with commission of any of the offenses enumerated above.

d. Offeror has not, within a three year period preceding this Invitation, had any government (federal, state, or local) transactions terminated for cause or default.

Insurance Coverages

Offeror has and will maintain insurance coverage in accordance with the requirements of this Invitation.

Licensing & Permits

Offeror(s) has (have) all licenses and/or permits, required by any and all governmental entities having jurisdiction, to legally sell the products/services offered.

12. HISTORICALLY UNDERUTILIZED BUSINESS (HUB) PARTICIPATION

a. To satisfy Texas' statutory requirements [Government Code, Chapter 2161, Subchapter D], **H-GAC** requires all **Offeror**s to supply information in any bid/proposal response listing (1) the total number of subcontracts and (2) the total number of HUB contracts applicable to the Products or Services offered in the response. Local governments often require this information for their own reporting requirements prior to placing orders through the **H-GAC** Cooperative Purchasing Program.

b. **Offeror** must complete **Form B** and include subcontracts with HUB's that provide any materials or services related to sales that may be made thru **H-GAC**'s Cooperative Purchasing Program.

13. NON-RESIDENT RECIPROCAL SALES ACT

As required by Texas Civil Statutes in the award of contracts, an offeror which is not a Texas resident business must determine if its state of residence prohibits award of government contracts to Texas resident offerors without penalty. If **Offeror's** resident state DOES penalize Texas offerors, **Offeror** must provide this information along with a copy of its applicable resident state's statute in the Response.

14. TEXAS MOTOR VEHICLE COMMISSION CODE & LICENSING

Sales of motor vehicles in the State of Texas are subject to the Texas Motor Vehicle Commission Code. If this Invitation includes any motor vehicle to be sold in the State of Texas, **Offeror** certifies by submission of a response hereto that all required Texas Motor Vehicle Commission licenses are in place and current, and that copies of all such licenses **have been submitted with the Response.** Further, it shall be **Contractor**'s responsibility to keep current all required Texas Motor Vehicle Commission licensing during the term of the contract, and to furnish license copies at any time on request by **H-GAC**. If **Contractor** does not maintain current licensing, **H-GAC** reserves the right to immediately terminate the contract.

> **NOTE:** In accordance with the Texas Motor Vehicle Commission Code, contracts for motor vehicles to be sold within the state of Texas may be made **ONLY** with properly licensed Texas Motor Vehicle Dealers. Therefore, to be considered for a contract covering Texas End Users, the Response must include a **Form A** from a licensed Texas Motor Vehicle Dealer

15. INTENT AND SCOPE OF SPECIFICATIONS

a. The intent of the specifications herein is to provide **Offeror** with sufficient information concerning the Products/Services to be contracted such that **Offeror** can prepare and submit an acceptable Response.

b. The specifications may be detailed or general in nature with regard to any particular Product/Service. Where not otherwise specified, details of construction, materials, or the way in which services will be provided, are left to the discretion of the **Offeror**, provided only that any offering shall conform, as a minimum, to best Industry standards and practices and to what is currently being sold in the marketplace.

c. Responses shall be considered only from **Offerors** that have established good reputations in their markets, and who furnish satisfactory evidence of ability to supply the Products/Services specified herein.

d. **Offeror** shall show proof of ability to provide to **End User**s prompt and competent service, including parts if applicable, for all Products/Services covered by this Invitation, by proper completion of a Service Organization Document as described elsewhere herein.

16. REQUIREMENTS APPLICABLE TO PHYSICAL GOODS

In the case of physical goods (e.g. equipment, material, supplies, as opposed to services), all Products offered must, unless otherwise stipulated in Section B:

a. Be new, unused, and not refurbished.

b. Not be a prototype insofar as the general design, operation and performance. This requirement is NOT meant to preclude **Offeror** from offering new models or configurations which incorporate improvements in a current design or add functionality, but which in such new model or configuration may be new to the marketplace.

c. Include any and all accessories which may or may not be specifically mentioned herein, but which are normally furnished or which are necessary to make a delivered Product ready for its intended use. Such accessories shall be assembled, installed and adjusted such that the Product is ready for continuous operation at time of delivery.

d. Have assemblies, sub-assemblies and component parts that are standard and interchangeable throughout the entire quantity of a particular Product as may be purchased simultaneously by any individual **End User**.

a. Be designed and constructed using current industry accepted engineering and safety practices, and materials.

b. Be available for inspection at any time prior to or after procurement.

17. PRODUCT CODES

Unless otherwise addressed in Section B of this Invitation, the following requirements shall apply:

a. Each Product/Service offered shall be uniquely identified using an **H-GAC** Product Code, which shall be determined as described in Section B of this Invitation. **Offeror** shall offer ONLY ONE Product for any particular Product Code. For example, **Offeror** may wish to submit a bid for Product Code ABC and may have another offering that also meets the requirements for ABC. **Offeror** MAY NOT submit two offerings for ABC. The alternate offering that also meets the requirements for ABC must be offered as an option "upgrade/downgrade" to ABC on **Form E**.

b. Pricing for optional upgrades or downgrades to base bid items should be quoted as an "adder" or "deduct" amount as appropriate, to be applied to the offered price of the base Product Item listed on **Form D**.

c. Base bid items and their associated HGACBuy Product Codes are included in the Section B and/or on **Form D**.

d. Selection of Product Codes for which to submit an offer is at **Offeror**'s sole discretion.

18. SPECIFIC DESCRIPTIVE REFERENCES

Except for Base Product Items listed on **Form D**, any reference to a specific catalog, data sheet, form, brochure, model name or number, etc. used herein to describe an item such as an option or accessory is only descriptive and is not to be considered restrictive unless otherwise noted. Such references are normally used only to indicate a type, general description, level of quality and/or required performance standards.

19. MANUALS

Unless otherwise specified or superceded herein, each Product delivered under an **H-GAC** contract, and if applicable any options thereto, shall be supplied with at least one (1) copy of a safety and operating manual. The cost of any such manuals must be included in the base price for any Product Item offered hereunder. If more detailed and technically orientated parts and maintenance manuals are available for a Product or option, at a cost, they shall be offered as options on the *FORM* designated herein for such options, or elsewhere in the Response as may be directed herein.

20. STANDARD FEATURES & OPTIONS

The following requirements are applicable primarily to physical goods.

Standard Features

a. The stated minimum requirements for all Products listed herein include what **H-GAC** considers to be "standard" features. Even though such features might normally be offered as options rather than as standard, they are nonetheless considered to be standard in this Invitation, and must be included in the base price for any Product offered. Such features **SHOULD NOT** be offered as options except as deducts for their omission from the base Product.

b. If it is unclear in the Response that an **H-GAC** standard feature is included in the base price, it will be assumed that such is the case. If awarded a contract **Offeror** will be expected to sell the Product with all **H-GAC** specified standard features included in the base price.

c. Any feature or accessory normally offered by manufacturer as "standard" shall be considered a standard feature and shall be included in the base price of any offering, even though not specifically listed as a requirement in **H-GAC**'s specifications. Such features **SHOULD NOT** be offered as options except as deducts for their omission from the base Product.

Options - General

a. Options are considered to be any features or accessories, other than **H-GAC**'s and Manufacturer's "standard" features or accessories.

b. Options should be offered on the *FORMS* designated for quoting options. Each option should be listed and described on a separate line, and should include any Manufacturer's/Dealer's code number. If no Manufacturer's/Dealer's code number exists, **Offeror** should create one.

c. Prices for all offered options shall be assumed to include any installation or mounting required to make it a fully functional component of the Product, unless otherwise stated in **Offeror's** response.

Required Options

a. Product specifications in this Invitation may include **H-GAC** "Required Options". If so, **Offeror** must quote a price for ALL such options, and, if there is an **H-GAC** Option Code provided in this Invitation for such options, it MUST be used as part of the description.

b. For any specific "Required Option", **Offeror** may quote an equivalent so long as its design and performance are as good as, or better than, the specified option item. Responses which do not include pricing for Required Options may be considered non-compliant.

Other Options

a. "Suggested" or "Other" options may be listed for any particular Product in this Invitation, and **Offeror** is encouraged to quote pricing for such options. The extent of offered options in any response may be taken into consideration as part of the award criteria, at **H-GAC**'s sole discretion.

b. **Offeror** is encouraged to include options for non-equipment items that may be applicable to a sale, such as: Extended Warranties, Maintenance Agreements, Buy-back or Trade-In Agreements, Out-of-state Delivery Charges, Quantity or Special Discounts, Extended Training Classes, etc.

Published & Unpublished Options

a. H-GAC Cooperative Purchasing Program (Program) contracts are awarded through a public competitive bid or proposal (RFP) process. Further to that process, Program policy considers an 'option' listed and priced in a bid or RFP Response: (1) To be a "**Published Option**"; (2) To be part of any awarded contract; and (3) To be available for purchase by Program members separately and independently from associated base line items. However, since Published Options may have not been subjected to the same scrutiny as the associated base line items, it cannot be concluded they were directly competed. Therefore, pursuant to Local Government Code 252.021(a), purchase of a published option costing more than $50,000 shall not be allowed. Furthermore, **H-GAC** reserves the right at its sole discretion to disallow purchase of any Published Option through the Program if deemed contrary to the intent of the law.

b. Any option that has not been listed and priced in the Response is considered to be an "**Unpublished Option**". Unpublished Options may be sold, but only in connection with the sale of a base Product Item, and only insofar as the total cost of all Unpublished Options remains below twenty five percent (25%) of the total summed cost of the base Product(s) plus any Published Options.

c. No Published or Unpublished Option may be sold which essentially converts a Product such that it competes with a Product Item awarded to another contractor.

21. WARRANTIES, SALES & SERVICE

Unless otherwise addressed in Section B, the following requirements shall apply:

a. Offeror must be a properly franchised dealer authorized to sell and service, including warranty service, all products offered and sold in response to the bid invitation or under any **H-GAC** contract.

b. **Offeror** shall provide detailed Parts and Labor Warranty information with the Response. If **Offeror** submits a warranty with the Response which does not meet the minimum requirements herein, **Offeror** agrees by submission of a Response that such warranty shall be considered to be amended to meet those minimums.

c. Warranties shall be manufacturer's standard and shall be inclusive of any other warranty requirements which may be stipulated elsewhere herein.

d. Any warranties offered by a dealer shall be in addition to the manufacturer's standard warranty, and shall not be a substitute for such. **Offeror**'s base price for any Product shall be inclusive of the standard warranty.

e. Complete warranty information will be supplied to **End User** with each Product sold.

a. Warranties need not apply to normal maintenance service or adjustments, or to any product reasonably shown to have been repaired or altered in any way so as to affect its stability, or to any product which has been subject to misuse, negligence, or accident.

f. **Offeror/Contractor** is encouraged to offer extended warranties as an option.

g. Neither **H-GAC** nor **End User** assume any warranty or liability on **Contractor**'s behalf unless made or assumed in writing, initiated by **Contractor**, and agreed to in writing by **H-GAC** or the **End User** respectively.

h. **Contractor** shall be responsible for the execution and effectiveness of all product warranty, and shall be the sole source for solution to problems arising from warranty claims. **Contractor** agrees to respond directly to correct warranty claims and to ensure reconciliation of warranty claims that have been assigned to a third party.

22. H-GAC ORDER PROCESSING CHARGE

H-GAC will levy an Order Processing Charge on **Contractor** for each sale done thru the **H-GAC** contract, **with the exception of orders for motor vehicles**. Any bid pricing submitted will be considered to include the Charge. The amount of the applicable charge shall be per the most current **H-GAC** schedule. For motor vehicle orders, the Processing Charge shall be levied on and paid by the **End User**.

23. PRE-PAYMENTS AND DISCOUNTS

a. Progress, pre-payment and special discounts of any kind may be offered and detailed in the Response. Such discounts shall be clearly explained, but shall not be a determining factor in awarding contracts except in the case of tie offerings.

b. Quantity discounts applicable to similar Products sold to one or more **End User** Departments may be offered. Determination as to product similarity shall rest solely with **Contractor**.

c. For specific purchases, any proposed quantity, pre-payment or special discounts shall be clearly shown on the Contract Pricing Worksheet.

24. INSPECTION / TESTING

All Products sold pursuant to this Invitation shall be subject to inspection/testing by or at the direction of **H-GAC** and/or the ordering **End User**, either at the delivery destination or the place of manufacture. In the event a Product fails to meet or exceed all requirements of this Invitation, and unless otherwise agreed in advance, the cost of any inspection and/or testing, shall be borne by the **Contractor**.

25. PRODUCT DELIVERY

Unless otherwise addressed in Section B, the following requirements shall apply:

a. Title to goods, and responsibility and liability for loss and/or damage in shipping pass to **End User** at the delivery destination after receipt and acceptance have taken place. Cost of shipping/delivery shall be paid by **End User** unless otherwise agreed to by **Contractor**. If **Contractor** will be paying for shipping/delivery, shipping terms must be "F.O.B. Destination, Freight Prepaid". If **End User** will be paying for shipping/delivery, shipping terms must be “F.O.B. Destination – Freight Collect”.

b. The details for the application and calculation of shipping and delivery charges must be stated in the Response on **Form E**. Any freight, shipping or delivery charged to **End User** will be prepaid and added to the invoice, and will be clearly shown an any Contract Pricing Worksheet or other quote presented to the **End User**.

c. The estimated delivery time after receipt of order (ARO), inclusive of Saturdays, Sundays and holidays, for all Products offered must be stated in the Response. Actual delivery for any particular order must be confirmed with **End User** at time of order placement, and must be stated clearly on the Contract Pricing Worksheet.

d. **Contractor** shall be responsible for delivery and Acceptance according to the requirements of the Contract and the Purchase Order.

e. Contractor shall advise **End User** prior to making any shipment/delivery, and shall make such shipment/delivery in accordance with **End User**'s requirements, providing only that such arrangements do not contravene any requirement of the **H-GAC** contract unless agreed to by **Contractor**.

f. The execution of all required tests, certifications and/or licensing, and costs thereof, shall be the responsibility of **Contractor**. Upon request by **End User** or **H-GAC**, **Contractor** shall provide any documentation or certification related to such tests, certifications or licensing.

26. OFFERED PRODUCT ITEM VARIANCES

Any variance in the specifications or performance of Products offered pursuant to this Invitation shall be acceptable to **H-GAC** only insofar as it MEETS or EXCEEDS the specifications and requirements of this Invitation.

27. REQUIREMENTS FOR SUBMISSION OF A RESPONSE

Unless otherwise addressed in Section B, the following requirements shall apply:

a. Responses shall be submitted in two complete printed sets including an Original and one (1) Copy in separate "hard side" three-ring binders. The outer spine of each binder shall be labeled showing this Invitation No., **Offeror** Name, and either "Original" or "Copy", as applicable. The Original printed response will be

considered to be the binding Response in case of any conflicts between printed copies and electronic copies. Except for required forms, **H-GAC** Invitation documents should not be included in the Response.

b. The Original and the Copy shall be submitted complete, except that the Electronic Media should be submitted only with the Copy.

c. All required **H-GAC** *FORMS* and documents shall be properly completed, without exception or **Offeror**'s Response may be deemed non-compliant. **Offeror** may not modify the format of any **H-GAC** *FORM* in any way. **Offeror** may photocopy or print blank *FORMS* as needed. Information submitted on the printed copies of the *FORMS* may not be handwritten except for signatures and initials. It is **Offeror**'s responsibility to insure that printed *FORMS* are clear and legible. Handwritten and illegible entries may be rejected. **Offeror**'s printed, stamped or typed name shall appear on every *FORM* submitted in the Response.

d. **The entire response submission** shall also be submitted on electronic media, including all required **H-GAC** *FORMS*. **Offeror** is strongly advised to make and work with copies of the original electronic *FORMS*. The originals can then be used to make additional electronic or printed copies of the blank *FORMS*. Signatures are not required on the electronic *FORMS*.

e. The Response shall include ample written evidence, in the form of technical specifications, cut/tear sheets, brochures, pictures, drawings, etc., to demonstrate that all specifications herein have been met and/or exceeded.

f. The Response shall include, in any format desired, an overview of the **Service Organization** which will support Products sold under any **H-GAC** contract. The overview must include facility locations, phone numbers and Service Manager names, as well as the following:

- The procedure to be used by an **End User** requiring repairs.
- Typical turn-around time on repairs.
- Service Department days and hours of operation.
- Number of qualified / factory trained service personnel normally on hand.
- Description of the parts inventory on hand.
- Training services, facilities and personnel available.

g. Responses shall be enclosed in a sealed package(s) addressed to the Houston-Galveston Area Council, Cooperative Purchasing. The following information shall be stated on the exterior of the package(s):

- Name and address of **Offeror**.
- Date and hour of public response opening.
- Bid/Proposal Invitation number.
- The statement: **"SEALED BID/PROPOSAL, DO NOT OPEN IN MAIL ROOM"**.

H-GAC shall not be responsible for any Response not properly labeled.

h. Submission of a COMPLETE Response by telegraphic or electronic transmission is not acceptable. However, Responses may be modified by telegraphic or electronic notice if such notice is received prior to the deadline for submission.

i. Samples, when required, shall be submitted within the time specified and at no expense to **H-GAC**. If not destroyed or consumed during testing, samples will be returned upon request at **Offeror**'s expense.

j. **Offeror** shall provide firm contract pricing for all Products and Options being offered.

k. If applicable, responses shall include copies of all current licensing which may be required by the Texas Motor Vehicle Division for execution of sales pursuant to any contract with **H-GAC**.

l. Due to the complexity of responses and to aid in evaluation, the Response should contain **ALL** required information in tabbed sections as detailed below. Omission of any required *FORM* or information will be sufficient grounds for **H-GAC** to consider your response to be non-compliant.

m. **First Section:**

- **Form(s) A – Offeror Identification & Signatory:** Identifies the offering party(ies), and should be completed by each party to the Response. If awarded, a contract will be executed with each.
- **Form B – Historically Underutilized Business Enterprises:** Used to collect information about disadvantaged and minority suppliers and subcontractors, and to commit **Offeror** to working with Participants toward their program goals.
- **Form C – Response Checklist:** Certification, and also an aid, to insure that all required information has been included in your Response.

- **Form W-9 – Request for Taxpayer Identification Number and Certification**: Should be completed by each party to the response.
- **Form CIQ – Conflict Of Interest Questionnaire:** Chapter 176 of the Texas Local Government Code requires vendors and consultants contracting or seeking to contract with **H-GAC** to file a Conflict of Interest Questionnaire (CIQ) if they have an employment or other business relationship with an **H-GAC** officer or an officer's close family member. The required questionnaire is located at the Texas Ethics Commission website: http://www.ethics.state.tx.us/whatsnew/conflict_forms.htm. It is Bidder's responsibility to download the form and furnish a completed copy with the Response.
- **Form 1295 – Certificate of Interested Parties** – Must be filled out electronically with the Texas Ethics Commission's online filing application, printed out, signed and provided from each entity that has submitted a Form A for this submission.
- **House Bill HB 89 Verification Form** – completed and signed and provided from each entity that has submitted a Form A for this submission.
- **References,** formatted as described elsewhere herein.
- **Service Organization Document**, formatted as described elsewhere herein.

Second Section:

- **Form D – Offered Items Pricing:** For Bids, contains the list of the Product Items covered by this Invitation. Select the items offered and fill in the price for each. (For RFPs, follow the instructions in Section B as this **Form** may or may not be used.)
- **Form E – Published Options:** Used to list and price all offered options. List, each on a separate line, all upgrades, downgrades, optional equipment, features, accessories and services which you desire to sell thru the **H-GAC** contract, if awarded. Published catalogs/price sheets may be listed, along with the discount structure that will apply. (For RFPs, follow the instructions in Section B as this **Form** may or may not be used.)

Third Section:

- Technical Specifications, Product Brochures, Tear Sheets, Cut Sheets, Strippers, etc. which clearly list and show all the standard features and capabilities of each Product Item offered on **Form D**.
- Warranty Documentation, as described elsewhere herein, for all items offered.

Fourth Section:

- Copies of any applicable Texas MVD Licenses.
- Electronic Media, containing the complete response including all required *FORMS*, stored in a pouch or an envelope such that it will not fall out of the binder. (Required in 'Copy' only, not in 'Original'.)

n. By submittal of Response, **Offeror** certifies to the best of its knowledge that all information is true and correct.

28. CLARIFICATION TO SPECIFICATIONS & REQUIREMENTS

a. If **Offeror** is in doubt as to the meaning of any item in this Invitation, a written request for clarification may be submitted to **H-GAC** up to fifteen (15) calendar days prior to the deadline for response submission. **H-GAC** shall not be responsible for late delivery. Requests may be transmitted by FAX or e-mail to the assigned Specification Specialist, and should clearly reference this Invitation number and the specific page and paragraph in question. If there are multiple questions, they should be stated separately and numbered.

b. Any interpretation of Invitation documents, if made, will be by written Addendum duly issued. A copy of such Addendum will be mailed or delivered to each person officially on record as having been sent a copy of this Invitation. **H-GAC** will not be responsible for any other explanation or interpretation of the Invitation documents made or given prior to the award of the contract.

c. Any objections to the Invitation documents must be filed in writing with **H-GAC** on or before fifteen (15) calendar days prior to the deadline for submission of responses.

d. Prospective offerors are advised that, after a draft specification has been issued, the Pre-Bid/Proposal Conference is the primary forum through which comments and suggestions may be offered for consideration by **H-GAC** prior to issuance of the final invitation and specifications.

e. All best efforts have been made to insure that the product/service descriptions and associated specification information in Sections B & C are correct, and adequate time has been given to prospective Offerors to point out mistakes. However, if an error remains and is caught by Offeror before the scheduled bid/proposal opening, Offeror shall make note of the required correction in the Response, and shall also notify **H-GAC** prior to the opening of responses.

29. INCONSISTENT INFORMATION

H-GAC review of responses supplied on **H-GAC** *FORMS* is a significant part of the evaluation process. **Offeror** shall state clearly all information required on the *FORMS*. **Offeror**'s information supplied on the *FORMS* shall take precedence in the event any standard "boilerplate" type language included in **Offeror**'s response is inconsistent with the information supplied by **Offeror** on the **H-GAC** *FORMS*. In all cases, information on **H-GAC**'s printed *FORMS* supplied as part of **Offeror**'s response shall take precedence over information supplied on electronic media.

30. REJECTION OF RESPONSES

a. **H-GAC** may reject a response if:
   - **Offeror** misstates or conceals any material fact in the Response, or if,
   - **Offeror** does not strictly conform to law or the requirements of this Invitation.

b. **H-GAC** may reject any and all responses, and may reject any part of a response.

c. **H-GAC, at it's sole discretion,** may also waive any formalities or irregularities in any response, or ask for corrected information except for pricing.

d. **The following occurrences require disqualification of the bid/proposals:**
   - Unsigned or unauthorized signatures on bids/proposals;
   - Bids received after the date and time for opening
   - Bids where prices are conditional on award of another bid or are subject to unlimited escalation

e. **H-GAC** may refuse to award a contract to or enter into a transaction with an apparent low bidder if that bidder is indebted to **H-GAC.**

31. WITHDRAWAL OR MODIFICATION OF RESPONSES

Once received by **H-GAC**, responses may be modified or withdrawn prior to the submission deadline only if the request to do so is in writing submitted by **Offeror's** authorized representative. Responses and requests for modification received after the submission deadline will not be accepted. Requests for response withdrawal received after the submission deadline will be accepted if the request to do so is in writing submitted by **Offeror's** authorized representative.

32. RESPONSE EVALUATION

For Bid Responses:

a. Section B will state whether the contract will be awarded to the lowest responsible bidder or to the bidder who provides goods or services at the best value for **H-GAC** and its participants.

b. If the contract will be awarded based on best value, Section B will state any relevant criteria which **H-GAC** will consider.

c. For each offered Product Item, **H-GAC** may use the offered price, prices for Required Options, and the prices of selected common Published Options to determine the lowest responsible offer.

d. Failure of **Offeror** to submit pricing for **frequently purchased** options and any **H-GAC** required options may cause response to be considered non-compliant at **H-GAC**'s sole discretion.

For Proposal Responses:

e. **H-GAC** will evaluate proposals as detailed in Section B.

f. By submission of a Response Offeror indicates acceptance of the evaluation technique, and recognizes and accepts that **H-GAC** may at it's sole discretion make subjective judgments during the evaluation process.

33. ORDER OF PRECEDENCE PRIOR TO CONTRACT AWARD

In the event of conflict between this document and any references or documents cited herein, this document shall take precedence prior to contract award.

34. AWARD OF CONTRACT

a. **H-GAC** reserves the right to accept or reject any Product Item or option offered. Additionally, all options included in Offeror's response and accepted by **H-GAC** are understood to be included in any contract.

b. **H-GAC** shall award contract(s) for line items or groups of line items, at its sole discretion.

c. With authority granted by the **H-GAC** Board of Directors, a written contract shall be presented to the successful **Offeror**(s) and shall be subject to acceptance by the successful **Offeror**(s) within forty-five (45) calendar days after presentation by **H-GAC**. If a contract is not executed within forty-five (45) calendar days, **H-GAC** may rescind the contract offer and award a contract to the next **Offeror** in order of rank as determined by **H-GAC**.

d. Delivery time and prompt payment discounts, including time allowed for payment, may be considered in tie-breaking of offers which are judged by **H-GAC** to be equal in all other criteria.

e. The contract shall include the following documents in the stated order of precedence:

1st The contract document signed by **H-GAC** and **Offeror**.
2nd This Invitation and all specifications referenced herein.
3rd **Offeror**'s response to this Invitation.

35. PRO-FORMA CONTRACT

This Invitation includes a Pro-Forma (sample) Contract which successful offerors will be expected to sign. The actual final contract will be the same or nearly the same as the Pro-Forma. NOTE: Successful Offerors MAY NOT process any purchase orders until the contract documents have been executed and returned to **H-GAC**.

36. CONTRACT TERM

The contract shall be in effect throughout the period stated elsewhere in the contract documents, and thereafter until such time as any outstanding orders against the contract have been fulfilled. The contract may be extended if deemed by **H-GAC** to be in the best interests of the Program, and subject to mutual agreement of the parties.

37. PERFORMANCE & PAYMENT BOND

H-GAC's contractual requirements DO NOT include a Performance & Payment Bond (PPB), and offered pricing should reflect this cost saving. However, **Contractor** must be prepared to offer a PPB to cover any specific order if so requested by **End User**. **Contractor** shall quote a price to **End User** for provision of any requested PPB, and agrees to furnish the PPB within ten business (10) days of receipt of **End User's** purchase order.

38. CHANGE ORDERS

End Users shall have the right to make additions by addenda for the purpose of clarification or inclusion of additional specifications, qualifications, conditions, etc. Any such addenda shall be made in writing and agreed upon by **Contractor** and the **End User** agency prior to issuance of any Change Order. A copy of any such Change Order shall be furnished by **Contractor** to **H-GAC**.

39. DUPLICATION OF TERMS OR STATEMENTS

Where statements or terms are duplicated or are extremely similar, **H-GAC** and the **End User** reserve the right to use the statement or term most favorable to **H-GAC** and/or the **End User**.

40. PUBLICITY

H-GAC encourages contractors to "market" the Program, and can provide some information and artwork to be used in published promotional materials. However, any publicity or published material released by **Contractor** referencing the contract, whether in the form of a press release, brochure, photographic coverage, or verbal announcement, shall be issued only with prior review and approval by **H-GAC**.

41. TAXES

HGAC and **End User** participants are either units of government or qualified non-profit agencies, and are generally exempt from Federal and State sales, excise or use taxes. **Offeror** shall not include any such taxes in the Response. Further, it shall be the responsibility of **Contractor** to determine the applicability of any taxes to a particular order and act accordingly. Exemption certificates will be provided upon request.

42. DRUG FREE WORKPLACE

Contractor shall provide notice to its employees and sub-contractors, as required under the Drug-Free Workplace Act of 1988. A copy of **Contractor's** Drug-Free Workplace policy shall, on request, be furnished to any **End User**.

43. PRODUCT NOTICES & MAILINGS

H-GAC is NOT the owner of Products sold pursuant to this Invitation, but acts only in the capacity of purchasing agent. In that regard, **Contractor** accepts sole responsibility for insuring that notices and mailings, such as Safety Alerts, Safety Recall Notices and Customer Surveys, are sent directly to the **End User** of record.

44. HANDLING OF ORDERS & PAYMENTS

In general, orders and payments will be handled as described below. More specific instructions and information regarding handling of purchase orders and the Order Processing Charge may be provided after contract award. Established procedures may be changed at any time by **H-GAC** as may be dictated by efficient business practice. The particulars of any sale, e.g. specific products, pricing, delivery, warranty, etc., will be in strict accordance with the terms and conditions of this Invitation and the specific contract awarded to **Contractor**. Beyond that:

a. For any particular procurement to be made under the provisions of an **H-GAC** contract, **End User** and **Contractor** will discuss requirements and agree as to what will be provided.

b. **Contractor** will prepare a Contract Pricing Worksheet and provide it to **End User**. The Worksheet will list everything being purchased including the base bid item(s), all published and unpublished options and the delivery date. All pricing shall be per the current contract.

c. **End User** will send a purchase document to **Contractor**, which **Contractor** will send **H-GAC** together with the Contract Pricing Worksheet. **NOTE: Contractor** agrees not to offer, agree to or accept from End User any terms or conditions that conflict with or contravene those in **Contractor**'s **H-GAC** contract, except for pricing discounts.

d. **H-GAC** will prepare an "Order Confirmation" and send it to **End User** and to **Contractor**. The Order Confirmation verifies that **Contractor** has a valid **H-GAC** contract and that the order is in compliance with the requirements of the **H-GAC** Cooperative Purchasing Program. **Contractor** will not ship any goods before receipt of both **End User**'s purchase document and **H-GAC**'s Order Confirmation.

e. On notification that **Contractor** has received an order, **H-GAC** will invoice **Contractor** for the applicable Order Processing Charge. **NOTE:** The Order Processing Charge is charged to **Contractor**, **EXCEPT in the case of motor vehicles**. For all sales of motor vehicles the Order Processing Charge is levied on the **End User**, collected by **Contractor**, and remitted to **H-GAC** by Contractor.

f. **Contractor** will deliver products/services ordered, and will invoice **End User** for products/services accepted by **End User**. (See other Sub-Section herein dealing with Product Delivery.) **Contractor** will not invoice before shipment has been made.

g. **End User** will pay **Contractor** for those products and/or services ordered which have been received and accepted. Under no circumstances shall any check be made payable to a representative or agent. Should a representative or agent submit an invoice to **End User** for any cost related to a purchase order issued to **Contractor** for products/services covered by an **H-GAC** contract, such invoice shall be forwarded to **Contractor** and **Contractor** will take action to correct the error.

h. Upon delivery of any product/service by **Contractor** and acceptance by **End User**, **Contractor** shall remit to **H-GAC** the full amount of the applicable Order Processing Charge in accordance with the payment terms established in the **H-GAC** contract. Note, the Order Processing Charge is due whether or not **Contractor** has ever received an invoice from **H-GAC**. Sales executed based on the particulars of **Contractor**'s **H-GAC** contract, without payment of the Order Processing Charge, may constitute fraud.

45. PRICE CHANGES

a. Any permanent increase or decrease in offered pricing for a base contract item or published option is considered to be a price change. Temporary increases in pricing by whatever name (e.g. 'surcharge', 'adjustment', 'equalization charge', 'compliance charge', 'recovery charge', etc.), are also considered to be price changes.

b. Except in the case of contracted published catalogs and price sheets, prices for Base Bid Items and Published Options are expected to be held firm for a minimum of 90 days from the date an awarded Offeror signs the H-GAC contract. Thereafter, changes will be considered if accompanied by justifying documentation satisfactory to H-GAC. For published catalogs and price sheets which are on an H-GAC contract, requests to amend the contract to reflect any new published catalog or price sheet may be submitted whenever the manufacturer publishes the new document. Any such request must include the new catalog or price sheet.

c. If **Contractor** routinely offers discounted contract pricing, **H-GAC** may request **Contractor** to accept amended contract pricing equivalent to the routinely discounted pricing.

d. No price change will be allowed unless it has been reviewed and approved by **H-GAC** in writing. **Contractor** must have received **H-GAC's** written approval of any change prior to charging the new price or using it in any quotation prepared for an End User.

e. Price change requests must be submitted to **H-GAC** in writing and must be received by **H-GAC** at least thirty (30) calendar days prior to the requested effective date of the change, and must state the time period for which the requested pricing will remain firm.

f. Price change requests shall include **H-GAC Forms D** and **E**, or whatever documentation was used to submit pricing in the original Response hereto, showing all affected items with current contract price, requested price, and percentage change shown clearly for each. This documentation should be submitted in MSExcel format to facilitate analysis and updating of the website.

g. Price change requests **MUST** be supported with substantive documentation (e.g. manufacturer's price increase notices, copies of invoices from suppliers, etc.) showing that **Contractor's** actual costs have increased. The Producer Price Index (PPI) may be used as partial justification, subject to approval by **H-GAC**, but no price increase based solely on an increase in the PPI will be allowed.

h. All Products shall, at time of sale, be equipped as may be required under any then current applicable local, state, and federal government requirements. If, during the course of any contract, changes are made to such government requirements which cause a manufacturer's costs of production to increase, **Contractor** may increase Product pricing to the extent of **Contractor's** actual cost increase. The increase must be substantiated with support documentation acceptable to **H-GAC** prior to taking effect. Modifications to a Product required to comply with such requirements which become effective after the date of any sale shall be the responsibility of the **End-User**.

i. In cases involving contract extensions exceeding sixty-one (61) days beyond the stated expiration date of the contract, **Contractor** may request a price change based on the same conditions as stated above. However the thirty (30) day prior notice is waived and **H-GAC** will consider the request immediately on receipt.

j. H-GAC reserves the right to accept or reject any price change request. Acceptance, if granted, will be in writing and the approved changes will become part of the contract.

46. CONTRACT ITEM CHANGES

a. If a manufacturer discontinues a contracted item, that item will automatically be considered to be deleted from the contract with no penalty to Contractor. However, **H-GAC** may at it's sole discretion elect to make a contract award to the next low offeror for the item, or take any other action deemed by **H-GAC** to be in the best interests of **End User**s, at its sole discretion.

b. If a manufacturer makes any change in a contracted item which does not affect the contract price, Contractor shall advise **H-GAC** of the details. If the 'new' item is equal to or better than the originally contracted item, the 'new' item shall be approved as a replacement. Otherwise **H-GAC** may allow or reject the change, or take any other action deemed by **H-GAC** to be in the best interests of **End User**s, at its sole discretion. If the change is rejected there will be no penalty to Contractor.

c. If a manufacturer makes any kind of change in a contracted item which affects the contract price, Contractor shall advise **H-GAC** of the details. **H-GAC** may allow or reject the change at its sole discretion. If the change is rejected there will be no penalty to Contractor. However, **H-GAC** may elect to make a contract award to the next low offeror for the item, or take any other action deemed by **H-GAC** to be in the best interests of **End User**s, at its sole discretion.

d. In the case of specifically identified catalogs or price sheets which have been contracted as base bid items or as published options, routine published changes to products and pricing shall be automatically incorporated into the contract. However, **Contractor** must still provide thirty (30) calendar days written notice and an explanation of the changes to products and pricing. **H-GAC** will respond with written approval.

47. FORCE MAJEURE

If either party shall be wholly or partially prevented from the performance of any contractual obligation or duty by reason of or through strikes, stoppage of labor, riot, fire, flood, acts of war, insurrection, accident., order of any court, act of God, or specific cause reasonably beyond the party's control and not attributable to its neglect or nonfeasance, in such event, the time for the performance of such obligation or duty shall be suspended until such disability to perform is removed. Determination of Force Majeure shall rest solely with **H-GAC**..

48. PERFORMANCE UNDER CONTRACT

H-GAC is committed to insuring that **Contractor** provides effective and efficient service to all Participants in the Cooperative Purchasing Program, and expects that certain Performance Conditions must be met. Failure to meet these conditions may result in contract termination. In that regard, **Contractor shall:**

a. Appoint a dedicated representative to be the contact person and focal point for all matters relating to End User quotations and orders. The representative shall have: A toll free phone number with voice mail; A fax number; A working e-mail address; and A postal address.

b. Insure that the representative timely monitors all communication modes listed above, and promptly responds to communications from **End User**s and **H-GAC** in any of these modes. Phone calls will be promptly returned, in any event not later than the next business day. Acceptable failure will be due only to Force Majeure.

c. Maintain sufficient qualified staff to promptly process all communications from **H-GAC** or **End User**s, and to efficiently, effectively and accurately service all requirements of the contract.

d. As may be requested by **H-GAC**, replace any staff members who are not providing the service and expertise deemed necessary by **H-GAC** for acceptable support of **End Users**.

e. Properly prepare and provide to **End User** a Contract Pricing Worksheet, or a quotation in other format as approved by **H-GAC**, for each and every order that is to be executed.

f. Furnish, on request of **H-GAC**, reasonable data, forms and graphic material to be used in brochures or other print media, or on **H-GAC**'s website.

g. Allow access to **H-GAC** authorized personnel for inspection of operating facilities, and auditing of purchase orders during the contract period, and for a period extending thru the completion of any outstanding orders. Site inspection may be arranged not less than ten (10) calendar days prior, shall include the names of all participants, and shall be at no expense to **Contractor**.

h. **Reporting Requirements:**
   - **Contractor** agrees to submit written quarterly reports to **H-GAC** detailing all transactions during the previous three month period. Such reports shall include, but are not limited to the following:
   - **End User** name
   - Product/Service purchased, including Product Code if applicable
   - End User Purchase Order Number
   - Purchase Order Date
   - Product/Service dollar amount
   - **HGACBuy** Order Processing Charge amount
   - Reports must be provided to **H-GAC** in MSExcel or other acceptable electronic format, and are due by the 30th day of the month following the applicable quarter being reported.

i. Should **Contractor** default in providing Products or Services as required by this Invitation and the contract, recourse may be exercised thru cancellation of the contract and other legal remedies as may be appropriate.

49. CONTRACTOR ORIENTATION/TRAINING

H-GAC believes that **Contractor's** familiarity with the operational policies and requirements of the Cooperative Purchasing Program is a key factor in achieving **End User** satisfaction. In that regard, the Contact Person listed on **Form A**, or an alternate, shall be required to participate in an **H-GAC** vendor orientation/training as soon as

possible after contract award. In addition, any other of Contractor's staff who will be involved in any way with the HGACBuy Program should participate in orientation. The orientation may be presented as a teleconference or webinar, or may be held in **H-GAC**'s offices as may be determined by **H-GAC** and Contractor to be the most efficient and effective form of delivery.

50. LEGAL & CONTRACTUAL REMEDIES

RESOLUTION OF PROTESTED SOLICITATIONS AND AWARDS

Procedure

Any actual or prospective **Offeror** or **Contractor** who is aggrieved in connection with a purchase transaction may file a grievance. The grievance may be filed at any phase of the procurement. In order for an above mentioned party to enter the grievance process, a written complaint must be sent to the Chief Operations Officer (COO) of **H-GAC** by certified mail which identifies the following:

1. Name, mailing address and business phone number of the complainant.
2. Appropriate identification of the procurement being questioned.
3. A precise statement of reasons for the protest.
4. Supporting exhibits evidence or documents to substantiate any claims.

The grievance must be based on an alleged violation of **H-GAC**'s Procurement Procedures, a violation of State or Federal law (if applicable), or a violation of applicable grant or contract agreements to which **H-GAC** is a party. Failure to receive a procurement award from **H-GAC** in and of itself does not constitute valid grievance. Upon receipt of grievance, the Chief Operations Officer will initiate the informal resolution process.

Expedited Resolution

The Procurement Officer or Departmental Director responsible for the solicitation shall contact the complainant and all interested parties and attempt to resolve the allegations informally within ten (10) working days from date of complaint. If the allegations are successfully resolved by mutual agreement, documentation will be forwarded to the Chief Operations Officer of the resolution with specifics on each point addressed in the original complaint.

If the Procurement Officer or Departmental Director is not successful in resolving the allegations, the complaint along with the comments will be forwarded to the Chief Operations Officer immediately. The Chief Operations Officer will review all documentation. All interested parties will be given written notice of the date, time, and place of the hearing and an opportunity to present evidence. A written decision will be issued within five (5) working days after the hearing along with notice of appeal rights.

Appeals

The complainant may appeal the Chief Operations Officer's decision by submitting a written appeal, within five (5) working days, to the Executive Director of **H-GAC**. The Executive Director, upon receipt of a written notice of appeal, shall contact the complainant and schedule a hearing within ten (10) working days. The Executive Director of **H-GAC** has the option of appointing a Hearing Officer to preside over the hearing. If appointed, the Hearing Officer shall conduct a hearing and forward a summary and recommended resolution to the Executive Director.

The decision reached by the Executive Director or his designee shall be final and conclusive. This decision will be forwarded to the complainant in writing within thirty (30) working days.

The **Contractor** may, if it elects to do so, appeal the final and conclusive decision of the Executive Director to a Court of competent jurisdiction.

RESOLUTION OF CONTRACT DISPUTES

Upon breach or default, **H-GAC** shall give the **Contractor** written notice of default. If the default is not remedied, within a reasonable specified time from date of notification, to the satisfaction and approval of **H-GAC**, default will be declared.

Upon breach of contract or default, **H-GAC** may exercise any and all of its rights afforded by law, including but not limited to those referenced in the General Contract Provisions.

SOLICITATIONS OR AWARDS IN VIOLATION OF THE LAW

Contracts awarded in violation of the competitive process or otherwise in violation of the law are voidable by **H-GAC**.

51. NATIONWIDE SALES OPPORTUNITIES

HGACBuy provides purchasing services to local governments qualifying non-profits throughout the nation, and desires to make established contracts available to them wherever and whenever practicable. Therefore, once a contract is awarded, **Contractor** is expected to expand the scope of its marketing effort to include sales to **End User**s in all areas of the United States, and/or to assign any **H-GAC** contract to another contractor(s) as deemed appropriate by **H-GAC** in the interest of its End Users.

- **Contractor** may sell through **HGACBuy** anywhere subject to compliance with applicable laws and regulations. If the market structure in which **Contractor** operates requires a contract assignment for any particular sale, **H-GAC** will expect **Contractor** to assign the contract to a Manufacturer or to another Dealer(s). Such assignment must be approved by **H-GAC**.
- **Contractor**'s differential costs (e.g. transportation & delivery charges) and allowances (e.g. manufacturer's sales incentives) related to any sale may be charged to buyer.

End of Section A General Terms And Conditions

SECTION B - PRODUCT SPECIFIC REQUIREMENTS
For
FIRE SERVICE APPARATUS (ALL TYPES)

TABLE OF CONTENTS

Subsection **Page**

1. INTRODUCTION 1
2. STRUCTURE OF RESPONSE AND REQUIRED INFORMATION 2
3. GENERAL 4
4. DETAILED PRODUCT SPECIFICATIONS 4
5. LEGAL REQUIREMENTS 4
   - I. WILDLAND FIRE APPARATUS (BRUSH FIRE) 6
   - II. SPECIAL SERVICE FIRE APPARATUS (RESCUE) 7
   - III. AERIAL FIRE APPARATUS 8
   - IV. PUMPER FIRE APPARATUS 9
   - V. AIRCRAFT RESCUE & FIRE FIGHTING VEHICLES 10
6. EVALUATION AND BID AWARDS 10

1. INTRODUCTION

It is the intent of this bid solicitation to acquire pricing that will be used to establish purchase order contracts for various types of fire apparatus. These specifications describe various categories and specific types of Fire Apparatus, including minimum design and construction characteristics considered necessary to perform desired functions. Any products bid hereunder must meet or exceed all requirements listed or referenced in this Invitation. The basic Product categories covered by this Invitation are:

A. Aerial Fire Apparatus (Boom/Platform, Ladder, Ladder/Platform)

B. Wildland Fire Apparatus (Brush Fire)

C. Pumper Fire Apparatus

D. Special Service Apparatus (Rescue, Re-Hab, Hazmat, Mobile Command Center, etc.)

E. Pumper-Tanker / Elliptical-Tanker Fire Apparatus

F. Aircraft Rescue & Fire-Fighting Vehicles

Specific Product items have been pre-listed on **Form D** to be bid. If options (see below) other than the Base Product Items on **Form D** are being offered, they should be listed on **Form E** as upgrades, downgrades, or modifications to the base Product Item on **Form D** and should be priced using a differential amount based on the bid price for the base Product Item.

Note: All products listed on **Form D** shall be considered as base **models/units**. Bidders shall provide pricing on all options **where applicable** as they pertain but not limited to the following:

- Chassis/Cab Builder (manufacturer)
- Cab Designs (2/4 Door/Tilt Cab etc.)
- Cab/Body Sheet Metals (Galvanneal, Formed/Extruded Aluminum, Stainless Steel)
- Rear Axle Configuration (Single/Tandem/Tandem Front Steering/Triple Rear)
- Fire Pump Capacities & Mounting Locations (1250/1500/2500 GPM Pump/rear and mid-mounted)

- Body Configurations (Walk-In/Non-Walk-In Body)
- Aerial Categories (Construction/Turntable Positions/Aerial Device Functions)

Note: Customer Quotations – If Requested by an End User, the contractor shall be prepared to provide itemized pricing of the base specification (product code) allowing End User verification of credits/deducts due as a result of upgrades/downgrades to features included in the base specification.

2. STRUCTURE OF RESPONSE AND REQUIRED INFORMATION

The following core areas must be addressed specifically in any response to this bid:

- Proposals **(1-original and 1-copy)**, marked accordingly and in hard-sided 3-ring binders, shall be organized in tabbed sections, each containing ALL required information and/or FORMS as described below.

- In addition, complete responses shall also be provided in an electronic format such as; CD, thumb-drive, flash-drive, etc., such that the entire response can be uploaded to H-GAC's data system and be made available to End Users as may be requested. A single electronic copy of the solicitation will suffice and should be put with/in the copy binder.

- **Forms D & E** must be provided in an Excel format. **NOTE:** Keep in mind, the 3-ringed binder marked **ORIGINAL** is locked away and the entire evaluation process is done from the **COPY** as well as the electronic copy. Therefore, the 3-ringed binder marked copy must be an *exact duplicate of the original* including all the signatures and other markings.

Bidder shall provide the information described below, **labeled and tabbed to correspond with the designated Segment (Tab) Headings (A thru G) being bid**. The items in these Tabs (A-G) must be addressed completely.

** For example, **Tab D** will be tabbed and have three (3) items to be addressed (1, 2, 3) for this segment. **It is this information that will be evaluated and determine the proposers final score**.

Note: It is extremely important to set-up the binders as instructed. Responses not organized in the prescribed manner may be eliminated from consideration.

Bid Format

TAB - A. Proposer Identification / HUB Status / Checklist.

Forms A, B, C, G, H, W9, CIQ, 1295, HB89 & CCI. A **1295, W9, CIQ, HB89 & CCI** form must be provided from each entity that has submitted a **Form A** for this submission.

Tab B: Licensing & Electronic Media

Copies of all applicable Texas MVD Licenses. **Electronic Media** containing the complete response including all required FORMS, stored in a pouch or an envelope such as not to fall out of the binder. (Required in "Copy" only, not "Original")

Tab C: Products & Pricing

Bidder shall provide:

1. **Form D** (Offered Items Pricing) and **Form E** (Published Options). **Forms D & E** must be in an excel format.
    - Bidder must provide an electronic copy of the complete submission. Electronic copy to be put in the "Copy" binder.

2. Technical Specifications, Product Brochures, Tear Sheets, Cut Sheets, Strippers, etc. which clearly show all the standard features and capabilities of each Product Code bid on **Form D**.

3. Product information covering basic/standard warranty on equipment/products being offered.

Tab D: References

Further to the requirements for references as detailed in Section A, General Terms & Conditions, Bidder must provide references from **at least five (5) local government entities** which have purchased offered Products within the past two years. Information provided shall include, as a minimum:

1. Entity name
2. Contact person's name, address & phone number
3. Description and value of product(s) purchased

Bidder is encouraged to include any letters of endorsement which may be available from the supplied references. In any event, **H-GAC** reserves the right to consider historic information and other facts in its proposal evaluations, whether gained from this proposal, references, or any other source.

Tab E: Geographic Areas Served

1. **HGACBuy** is a nationwide program. Describe you Geographic Coverage so H-GAC may evaluate your ability to meet the needs of End Users throughout the United States.

2. Explain how you will market the **HGACBuy** program. Contractors are allowed to use the **HGACBuy** logo on brochures and other printed literature as well as websites and trade shows; subject to prior review and approval by H-GAC.

3. Detail your dealer network (nationwide) and describe how it will be used to promote this program and provide products/services to **H-GAC** members nationwide.

Tab F: Service Facilities & Personnel

1. Sales office locations.
2. Factory and Service Center Locations.
3. Technical and maintenance services provided after a sale, and on what basis
4. Warranties, policies and procedures for handling problems
5. Customer training provided, and on what basis?

Tab G: Customer Contract/Agreement Documents

Bidder shall provide copies of all documentation that a customer would be required to sign in the event a purchase is made. **H-GAC** shall review documentation relative to consistency with industry/Bidders' norms, and restrictiveness relative to the best interests of **H-GAC** members.

3. GENERAL

- **Third Party Specification(s) By Reference**

This specification is based on the latest editions of NFPA 1901 Standard for Automotive Fire Apparatus, NFPA 1906 Standard for Wildland Fire Apparatus and NFPA 414 Standard for Aircraft Rescue and Fire-Fighting Vehicles.

- **Form A's**

*An originally signed **Form A** from the all entities who are party to this submission and who should be offered a contract if this submission is successful. These entities should include the **Apparatus Manufacturer**, **Franchised Texas Dealer** and those dealers outside Texas who have current or past sales through the program (Note: All other sales outside Texas should be coordinated through the manufacturer when possible). In those cases where sales must go through a dealer due to franchise agreements, **Form A's** will be accepted from those dealers. For those only bidding conversions (i.e. brush trucks, light rescues), **Form A's** from in-state commercial chassis dealers for the underlying chassis make being quoted should be provided.*

- **Product Liability Insurance.**

The requirements for Product Liability Insurance in **Section A** are superceded as follows:

For Brush Fire Apparatus, Mini-Pumpers, Class A Pumpers, Heavy Duty Rescues, and HazMat & Mobile Command Centers, Bidder must have in place Product Liability Insurance with a Single Occurrence limit of at least $1,000,000 per seating position. For Aerial Apparatus, the requirement is $5,000,000 plus an additional $1,000,000 for each seating position. [e.g. An aerial ladder truck with six (6) seating position would require Product Liability Insurance with a Single Occurrence limit of $11,000,000.] For Slip-In Pump/Tank Units, the requirement is a Single Occurrence limit of $1,000,000 total. The General Aggregate limit for all Apparatus categories must be at least two times the Single Occurrence limit.

Note: Product liability listed above shall be the responsibility of the manufacturer.

- **Fire Apparatus Options, Accessories & Loose Equipment Offered.**

H-GAC bid specifications for fire apparatus include **FORM E "*Priced Options.*"** Equipment not offered in the bid response as Priced Options shall be classified as "Unpriced/unpublished" and may not be sold except as subject to the 25% restriction imposed by Texas statutes.

Note: All priced options (Form E) may be offered for separate purchase to End Users. Individual purchase orders for these options cannot exceed $50,000.00 (H-GACBuy Fee – 1.5%)

- **Product Code**

Each base Product item covered by this Invitation has been pre-listed on **Form D**, and is identified by a unique **H-GAC** alphanumeric Product Code. Bidder shall decide which line items to bid and shall fill in a bid price in the appropriate cell on **Form D**.

- **Training -** On the initial delivery of the fire apparatus, the contractor shall supply a qualified representative to demonstrate the apparatus and provide initial instruction to representatives of the purchaser regarding the operation, care, and maintenance of the apparatus and equipment supplied (NFPA 1901. 4.4.3).

Note: Contractor shall quote as an option on **Form E** any optional instruction/training regarding service/maintenance that may be available for the delivered apparatus.

- **Manuals –** The contractor shall supply at the time of delivery, at least **two (2) sets** of complete operations and service documentation covering the completed apparatus as delivered and accepted (NFPA Sec. 4.19.2.1)

- **COMMITMENT**

Offeror is required to make some basic commitments to insure the overall success of this program. By submission of a response, offeror commits to the following:

- **Corporate/Sales Commitment** – A commitment that **HGACBuy** has the support of senior management and that **HGACBuy** will be the primary government contracting vehicle when offering services/products awarded from this solicitation to eligible end users nationwide. A further commitment to aggressively market the program, both independently as well in partnership with **HGACBuy.**

- **HUB Participation** – It is **H-GAC's** goal to have Historically Underutilized Business Enterprise (HUB) participation in providing services under a contract. IF **Offeror(s)** intends to employ subcontractors in providing services/products related to this solicitation, **Offeror(s)** shall make and demonstrate a good faith effort to include HUB participation under a contract. **Offeror(s)** good faith effort shall include, but is not limited to the following affirmative steps (ref. 2CFR 200.321):

  1) Placing qualified small and minority businesses and women's business enterprises on solicitation list;

  2) Assuring that small and minority businesses and women's business enterprises are solicited whenever they are potential sources;

  3) Dividing total requirements, when economically feasible, into smaller task or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;

  4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;

  5) Using the services and assistance as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce;

NOTE: The term HUB as used in this solicitation is understood to encompass all programs/business enterprises such as Small Disadvantaged Business (SDB), Disadvantage Business Enterprise (DBE), Minority Owned Business Enterprise (MBE), Women Owned Business Enterprise (WBE) and Disabled Veteran Business Enterprise (DVBE).

- **Past Sales –** On Joint Bids, Contractors (excluding manufacturers) outside Texas must have sales on the current contract in order to participate in the upcoming solicitation.

4. DETAILED PRODUCT SPECIFICATIONS

The specifications detailed below for the various categories of apparatus are to be considered the minimum requirements unless there is a conflict with descriptive information detailed on **Form D**. In that event, the requirements of **Form D** shall govern.

Note: Bidder shall supply a spec/quote sheet for each product code bid on **Form D. These sheets should** detail what features are included in the price quoted on **Form D**.

5. LEGAL REQUIREMENTS

a) In addition to NFPA 1901,1906 and 414 (latest editions), all apparatus offered shall comply with all applicable federal (i.e. FMVSS, SAE, DOT, TREA, EPA, ASTM, AWS, ASNT, UL, & NFPA + etc.) and state {Texas Department of Transportation, Division of Motor Vehicles, Motor Vehicles Division Code [Latest version]} regulations and rules, and have all components incorporated into and/or on the apparatus as required for a Texas State Safety Inspection (i.e. front and rear mud flaps, inspection certificate, etc).

b) Bidders, shall have on file at H-GAC prior to, or included with the bid response, the correct license(s) as required by the State of Texas, Department of Transportation, Division of Motor Vehicles, Motor Vehicle Commission Code [latest edition] which is applicable to the bidder's operations.

c) The prescribed licenses will include the manufacturer/bidder, and any and all dealers and their representatives as may be required by the Motor Vehicle Division.

d) The Houston-Galveston Area Council (H-GAC) Cooperative Purchasing contract requires that you maintain all licensing required by the Texas Motor Vehicle Commission Code as may be applicable to your business. If at any time during the contract period such licensing lapses for any reason, you will be in default of the contract unless the TMVD issues a stay or waiver. It is your sole responsibility as the Contractor to maintain current licensing during the entire contract period. Failure to do so may result in contract termination.

H-GAC will continue to require that copies of all current TMVD licenses as may be applicable be submitted with bid responses. Contracts will not be awarded to any contractor who does not supply the required copies. After initial submission of the bid response, contractors will only need to furnish copies to H-GAC upon request.

Note: All units offered in this solicitation must be available to our Texas members through in-state licensed franchised motor vehicle dealers. Form A's are required with the submission from each dealer (e.g. apparatus, chassis as required) in order to receive a contract. Form A's will not be accepted after the bid has been submitted.

Note: It is the contractor's responsibility to ensure all apparatus sales are in accordance with the motor vehicle laws of the state where the acquisition is made.

I. WILDLAND FIRE APPARATUS (BRUSH FIRE)

A. WILDLAND/BRUSH FIRE APPARATUS -

In addition to the latest edition of NFPA Standard 1906, Products bid hereunder must also comply with all **H-GAC** specifications and requirements herein. The wildland fire apparatus covered by this Invitation are defined by the Product Codes that have been pre-listed on **FORM D**.

1. Minimum Standard Features Required in Base Product Item Bid:

a) Wildland/Brush Fire Apparatus Bids:

• Aluminum or Steel Flat Bed body style shall have mesh bulk head

• Utility body shall be of steel, aluminum or composite fiberglass laminate

• Composite Utility body shall be constructed of composite fiberglass laminate with closed cell structural PVC foam core. Comprising a laminate of ½" thick.

• Poly Utility body shall be ½" thickness copolymer sheet material.

• 150 gpm single stage, auxiliary engine-driven pump with pump panel (2 stage pumps to be quoted as optional on **Form E**). The pump operator's panel shall be located on the left side or rear of the apparatus.

• 300 gal polypropylene water tank (250 gal. on slip-on unit). Tank shall be polypropylene with lifetime warranty.

Note: Other sizes shall be offered as Priced Options on **FORM E.** Provide sizes up through at least 400 gal.

• 1 Transverse preconnect hose bed (minimum)

• 20 cu ft Compartmentation including, but not limited to, left and right sides and rear (12 cu ft for slip-on units)

• Heater/Defroster and Air Conditioning in Cab area

• Base Cab/Chassis GVWR – 13,000 lbs.

• V8 Diesel Engine

• 5 speed manual transmission (automatic transmission to be quoted as optional on **Form E**)

• Completed apparatus must be NFPA 1906 Compliant

(b) Self-contained, Slip-on Unit Bids:

• 100 gpm @ 100psi single stage, auxiliary engine-driven pump with pump panel

• 250 gal polypropylene water tank

• Hose reel, 150 ft. of 1" hose

• Slip-on Unit to be mounted on pickup supplied by End User OR H-GAC Contractor

2. Apparatus Accessories & Loose Equipment. Bid specification documents include ***Priced Option*** forms for bidder to list prices for specific optional engines, fire pumps, body changes, accessories, and loose equipment. Equipment not offered in the base bid or as an option shall be classified as *"Unpublished Options"* and subject to 25% cap permitted under *"Non-Published"* provisions for competitive bids. ***[See Terms & Conditions]***

3. Options to Base Bid for additional apparatus. A thorough listing of options is recommended. Examples of options to include on **FORM E** are:

(a) Options to Brush Fire Bids only:

• Alternate GVWR Chassis

• Gas engine (as well as other engine sizes)

• 4-wheel drive

(b) Options to Slide-In Unit Bids only:

• Different pump sizes (e.g. 150 gpm @ 100 psi)

• Different tank sizes (+/- increments of 50 gallons.)

These options are in addition to any and all other options listed in this document or H-GAC Forms included.

II. SPECIAL SERVICE FIRE APPARATUS (RESCUE)

In addition to the latest edition of NFPA Standard 1901, Products bid hereunder must also comply with all **H-GAC** specifications and requirements herein. The Products covered by this Invitation are defined by the Product Codes listed on **FORM D**.

1. Standard Features Required in Base Bid for a special service fire apparatus.

(a) Custom Cabs:

• Minimum four (4) SCBA seats in Tilt & Split Tilt cabs
• Minimum three (3) SCBA seats in Stationary cabs
Note: Additional SCBA seats are to be priced as options on **Form E**)
• Minimum 380 bhp diesel engine (optional engines to be priced on **Form E**)
• Allison EVS-3000 Automatic Transmission (optional transmissions to be priced on **Form E**)
• Front axle rating (min.) – 14,600 lbs. (stationary cabs), 16,000 lbs. (tilt cabs), 18,000 lbs. (split-tilt cabs)
• Single Rear axle rating (min.) – 24,000 lbs.
• Full Anti-Lock Braking System
• Power Steering
• ABS Braking System
• Heater/Defroster/Vent/Air Conditioning
• Constructed on standard straight frame rail or drop-pinch chassis.
• Fuel Tank – 50 gallon (minimum).

(b) Commercial Cabs:

• 2 Door Models (4 Door Models may be listed as options)
• 3 to 4 SCBA seats (depending on seating capacity) 4 Door Models only
• 300 to 330 bhp diesel engine (optional engines to be priced on **Form E**)
• Allison EVS-3000 Automatic Transmission (optional transmissions to be priced on **Form E**)
• Front axle rating (min.) – 12,000 lbs. (2-Door Cab)
• Single Rear axle rating (min.) – 21,000 lbs. (2-Door Cab)
• Heater/Defroster/Vent/Air Conditioning
• Constructed on standard straight frame rail chassis.
• Fuel Tank – 40 gallon (minimum).

(c) Commercial Cabs (Light /Medium)

• 2 Door Models (4 Door Models may be listed as options)
• 300 bhp diesel engine (optional engines to be priced on **Form E**)
• Automatic Transmission (optional transmissions to be priced on **Form E**)
• Front axle rating (min.) – 7,000 lbs. (2-Door Cab)

• Single Rear axle rating (min.) – 12,000 lbs. (2-Door Cab)
• Heater/Defroster/Vent/Air Conditioning
• Constructed on standard straight frame rail chassis.
• Fuel Tank – 40 gallon (minimum).
• ABS Braking System.

2. Options to Base Bid for apparatus. Contractors are encouraged to provide a thorough listing of options on Form E. Below are just a few examples of options to include on **FORM E**:

Options to Walk-In Bids:

(a) Haz-Mat Configuration

(b) 2 Person Command Center Configuration

(c) Walk-Through option

3. Special Service Fire Apparatus

Equipment Storage

(a) Non Walk-in - 640 ft^3

(b) Walk-in bids - 320 ft^3

4. To be bid as options on Form E.

(a) Optical Warning Devices

(b) Generators

(c) Breathing Air Systems

(d) Winches

(e) Additional Ground Ladders

Note: All optional apparatus models offered in any bid response shall be in compliance with NFPA 1901 (latest edition) for the specific apparatus offered.

III. AERIAL FIRE APPARATUS

In addition to the latest edition of NFPA Standard 1901, Products bid hereunder must also comply with all **H-GAC** specifications and requirements herein. The Aerials (Booms/Platforms, Ladders, Ladder/Platforms) covered by this Invitation are defined by Product Codes that have been pre-listed on **FORM D**.

1. Standard Features. The following features must be included in all items bid pursuant to this Invitation:

- Seating for a minimum of five (5) firefighters.
- A Minimum of three (3) SCBA seats in stationary cabs, four (4) SCBA seats in all others.
- For 75-99 ft., 500 lb. capacity apparatus (For Steel & Aluminum), a minimum 400 bhp diesel engine.
- For all other Products, minimum 450 bhp diesel engine (w/EVS4000 Transmission)
- All engines must meet current EPA standards.
- Allison **EVS-3000** Automatic Transmission
- Engine exhaust auxiliary brake
- Full Anti-Lock Braking System
- Power Steering
- Air Brakes with min. 16 cfm compressor

- 1500 gpm single stage fire pump
- Polypropylene/fiberglass water tank:
- For 75-99 ft. Aerials, Single Axle, with a rated capacity of 500/750 lbs. (steel or aluminum construction), a 300 gallon minimum polypropylene or fiberglass water tank.
- For 75-99 ft. Aerials, Tandem Axle, with a rated capacity of 500/750 lbs. (steel or aluminum construction), a 500 gallon minimum polypropylene or fiberglass water tank.
- For all 100'+ apparatus with platform, a 150 gallon minimum polypropylene or fiberglass water tank.
- Two (2) Transverse preconnect hose beds.
- Ground ladders mounted in totally enclosed compartment(s) with doors, and providing access from the rear of the apparatus.
- Left side pump operator's control panel.
- Heater/Defroster in Cab area.
- Air Conditioning in Cab area.
- For 45-65 ft. Mini-Aerials, Tandem Axle (19,000 lb. GVW), 1250 gpm single stage fire pump, (steel or aluminum construction), 300 gallon minimum polypropylene or fiberglass water tank, aluminum body.

2. Requirements by Apparatus Type.

(a) Aerials Fire Apparatus with 1,500 gpm single-stage fire pumps shall be compliant with the following NFPA 1901 chapters regarding apparatus requirements:

Chapter 5: Pumper Fire Apparatus

Chapter 8: Aerial Fire Apparatus

- All optional apparatus models offered in any bid response shall be in compliance with NFPA 1901, latest edition for the specific apparatus offered**.**

Note: Optional deletion of fire pump shall be offered as a priced option on **FORM E**.

IV. PUMPER FIRE APPARATUS

In addition to the latest edition of NFPA Standard 1901, Products bid hereunder must also comply with all **H-GAC** specifications and requirements herein. The Pumper Fire Apparatus covered by this Invitation are defined by the Product Codes that have been pre-listed on **Form D**.

1. Standard Features Required in Base Bid Response.

- **Commercial Cabs:** 2 or 4 door cab with doors on left and right sides of apparatus
- **Custom Cabs:** 4 door cab with doors on left and right sides of apparatus
- Minimum three (3) SCBA seats in stationary cabs, four (4) SCBA seats in all others; there is no requirement for SCBA seating in 2-door Commercial Cabs
- Minimum 300 bhp diesel engine, 2-Door Commercial Cabs.
- Minimum 320 bhp diesel engine, 4-Door Commercial Cabs.
- Minimum 325 bhp diesel engine, Custom Cabs w/1250 gpm pump
- Minimum 380 bhp diesel engine, Custom Cabs w/1500 to 2500 gpm pump

Note: All engines offered shall meet current EPA standards.

- Allison **EVS-3000** Automatic Transmission for apparatus w 1250 gpm pump
- Allison **EVS-3000** Automatic Transmission for apparatus w/1500 to 2500 gpm pump
- Engine exhaust auxiliary brake shall be provided in all apparatus
- Full Anti-Lock Braking System
- Power Steering
- Air Brakes
- Minimum **750** gallon polypropylene or fiberglass water tank for pumper bodies, **300** gallon (mini-pumper)
- Minimum **1800** gallon polypropylene, fiberglass or **stainless steel** water tank for pumper/tanker bodies **on single rear axle**
- 1250 gpm single stage fire pump, Commercial Cabs.
- 1250, 1500 to 2500 gpm single stage fire pump, Custom Cabs
- Fuel Tank (minimum) – 40 gallon (commercial chassis), 50 gallon (custom chassis)

• **Commercial Cabs (Light/Medium)**
• 2 Door Models (4 Door Models may be listed as options)
• 300 bhp diesel engine (optional engines to be priced on **Form E**)
• Automatic Transmission (optional transmissions to be priced on **Form E**)
• Front axle rating (min.) – 7,000 lbs. (2-Door Cab)
• Single Rear axle rating (min.) – 12,000 lbs. (2-Door Cab)
• Heater/Defroster/Vent/Air Conditioning
• Constructed on standard straight frame rail chassis.
• Fuel Tank – 40 gallon (minimum).
• ABS Braking System.

2. Tanker Apparatus Pumps
Pumps, portable and PTO will be allowed on tankers. Minimum pump capability will be 250 gmp@150 psi, per NFPA 1901, 2009 Mobile Water Supply Apparatus, Chapter 14.

- 250, 350, 450, 500, 750 or 1000 gpm single state PTO or portable fire pump.

Note: Bidder shall list optional pumps as priced options on **Form E**.

3. Water Tanks

(a)Tank Construction.
Water tank capacity (pumpers) shall be a minimum rated **750 gal** (2850 L) as provided in the base bid response. Mini-Pumpers **300** gallon. Other sizes shall be offered as Priced Options on **FORM E.**

4. Mobile Water Supply Apparatus Water.
Water Transfer (Mobile Water Supply). The bidder shall provide pricing for tanker configurations of 1,800 gallons to 4,000 gallons including chassis requirement changes to accommodate the extra weight.

V. AIRCRAFT RESCUE & FIRE FIGHTING VEHICLES

Products bid hereunder must comply with the latest Edition of NFPA Standard 414 (Standard for Aircraft Rescue and Fire-Fighting Vehicles). The Aircraft Rescue & Fire-Fighting Vehicles covered by this Invitation are defined by the Product Codes that have been pre-listed on **Form D**.

6. EVALUATION AND BID AWARDS

Bids will be evaluated by H-GAC Staff in compliance with stated requirements. Contracts will be awarded to the "lowest responsive responsible Bidder(s) providing best value" for each base line item offered. A minimum threshold score of **75 points** will be required before a contract may be offered. Bids will be evaluated in two (2) stages.

The **first stage** will be a general evaluation of the overall compliance with Section B requirements **(Tabs A-G)**. Bids deemed to be responsive and scoring a minimum of **70 points** will then be passed to the second stage.

The **second stage, Pricing.** An analysis of Bidder's submitted bid price will be conducted for each base line item submitted on **Form D.** Bidders with the lowest total price for each line item will receive a **maximum score of 75 points.**

PAST PERFORMANCE – An evaluation will be conducted of the Bidder's previous contract performance as an HGACBuy contractor based on the performance measured listed below. **Maximum score is 25 points**.

PERFORMANCE MEASURES
Timely response to request for information and/or request for quotes/pricing (Sec A, 48b)
Accurate preparation of Contract Pricing Worksheet(s) (Sec A 48e)
Timely delivery of product or services (as quoted at time of order placement) (Sec A, 25c)
Quality of products/service (Sec A, 25d, 44f)
Timely and accurate submission of Contractor's Activity Report (Sec A, 48h)
Timely payment of order processing charge (Sec A, 44g, 44h)

NOTE: For **Joint Bids,** each Form A submitted in the Bidders response will be scored per the above criteria and an overall average will be taken of all Form A's submitted to determine the Performance score for each submission.

Evaluation Criteria Scoring Table	Maximum Points
PRICE	**75**
PERFORMANCE MEASURES	**25**
TOTAL	**100**

----- End of Section B -----

Specifications prepared by

Houston-Galveston Area Council
Cooperative Purchasing Program

For questions about this Invitation, please contact:
Jackie Palmer
Ph: 713-993-2466
Email: jpalmer@h-gac.com

SECTION C - H-GAC FORMS

(Rev 12/02/09)

For Use In Responding To Competitive Bid And Proposal Invitations

Invitation No.: FS12-19

Title: Fire Service Apparatus (All Types)

This Section contains the following **H-GAC** *FORMS* .

FORM	DESCRIPTION
Form A:	Offeror Identification and Authorized Signatory
Form B:	Historically Underutilized Business Enterprises
Form C:	Response Checklist
Form D:	Offered Items Pricing
Form E:	Published Options
Form G:	Special Statement of Warranty
Form H:	Marketing Plan
Form W-9	Request for Taxpayer Identification Number and Certification
Form CIQ	Conflict of Interest Questionnaire
Form 1295	Certificate of Interested Parties
HB 89	Prohibition on Contracts with Companies Boycotting Israel
CCI	Contractor Contact Information

These *FORMS* are hereby made available in electronic format. They should be copied to Offeror's computer for completion and/or printout as required. The *FORMS* **may not** be changed or altered in any way, except as may be specified on the *FORM* .

ALL completed *FORMS* must also be submitted electronically on electronic media (DVD, CDRom, flash/thumb drive), excepting of course for signatures. The printed "Original" of the response will be considered as the official copy in case of any discrepancy between the electronic version and the printed Original.

FORM A - OFFEROR IDENTIFICATION & AUTHORIZED SIGNATORY
(DO NOT handwrite this Form. Information must be typed in.)

Invitation No.: FS12-19

Invitation Title: Fire Service Apparatus (All Types)

Offeror Company: _____

(Legal name of business which will appear on contract, if awarded)

Offeror Status: ☐ **Manufacturer** ☐ **Dealer/Distributor** ☐ **Other**

Response Type(1): ☐ **Single Offeror Acting Alone Or As Lead** ☐ **Multiple Offerors Acting Jointly**

Contract Signatory(2): _____ **Title:** _____

Mailing Address(3): _____

Street/PO Box City State & Zip

Physical Address: _____

Street City State & Zip

Phone: _____ **Fax:** _____

Email Address: _____

Federal Tax ID No.: _____ **Web Page URL:** _____

(1) If Joint Offering, all parties must submit a signed Form A. A contract will be offered to each.

(2) Person who will sign final contract documents if an award is made.

(3) Address to which final contract documents would be sent for signature.

Member Contact Information

Contact Person(4): _____ **Title:** _____

Mailing Address: _____

Street/PO Box City State & Zip

Physical Address: _____

Street City State & Zip

Toll Free Phone: _____ **Fax:** _____

Email Address: _____

(4) Person who End Users will contact for product information and to get pricing quotes.

The Signatory below, on behalf of Offeror:

- Acknowledges having thoroughly reviewed the Invitation;
- Attests to having the authority to sign this response and commit Offeror to honor all requirements;
- Makes, under penalty of perjury, all required Offeror Certifications as detailed in General Terms;
- Certifies that all information provided in this Response is true and correct.

Signature: _____ **Title:** _____

Printed Name: _____ **Date:** _____

FORM B - HISTORICALLY UNDERUTILIZED BUSINESS ENTERPRISES

Procurement No.: FS12-19

Title: Fire Service Apparatus (All Types)

Offeror:

Most, if not all, of the Members of HGACBuy are subject to various requirements relative to purchasing goods and services from Historically Underutilized Business Enterprises (HUBs)(See Note 1). These requirements are promulgated by federal and state governmental authorities, and include measureable criteria such as 'percentage of total dollars spent directed to HUBs', 'number of HUB contractors used', 'HUB subcontractors employed by primary contractors', etc. These requirements are generally formalized in goal oriented programs.

HGACBuy is comitted to promoting full and equal business opportunities for HUB contractors, and to assisting Cooperative Purchasing Program (COOP) Members in meeting mandated HUB goals. In that regard, Contractor shall make a good faith effort to use the services of Certified/Listed (See Note 2) HUBs whenever possible.

As part of a good faith effort, Contractor agrees to work with and assist HGACBuy Members in meeting HUB targets and goals, as may be required by any rules, processes or programs they might have in place. Such assistance may include such things as compliance with reporting requirements, provision of documentation, consideration of 'Certified/Listed' subcontractors, provision of documented evidence that an active participatory role for a HUB entity was considered in a procurement transaction, etc.

Note 1: There are many designations other than "HUB" used across the country within various jurisdictions. Examples include terms such as Disadvantaged Business Enterprise (DBE), Minority Owned Business Enterprise (MBE), Woman Owned Business Enterprise (WBE), Small Disadvantaged Business (SDB), Small, Woman or Minority-owned Business (SWAM), etc. Regardless of the formal designation, the overall objective of the relavant programs is basically the same, i.e. to insure that disadvantaged and underutilized members of the business community receive a fair share of public spending. The term HUB as used herein shall be understood to encompass all such programs/business enterprises, no matter what terminology is used by the Member.

Note 2: The terms "Certified" and "Listed" as used in conjunction with HUB programs relate to the process of HUB qualification review. Jurisdictions usually require that companies claiming HUB status be reviewed and confirmed as meeting certain minimum requirements to claim that status, and that the review and confirmation process be carried out by certain designated entities. They are then "Certified" or "Listed" by having their name included on an official listing published by the Certifying or Listing Authority.

Accepted and Agreed By:	
Title:	Date:

HUB Status Of Offeror

☐ Offeror is a HUB, as detailed below. ☐ Offeror is not a HUB.

Designation(s): ☐ HUB ☐ DBE ☐ MBE ☐ WBE ☐ Other

Certifying/Listing Authority(s):

Subcontracts

On a separate sheet, list any subcontractors that would be employed in providing products or services related to this procurement. Include subcontractor name, designation (HUB, DBE, etc.) and certifying/listing authority.

☐ Subcontractor List attached. ☐ No Subcontractors will be used.

FORM C - RESPONSE CHECKLIST	Procurement No.: FS12-19

Title: Fire Service Apparatus (All Types)

Offeror:

This *FORM* is provided to help insure that all required Response elements have been completed and included, or certified as being available upon request. **Responses that do not comply with all requirements may be considered non-compliant.** Offeror's signatory must review each item below, and certify by initialing in the space to the right.

	This Response Includes:	Init.
1	An "Original" hard copy of the **COMPLETE** submission, including all required *FORMS,* plus one **COMPLETE** copy, each in a separate **hard-sided** 3-ring binder.	
2	A copy of the **COMPLETE** submission, including all required *FORMS*, in **electronic format** (CD, DVD, flash drive). **Forms D & E** are to be provided in an excel format.	
3	*An originally signed **Form A** from the all entities who are party to this submission and who should be offered a contract if this submission is successful. These entities should include the **Apparatus Manufacturer**, **Franchised Texas Dealer** and those dealers outside Texas who have current or past sales through the program (Note: All other sales outside Texas should be coordinated through the manufacturer when possible). In those cases where sales must go through a dealer due to franchise agreements, **Form A's** will be accepted from those dealers. For those only bidding conversions (i.e. brush trucks, light rescues), **Form A's** from in-state commercial chassis dealers for the underlying chassis make being quoted should be provided.*	
4	**Forms A, B, C, D, E, G, H, (EXCEL FORMAT), 1295, W-9, CIQ, HB89, CCI.** A **1295, W-9, CIQ, HB89 & CCI** form shall be provided from each entity that has submitted a **Form A** for this submission.	
5	The required list of **References**.	
6	Details of "**Service Organization"**, including locations, hours, personnel and parts/service availability. (Applies to hard goods only.)	
7	Complete **Warranty Documentation** for all Products offered.	
8	The manufacturer's latest **Specification Documents** detailing standard features, operating characteristics, etc., for all products offered. Note: Bidder shall supply a spec/quote sheet for each product code bid on **Form D**. These sheets should detail what features are included in the price quoted on **Form D**.	
9	If the **Non-Resident Reciprocal Bid Act** applies, a copy of your state statute and a determination of the status of Texas bidders/proposers in your home state. If not applicable, indicate "N/A"	
10	If offer includes motor vehicles to be sold in Texas, copies of all current licenses as required by the Texas Motor Vehicle Commission.	
11	A **Bid/Proposal Bond,** or **Cashier's Check** in the amount of **$3000.** (A percentage bond is NOT acceptable.)	**n/a**

M BASE OFFERING PRICES	Procurement No.	FS12-19
Offeror Name:		
Invitation No.:	**FS12-19 - Fire Service Apparatus (All Types)**	

Note: All products listed below are to be considered as base model/units for purposes of this Invitation and any subsequent contract. The Bidder shall determine which Product Codes to bid and shall fill in a bid price in the appropriate cell. Bidder may then bid upgrades or downgrades to different product codes as options on **Form E**, with pricing equal to the differential amount between the base Product Item price and the upgrade or downgrade being offered. Bidders are to provide pricing for options and accessories as explained in Sections A and B, as well as specific apparatus variations as listed below:

1. Other available Cab/Chassis manufacturer choices for apparatus built on a commercial cab/chassis.

2. Different available cab designs (2/4 Door/Tilt Cab etc.)

3. Cab/Body sheet and structural metal choices (Galvanneal, Formed/Extruded Aluminum, Stainless Steel)

4. Available rear axle configurations (Single/Tandem/Tandem Front Steering/Triple Rear)

5. Different fire pumps and mounting locations (1250/1500/2500 GPM Pump/Rear and Mid-Mounted)

6. Various body configurations (Walk-In/Non-Walk-In Body) for Rescue, Re-Hab, Hazmat, Mobile Command Centers

7. Aerial Categories (Construction/Turntable Positions/Aerial Device Functions)

IMPORTANT: Bidder **MUST** submit copies of the following with their bid:

(1) A copy of each participating bidder/dealer's **TxMVD dealer license** identifying the make/brand of apparatus being bid.

*(2) An originally signed **Form A** from the all entities who are party to this submission and who should be offered a contract if this submission is successful. These entities should include the **Apparatus Manufacturer**, **Franchised Texas Dealer** and those dealers outside Texas who have current or past sales through the program (Note: All other sales outside Texas should be coordinated through the manufacturer when possible). In those cases where sales must go through a dealer due to franchise agreements, **Form A's** will be accepted from those dealers. For those only bidding conversions (i.e. brush trucks, light rescues), **Form A's** from in-state commercial chassis dealers for the underlying chassis make being quoted should be provided.*

(3) A copy of the bidders and/or manufacturers's **Texas Motor Vehicle Converter license** (where applicable).

Note: The above requirements must be met prior to any contracts being issued.

Product Code	Model & Description (Note: Bid only the base Item/Model on this Form . No changes/modifications to **Form D** descriptions will be accepted and will result in bid item being deemed non-compliant. Bid available options noted above on **Form E**)	Base Offered Price
	A. Alexis	
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19AA01	Spartan, 4-Door Custom Full Tilt Aluminum Cab Single axle, 75' rear mount aerial, stainless steel body, 300 gallons, side stack hose bed, single stage 1500 gpm pump mid mounted	
FS19AA02	Spartan, 4-Door Custom Full Tilt Aluminum Cab Tandem axle, 110' rear mount aerial with stainless steel body, 300 gallons of water, side stack hose bed, single stage 1500 gpm pump mid mounted	
FS19AA03	Spartan, 4-Door Custom Full Tilt Aluminum Cab Tandem axle, rear mount 100' platform, stainless steel body, 300 gallons of water, hose bed, single stage 1500 gpm pump mid mounted	
FS19AA04	Spartan, 4-Door Custom Full Tilt Aluminum Cab Tandem axle, mid-mount 100' platform, stainless steel body, 300 gallons of water, hose bed, single stage 1500 gpm pump mid mounted	
B. Wildland Fire Apparatus (Brush Fire)		
FS19AB01	Ford F550 4x4, aluminum flatbed body, portable pump, 300 gallons of water	
FS19AB02	Ford F550, 4x4 2-door,stainless steel Body, Rescue Unit with Skid	

FS19AB03	Ford F600 4x4, aluminum flatbed body, portable pump, 300 gallons of water	
FS19AB04	Ford F600, 4x4 2-door,stainless steel Body, Rescue Unit with Skid	
C. Pumper Fire Apparatus		
FS19AC01	Freightliner, 2-Door, Commercial Cab, Stainless Steel Body, Single Axle, 1250 GPM Pump, Mid-Mounted Pumper	
FS19AC02	International 2-Door, Commercial Cab, Stainless Steel Body, Single Axle, 1250 GPM Pump, Mid-Mounted Pumper	
FS19AC03	Spartan, 4-Door Custom Full Tilt Aluminum Cab, Stainless Steel Body, Single Axle, 1250 GPM Pump, Mid-Mounted Pumper	
FS19AC04	Ford F-550 4x4 Mini Pumper 1250 gpm, 300 tank	
FS19AC05	Ford F-600 4x4 Mini Pumper 1250 gpm, 300 tank	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19AD01	Ford F550, 4x4 2-door,stainless steel Body, Non Walk-in Rescue Unit	
FS19AD02	Ford F550, 4x4 2-door,stainless steel Body, Walk-in Rescue Unit	
FS19AD03	Ford F600, 4x4 2-door,stainless steel Body, Non Walk-in Rescue Unit	
FS19AD04	Ford F600, 4x4 2-door,stainless steel Body, Walk-in Rescue Unit	
FS19AD05	Ford F750, 2-door,stainless steel Body, Non Walk-in Rescue Unit	
FS19AD06	Ford F750 2-door,stainless steel Body, Walk-in Rescue Unit	
FS19AD07	Freightliner, 2-door, stainless steel body, Heavy Duty Non Walk-in Rescue Unit	
FS19AD08	Freightliner, 2-door, Stainless Steel Body, Heavy Duty Walk-In Rescue Unit	
FS19AD09	International, 2-door, stainless steel body Heavy Duty Non Walk-in Rescue Unit	
FS19AD10	International, 2-door, Stainless Steel Body, Heavy Duty Walk-In Rescue Unit	
FS19AD11	Spartan, 4-Door Custom Full Tilt Aluminum Cab, Stainless Steel Body, Heavy Duty Non Walk-in Rescue Vehicle	

FS19AD12	Spartan, 4-Door Custom Full Tilt Aluminum Cab, Stainless Steel Body, Heavy Duty Walk-in Rescue Vehicle	
E. Pumper/Tankers & Tankers		
FS19AE01	Freightliner, 2-Door Commercial Cab, Pumper/Tanker, Stainless Steel Body, 2000 Gallon Tank, Single Axle, 1250 GPM Pump, Mid-Mounted	
FS19AE02	Freightliner, 2-Door, Commercial Cab, Pumper/Tanker, Stainless Steel Body, 3000 Gallon Tank, Tandem Axle, 1250 GPM Pump, Mid-Mounted	
FS19AE03	International 2-Door Commercial Cab, Pumper/Tanker, Stainless Steel Body, 2000 Gallon Tank, Single Axle, 1250 GPM Pump, Mid-Mounted	
FS19AE04	International, 2-Door, Commercial Cab, Pumper/Tanker, Stainless Steel Body, 3000 Gallon Tank, Tandem Axle, 1250 GPM Pump, Mid-Mounted	
FS19AE05	Spartan, 4-Door Custom Full Tilt Aluminum Cab Pumper/Tanker, Stainless Steel Body, 2000 Gallon Tank, Single Axle, 1250 GPM Pump, Mid-Mounted	
FS19AE06	Spartan, 4-Door Custom Full Tilt Aluminum Cab Pumper/Tanker, Stainless Steel Body, 3000 Gallon Tank, Tandem Axle, 1250 GPM Pump, Mid-Mounted	
B. Blanchat Manufacturing		
B. Wildland Fire Apparatus (Brush Fire)		
FS19BB01	B-3-F450 Welded steel body with crosswalk and pump and roll capabilities HPX200 pump driven by a 23HP briggs motor 325 gals water mounted on a Ford F450 Chassis 60" CA.	
FS19BB02	B-3- D3500 Welded steel body with crosswalk and pump and roll capabilities HPX200 pump driven by a 23HP briggs motor 325 gals water mounted on a Dodge 3500 Chassis 60"CA.	
FS19BB03	B-4-F550 Welded steel body with crosswalk and pump and roll capabilities HPX200 pump driven by a 23HP briggs motor 400 gal poly tank mounted on Ford F550 chassis 60"CA.	
FS19BB04	B-4-D5500 Welded steel body with crosswalk and pump and roll capabilities HPX200 pump driven by a 23HP briggs motor 400 gal poly tank mounted on a Dodge 5500 chassis.	
FS19BB05	B-5-F550 Welded steel bed with crosswalk and pump and roll capabilities HPX200 pump driven by a 23HP briggs motor 500 gal poly tank mounted on Ford F550 chassis 84" CA.	
FS19BB06	B-5-D5500 Welded steel bed with crosswalk and pump and roll capabilities HPX200 pump driven by a 23HP briggs motor 500 gal poly tank mounted on a Dodge 5500 chassis 84" CA.	
FS19BB07	B-8-Ford Welded steel bed with crosswalk and pump and roll capabilities HPX200 pump driven by a 23HP briggs motor 800 gal poly tank mounted on a Ford F-750 Chassis.	
FS19BB08	B-24-F550 Welded steel body with crosswalk and pump and roll capabilities HPX200 pump driven by a 23HP briggs motor 400 gal poly tank, single upswing door per side mounted on a Ford F550 60" CA.	
FS19BB09	B-24-D5500 Welded steel body with crosswalk and pump and roll capabilities HPX200 pump driven by a 23HP briggs motor, 400 gal poly tank single upswing door per side mounted on a Dodge 5500 60" CA.	
FS19BB10	B-24-F550 Welded steel body with crosswalk and pump and roll capabilities HPX200 pump driven by a 23HP briggs motor 400 gal poly tank, single upswing door per side	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19BD01	B-27-F550 Rescue first response. Welded steel superstructure transverse crosswalk with pump and roll capabilities dual swing up doors per side HPX200 pump driven by a 23HP briggs motor 400 gal poly tank, mounted on a ford F550 chassis 84" CA.	

FS19BD02	B-27-D5500 Rescue first response. Welded steel superstructure transverse crosswalk with pump and roll capabilities dual swing up doors per side HPX200 pump driven by a 23HP briggs motor 400 gal poly tank, mounted on a Dodge F550 chassis 84" CA.	
FS19BD03	B-56-Ford Rescue first response. Welded steel superstructure transverse crosswalk with pump and roll capabilities dual swing up doors per side, dual HPX200 pump driven by 23HP briggs motors, 800 gal poly tank, mounted on a Ford F-750 chassis.	
C. BFX		
B. Wildland Fire Apparatus (Brush Fire)		
FS19CB01	Attack One Brush Truck, minimum 280 gallons of water, minimum 21HP rear mounted gasoline pump, Composite apparatus body, light duty chassis with minimum 16,000 GVWR, 4x4, 60.00-inch cab-to-axle	
FS19CB02	Attack One Brush Truck, minimum 280 gallons of water, minimum 21HP rear mounted gasoline pump, metal apparatus body, light duty chassis with minimum 16,000 GVWR, 4x4, 60.00-inch cab-to-axle	
FS19CB03	Attack One Brush Truck, minimum 280 gallons of water, minimum 21HP rear mounted gasoline pump, aluminum flatbed, light duty chassis with minimum 16,000 GVWR, 4x4, 60.00-inch cab-to-axle	
FS19CB04	Attack One Brush Truck, minimum 280 gallons of water, minimum 21HP rear mounted gasoline pump, aluminum flatbed with exterior riding position, light duty chassis with minimum 16,000 GVWR, 4x4, 60.00-inch cab-to-axle	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile		
FS19CD01	Sentinel Support Vehicle, Helitack/Rescue, composite apparatus body, enclosed load bed, light duty chassis with minimum 16,000 GVWR, 4x4, 60.00-inch cab-to-axle	
FS19CD02	Sentinel Support Vehicle, Superintendent, composite apparatus body, open load bed, light duty chassis with minimum 11,400 GVWR, 4x4, 60.00-inch cab-to-axle	
FS19CD03	Sentinel Support Vehicle, Highland, composite apparatus body, enclosed load bed, light duty chassis with minimum 11,400 GVWR, 4x4, 60.00-inch cab-to-axle	
D. Boise Mobile Equipment		
B. Wildland Fire Apparatus (Brush Fire)		
FS19DB01	BME, Type 3, International HV, 4WD, 4-Door ,Crew Cab. 600 Gallon Water Tank, 25 Gallon Foam Tank, Hale CBP 250 PTO Pump, Pump and Roll Capability, FoamPro 2001 Foam System,	
FS19DB02	BME, Type 3, Freightliner M2-106, 4WD, 4-Door ,Crew Cab. 600 Gallon Water Tank, 25 Gallon Foam Tank, Hale CBP 250 PTO Pump, Pump and Roll Capability, FoamPro 2001 Foam System,	
FS19DB03	BME, Type 3, Urban Interface (Model 34). International HV, 4WD, 4-Door, Crew Cab. 500 Gallon Water Tank, 25 Gallon Foam Tank, Darley JMP 500 2-Stage Pump, Darley 1-1/2AGE 24 HP Kubota D902 Diesel Auxiliary Pump	
FS19DB04	BME, Type 3, Urban Interface (Model 34) Freightliner M2-106, 4WD, 4-Door, Crew Cab. 500 Gallon Water Tank, 25 Gallon Foam Tank, Darley JMP 500 2-Stage Pump, Darley 1-1/2AGE 24 HP Kubota D902 Diesel Auxiliary Pump	
FS19DB05	BME, Type 4, International HV, 4WD, 4-Door, Crew Cab. 800 Gallon Water Tank, 25 Gallon Foam Tank, Rear Mounted Darley 1-1/2AGE 34HP Kubota Diesel Pump, Two (2) Hannay 150' Hose Reels, NFPA Compliant Whelen Light Package	
FS19DB06	BME, Type 4, Freightliner M2-106, 4WD, 4-Door, Crew Cab. 800 Gallon Water Tank, 25 Gallon Foam Tank, Rear Mounted Darley 1-1/2AGE 34HP Kubota Diesel Pump, Two (2) Hannay 150' Hose Reels, NFPA Compliant Whelen Light Package	
FS19DB07	BME, Type 6, Ford F550, 4WD, 4-Door 6.7L Diesel, 6-Speed A/T. 300 Gallon Water Tank Darley 1-1/2AGE 24HP Kubota D902 Diesel Auxiliary Pump	
FS19DB08	BME, Type 6, Dodge 5500, 4WD, 4-Door 6.7L Diesel, 6-Speed A/T. 300 Gallon Water Tank Darley 1-1/2AGE 24HP Kubota D902 Diesel Auxiliary Pump	
FS19DB09	BME, Type 6, (Flatbed) Ford F550, 4WD, 4-Door 6.7L Diesel, 6-Speed A/T. 300 Gallon Water Tank Darley 1-1/2AGE 24HP Kubota D902 Diesel Auxiliary Pump	
FS19DB10	BME, Type 6, (Flatbed) Dodge 5500, 4WD, 4-Door 6.7L Diesel, 6-Speed A/T. 300 Gallon Water Tank Darley 1-1/2AGE 24HP Kubota D902 Diesel Auxiliary Pump	
FS19DB11	BME, Type 6, "X-Treme" Dodge 5500, Full Aluminum Body, 300 Gallon Water Tank, Darley 1-1/2 AGE Pump, Off Road Package.	

FS19DB12	BME, Type 3, CalFire Model 34, International HV 4x4 chassis, 500 gallon water tank, JMP500 Darley pump, 1-1/2 AGE Darley Aux Pump	
C. Pumper Fire Apparatus		
FS19DC01	BME, Commercial Pumper, Side Mount, Freightliner Chassis, 1000 Gallon Water Tank, 1500 GPM Pump	
FS19DC02	BME, Commercial Pumper, Side Mount, International HV Chassis, 1000 Gallon Water Tank, 1500 GPM Pump	
FS19DC03	BME, Commercial Pumper, Top Mount, Freightliner Chassis, 1000 Gallon Water Tank, 1500 GPM Pump	
FS19DC04	BME, Commercial Pumper, Top Mount, International HV Chassis, 1000 Gallon Water Tank, 1500 GPM Pump	
FS19DC05	BME, Custom Pumper, Side Mount, Custom Chassis, 1000 Gallon Water Tank, 1500 GPM Pump	
FS19DC06	BME, Custom Pumper, Top Mount, Custom Chassis, 1000 Gallon Water Tank, 1500 GPM Pump	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19DD01	BME, Walk Around, Light Rescue, Ford F550	
FS19DD02	BME, Walk Around, Medium Rescue, Freightliner M2-106, 2WD	
FS19DD03	BME, Walk Around, Medium Rescue, International MV	
E. Pumper/Tankers & Tankers		
FS19DE01	BME, Commercial Tender, Freightliner Chassis, Single Axle, 2000 Gallon Water Tank, 750GPM Pump	
FS19DE02	BME, Commercial Tender, International Chassis, Single Axle, 2000 Gallon Water Tank, 750GPM Pump	
FS19DE03	BME, Commercial Tender, Freightliner Chassis, Tandem Axle, 3000 Gallon Water Tank, 750GPM Pump	
FS19DE04	BME, Commercial Tender, International Chassis, Tandem Axle, 3000 Gallon Water Tank, 750GPM Pump	
FS19DE05	BME, Tender, Model 22, Freightliner, 2WD, 2-Door, Single Axle. 1500 Gallon Stainless Steel Eliptical Water Tank.	
FS19DE06	BME, Tender, Model 22, International HV, 2WD, 2-Door, Single Axle. 1500 Gallon Stainless Steel Eliptical Water Tank.	
E. Custom Fire		
B. Wildland Fire Apparatus (Brush Fire)		
FS19EB01	Ford F550 4 door 4x4, 150gpm Gas engine driven pump, 300 Gallon Poly Tank, CustomFIRE Stainless Steel Initial Attack Body	
C. Pumper Fire Apparatus		
FS19EC01	Freightliner Single Axle, 1500gpm Side Mount, 750 Gallon Poly, CustomFIRE Stainless Steel Pumper Body	
FS19EC02	Freightliner Single Axle, 1500gpm Enclosed Top Mount, 750 Gallon Poly, CustomFIRE Stainless Steel Pumper Body, Full Response Crew Cab	
FS19EC03	Spartan MFD 10" Single Axle, 1500gpm Side Mount, 750 Gallon Poly, CustomFIRE Stainless Steel Pumper Body	
FS19EC04	Freightliner 4 door 4x4 Single Axle, 1250gpm Side Mount, 500 Gallon Poly, CustomFIRE Stainless Steel Interface Pumper Body	
FS19EC05	Spartan MFD 20" Single Axle, 1500gpm Enclosed Top Mount, 750 Gallon Poly, CustomFIRE Stainless Steel Pumper Body	
D. Special Service Apparatus (Walk-In & Non-Walk In Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19ED01	Ford F550 4 door 4x4 Single Axle, CustomFIRE Stainless Steel Light Rescue Non-Walk-In Body	

FS19ED02	Freightliner Single Axle, CustomFIRE Stainless Steel Heavy Rescue Walk-In Body	
FS19ED03	Freightliner Single Axle, CustomFIRE Stainless Steel Heavy Rescue Non-Walk-In Body	
FS19ED04	Spartan MFD 10" Single Axle, CustomFIRE Stainless Steel Heavy Rescue Non-Walk-In Body	
FS19ED05	Spartan MFD 10" Single Axle, CustomFIRE Stainless Steel Heavy Rescue Walk-In Body	
E. Pumper/Tankers & Tankers		
FS19EE01	Freightliner Single Axle, 500gpm Side Mount, 2000 Gallon Poly, CustomFIRE Stainless Steel Tender Body	
FS19EE02	Freightliner Tandem Axle, 500gpm Side Mount, 3000 Gallon Poly, CustomFIRE Stainless Steel Tender Body	
FS19EE03	Spartan MFD 10" Tandem, 1500gpm Side Mount, 3000 Gallon Poly, CustomFIRE Stainless Steel Pumper Tanker Body	
F. DACO		
B. Wildland Fire Apparatus (Brush Fire)		
FS19FB01	Self-Contained Slip-In Unit	
FS19FB02	Brush Fire Apparatus, Ford F-550 Chassis, Steel Flatbed	
FS19FB03	Brush Fire apparatus, Ford F-550 Chassis, Formed Aluminum Flatbed	
FS19FB04	Brush Fire apparatus, Ford F-550 Chassis, Steel Utiltiy Bed	
FS19FB05	Brush Fire apparatus, Ford F-550 Chassis, Formed Aluminum Utility Bed	
FS19FB06	Brush Fire apparatus Freightliner M-2 4 x4 Chassis Steel flatbed.	
FS19FB07	Brush Fire apparatus Freightliner M-2 4 x 4 Chassis Formed Aluminum Flatbed.	
FS19FB08	Brush Fire apparatus Freightliner M-2 4 x 4 Chassis Formed Aluminum Utility Bed.	
FS19FB09	Brush Fire Apparatus, Dodge 5500 Chassis, Steel Flatbed	
FS19FB10	Brush Fire Apparatus, Dodge 5500 Chassis, Formed Aluminum Flatbed	
FS19FB11	Brush Fire Apparatus, Dodge 5500 Chassis, Formed Aluminum Utility Bed	
FS19FB12	Brush Fire Apparatus, IH HV507 Chassis, 4x4, Formed Aluminum Flatbed	
FS19FB13	Brush Fire Apparatus, IH HV507 Chassis, 4x4, Formed Aluminum Utility Bed	
FS19FB14	Brush Fire Apparatus, Chevrolet 5500 Chassis, Formed Aluminum Flatbed	
FS19FB15	Brush Fire Apparatus, Chevrolet 5500 Chassis, Formed Aluminum Utility Bed	
G. Danko		
B. Wildland Fire Apparatus (Brush Fire)		
FS19GB01	Skid Unit, 250 gallon tank, 150 GPM pump, pump engine, booster reel with booster hose.	
FS19GB02	High pressure skid unit	
FS19GB03	Wildland Flatbed, Ford F550 4x4 chassis, aluminum flatbed, 300 gallon skid unit, 150 GPM pump	
FS19GB04	Wildland Flatbed, Ram 5500, 4x4 chassis, aluminum flatbed, 300 gallon skid unit, 150 GPM pump	
FS19GB05	Wildland quick attack body, Ford F550, 4x4 diesel, 3/16" aluminum body, 300 gallon skid, 150GPM pump.	
FS19GB06	Wildland quick attack body, Ram 5500, 4x4 diesel, 3/16" aluminum body, 300 gallon skid, 150GPM pump.	
FS19GB07	Wildland Flatbed, Freightliner/M2, 1000 gallon water, 300 GPM pump, aluminum flatbed, pump and roll.	
FS19GB08	Wildland Flatbed, I-H chassis, 1000 gallon water, 300 GPM pump, aluminum flatbed, pump and roll.	
FS19GB09	Wildland Flatbed, Peterbilt chassis, 1000 gallon water, 300 GPM pump, aluminum flatbed, pump and roll.	
FS19GB10	Wildland Flatbed, Kenworth chassis, 1000 gallon water, 300 GPM pump, aluminum flatbed, pump and roll	
FS19GB11	Danko Quick Attack, Ford F550 4x4 diesel, 3/16" painted aluminum body, 300 gallon water, 150GPM pump.	

FS19GB12	Danko Quick Attack, Ram 5500, 4x4 diesel, 3/16" painted aluminum body, 300 gallon water 150GPM pump.	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19GD01	Rescue, Ford F550, 4x4 chassis, Non-Walk-In Rescue Body, 10' painted 3/16" aluminum body.	
FS19GD02	Rescue, Ram 5500, 4x4 chassis, Non-Walk-In Rescue Body, 10' painted 3/16" aluminum body.	
E. Pumper/Tankers & Tankers		
FS19GE01	Ford 550, Mini Pumper 4 door, 4x4, diesel chassis, 1250GPM pump, 300 gallon water, painted 3/16" aluminum body.	
FS19GE02	IHC, 2-door chassis, Pumper Tanker, single axle, 750 GPM pump, 2000 gallon poly tank, swivel dump valve, hose bed, LED lighting	
FS19GE03	Freightliner, 2-door chassis, Pumper Tanker, single axle, 750 GPM pump, 2000 gallon poly tank, swivel dump valve, hose bed, LED lighting	
FS19GE04	Kenworth, 2-door chassis, Pumper Tanker, single axle, 750 GPM pump, 2000 gallon poly tank, swivel dump valve, hose bed, LED lighting	
FS19GE05	Peterbilt, 2-door chassis, Pumper Tanker, single axle, 750 GPM pump, 2000 gallon poly tank, swivel dump valve, hose bed, LED lighting	
FS19GE06	IHC, 2-door chassis, Pumper Tanker, tandem axle, 750 GPM pump, 3000 gallon poly tank, swivel dump valve, hose bed, LED lighting	
FS19GE07	Freightliner, 2-door chassis, Pumper Tanker, tandem axle, 750 GPM pump, 3000 gallon poly tank, swivel dump valve, hose bed, LED lighting	
FS19GE08	Kenworth, 2-door chassis, Pumper Tanker, tandem axle, 750 GPM pump, 3000 gallon poly tank, swivel dump valve, hose bed, LED lighting	
FS19GE09	Peterbilt, 2-door chassis, Pumper Tanker, tandem axle, 750 GPM pump, 3000 gallon poly tank, swivel dump valve, hose bed, LED lighting	
FS19GE10	IHC, 2-door chassis, Tanker, single axle, 400 GPM auxiliary pump with diesel engine, 2000 gallon poly tank, stainless plumbing, swivel dump, LED lights	
FS19GE11	Freightliner 2-door chassis, Tanker, single axle, 400 GPM auxiliary pump with diesel engine, 2000 gallon poly tank, stainless plumbing, swivel dump, LED lights	
FS19GE12	Kenworth, 2-door chassis, Tanker, single axle, 400 GPM auxiliary pump with diesel engine, 2000 gallon poly tank, stainless plumbing, swivel dump, LED lights	
FS19GE13	Peterbilt, 2-door chassis, Tanker, single axle, 400 GPM auxiliary pump with diesel engine, 2000 gallon poly tank, stainless plumbing, swivel dump, LED lights	
FS19GE14	IHC, 2-door chassis, Tanker, tandem axle, 400 GPM auxiliary pump with diesel engine, 3000 gallon poly tank, stainless plumbing, swivel dump, LED lights	
FS19GE15	Freightliner, 2-door chassis, Tanker, tandem axle, 400 GPM auxiliary pump with diesel engine, 3000 gal poly tank, stainless plumbing, swivel dump, LED lights	
FS19GE16	Kenworth, 2-door chassis, Tanker, tandem axle, 400 GPM auxiliary pump with diesel engine, 3000 gallon poly tank, stainless plumbing, swivel dump, LED lights	
FS19GE17	Peterbilt, 2-door chassis, Tanker, tandem axle, 400 GPM auxiliary pump with diesel engine, 3000 gallon poly tank, stainless plumbing, swivel dump, LED lights	
FS19GE18	Ford 750 2-door chassis, Tanker, single axle, 400 GPM auxiliary pump with gas engine, 1800 gallon poly tank, stainless plumbing, swivel dump, LED lights.	
FS19GE19	Freightliner, 2 door chassis, Crossmount pumper, single axle, 1000 GPM pump with V10 Gas Engine, 1000 gallon poly tank, top mount controls, ladder storage, LED lights, aluminum body.	
FS19GE20	Freightliner, 4 door chassis, Pumper, single axle, 1250 GPM pump, 1000 gallon poly tank, aluminum body, ladder storage, hosebed, side mount controls, LED lights.	
FS19GE21	Freightliner, 4 door chassis, Pumper/tanker, 1250 GPM pump, 1600 gallon poly tank, aluminum body, rear swivel dump, portable tank storage, hosebed, LED lights	
H. Darley		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19HA01	Spartan Single Rear Axle Chassis, Poly Body, 1500 GPM Midship CAFS Pump, Rear Mount 78 ft Steel Aerial, 500 Gallon Tank	
FS19HA02	Spartan Tandem Rear Chassis, Poly Body, 1500 GPM Midship CAFS Pump, Rear Mount 109 ft Steel Aerial, 300 Gallon Tank	

B. Wildland Fire Apparatus (Brush Fire)		
FS19HB01	Darley Wildland Attack Unit, Ford F550, Poly Body with Foam System	
C. Pumper Fire Apparatus		
FS19HC01	IH 2-Door Single Rear Axle Chassis, Poly Body, 1500 GPM CAFS Midship Pump, 1000 Gallon Tank	
FS19HC02	Spartan Single Rear Axle Chassis, Poly Body, 1500 GPM CAFS Midship Pump, 1000 Gallon Tank	
FS19HC03	Spartan Tandem Rear Axle Chassis, Poly Body, 1500 GPM Midship Pump, 2500 Gallon Tank	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19HD01	IH 2-Door Single Rear Axle, Heavy Rescue Poly Body, Non-Walk-In Body	
FS19HD02	Spartan Single Rear Axle, Heavy Rescue Poly Body, Non-Walk-In Body	
E. Pumper/Tankers & Tankers		
FS19HE01	Spartan Single Rear Axle Chassis, Poly Body, 1000 GPM Midship Pump, 2000 Gallon Tank	
FS19HE02	IH 2-Door Tandem Rear Axle Chassis, Poly Body, 1250 GPM Midship Pump, 2500 Gallon Tank	
FS19HE03	Spartan Tandem Rear Axle Chassis, Poly Body, 1500 GPM Midship Pump, 3500 Gallon Tank	
I. Deep South		
B. Wildland Fire Apparatus (Brush Fire)		
FS19IB01	Deep South Wildland Fire Apparatus, Ford Gas F-550 Regular Cab, 4X4, - 9' Alum. Flatbed Fire Body w/skid unit-150 GPM pump, 250 gallon tank.	
FS19IB02	Deep South Wildland Fire Apparatus, IHC 4400 Regular Cab, 4X2, 15' Alum. Flatbed Fire Body w/skid unit-150 GPM pump, 250 gallon tank.	
FS19IB03	Skid Unit, 100 GPM pump, 250 gallon water tank, Hose reel, 200' of 1" redline	
FS19IB04	Deep South Wildland Fire Apparatus, Ford Diesel F-350, Regular Cab, 4x4, 8' Factory Truck Bed w/skid unit, 150 GPM pump, 250 gallon water tank	
C. Pumper Fire Apparatus		
FS19IC01	1000 Series Pumper / KW T-370 2 door. Hi/Low Series Pumper, 750 Gallon Poly Tank - 1/8" Hi/Low Alum. body. Side-mount 1250 GPM pump.	
FS19IC02	1000 Series Pumper / Spartan Metro 4 door. Hi/Low Series Pumper, 750 Gallon Poly Tank - 1/8" Hi/Low Alum. Body. Side-mount 1250 GPM pump.	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19ID01	Quick Response Rescue / Fire Apparatus, Ford Gas F-550 Regular cab, 4X4, 9' – 1/8" Alum. 68" High Rescue / Fire Body.	
FS19ID02	Medium-Duty "Walk-Around" Rescue Body / KW T-370 2- door 12' – 1/8" Alum. 84" High Rescue / Fire Body.	
FS19ID03	Heavy Duty "Walk-Around" Rescue Body/Spartan Metro 4 Door, 18' Alum. 84" High Rescue/Fire Body.	
E. Pumper/Tankers & Tankers		
FS19IE01	Classic Series Mild Steel Tank / KW T-370 2 door - 3/16" Semi-Elliptical 1800 gallon coated mild steel tank body & subframe, 500 GPM PTO pump.	
FS19IE02	Classic Series Poly Tank / KW T-370 2 door. 1800 gallon Poly Tank 1/8" Aluminum Body & Subframe, 500 GPM PTO pump.	
FS19IE03	Classic Series Poly Tank / Spartan Metro 4 dr - 1800 gallon Poly Tank 1/8" Alum. Body & Subframe, 500 GPM PTO pump.	
J. Emergency One (E-One)		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19JA01	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Single Axle, 1500 GPM Single Stage Pump, 500 Gallon Tank, Welded Aluminum 50' Boom - 50 FT. 300# Tip Load, Mid Mount Telescoping Boom with Rescue Ladder	

FS19JA02	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Single Axle, 1500 GPM Single Stage Pump, 500 Gallon Tank, Welded Extruded Aluminum HP75 - 75 FT. 550# Tip Load, Rear Mount Telescoping Ladder	
FS19JA03	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Single Axle, 1500 GPM Single Stage Pump, 500 Gallon Tank, Welded Extruded Aluminum HP78 - 78 FT. 650# Tip Load, Rear Mount Telescoping Ladder	
FS19JA04	E-One Quest, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Single Axle, 1500 GPM Single Stage Pump, 500 Gallon Tank, Welded Extruded Aluminum HP78 - 78 FT. 825# Tip Load, Rear Mount Telescoping Ladder	
FS19JA05	E-One Typhoon, 4 Door Full Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Single Axle, No Pump, No Tank, Welded Extruded Aluminum Metro 100 - 100 FT. 300# Tip Load, Rear Mounted Telescoping Ladder.	
FS19JA06	E-One Typhoon, 4 Door Full Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Single Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Extruded Aluminum HR100 - 100 FT. 300# Tip Load, Rear Mounted Telescoping Ladder.	
FS19JA07	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 500 Gallon Tank, Welded Extruded Aluminum HP100 - 100 FT. 550# Tip Load, Rear Mounted Telescoping Ladder	
FS19JA08	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Steel HPS105 - 105 FT. 575# Tip Load, Rear Mounted Telescoping Ladder	
FS19JA09	E-ONE Quest, 4 Door Full Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Extruded Aluminum CR137 - 137 FT. 300# Tip Load, Rear Mount Telescoping Ladder	
FS19JA10	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Extruded Aluminum L193 - 95' 1305# Tip Load, Mid-Mounted Telescoping Ladder Platform	
FS19JA11	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Extruded Aluminum L095- 92' 1025# Tip Load, Rear Mounted Telescoping Ladder with Platform	
FS19JA12	E-ONE Typhoon, 4 Door full Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Extruded Aluminum HP100 - 100 FT. 1305# Tip Load, Rear Mounted Telescoping Ladder with Platform	
FS19JA13	E-ONE Typhoon, 4 Door full Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Steel HPS100P - 100 FT. 1305# Tip Load, Rear Mounted Telescoping Ladder with Platform	
FS19JA14	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Steel SM10 100' 1305# Tip Load, Mid Mounted Telescoping Ladder with Platform	
FS19JA15	E-One Typhoon, 4-Door Full-Tilt Aluminum Cab, Extruded Aluminum Body, Tandem/Axle, 2000 GPM Single Stage Pump, 300 Gallon Tank, Bronto 116'+ 1400# Tip Load Rear Mounted Telescoping & Articulating Steel Boom with Platform	
B. Wildland Fire Apparatus (Brush Fire)		
FS19JB01	E-ONE Ford F550 4X4 Quick Attack Pumper, 500 GPM, Welded Extruded Aluminum Body, Single Axle, Side Mount Pump Module	

C. Pumper Fire Apparatus		
FS19JC01	Freightliner M2, 2-Door Commercial Cab, Pumper, Welded Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Side Mount Pump Module	
FS19JC02	International 4400, 2-Door Commercial Cab, Pumper, Welded Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Side Mount Pump Module	
FS19JC03	Kenworth T370, 2-Door Commercial Cab, Pumper, Welded Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Side Mount Pump Module	
FS19JC04	Peterbilt 348, 2-Door Commercial Cab, Pumper, Welded Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Side Mount Pump Module	
FS19JC05	E-One Typhoon, 4-Door Custon Full-Tilt Welded Aluminum Cab, Pumper, Welded Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Side Mount Pump Module	
FS19JC06	E-ONE Typhoon, 4 Door Custom Full Tilt Welded Aluminum Cab, Rear Engine Pumper, Welded Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Side Mount Pump Module	
FS19JC07	E-ONE Quest, 4 Door Custom Full Tilt Welded Aluminum Cab, Pumper, Welded Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Rear Mount Pump Module	
FS19JC08	E-One Typhoon Urban Interface Pumper, 4-Door Custon Full-Tilt Welded Aluminum Cab, Pumper, Welded Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Side Mount Pump Module	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19JD01	Ford F550, 2-Door, OEM Cab, Single Axle, Welded Extruded Aluminum Body, Non-Walk-In Rescue	
FS19JD02	Freightliner M2, 2-Door, OEM Cab, Single Axle, Welded Extruded Aluminum Body, Non-Walk-In Rescue	
FS19JD03	International 4400, 2-Door, OEM Cab, Single Axle, Welded Extruded Aluminum Body, Non-Walk-In Rescue	
FS19JD04	Kenworth T370, 2-Door, OEM Cab, Single Axle, Welded Extruded Aluminum Body, Non-Walk-In Rescue	
FS19JD05	Peterbilt 348, 2-Door, OEM Cab, Single Axle, Welded Extruded Aluminum Body, Non-Walk-In Rescue	
FS19JD06	Kenworth T370, 2-Door, OEM Cab, Single Axle, Welded Extruded Aluminum Body, Walk-In Rescue	
FS19JD07	Peterbilt 348, 2-Door, OEM Cab, Single Axle, Welded Extruded Aluminum Body, Walk-In Rescue	
FS19JD08	Freightliner M2, 2-Door, OEM Cab, Single Axle, Welded Stainless Body, Walk-In Rescue	
FS19JD09	International 4400, 2-Door, OEM Cab, Single Axle, Welded Stainless Body, Walk-In Rescue	
FS19JD10	Kenworth T370, 2-Door, OEM Cab, Single Axle, Welded Stainless Body, Walk-In Rescue	
FS19JD11	Peterbilt 348, 2-Door, OEM Cab, Single Axle, Welded Stainless Body, Walk-In Rescue	
FS19JD12	E-One Typhoon, 4-Door Custom, Full-Tilt, Welded Aluminum Cab, Single Axle, Welded Extruded Aluminum Body, Non-Walk-In Rescue	
FS19JD13	E-One Typhoon , 4-Door Custom, Full-Tilt, Welded Aluminum Cab, Single Axle, Welded Extruded Aluminum Body, Walk-In Rescue	
E. Pumper/Tankers & Tankers		
FS19JE01	Freightliner M2, 2-Door, Commercial Cab, Pumper/Tanker, Welded Extruded Aluminum Body, Tandem Axle, 1250 GPM Pump, Mid-Mounted Pump Module	
FS19JE02	International, 2-Door, Commercial Cab, Pumper/Tanker, Welded Extruded Aluminum Body, Tandem Axle, 1250 GPM Pump, Mid-Mounted Pump Module	
FS19JE03	Kenworth T370, 2-Door, Commercial Cab, Pumper/Tanker, Welded Extruded Aluminum Body, Tandem Axle, 1250 GPM Pump, Mid-Mounted Pump Module	
FS19JE04	Peterbilt 348, 2-Door, Commercial Cab, Pumper/Tanker, Welded Extruded Aluminum Body, Tandem Axle, 1250 GPM Pump, Mid-Mounted Pump Module	
FS19JE05	International 4400, 2-Door Commercial Cab, 2000 Gallon Tanker, Wet Side Body, Single Axle, 500 GPM Pump, Stainless Steel Body	

FS19JE06	Freightliner M2, 2-Door Commercial Cab, 2000 Gallon Tanker, Wet Side Body, Single Axle, 500 GPM Pump, Stainless Steel Body	
FS19JE07	Kenworth T370, 2-Door Commercial Cab, 2000 Gallon Tanker, Wet Side Body, Single Axle, 500 GPM Pump, Stainless Steel Body	
FS19JE08	Peterbilt 348, 2-Door Commercial Cab, 2000 Gallon Tanker, Wet Side Body, Single Axle, 500 GPM Pump, Stainless Steel Body	
FS19JE09	International, 2-Door Commercial Cab, rear 3000 Gallon Tanker, Wet Side Body, Tandem Axle, 500 GPM Pump, Stainless Steel Body	
FS19JE10	Freightliner M2, 2-Door Commercial Cab, rear 3000 Gallon Tanker, Wet Side Body, Tandem Axle, 500 GPM Pump, Stainless Steel Body	
FS19JE11	Kenworth T370, 2-Door Commercial Cab, rear 3000 Gallon Tanker, Wet Side Body, Tandem Axle, 500 GPM Pump, Stainless Steel Body	
FS19JE12	Peterbilt 348, 2-Door Commercial Cab, rear 3000 Gallon Tanker, Wet Side Body, Tandem Axle, 500 GPM Pump, Stainless Steel Body	
FS19JE13	International 4400, 2-Door, Commercial Cab, 2000 Gallon Elliptical Vacuum Tanker, Welded Stainless Steel Body, Single Axle, 500 GPM Pump	
FS19JE14	International, 2-Door, Commercial Cab, 3500 Gallon Elliptical Vacuum Tanker, Welded Stainless Steel Body, Tandem Axle, 500 GPM Pump	
FS19JE15	Freightliner M2, 2-Door, Commercial Cab, 2000 Gallon Elliptical Vacuum Tanker, Welded Stainless Steel Body, Single Axle, 500 GPM Pump	
FS19JE16	Freightliner, 2-Door, Commercial Cab, 3500 Gallon Elliptical Vacuum Tanker, Welded Stainless Steel Body, Tandem Axle, 500 GPM Pump	
FS19JE17	E-ONE Typhoon, 4-Door, Custom Full-Tilt, Welded Aluminum Cab, Pumper/Tanker, Welded Extruded Aluminum Body, Tandem Axle, 1250 GPM Pump, Mid-Mounted Pump Module	
F. Airport Rescue Fire-Fighting Vehicles		
FS19JF01	E-ONE Titan 4x4 P801-Class 4 ARFF, Coil Spring Suspension, 1585 water/205 foam gallons, 500 lbs dry chemical, NFPA 414 & FAA Compliant)	
FS19JF02	E-ONE Titan 6x6 P811, Class 5 ARFF, Coil Spring Suspension, 3170 water/420 foam gallons, 500 lbs dry chemical, NFPA 414 & FAA Compliant	
K. Emergency Vehicles, Inc. (EVI)		
D. Special Service Apparatus (Walk-In & Non-Walk In Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile		
FS19KD01	Ford F-550 2-Door, Single Axle | 10' Non-Walk-In Rescue (Aluminum)	
FS19KD02	Ford F-550 2-Door, Single Axle | 12' Non-Walk-In Rescue (Aluminum)	
FS19KD03	Ford F-550 4-Door, Single Axle | 12' Non-Walk-In Rescue (Aluminum)	
FS19KD04	Ford F-550 2-Door, Single Axle | 12' Walk-In Rescue (Aluminum)	
FS19KD05	Freightliner M2, 2-Door, Single Axle | 16' Non-Walk-In Rescue (Aluminum)	
FS19KD06	International 4400, 2-Door, Single Axle | 16' Non-Walk-In Rescue (Aluminum)	
FS19KD07	Freightliner M2, 4-Door, Single Axle | 16' Non-Walk-In Rescue (Aluminum)	
FS19KD08	Freightliner M2, 2-Door, Single Axle | 16' Walk-In Rescue (Aluminum)	
FS19KD09	International 4400, 2-Door, Single Axle | 16' Walk-In Rescue (Aluminum)	
FS19KD10	Freightliner M2, 4-Door, Single Axle | 18' Walk-In Rescue (Aluminum)	
FS19KD11	International 4400, 4-Door, Single Axle | 18' Walk-In Rescue (Aluminum)	
FS19KD12	Freightliner M2, 2-Door, Single Axle | 18' Crew-Body Rescue (Aluminum)	
FS19KD13	Freightliner M2, 2-Door, Single Axle | 18' Mobile Command Center (Aluminum)	
FS19KD14	Spartan, 4-Door Full Tilt, Single Axle | 21' Non-Walk-In Rescue (Aluminum)	
FS19KD15	Spartan, 4-Door Full Tilt, Single Axle | 21' Walk-In Rescue (Aluminum)	
FS19KD16	Freightliner M2, 4-Door, Single Axle | 25' Walk-In Rescue (Aluminum)	
FS19KD17	International 4400, 4-Door, Single Axle | 25' Walk-In Rescue (Aluminum)	
FS19KD18	Freightliner M2, 4-Door, Tandem Axle | 25' Walk-In Rescue (Aluminum)	
FS19KD19	International 4400, 4-Door, Tandem Axle | 25' Walk-In Rescue (Aluminum)	
FS19KD20	Spartan, 4-Door, Full Tilt, Tandem Axle | 30' Walk-In Rescue (Aluminum)	
FS19KD21	Freightliner M2, 2-Door, Tandem Axle | 30' Walk-In Command Center (Aluminum)	

FS19KD22	Ford F-550 2-Door, Single Axle | 14' Crew-Body Rescue (Aluminum)	
FS19KD23	Ford F-550 4-Door, Single Axle | 12' 1250 GPM Mini-Pumper (Aluminum)	
FS19KD24	Ford F-550 2-Door, Single Axle | 10' Quick Attack (Aluminum)	
FS19KD25	Ford Expedition SUV Single Axle | Command Vehicle	
FS19KD26	Ford F-350 4-Door Pick Up, Single Axle | Command Vehicle	
FS19KD27	Ford F-550 2-Door, Single Axle | 16' Walk-In Special Service Unit (Aluminum)	
FS19KD28	Ford Transit 350, Single Axle | Command Unit	
FS19KD29	Freightliner M2 2-Door, Single Axle | 32' Walk-In Command Center (Aluminum)	
FS19KD30	Spartan, 3-Door, Single Axle | 24' Crew-Body Haz-Mat Unit (Aluminum)	
FS19KD31	Spartan, 3-Door, Single Axle | 24' Non-Walk-In Haz-Mat Unit (Aluminum)	
FS19KD32	Spartan, 4-Door Tandem Axle | 26' Non-Wak-In Rescue (Aluminum)	
FS19KD33	International 4400 2-Door, Single Axle | 15' Air-Light Unit (Aluminum)	
FS19KD34	Ford F-550 Super Cab, Single Axle | 10' ESU Unit (Aluminum)	
FS19KD35	Ford Transit 350, single axle tactical unit	
L. Ferrara		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19LA01	Cinder, 4-Door Full-Tilt OEM Cab, Extruded Aluminum Body, Single Axle, 57' Rear Mounted Telescoping Ladder	
FS19LA02	Igniter, 4-Door Full-Tilt OEM Cab, Extruded Aluminum Body, Single Axle, 57' Rear Mounted Telescoping Ladder	
FS19LA03	Inferno, 4-Door Full-Tilt OEM Cab, Extruded Aluminum Body, Single Axle, 57' Rear Mounted Telescoping Ladder	
FS19LA04	Cinder, 4-Door Full-Tilt OEM Cab, Extruded Aluminum Body, Single Axle, 77' Rear Mounted Telescoping Ladder	
FS19LA05	Igniter, 4-Door Full-Tilt OEM Cab, Extruded Aluminum Body, Single Axle, 77' Rear Mounted Telescoping Ladder	
FS19LA06	Inferno, 4-Door Full-Tilt OEM Cab, Extruded Aluminum Body, Single Axle, 77' Rear Mounted Telescoping Ladder	
FS19LA07	Inferno, 4-Door Full-Tilt OEM Cab, Extruded Aluminum Body, Tandem Axle, 107' Rear Mounted Telescoping Ladder	
FS19LA08	Inferno, 4-Door Full-Tilt OEM Cab, Extruded Aluminum Body, Tandem Axle, 127' Rear Mounted Telescoping Ladder	
FS19LA09	Inferno, 4-Door Full-Tilt OEM Cab, Extruded Aluminum Body, Tandem Axle, 100' Mid-Mounted Telescoping Ladder	
FS19LA10	Inferno, 4-Door Full-Tilt OEM Cab, Extruded Aluminum Body, Tandem Axle, 85' Mid-Mounted Telescoping Ladder with Platform	
FS19LA11	Inferno, 4-Door Full-Tilt OEM Cab, Extruded Aluminum Body, Tandem Axle, 85' Rear Mounted Telescoping Ladder with Platform	
FS19LA12	Inferno, 4-Door Full-Tilt OEM Cab, Extruded Aluminum Body, Tandem Axle, 100' Rear Mounted Telescoping Ladder with Platform	
FS19LA13	Inferno, 4-Door Full-Tilt OEM Cab, Extruded Aluminum Body, Tandem Axle, 100' Mid-Mounted Telescoping Ladder with Platform	
FS19LA14	Inferno, 4-Door Full-Tilt OEM Cab, Aluminum Body, Tandem Axle, 100' Tractor Drawn Ladder	
B. Wildland Fire Apparatus (Brush Fire)		
FS19LB01	Self-Contained Slip-In Unit	
FS19LB02	Ferrara Brush Fire Apparatus, Ford Truck, Extruded Aluminum Flatbed	
FS19LB03	Ferrara Brush Fire Apparatus, Dodge Truck, Extruded Aluminum Flatbed	
C. Pumper Fire Apparatus		
FS19LC01	Freightliner M2, 2-Door, Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Mid-Mounted Pumper	
FS19LC02	Freightliner M2, 4-Door, Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Mid-Mounted Pumper	
FS19LC03	Custom Cinder, 4-Door, Full-Tilt Cab, Extruded Aluminum Body, Single Axle, 1500 GPM Pump, Mid-Mounted Pumper	
FS19LC04	Custom Igniter, 4-Door, Full-Tilt Cab, Extruded Aluminum Body, Single Axle, 1500 GPM Pump, Mid-Mounted Pumper	

FS19LC05	Custom Inferno, 4-Door, Full-Tilt Cab, Extruded Aluminum Body, Single Axle, 1500 GPM Pump, Mid-Mounted Pumper	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile		
FS19LD01	Ford 550, 2-door Cab, Single Axle, Extruded Aluminum Body, NON-Walk-In LIGHT Rescue	
FS19LD02	Ford 550, 2-door Super Cab, Single Axle, Extruded Aluminum Body, NON-Walk-In LIGHT Rescue	
FS19LD03	Ford 550, 4-door Cab, Single Axle, Extruded Aluminum Body, NON-Walk-In LIGHT Rescue	
FS19LD04	Freightliner M2, 2-door Cab, Single Axle, Extruded Aluminum Body, NON-Walk-In MEDIUM Rescue	
FS19LD05	Freightliner M2, 4-door Cab, Single Axle, Extruded Aluminum Body, NON-Walk-In MEDIUM Rescue	
FS19LD06	Freightliner M2, 2-door Cab, Single Axle, Extruded Aluminum Body, Walk-In MEDIUM Rescue	
FS19LD07	Freightliner M2, 4-door Cab, Single Axle, Extruded Aluminum Body, Walk-In MEDIUM Rescue	
FS19LD08	Cinder, 4-Door, Full-Tilt, OEM Cab, Single Axle, Extruded Aluminum Body, NON Walk-In HEAVY Rescue	
FS19LD09	Cinder, 4-Door, Full-Tilt, OEM Cab, Single Axle, Extruded Aluminum Body, Walk-In HEAVY Rescue	
FS19LD10	Igniter, 4-Door, Full-Tilt, OEM Cab, Single Axle, Extruded Aluminum Body, NON Walk-In HEAVY Rescue	
FS19LD11	Igniter, 4-Door, Full-Tilt, OEM Cab, Single Axle, Extruded Aluminum Body, Walk-In HEAVY Rescue	
FS19LD12	Inferno, 4-Door, Full-Tilt, OEM Cab, Single Axle, Extruded Aluminum Body, NON Walk-In HEAVY Rescue	
FS19LD13	Inferno, 4-Door, Full-Tilt, OEM Cab, Single Axle, Extruded Aluminum Body, Walk-In HEAVY Rescue	
FS19LD14	Inferno, 4-Door, Full-Tilt, OEM Cab, Single Axle, Extruded Aluminum Body, Incident Command Vehicle	
E. Pumper/Tankers & Tankers		
FS19LE01	M2 Freightliner, 2-Door, Extruded Aluminum Body, Tandem Axle, 1250 GPM Pump, Mid-Mounted Pumper/Tanker (3000 Gallons)	
FS19LE02	M2 Freightliner, 4-Door, Extruded Aluminum Body, Tandem Axle, 1250 GPM Pump, Mid-Mounted Pumper/Tanker (3000 Gallons)	
FS19LE03	Custom Cinder 2, 4-Door, Extruded Aluminum Body, Tandem Axle, 1250 GPM Pump, Mid-Mounted Pumper/Tanker (3000 Gallons)	
FS19LE04	Custom Igniter, 4-Door, Extruded Aluminum Body, Tandem Axle, 1250 GPM Pump, Mid-Mounted Pumper/Tanker (3000 Gallons)	
FS19LE05	Custom Inferno, 4-Door, Extruded Aluminum Body, Tandem Axle, 1250 GPM Pump, Mid-Mounted Pumper/Tanker (3000 Gallons)	
M. Firematic		
B. Wildland Fire Apparatus (Brush Fire)		
FS19MB01	Firematic, RALLY B.R.A.T. ® Ford F550, 4WD, 4-Door , Aluminum flatbed body, 300 Gallon Water Tank, 18 HP Pump, Pump and Roll Capability, Super Single wheels and tires	
FS19MB02	Firematic, Rally B.R.A.T. ® Ford F550, 4WD, 4-Door , Aluminum compartment body, 300 Gallon Water Tank, 18 HP Pump, Pump and Roll Capability, Super Single wheels and tires	
FS19MB03	Firematic, Rally B.R.A.T. ® Ford F350, 4WD, 2-Door , Aluminum flatbed body, 250 Gallon Water Tank, Hale HPX200 Pump, Pump and Roll Capability, Super Single wheels and tires	
FS19MB04	Firematic, Army 2.5 ton Brush Breaker, 6WD, 2-Door , Steel flatbed and tube body, 600 Gallon Water Tank, Hale 30FS/Deutz Diesel Pump, Pump and Roll Capability	
FS19MB05	Firematic, Army 5 ton Brush Breaker, 6WD, 2-Door , Steel flatbed and tube body, 1000 Gallon Water Tank, Hale 30FS/Deutz Diesel Pump, Pump and Roll Capability, Super Single wheels and tires	

FS19MB06	Firematic, Rally B.R.A.T. ® Dodge 5500, 4WD, 4-Door , Aluminum flatbed body, 300 Gallon Water Tank, 18 HP Pump, Pump and Roll Capability, Super Single wheels and tires	
FS19MB07	Firematic, B.R.A.T. ® Ford F550, 4WD, 4-Door , Aluminum flatbed body, Aluminum investment protection cage, 300 Gallon Water Tank, 18 HP Pump, Pump and Roll Capability, Super Single wheels and tires	
FS19MB08	Firematic, Rally Grass Rig Ford F450, 4WD, 2-Door , Aluminum flatbed body with walkway, 300 Gallon Water Tank, Hale HPX200 Pump, Pump and Roll Capability, Super Single wheels and tires	
C. Pumper Fire Apparatus		
FS19MC01	Firematic, B.R.A.T. ® 1000. Commercial Pumper, Aluminum compartment body, Mid Mount, Ford F550 4x4, 300 Gallon Water Tank, 1250 GPM Pump	
FS19MC02	Firematic, Rally B.R.A.T. ® 1000. Commercial Pumper, Aluminum flatbed body, Mid Mount, Ford F550 4x4, 300 Gallon Water Tank, 1250 GPM Pump	
FS19MC03	Firematic, Brute Commercial Pumper, Aluminum compartment body, Front Mount, Freightliner 4x4, 750 Gallon Water Tank, 1250 GPM Pump	
FS19MC04	Firematic, Brute Commercial Pumper, Aluminum compartment body, Front Mount, International 7400 4x4, 750 Gallon Water Tank, 1500 GPM Pump	
FS19MC05	Firematic, Brute Commercial Pumper, Aluminum compartment body, Mid Mount, 750 Gallon Water Tank, 1250 GPM Pump	
D. Special Service Apparatus (Walk-In & Non-Walk In Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19MD01	Firematic, Rescue B.R.A.T. ® Non Walk In, Aluminum Body Light Rescue, Ford F550	
FS19MD02	Firematic, Rescue B.R.A.T. ® Walk In, Aluminum Body Light Rescue, Ford F550	
FS19MD03	Firematic, Commercial Rescue, non Walk In, Aluminum Body	
FS19MD04	Firematic, Commercial Rescue, Walk In, Aluminum Body	
FS19MD05	Firematic, Special Purpose, Chief's Vehicle, Ford	
FS19MD06	Firematic, Special Purpose, Chief's Vehicle, Chevy	
FS19MD07	Firematic, Special Purpose, Chief's Vehicle, Dodge	
N. HME		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19NA01	Ahrens-Fox Fire Engine Co. AF1 Chassis, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Single Axle, Stainless Steel Body, 1500 GPM Single Stage Pump, 400 Gallon Tank, Steel Ladder, 1000# Tip Load, Rear Mounted Telescoping Ladder	
FS19NA02	HME 1871W, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Single Axle, Stainless Steel Body, 1500 GPM Single Stage Pump, 400 Gallon Tank, Steel Ladder HAF80L, 1000# Tip Load, Rear Mounted Telescoping Ladder	
FS19NA03	Ahrens-Fox Fire Engine Co. AF1, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Tandem Axle, Stainless Steel Body, 1500 GPM Single Stage Pump, 400 Gallon Tank, Steel Ladder, 1000# Tip Load, Rear Mounted Telescoping Ladder	
FS19NA04	HME 1871W, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Tandem Axle, Stainless Steel Body, 1500 GPM Single Stage Pump, 400 Gallon Tank, Steel Ladder HAF111L, 1000# Tip Load, Rear Mounted Telescoping Ladder	
FS19NA05	HME SFO, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Single Axle, Stainless Steel Body, 1500 GPM Single Stage Pump, 500 Gallon Tank, HAF51T, 1000# Tip Load, Rear Mounted Steel Boom	
FS19NA06	Ahrens-Fox Fire Engine Co. AF1, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six Man Seating, Tandem Axle, Stainless Steel Body, 10GPM Single Stage Pump, 500 Gallon Tank, Stainless Platform, 500# Tip Load, Rear Mounted Telescoping Ladder	
B. Wildland Fire Apparatus (Brush Fire)		
FS19NB01	HME Ford F-550 4x4 Initial Attack MiniEvo, 1500 GPM Side Mounted Pump, Stainless Steel Body, 400 Gallons	

FS19NB02	HME SFO Initial Attack Type I, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, 1250 GPM Side Mounted Pump, Stainless Steel Body, Single Axle, 850 Gallons	
FS19NB03	HME International 4x4 Quick Attack Type III/34D, 500 GPM Side Mounted Pump, Stainless Steel Body, Single Axle, 500 Gallons	
FS19NB04	Ahrens-Fox Fire Engine Co. WUI (Wildland Urban Interface), 4-Door Custom, SFO-MFDxl, 4x4 AWD, Extruded Aluminum Cab, Four (4) Man Seating, 1500 GPM Distributed Water System, Pump and Roll, Stainless Steel Body, 700 Gallons, Michelin 445/50R 22.5 Super Single Tires	
C. Pumper Fire Apparatus		
FS19NC01	Ahrens-Fox Fire Engine Co. AF1, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Pumper, Stainless Steel Body, Single Axle, 1250 GPM Side Mounted Pump, 1045 Gallons	
FS19NC02	HME 1871W, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Pumper, Stainless Steel Body, Single Axle, 1250 GPM Side Mounted Pump, 1045 Gallons	
FS19NC03	HME SFO, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Pumper, Stainless Steel Body, Single Axle, 1250 GPM Side Mounted Pump, 1045 Gallons	
FS19NC04	HME International 2-Door Commercial Cab, Pumper, Stainless Steel Body, Single Axle, 1250 GPM Side Mounted Pump, 1045 Gallons	
FS19NC05	HME International 4-Door Commercial Cab, Pumper, Stainless Steel Body, Single Axle, 1250 GPM Side Mounted Pump, 1045 Gallons	
FS19NC06	HME 4x4 SFO H.X.R., 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (4) Man Seating, Pumper, Stainless Steel Body, Single Axle, 1500 GPM Side Mounted Pump, 500 Gallon Tank, Michelin 445/50R 22.5 Super Single Tires	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19ND01	Ahrens-Fox Fire Engine Co. AF1, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Single Axle, 14' Stainless Steel Body, Non-Walk-In Rescue	
FS19ND02	HME 1871W, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Single Axle, 14' Stainless Steel Body, Non-Walk-In Rescue	
FS19ND03	HME SFO, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Single Axle, 14' Stainless Steel Body, Non-Walk-In Rescue	
FS19ND04	Ahrens-Fox Fire Engine Co. AF1, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Single Axle, 18' Stainless Steel Body, Non-Walk-In Rescue	
FS19ND05	HME 1871W, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Single Axle, 18' Stainless Steel Body, Non-Walk-In Rescue	
FS19ND06	HME SFO, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Single Axle, 18' Stainless Steel Body, Non-Walk-In Rescue	
FS19ND07	HME Ford F-550 4x4 4-Door Light Rescue PackRat, Non-Walk-In Stainelss Steel Rescue Body	
E. Pumper/Tankers & Tankers		
FS19NE01	Ahrens-Fox Fire Engine Co. AF1, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Stainless Steel Body, Tandem Axle, 1250 GPM Side Mounted Pumper/Tanker, 3000 Gallons	
FS19NE02	HME 1871W, 4-Door Custom Full-Tilt Extruded Aluminum Cab, Six (6) Man Seating, Stainless Steel Body, Tandem Axle, 1250 GPM Side Mounted Pumper/Tanker, 3000 Gallons	
FS19NE03	HME International 2-Door Commercial Cab, Stainless Steel Body, Tandem Axle, 1250 GPM Side Mounted Pumper/Tanker, 3000 Gallons	
FS19NE04	HME International 4-Door Commercial Cab, Stainless Steel Body, Tandem Axle, 1250 GPM Side Mounted Pumper/Tanker, 3000 Gallons	
O. KME		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19OA01	KME, 4-Door Full-Tilt Aluminum Cab, Formed Aluminum Body, Single Axle, 79' 500# Rear Mounted Telescoping Steel Ladder	

FS19OA02	KME, 4-Door Full-Tilt Aluminum Cab, Formed Aluminum Body, Tandem Axle, 103', 4 Section, 500# Rear Mounted Telescoping Steel Ladder	
FS19OA03	KME, 4-Door Full-Tilt Aluminum Cab, Formed Aluminum Body, Tandem Axle, 79' 750# Rear Mounted Telescoping Steel Ladder	
FS19OA04	KME, 4-Door Full-Tilt Aluminum Cab, Formed Aluminum Body, Tandem Axle, 123' 500# Rear Mounted Telescoping Steel Ladder	
FS19OA05	KME, 4-Door Full-Tilt Aluminum Cab, Formed Aluminum Body, Tandem Axle, 102' 1000# Rear Mounted Telescoping Ladder with Platform	
FS19OA06	KME, 4-Door Full-Tilt Aluminum Cab, Formed Aluminum Body, Tandem Axle, 100' 1000# Mid-Mounted Telescoping Ladder with Platform	
FS19OA07	KME, 4-Door Full-Tilt Aluminum Cab, Formed Aluminum Body, Single Axle, 100' 500# (Mid-Mount), Telescoping Steel Ladder	
FS19OA08	KME, 4-Door Full-Tilt Aluminum Cab, Formed Aluminum Body, Single Axle, 55' Water Tower (FireStix)	
FS19OA09	International 4400, 4-Door, Formed Aluminum Body, Single Axle, 55' Water Tower (FireStix)	
FS19OA10	KME, 4-Door Full-Tilt Aluminum Cab, Formed Aluminum Body, Tractor Drawn Aerial (TDA), 100', 4 Section 500# Steel Telescoping Ladder	
B. Wildland Fire Apparatus (Brush Fire)		
FS19OB01	Ford F-550, 4 x 4, 2-Door, Skid Mounted Pumper Body	
FS19OB02	Ford F-550, 4 x 4, 2-Door, Flatbed Style Skid Mounted Pumper	
FS19OB03	Ford F-550, 4 x 4, 2-Door, Aluminum Minipumper Body, 300 gal. Tank, 1000 gpm Midship PTO Pump	
FS19OB04	International 7400, 4x4, 4-Door, Ridgerunner, Dual Pump, 500/20 Gals Water/Foam, NFPA 1901/1906	
FS19OB05	International 7400, 4 x 4, 4-Door, OEM Interface Pumper, Formed Alum Body, Single Axle, 750 GPM, 500 Gallon Water	
C. Pumper Fire Apparatus		
FS19OC01	Freightliner M2, 2-Door, OEM Pumper, Formed Aluminum Body, Single Axle, 1250 GPM Pump, 750 Gal Tank-Challenger Series Pumper	
FS19OC02	International 4400, 2-Door, OEM Pumper, Formed Aluminum Body, Single Axle, 1250 GPM Pump, 750 Gal Tank-Pumper	
FS19OC03	KME Panther Chassis, 4-Door, Full-Tilt, Aluminum Cab, Formed Aluminum Body, Single Axle, 1250 GPM Pump, 750 Gal Tank-Pumper	
FS19OC04	KME Predator Chassis, 4-Door, Full-Tilt, Aluminum Cab, Alum Body, Single Axle, 1250 GPM Pump, Pumper	
FS19OC05	KME Severe Service Chassis, 4-Door, Full-Title, Aluminum Cab, Alum Body, Single Axle, 1250 GPM Pump, 750 Gal Tank Pumper	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19OD01	Ford F-550 4 x 2 Chassis, 2 Door, Light Duty Walk-Around Body	
FS19OD02	Intl 4300, 4 x 2, 2-Door, Medium Duty Walk-Around Body	
FS19OD03	International 4400, 4 x 2, 2-Door, Medium Duty Walk-In Body	
FS19OD04	KME Predator Chasis, 4-Door, Full-Tilt, Aluminum Cab, Alum Body, Single Axle, Heavy Duty Walk-Around Body	
FS19OD05	KME Custom, 4-Door, Full-Tilt, Aluminum Cab, Alum Body, Single Axle, Heavy Duty Combination Walk-in / Walk-Around Body	
FS19OD06	International 4400 4x2, 2-Door, 10 person Crew Carrier	
E. Pumper/Tankers & Tankers		
FS19OE01	International 4400, 2-Door, Aluminum Treadplate Body, Single Axle, 1250 GPM Pump, Painted 1800 Gal Elliptical Tanker	
FS19OE02	International 7400, 2-Door, Aluminum Treadplate Body, Tandem Axle, 1250 GPM Pump, Painted 2500 Gal Elliptical Tanker	
FS19OE03	International 4400, 2-Door, Aluminum Treadplate Body, Single Axle, 500 GPM Pump, Painted 1800 Gal Wetside Tanker	
FS19OE04	International 7400, 2-Door, Aluminum Treadplate Body, Tandem Axle, 500 GPM Pump, Painted 2500 Gal Wetside Tanker	

FS19OE05	International 4400, 2-Door, Formed Galvanneal Body, Single Axle, 750 GPM Pump, 1800 Gal Dryside Tanker	
FS19OE06	International 7400, 2-Door, Formed Galvanneal Body, Tandem Axle, 750 GPM Pump, 3000 Gal Dryside Tanker	
FS19OE07	International 4400, 2-Door, Formed Galvanneal Body, Single Axle, 1250 GPM Pump, 1800 Gal Pumper/Tanker	
FS19OE08	International 7400, 2-Door, Formed Galvanneal Body, Tandem Axle, 1250 GPM Pump, 2500 Gal Pumper/Tanker	
FS19OE09	KME Predator, 4-Door, Full-Tilt, Aluminum Cab, Alum Body, Tandem Axle, 3,000 Gallon, Pumper-Tanker with 1250gpm Pump	
F. Airport Rescue Fire-Fighting Vehicles		
FS19OF01	Ford F550, 4 x 4, 4-Door, Class 1 RIV, 120 GAL AFFF Pre-mix	
FS19OF02	Ford F550, 4 x 4, 4-Door, Class 2 RIV, 500 GPM Pump, 300/40 Gal Water/Foam Tank	
FS19OF03	International 7400 4 x 4, 2-Door, Class 3 RIV, 500 GPM Pump, 500/75 Gal Water/Foam Tank	
FS19OF04	KME Custom Class 4 ARFF, 4 x 4, 2000 GPM, 1500/200 Gal Water/Foam Tank	
FS19OF05	KME Custom Class 5 ARFF, 6 x 6, 2000 GPM, 3000/400 Gal Water/Foam Tank	
P. Marion		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19PA01	Spartan 4-Door, Aluminum Tilt Cab, Extruded Aluminum Body, 1500 GPM Pump, rear mount, 75' 3-section, telescopic steel ladder, Single Axle, 500#, 300 Gal. Tank	
FS19PA02	Spartan 4-Door, Aluminum Tilt Cab, Extruded Aluminum Body, 1500 GPM Pump, Rear Mount, 110' 4-section telescopic steel ladder, Tandem Axle, 750#, 300 Gal. Tank	
C. Pumper Fire Apparatus		
FS19PC01	IH 4400,2-Door, Pumper, Extruded Aluminum Body, Single axle,1250 GPM Pump, Side Mounted, 750 Gal. Tank	
FS19PC02	Freightliner M2, 2-Door, Pumper, Extruded Aluminum Body, Single Axle,1250 GPM Pump, Side Mounted, 750 Gal. Tank	
FS19PC03	Spartan 4-Door, Pumper, Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Side Mounted, 750 Gal.Tank	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19PD01	Ford F550, 2-Door, Aluminum Extruded Body, Single Axle, Non-Walk-in, Roll up doors, Rescue 12'	
FS19PD02	IH4400, 2-Door, Aluminum Extruded Body, Single Axle, Non-Walk-in, Roll up doors, Rescue 17'	
FS19PD03	Spartan 4-Door, Aluminum Tilt Cab, 10" Raised Roof, Aluminum Extruded Body, Single Axle, Non-Walk-in, Roll up doors, Rescue 17'	
FS19PD04	IH4400, 2-Door, Aluminim Extruded Body, Single Axle, Walk-in, Roll up doors, Rescue 19'	
FS19PD05	Spartan 4-Door, Aluminum Tilt Cab, 10" Raised Roof, Aluminum Extruded Body, Walk-in, Single Axle, Roll up doors, Rescue 19'	
E. Pumper/Tankers & Tankers		
FS19PE01	IH4400, 2-Door, Extruded Aluminum Body, Single Axle, 1250 GPM Pump, 1800 Gal. Tank, Single Dump Valve	
FS19PE02	IH7400, 2-Door, Extruded Aluminum Body, Tandem Axle, 1250 GPM Pump, 3000 Gal. Tank, 3 Dump Valves	
FS19PE03	Spartan 2-Door, CustomTilt Cab, Extruded Aluminum Body, Single Axle, 1250 GPM Pump, 1800 Gal. Tank, Single Dump Valve	
Q. Maintainer Custom Bodies, Inc. (MCB)		
B. Wildland Fire Apparatus		
FS19QB01	Spitfire Series, Quick Attack, 300-Gallon Tank & CET Honda Pump, 9' All Aluminum Body on Ford F550 Diesel, 2-Door, 4X4 Chassis	
FS19QB02	Spitfire Series, Quick Attack, 300-Gallon Tank & CET Honda Pump, 9' All Aluminum Body on Ram 5500 Diesel, 2-Door, 4X4 Chassis	

FS19QB03	Spitfire Series, Quick Attack, 300-Gallon Tank & CET Honda Pump, 9' All Aluminum Body on Chevrolet MD Diesel, 2-Door, 4X4 Chassis	
FS19QB04	Responder Series, Quick Attack Urban Interface, 300-Gallon Tank & CET Honda Pump, 10' All Aluminum Body on Ford F550 Diesel, 2-Door, 4X4 Chassis	
FS19QB05	Responder Series, Quick Attack Urban Interface, 300-Gallon Tank & CET Honda Pump, 10' All Aluminum Body on Ram 5500 Diesel, 2-Door, 4X4 Chassis	
FS19QB06	Responder Series, Quick Attack Urban Interface, 300-Gallon Tank & CET Honda Pump, 10' All Aluminum Body on Chevrolet MD Diesel, 2-Door, 4X4 Chassis	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19QD01	MCB Responder Super Squad Series, 9' All Aluminum Walk-Around Squad on Ford F350 Diesel, Super Cab, 4X4 Chassis	
FS19QD02	MCB Responder Series 10' All Aluminum Walk-Around Rescue on Ford F450 Diesel, 4-Door, 4X4 Chassis	
FS19QD03	MCB Responder Series 10' All Aluminum Walk-Around Rescue on Dodge RAM 5500 Diesel, 4-Door, 4X4 Chassis	
FS19QD04	MCB Responder Series 10' All Aluminum Walk-Around Rescue on Chevrolet MD Diesel, 4-Door, 4X4 Chassis	
FS19QD05	MCB Responder Series 12' All Aluminum Walk-around Rescue on Ford F550 Diesel, 4-Door, 4X4 Chassis	
FS19QD06	MCB Responder Series 12' All Aluminum Walk-Around Rescue on Ram 5500 Diesel, 4-Door, 4X4 Chassis	
FS19QD07	MCB Responder Series 12' All Aluminum Walk-Around Rescue on Chevrolet MD Diesel, 4-Door, 4X4 Chassis	
FS19QD08	MCB Responder Series 15' All Aluminum Walk-Around Rescue on Ford F550 Diesel, 2-Door, 4X4 Chassis	
FS19QD09	MCB Responder Series 15' All Aluminum Walk-Around Rescue on Ram 5500 Diesel, 2-Door, 4X4 Chassis	
FS19QD10	MCB Responder Series 15' All Aluminum Walk-Around Rescue on Chevrolet MD Diesel, 2-Door, 4X4 Chassis	
FS19QD11	MCB Responder Series 15' Forward Crew Walk-In Rescue on Ford F550 Diesel, 2-Door, 4X2 Chassis	
FS19QD12	MCB Responder Series 15' Forward Crew Walk-In Rescue on Ram 5500 4x2 Diesel, 2-Door, 4X4 Chassis	
FS19QD13	MCB Responder Series 15' Forward Crew Walk-In Rescue on Chevrolet MD Diesel, 2-Door, 4X4 Chassis	
FS19QD14	MCB Responder Series 18' All Aluminum Walk-Around Rescue on International MV607, 2-Door, 4X2 Chassis	
FS19QD15	MCB Responder Series 18' All Aluminum Walk-Around Rescue on Freightliner M2-106, 2-Door, 4X2 Chassis	
FS19QD16	MCB Responder Series 20' All Aluminum Walk-Around Rescue on International MV607, 2-Door, 4X2 Chassis	
FS19QD17	MCB Responder Series 20' All Aluminum Walk-Around Rescue on Freightliner M2-106, 2-Door, 4X2 Chassis	
FS19QD18	MCB Responder Series 22' All Aluminum Walk-Around Rescue on International MV607, 2-Door, 4X2 Chassis	
FS19QD19	MCB Responder Series 22' All Aluminum Walk-Around Rescue on Freightliner M2-106, 2-Door, 4X2 Chassis	
FS19QD20	MCB Responder Series 24' All Aluminum Walk-Around Rescue on International MV607, 2-Door, 4X2 Chassis	
FS19QD21	MCB Responder Series 24' All Aluminum Walk-Around Rescue on Freightliner M2-106, 2-Door, 4X2 Chassis	
R. Metro Fire Apparatus Specialists		
B. Wildland Fire Apparatus (Brush Fire)		
FS19RB01	Self Contained Slide In Unit, 250 gallon	
FS19RB02	Metro Brush Truck, Ford F450 2Dr, Aluminum Flat Bed, 300 Tank	
FS19RB03	Metro Brush Truck, Ford F550 2Dr, Aluminum Flat Bed, 300 Tank	

FS19RB04	Metro Brush Truck, Ford F600 2Dr, Aluminum Flat Bed, 300 Tank	
FS19RB05	Metro Brush Truck, Ford F650 2Dr, Aluminum Flat Bed, 300 Tank	
C. Pumper Fire Apparatus		
FS19RC01	Metro Mini-Pumper, Ford F550 2Dr, Aluminum Body, 1250gpm pump, 500 Tank	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19RD01	Metro Light Rescue, Ford F550 2Dr, Aluminum Body, Non-Walk-In	
FS19RD02	Metro Light Rescue, Ford F600 2Dr, Aluminum Body, Non-Walk-In	
FS19RD03	Metro Light Rescue, Ford F650 2Dr, Aluminum Body, Non-Walk-In	
FS19RD04	Spartan Metro Star Chassis	
FS19RD05	Spartan Gladiator Chassis	
S. Midwest Fire		
B. Wildland Fire Apparatus (Brush Fire)		
FS19SB01	Midwest Fire Brush Unit - F-550 Diesel, Aluminum Flatbed, Pump and Roll Capabilities, 400 GPM portable pump, 250 gallons, Regular Cab, 60" CA	
FS19SB02	Midwest Fire Brush Unit - F-550 Diesel, Aluminum Flatbed, Pump and Roll Capabilities, 400 GPM portable pump, 250 gallons, Regular Cab, 84" CA	
FS19SB03	Midwest Fire ***All-Poly*** Quick Attack - F-550 Diesel, Regular Cab, 400 GPM portable pump, 250 gallons, ROM Doors, 84" CA	
C. Pumper Fire Apparatus		
FS19SC01	Midwest Fire ***All-Poly*** Pumper, 1000 Gallon, Rescue Style Lockers, Freightliner M2 Regular Cab, 1250 GPM Pump, Side Mounted Pump, Single Axle	
FS19SC02	Midwest Fire ***All-Poly*** Pumper, 1000 Gallon, Rescue Style Lockers, Freightliner M2 Crew Cab, 1250 GPM Pump, Side Mounted Pump, Single Axle	
E. Pumper/Tankers & Tankers		
FS19SE01	Midwest Fire ***All-Poly*** Tanker-Pumper, 2000 Gallon, Freightliner M2, 1000 GPM PTO, Pump and Roll, Single Axle	
FS19SE02	Midwest Fire ***All-Poly*** Tanker-Pumper, 3000 Gallon, Freightliner M2, 1000 GPM PTO, Pump and Roll, Tandem Axle	
FS19SE03	Midwest Fire ***All-Poly*** Tanker, 2000 Gallon, Freightliner M2, 750 GPM PTO pump, Pump and Roll, Single Axle, Under 30'	
FS19SE04	Midwest Fire ***All-Poly*** Tanker, 3000 Gallon, Freightliner M2, 250 GPM portable pump, pump and roll	
FS19SE05	Midwest Fire ***All-Poly*** Tactical Tender, 2000 Gallons, Freightliner M2, 750 GPM PTO Pump, Pump and Roll, Short Wheelbase Single Axle	
T. Nevada Pacific Services Inc.		
B. Wildland Fire Apparatus (Brush Fire)		
FS19TB01	Brush Fire Apparatus, Ford F-450, 2 door, gas engine Steel Flatbed	
FS19TB02	Brush Fire Apparatus Ford F-550, 2 Door, Gas Engine, Steel Flatbed w/ work stations	
FS19TB03	Brush Fire Apparatus, Ford F-550 2 Dr, Diesel engine Extruded Aluminum Flatbed w/ Aluminum comparments	
FS19TB04	Brush Fire Apparatus, Ford F-550, 2 Dr, Diesel engine Ply-Utility Body	

FS19TB05	Brush Fire Apparatus, Ford F-550 2 Door, Diesel Engine, with Aluminum Flatbed w/ work stations, Aluminum Compartments	
FS19TB06	Ford F-550 XL 4x4, 2-Dr, Gas Engine, 60" CA, Brush Truck,Aluminum flatbed and compartments 300 Gallon Tank, Water Pump, 200gpm Pump.	
FS19TB07	Ford F-550 XL 4X4, 4-Dr.,60" CA, Gas engine Brush Truck, Aluminum flatbed w/ Aluminum Compartment., 300 Gallon Tank, 240 gpm water pump.	
FS19TB08	Ford F-550 XL 4x4 Crew Cab, Diesel Engine, 60" CA, 9' Multi-Purpose Brush Truck/ Light Rescue 300 Gallon Tank, 300 gpm Water Pump.	
FS19TB09	Ford F-550 XL 4x4, 2-Dr, Diesel Engine, 165" WB, 12' Rescue Brush Truck, 300 Gallon Tank, Diesel Driven 220 gpm Water Pump.	
FS19TB10	Brush Fire Apparatus, Ford F-550, 60" CA, Crew Cab, Diesel Engine Steel Flatbed W/ work stations and Aluminum cabinets, 300 gal drop in tank 200 gpm pump	
FS19TB11	Brush Fire Apparatus, Ford F-550, Crew Cab, Diesel Engine 60" CA Aluminum Flatbed with work stations and Poly cabinets, 300 gal drop in tank 200 gpm pump	
FS19TB12	Brush Fire Apparatus, Ford F-550, 60" CA, 2 Door, Gas Engine, Steel Flatbed W/ work stations and Aluminum cabinets, 300 gal drop in tank 200 gpm pump	
FS19TB13	Self- Contained Slip-In Unit,Fire skid unit 11hp Honda pump 200gal tank hose reel with hose (option foam cell system & gallon tank sizes).	
FS19TB14	Self-Contained Slip-In-Unit, Fire skid unit 24 hp diesel pump 300 gal tank hose reel with hose, (option foam cell system & gallon tank sizes)	
FS19TB15	Self-Contained Slip-In-Unit, Fire skid unit 18 hp gasoline pump 400 gal tank hose reel with hose, (option foam cell system & gallon tank sizes)	
FS19TB16	Self-Contained Slip-In-Unit, Fire skid unit 18 hp gasoline pump 400 gal tank hose reel with hose, (option foam cell system & gallon tank sizes)	
FS19TB17	Self-Contained Slip-In-Unit, Fire skid unit CAFS 400gal tank(STORED ENERGY) hose reel with hose (potion foam cell system & purple K, & gallon tank sizes).	
FS19TB18	Self-Contained Glider Kit Aluminum flatbed, aluminum compartments, 300 gal Tank 200gpm pump, hose reel with hose.	
FS19TB19	Self-Contained Glider Kit Aluminum flat bed, aluminum compartments, 300 gal Tank, 200gpm pump, hose reel with hose.	
FS19TB20	Self-Contained Glider Kit Aluminum flatbed, Aluminum compartments, 300 gal Tank 200gpm pump, hose reel with hose.	
FS19TB21	Brush fire appparatus Freightliner M2-106 4WD **standard cab** with aluminum flatbed, aluminum compartments, 800 gallon tank, Diesel 300 gpm pump. Emergency lighting packag.	
FS19TB22	Brush fire appparatus Freightliner M2-106 4WD **EXTENDED cab** with aluminum flatbed, aluminum compartments, 800 gallon tank, Diesel 300 gpm pump. Emergency lighting packag.	
FS19TB23	Brush fire appparatus Freightliner M2-106 4WD **CREW CAB** with aluminum flatbed, aluminum compartments, 800 gallon tank, Diesel 300 gpm pump. Emergency lighting packag.	
FS19TB24	Brush fire appparatus Freightliner SD-108 4WD **STANDARD CAB** with aluminum flatbed, aluminum compartments, 800 gallon tank, Diesel 300 gpm pump. Emergency lighting packag.	
FS19TB25	Brush fire appparatus Freightliner SD-108 4WD **CREW CAB** with aluminum flatbed, aluminum compartments, 800 gallon tank, Diesel 300 gpm pump. Emergency lighting packag.	
FS19TB26	Water Tender Freightliner SD-108 4WD **STANDARD CAB** with aluminum flatbed, aluminum compartments, 1600 gallon tank, Diesel 300 gpm pump. Emergency lighting packag.	
FS19TB27	Freightliner, 2- door chassis, Tanker, tandem axile, 1000 GPM PTO pump, 4000 gal poly tank and body, stainless pumb,swivel dump, LED LIGHTS.	
FS19TB28	Freightliner, 2 - door chassis, Tanker tandem axle, 750 GPM PTO Pump, 3000, gal poly tank and body,stainess plumb, swivel dump, LED LIGHTS	
FS19TB29	Freightliner, 2 - door chassis, Tanker single axle, 750 GPM PTO Pump, 2000, gal poly tank and body,stainess plumb, swivel dump, LED LIGHTS	
U. OshKosh		
F. Airport Rescue Fire-Fighting Vehicles		
FS19UF01	Oshkosh Striker 4x4, 2-Door, Aluminum Cab, 2 Passenger Seating, Roof Turret (375/750 gpm), bumper Turret (300 gpm), One Handline (Foam/Water), Water Tank Capacity (1500 gal.), Foam Tank Capacity (210 gal.), Fire Pump (Power divider driven Waterous CRQB, Single Stage Centrifugal, 1950 gpm at 250 psi)	

FS19UF02	Oshkosh Striker 6x6, 2-Door, Aluminum Cab, 2 Passenger Seating, Roof Turret (600/1200 gpm), bumper Turret (300 gpm), One Handline (Foam/Water), Water Tank Capacity (3000 gal.), Foam Tank Capacity (420 gal.), Fire Pump (Power divider driven Waterous CRQB, Single Stage Centrifugal, 1950 gpm at 250 psi)	
FS19UF03	Oshkosh Striker 8x8, 2-Door, Aluminum Cab, 2 Passenger Seating, Roof Turret (600/1200 gpm), bumper Turret (300 gpm), One Handline (Foam/Water), Water Tank Capacity (4500 gal.), Foam Tank Capacity (420 gal.), Fire Pump (Power divider driven Waterous CRQA, Single Stage Centrifugal, 1950 gpm at 240 psi)	
FS19UF04	Oshkosh New Generation Striker 8x8, 2-Door, Aluminum Cab, 2 Passenger Seating, Roof Turret (600/1200 gpm), bumper Turret (300 gpm), One Handline (Foam/Water), Water Tank Capacity (4500 gal.), Foam Tank Capacity (420 gal.), Fire Pump (Waterous CRQB, Single Stage Centrifugal, 1950 gpm at 250 psi), dual engine driveline	
FS19UF05	Oshkosh Stinger Class 2 ARFF vehicle; 2-Door Ford 4x4 F550 Cab/chassis, 2 Passenger Seating, Bumper Turret, one (1) twin agent handline, Water Tank Capacity (300 gal.), Foam Tank Capacity (40 gal.), Dry Chemical 500 pounds.	
FS19UF06	Oshkosh H-Series Chassis; 2-Door, Aluminum Cab, 2 Passenger Seating, 50,000 GVWR, Single Axle	
FS19UF07	Oshkosh HT-Series Chassis; 2-Door, Aluminum Cab, 2 Passenger Seating, 55,000 GVWR, Single Axle	
FS19UF08	Oshkosh P-Series Chassis; 2-Door, Aluminum Cab, 2 Passenger Seating, 51,000 GVWR, Single Axle	
V. Pierce		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19VA01	Pierce Enforcer Chassis, 4-Door Full Tilt Aluminum Cab, Formed Aluminum Body, Single Axle, 75' Steal Rear-Mounted Telescoping Ladder (500#)	
FS19VA02	Pierce Enforcer Chassis, 4-Door Full Tilt Aluminum Cab, Formed Aluminum Body, Tandem Axle, 75' Steal Rear-Mounted Telescoping Ladder (500#)	
FS19VA03	Pierce Enforcer Chassis 4-Door 75' Aluminum Rear Mounted Telescoping Ladder, Formed Aluminum Body	
FS19VA04	Pierce Arrow Chassis 4-Door 100' Aluminum Rear Mount Aerial, Aluminum Body, Tandem Axle	
FS19VA05	Pierce Enforcer Chassis, 4-Door Full Tilt Aluminum Cab, Formed Aluminum Body, Single Axle, 107' Rear-Mounted Telescoping Ladder	
FS19VA06	Pierce Enforcer Chassis, 4-Door Full Tilt Aluminum Cab, Formed Aluminum Body, Tandem Rear Axle, 107' Rear-Mounted Telescoping Ladder	
FS19VA07	Pierce Enforcer Chassis, 4-Door Full Tilt Aluminum Cab, Formed Aluminum Body, Tandem Rear Axle, 110' Rear-Mounted Telescoping Platform	
FS19VA08	Pierce Enforcer Chassis, 4-Door Full Tilt Aluminum Cab, Formed Aluminum Body, Tandem Axle, 105' Rear-Mounted Telescoping Ladder (500#)	
FS19VA09	Pierce Arrow Chassis, 4-Door Full Tilt Aluminum Cab, Formed Aluminum Body, Tandem Axle, 100' Mid-Mounted Telescoping Ladder with Platform	
FS19VA10	Pierce Arrow Chassis, 4-Door Full Tilt Aluminum Cab, Formed Aluminum Body, Tandem Axle, 100' Rear-Mounted Telescoping Ladder with Platform (750#)	
FS19VA11	Pierce Arrow Chassis, 4-Door Full Tilt Aluminum Cab, Formed Aluminum Body, Single Axle, 107' Tractor Drawn - Mid-Mounted Telescoping Ladder (#500)	
B. Wildland Fire Apparatus (Brush Fire)		

FS19VB01	Pierce Brush Fire Apparatus, Ford F450, Formed Aluminum Utility Body	
FS19VB02	Pierce Brush Fire Apparatus, Ford F-550 Mini Pumper 500 gpm, 300 tank	
FS19VB03	Freightliner 4-Door 4 x 4 Wildland, 500 water, 1000 gpm Pump	
C. Pumper Fire Apparatus		
FS19VC01	M2 Freightliner, 2-Door, OEM Cab, Aluminum Body, Single Axle, 1250 GPM Pump, Mid-Mounted Pumper	
FS19VC02	IHC, 2-Door, OEM Cab, Aluminum Body, Single Axle, 1250 GPM Pump, Mid-Mounted Pumper	
FS19VC03	KW, 2-Door, OME Cab, Aluminum Body, Single Axle, 1250 GPM Pump, Mid-Mounted Pumper	
FS19VC04	Peterbilt, 2-Door, OME Cab, Aluminum Body, Single Axle, 1250 GPM Pump, Mid-Mounted Pumper	
FS19VC05	Pierce Saber 4- Door Full Tilt Aluminum Cab, Ford Engine, Aluminum Body, 1250 gpm, mid-mounted Pump	
FS19VC06	Pierce Saber FR, 4-Door, Full-Tilt, Aluminum Cab, Aluminum Body, Single Axle, 1250 GPM Pump, Mid-Mounted Pumper	
FS19VC07	Pierce Enforcer, 4-Door, Full-Tilt, Aluminum Cab, Aluminum Body, Single Axle, 1250 GPM Pump, Mid-Mounted Pumper	
FS19VC08	Pierce Velocity, 4- Door Fulll Tilt Cab, Aluminum Long Body, 1250 gpm mid-mounted Pump	
FS19VC09	Pierce Dash CF, 4-Door, Full-Tilt, Aluminum Cab, Aluminum Body, Single Axle, 1250 GPM Pump, PUC Body Pumper	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19VD01	Ford F-550 4- Door, 12 'Non-Walk-in Formed Aluminum Body	
FS19VD02	M2 Freightliner, 2-Door, OEM Cab, Single Axle, Formed Aluminum Body, Non-Walk-In Body	
FS19VD03	IHC, 2-Door, OEM Cab, Single Axle, Formed Aluminum Body, Non-Walk-In Body	
FS19VD04	Kenworth, 2-Door, OEM Cab, Single Axle, Formed Aluminum Body, Non-Walk-In Body	
FS19VD05	Peterbilt, 2-Door, OEM Cab, Single Axle, Formed Aluminum Body, Non-Walk-In Body	
FS19VD06	Pierce Saber FR, Full-Tilt, Aluminum Cab, Single Axle, Formed Aluminum Body, Non-Walk-In Encore Body 18.5'	
FS19VD07	Pierce Enforcer 4-Door, Aluminum Cab, Single Axle, Formed Aluminum Body, Non Walk-in HDR Body	
FS19VD08	Pierce Velocity 4-Door Aluminum Cab, Tandem Axle Non-Walk-in HDR Body	
FS19VD09	M2 Freightliner, 2-Door, OEM Cab, Single Axle, Formed Aluminum Body, Walk-In Body	
FS19VD10	IHC, 2-Door, OEM Cab, Single Axle, Formed Aluminum Body, Walk-In Body	
FS19VD11	Kenworth, 2-Door, OEM Cab, Single Axle, Formed Aluminum Body, Walk-In Body	
FS19VD12	Peterbilt, 2-Door, OEM Cab, Single Axle, Formed Aluminum Body, Walk-In Body	
FS19VD13	Pierce Enforcer 4-Door, Full Tilt, Aluminum Cab, Single Axle, Formed Aluminum Body, Walk-in HDR Body	
FS19VD14	Pierce Velocity 4-Door Aluminum Cab, Tandem Axle Walk-in HDR Body	
FS19VD15	Pierce Velocity 2-Door, Aluminum Cab, Tandem Axle, Combination Formed Aluminum Body	
FS19VD16	Pierce Velocity 4-Door Aluminum Cab, Tandem Axle Walk-in Communications Body	

E. Pumper/Tankers & Tankers		
FS19VE01	Freightliner 2 Door, Single Axle Tanker, Aluminum Body w/2000 water & 500 pump	
FS19VE02	IHC 2dr Single Axle Tanker, Aluminum Body w/2000 water & 500 pump	
FS19VE03	Kenworth 2dr Single Axle Tanker, Aluminum Body w/2000 water & 500 pump	
FS19VE04	Peterbilt 2dr Single Axle Tanker, Aluminum w/2000 water & 500 pump	
FS19VE05	Pierce Saber FR, 4-Door, Full-Tilt, Aluminum Cab, Pumper/Tanker, Aluminum Body, Single Axle, 1000 GPM Pump, Mid-Mounted	
FS19VE06	Pierce Enforcer, 4-Door, Full-Tilt, Aluminum Cab, Pumper/Tanker, Aluminum Body, Tandem Axle, 1000 GPM Pump, Mid-Mounted	
FS19VE07	Freightliner 2dr, Tandem Axle Tanker, Aluminum Body w/3000 water & 500 pump	
FS19VE08	IHC 2dr Tandem Axle Tanker, Aluminum Body w/3000 water & 500 pump	
FS19VE09	Kenworth 2dr Tandem Axle Tanker, Aluminum Body w/3000 water & 500 pump	
FS19VE10	Peterbilt 2dr Tandem Axle Tanker, Aluminum w/3000 water & 500 pump	
FS19VE11	Pierce Saber FR, 4-Door, Full-Tilt, Aluminum Cab, Aluminum Body, Single Axle, 1000 GPM Pump, Mid-Mounted Elliptical Tanker	
FS19VE12	Pierce Enforcer, 4-Door, Full-Tilt, Aluminum Cab, Aluminum Body, Tandem Axle, 1000 GPM Pump, Mid-Mounted Elliptical Tanker	
FS19VE13	Pierce Velocity, 4-Door Aluminum Cab, Tandem Axle, Aluminum Pumper/Tanker 2000 Gallon Body, 1500 GPM Pump	
W. Precision Fire Apparatus		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19WA01	Precision, Single Axle, Spartan Chassis, 75' Rear Mount Aerial, Welded Extruded Aluminum Body, 300 Gallon Tank, 1,500 GPM Single Stage Pump	
FS19WA02	Precision, Tandem Axle, Spartan Chassis, 110' Rear Mount Aerial, Welded Extruded Aluminum Body, 300 Gallon Tank, 1,500 GPM Single Stage Pump	
FS19WA03	Precision, Tamdem Axle, Spartan Chassis, 110' Rear Mount Platform, Welded Extruded Aluminum Body, 300 Gallon Tank, 1,500 GPM Single Stage Pump	
FS19WA04	Precision, Tamdem Axle, Spartan Chassis, 100' Mid- Mount Platform, Welded Extruded Aluminum Body, 300 Gallon Tank, 1,500 GPM Single Stage Pump	
FS19WA05	Precision , Spartan Chassis, 55' Snorkel Rear Mount Articulating Boom Platform, Welded Extruded Aluminum Body, Single Axle	
B. Wildland Fire Apparatus (Brush Fire)		
FS19WB01	Precision, Dodge 5500 4x4, Quick Attack Pumper, 500 GPM, Welded Extruded Aluminum Body, 250 Gallon Tank	
FS19WB02	Precision, Dodge 5500 4x4, Quick Attack Pumper, 500 GPM, Welded Extruded Aluminum Body, 250 Gallon Tank	
C. Pumper Fire Apparatus		
FS19WC01	International 4400, 2-Door Cab, Pumper, Welded Extruded Aluminum Body, 750 Gallon Tank, 1,250 GPM Single Stage Pump	
FS19WC02	Freightliner M2, 2-Door Cab, Pumper, Welded Extruded Aluminum Body, 750 Gallon Tank, 1,250 GPM Single Stage Pump	
FS19WC03	Kenworth, 2-Door Cab, Pumper, Welded Extruded Aluminum Body, 750 Gallon Tank, 1,250 GPM Single Stage Pump	
FS19WC04	Precision, Spartan Chassis, 4-Door Custom Full Tilt Aluminum Cab, Pumper, Welded Extruded Aluminum Body, 1,250 GPM Single Stage Pump, 750 Gallon Tank	
FS19WC05	Precision, Spartan Chassis, 4-Door Custom Full Tilt Aluminum Cab, CAFS Pumper, Welded Extruded Aluminum Body, 1,500 GPM Single Stage Pump, 750 Gallon Tank	

FS19WC06	Ford F550 Severe Duty 4x4, 4-Door, Rear Mount Pumper, 300 Gallon Tank, 1,250 GPM Single Stage Pump, 22,500 GVWR	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile		
FS19WD01	International 4400, 2-Door Cab, Welded Extruded Aluminum Body, Rescue Body	
FS19WD02	Freightliner M2, 2-Door Cab, Welded Extruded Aluminum Body, Rescue Body	
FS19WD03	Kenworth, 2-Door Cab, Welded Extruded Aluminum Body, Rescue	
FS19WD04	Precision, Spartan Chassis, 4-Door Custom Full Tilt Aluminum Cab, Welded Extruded Aluminum Body, Rescue Body	
E. Pumper/Tankers & Tankers		
FS19WE01	International 4400, 2-Door Cab, Pumper/Tanker, Welded Extruded Aluminum Body, 2,000 Gallon Tank, 750 GPM Single Stage Pump	
FS19WE02	Freightliner M2, 2-Door Cab, Pumper/Tanker, Welded Extruded Aluminum Body, 2,000 Gallon Tank, 750 GPM Single Stage Pump	
FS19WE03	Kenworth, 2-Door Cab, Pumper/Tanker, Welded Extruded Aluminum Body, 2000 Gallon Tank, 750 GPM Single Stage Pump	
FS19WE04	Precision, Spartan Chassis, 4-Door Custom Full Tilt Aluminum Cab, Pumper/Tanker, Welded Extruded Aluminum Body, 750 GPM Single Stage Pump, 2,500 Gallon Tank	
X. Rosenbauer		
F. Airport Rescue Fire-Fighting Vehicles		
FS19XF01	Rosenbauer Panther 1500, 2-Door, Aluminum Cab, High Performance Off Road suspension, 3 Passenger Seating, Roof Turret (375/750 gpm), bumper Turret (300 gpm), One (1) left side pre-connected Handline (Foam/Water) one (1) right side twin agent handline, Water Tank Capacity (1600 gal.), Foam Tank Capacity (200 gal.), Dry Chemical 500 pounds, Fire Pump (Power divider driven Rosenbauer N80, Dual Stage Centrifugal high pressure, 2100 gpm)	
FS19XF02	Rosenbauer Panther 3000, 2-Door, Aluminum Cab, High Performance Off Road suspension, 3 Passenger Seating, Roof Turret (600/1200 gpm), bumper Turret (300 gpm), One (1) left side pre-connected Handline (Foam/Water) one (1) right side twin agent handline, Water Tank Capacity (3170 gal.), Foam Tank Capacity (400 gal.),Dry Chemical 500 pounds, Fire Pump (Power divider driven Rosenbauer N80, Dual Stage Centrifugal high pressure, 2100 gpm)	
FS19XF03	Rosenbauer Panther 3000 with HRET, 2-Door, Aluminum Cab, High Performance Off Road suspension, 2 Passenger Seating, 1000 gpm High Reach Extendable turret (500/1000 gpm), bumper Turret (300 gpm), One (1) left side pre-connected Handline (Foam/Water) one (1) right side twin agent handline, Water Tank Capacity (3000 gal.), Foam Tank Capacity (400 gal.),Dry Chemical 500 pounds, Fire Pump (Power divider driven Rosenbauer N80, Dual Stage Centrifugal high pressure, 2100 gpm)	
FS19XF04	Rosenbauer Airwolf C2 2-Door Ford 4x4 F550 Cab/chassis, 2 Passenger Seating, bumper Turret, one (1) twin agent handline, Water Tank Capacity (300 gal.), Foam Tank Capacity (40 gal.), Dry Chemical 500 pounds, Fire Pump 300 gpm	
FS19XF05	Rosenbauer Airwolf C3 2-Door International 7400 4x4 Cab/chassis, 2 Passenger Seating, bumper Turret, one (1) twin agent handline, Water Tank Capacity (500 gal.), Foam Tank Capacity (60 gal.), Dry Chemical 500 pounds, Fire Pump 300 gpm	
Y. Rosenbauer Minnesota LLC		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19YA01	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Single Axle, 78' Rear Mount Steel Ladder	
FS19YA02	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Tandem Axle, 78' Rear Mount Steel Ladder	
FS19YA03	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Tandem Axle, 100' Rear Mount Steel Ladder	
FS19YA04	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Tandem Axle, 109' Rear-Mount Steel Ladder	
FS19YA05	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Tandem Axle, 100' Mid-Mount Steel Ladder	

FS19YA06	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Tandem Axle, 101' Rear Mount Steel Platform	
FS19YA07	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Tandem Axle, 104' Rear Mount Steel Platform	
FS19YA08	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Tandem Axle, 100' Mid Mount Steel Platform	
FS19YA09	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Single Axle, 100' Tractor Drawn Steel Ladder	
FS19YA10	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Single Axle, 65' Rear Mount Steel Ladder	
FS19YA11	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Single Axle, 51' Rear Mount Boom	
FS19YA12	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Single Axle, 68' Rear Mount Boom	
FS19YA13	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Single Axle, 102' Raptor Rear Mount Ladder	
FS19YA14	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Tandem Axle, 114' Articulating-Telescoping T-REX Platform	
FS19YA15	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Tandem Axle, 100' Rear Mount KING COBRA Steel Platform,	
FS19YA16	Rosenbauer Commander, 4-Door Tilt Cab, Extruded Aluminum Body, Single Axle, 75' Mid Mount Steel Ladder	
B. Wildland Fire Apparatus		
FS19YB01	IH HV507, 4x4, 2-Door, OEM Timberwolf, Pumper, Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Rear Mount	
C. Pumper Fire Apparatus		
FS19YC01	M2 Freightliner, 2-Door, OEM, Pumper, Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Side-Mounted Pumper	
FS19YC02	IH MV607, 2-Door, OEM, Pumper, Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Side-Mounted Pumper	
FS19YC03	Kenworth, 2-Door, OEM, Pumper, Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Side-Mounted Pumper	
FS19YC04	Rosenbauer Commander, 4-Door Full-Tilt, Aluminum Pumper, Extruded Aluminum Body, Single Axle, 1250 GPM Pump, Side-Mounted Pumper	
FS19YC05	Rosenbauer Commander, 4-Door Full-Tilt, Aluminum Pumper, Extruded Aluminum Body, Single Axle, 1500 GPM Pump, Side-Mounted Pumper	
FS19YC06	Rosenbauer Commander, 4-Door Full-Tilt, Aluminum Pumper, Extruded Aluminum Body, Single Axle, 1500 GPM Pump, Rear-Mounted Pumper	
FS19YC07	Ford F550, 4x2, 2-Door OEM Cab, Mini Pumper, Formed Aluminum Body, 500 GPM PTO Pump, Side Mounted	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19YD01	M2 Freightliner, 2-Door, OEM Cab, Single Axle, Extruded Aluminum Body, Non-Walk-In Body	
FS19YD02	IH MV607, 2-Door, OEM Cab, Single Axle, Extruded Aluminum Body, Non-Walk-In Body	
FS19YD03	M2 Freightliner, 2-Door, OEM Cab, Tandem Axle, Extruded Aluminum Body, Non-Walk-In Body	
FS19YD04	Ford F-550, 2-Door, OEM Ccab, Single Axle, Extruded Aluminum Body, Non-Walk-In Body	
FS19YD05	Rosenbauer Commander, 4-Door Full-Tilt, Aluminum Cab, Single Axle, Extruded Aluminum Body, Non-Walk-In Body	
FS19YD06	Rosenbauer Commander, 4-Door Full-Tilt, Aluminum Cab, Tandem Axle, Extruded Aluminum Body, Non-Walk-In Body	
FS19YD07	M2 Freightliner, 2-Door, OEM Cab, Single Axle, Extruded Aluminum Body, Walk-In Body	
FS19YD08	IH MV607, 2-Door, OEM Cab, Single Axle, Extruded Aluminum Body, Walk-In Body	
FS19YD09	M2 Freightliner, 2-Door, OEM Cab, Tandem Axle, Extruded Aluminum Body, Walk-In Body	

FS19YD10	Rosenbauer Commander, 4-Door Full-Tilt, Aluminum Cab, Single Axle, Extruded Aluminum Body, Walk-In Body	
FS19YD11	Rosenbauer Commander, 4-Door Full-Tilt, Aluminum Cab, Tandem Axle, Extruded Aluminum Body, Walk-In Body	
E. Pumper/Tankers & Tankers		
FS19YE01	M2 Freightliner, 2-Door, OEM Cab, Pumper/Tanker, Extruded Aluminum Body, 1800 Gallon Tank, Single Axle, 1250 GPM Pump, Mid-Mounted	
FS19YE02	IH MV607, 2-Door, OEM Cab, Pumper/Tanker, Extruded Aluminum Body, 1800 Gallon Tank, Single Axle, 1250 GPM Pump, Mid-Mounted	
FS19YE03	M2 Freightliner, 2-Door, OEM Cab, Pumper/Tanker, Extruded Aluminum Body, 2000 Gallon Tank, Tandem Axle, 1250 GPM Pump, Mid-Mounted	
FS19YE04	Rosenbauer Commander, 4-Door Full-Tilt, Aluminum Cab, Pumper/Tanker, Extruded Aluminum Body, 1800 Gallon Tank, Single Axle, 1250 GPM Pump, Mid-Mounted	
FS19YE05	Rosenbaue Commander, 4-Door Full-Tilt, Aluminum Cab, Pumper/Tanker, Extruded Aluminum Body, 2000 Gallon Tank, Tandem Axle, 1250 GPM Pump, Mid-Mounted	
Z. Rosenbauer South Dakota LLC		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19ZA01	Rosenbauer Commander 4-Door Tilt Cab, Formed Aluminum Body, Single Axle, 78' Rear Mount Steel Ladder	
FS19ZA02	Rosenbauer Commander 4-Door Tilt Cab, Formed Aluminum Body, Tandem Axle, 78' Rear Mount Steel Ladder	
FS19ZA03	Rosenbauer Commander 4-Door Tilt Cab, Formed Aluminum Body, Tandem Axle, 100' Rear Mount Steel Ladder	
FS19ZA04	Rosenbauer Commander 4-Door Tilt Cab, Formed Aluminum Body, Tandem Axle, 109' Rear Mount Steel Ladder	
FS19ZA05	Rosenbauer Commander 4-Door Tilt Cab, Formed Aluminum Body, Tandem Axle, 100' Mid-Mount Steel Ladder	
FS19ZA06	Rosenbauer Commander 4-Door Tilt Cab, Formed Aluminum Body, Tandem Axle, 101' Rear Mount Steel Platform	
FS19ZA07	Rosenbauer Commander 4-Door Tilt Cab, Formed Aluminum Body, Tandem Axle, 104' Rear Mount Steel Platform	
FS19ZA08	Rosenbauer Commander 4-Door Tilt Cab, Formed Aluminum Body, Tandem Axle, 100' Mid-Mount Steel Platform	
FS19ZA09	Rosenbauer Commander 4-Door Tilt Cab, Formed Aluminum Body, Single Axle, 65' Rear Mount Steel Ladder	
FS19ZA10	Rosenbauer Commander 4-Door Tilt Cab, Formed Aluminum Body, Single Axle, 51' Rear Mount Boom	
FS19ZA11	Rosenbauer Commander 4-Door Tilt Cab, Formed Aluminum Body, Single Axle, 68' Rear Mount Boom	
FS19ZA12	Rosenbauer Commander 4-Door Tilt Cab, Formed Aluminum Body, Single Axle 75'Mid Mount Steel Ladder	
FS19ZA13	Rosenbauer Commander 4-door Tilt Cab, Formed Aluminum Body, Single Axle, 75' Mid Mount Steel Platform	
FS19ZA14	M2 Freightliner, 2-Door OEM Cab, Formed Aluminum Body, Single Axle, 51' Rear Mount Boom	
FS19ZA15	Rosenbauer Commander, 4-Door Tilt Cab, Formed Aluminum Body, Single Axle, 100' Rear Mount Steel Ladder	
FS19ZA16	Rosenbauer Commander, 4-Door Tilt Cab, Formed Aluminum Body, Tandem Axle, 100' Rear Mount KING COBRA Steel Platform,	
B. Wildland Fire Apparatus		
FS19ZB01	M2 Freightliner, 4x4, 2-Door OEM Cab, WILDLAND Pumper, FX Formed Aluminum Body, Single Axle, 1000 GPM Pump, Side Mounted	
FS19ZB02	M2 Freightliner, 4x4, 2-Door OEM Cab, WILDLAND CT Pumper, Formed Stainless Steel Body, Single Axle, 1000 GPM Pump, Rear Mounted	
FS19ZB03	IH MV607, 4x4, 2-Door OEM Cab, WILDLAND Pumper, FX Formed Aluminum Body, Single Axle, 1000 GPM Pump, Side Mounted	
FS19ZB04	IH MV607, 4x4, 2-Door OEM Cab, WILDLAND CT Pumper, Formed Stainless Steel Body, Single Axle, 1000 GPM Pump, Rear Mounted	

FS19ZB05	M2 Freightliner, 4x4, 2-Door OEM Cab, MAVERICK Pumper, Aluminum Body, Single Axle, 1000 GPM Pump, 1500 Gallon Tank	
FS19ZB06	IH HV507, 4x4, 2-Door OEM Cab, MAVERICK Pumper, Aluminum Body, Single Axle, 1000 GPM Pump, 1500 Gallon Tank	
FS19ZB07	Ford F550, 4x4, 2-Door OEM Cab, , Wildland Aluminum Huck Bolt Body, 200 GPM Pump, 300 Gallon Tank	
C. Pumper Fire Apparatus		
FS19ZC01	M2 Freightliner, 2-Door OEM Cab, Pumper, Formed Aluminum Body, Single Axle 1250 GPM Pump, Side Mounted	
FS19ZC02	IH MV607, 2-Door OEM Cab, Pumper, Formed Aluminum Body, Single Axle, 1250GPM Pump, Side Mounted	
FS19ZC03	Kenworth, 2-Door OEM Cab, Pumper, Formed Aluminum Body, Single Axle, 1250 GPM Pump, Side Mounted	
FS19ZC04	M2 Freightliner, 2-Door OEM Cab, Firestar Pumper, Formed Aluminum Body, Single Axle 1250 GPM Pump, Side Mounted	
FS19ZC05	Rosenbauer Commander, 4-Door Full-Tilt Aluminum Cab, Formed Aluminum Body, Single Axle, 1250 GPM Pump, Side Mounted	
FS19ZC06	Rosenbauer Commander, 4-Door Full-Tilt Aluminum Cab, Formed Aluminum Body, Single Axle, 1250 GPM Pump, Rear Mounted	
FS19ZC07	Rosenbauer Commander, 4-Door Full-Tilt Aluminum Cab, Formed Aluminum Body, Single Axle, 1500 GPM Pump, Side Mounted	
FS19ZC08	Rosenbauer Commander, 4-Door Full-Tilt Aluminum Cab, Formed Aluminum Body, Single Axle, 1500 GPM Pump, Rear Mounted	
FS19ZC09	Rosenbauer Warrior, 4-Door Full-Tilt, Aluminum Cab, Formed Aluminum Body, Single Axle, 1250 GPM Pump, Side Mounted	
FS19ZC10	Ford F550, 4x2, 2-Door OEM Cab, Mini Pumper, Formed Aluminum Body, 500 GPM PTO Pump, Side Mounted	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19ZD01	M2 Freightliner, 2-Door, OEM Cab, Single Axle, Formed Aluminum Body, Non-Walk-In Body	
FS19ZD02	IH MV607, 2-Door, OEM Cab, Single Axle, Formed Aluminum Body, Non-Walk-In Body	
FS19ZD03	Rosenbauer Commander, 4-Door, Full-Tilt, Aluminum Cab, Single Axle, Formed Aluminum Body, Non-Walk-In Body	
FS19ZD04	Rosenbauer Commander, 4-Door, Full-Tilt, Aluminum Cab, Tandem Axle, Formed Aluminum Body, Non-Walk-In Body	
FS19ZD05	M2 Freightliner, 2-Door, OEM Cab, Single Axle, Formed Aluminum Body, Walk-In Body	
FS19ZD06	IH MV607, 2-Door, OEM Cab, Single Axle, Formed Aluminum Body, Walk-In Body	
FS19ZD07	Rosenbauer Commander, 4-Door, Full-Tilt, Aluminum Cab, Single Axle, Formed Aluminum Body, Walk-In Body	
FS19ZD08	Rosenbauer Commander, 4-Door, Full-Tilt, Aluminum Cab, Tandem Axle, Formed Aluminum Body, Walk-In Body	
FS19ZD09	Ford F-550, 2-Door, OEM Cab, Single Axle, Formed Aluminum Body, Non-Walk-In Body	
E. Pumper/Tankers & Tankers		
FS19ZE01	M2 Freightliner, 2-Door, OEM Cab, Pumper/Tanker, Formed Aluminum Body, 1800 Gallon Tank, Single Axle, 1250 GPM Pump, Mid-Mounted	
FS19ZE02	M2 Freightliner, 2-Door, OEM Cab, Pumper/Tanker, Formed Aluminum Body, 2000 Gallon Tank, Tandem Axle, 1250 GPM Pump, Mid-Mounted	
FS19ZE03	IH MV607, 2-Door, OEM Cab, Pumper/Tanker, Formed Aluminum Body, 1800 Gallon Tank, Single Axle, 1250 GPM Pump, Mid-Mounted	
FS19ZE04	IH7400, 2-Door, OEM Cab, Pumper/Tanker, Formed Aluminum Body, 2000 Gallon Tank, Tandem Axle, 1250 GPM Pump, Mid-Mounted	
FS19ZE05	Kenworth T300, 2-Door, OEM Cab, Pumper/Tanker, Formed Aluminum Body, 1800 Gallon Tank, Single Axle, 1250 GPM Pump, Mid-Mounted	
FS19ZE06	Kenworth T300, 2-Door, OEM Cab, Pumper/Tanker, Formed Aluminum Body, 2000 Gallon Tank, Tandem Axle, 1250 GPM Pump, Mid-Mounted	

FS19ZE07	Rosenbauer Commander, 4-Door Full-Tilt, Aluminum Cab, Pumper/Tanker, Formed Aluminum Body, 1800Gallon Tank, Single Axle, 1250 GPM Pump, Mid-Mounted	
FS19ZE08	Rosenbauer Commander, 4-Door Full-Tilt, Aluminum Cab, Pumper/Tanker, Formed Aluminum Body, 2000 Gallon Tank, Tandem Axle, 1250 GPM Pump, Mid-Mounted	
FS19ZE09	M2 Freightliner, 2-Door, OEM Cab, Wet Side Tanker, Formed Aluminum Body, 3000 Gallon Tank, Tandem Axle, 1250 GPM Pump, Mid-Mounted	
AA. Seagrave		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19AAA01	Seagrave Marauder II Custom 4-Door Full Tilt Stainless Steel Cab and Body, Single Axle, 75' Rear Mount Ladder (Meanstick) Telescoping Ladder (500#)	
FS19AAA02	Seagrave Marauder II Custom 4-door Full Tilt Stainless Steel Cab and Body, Tandem Axle, 100' Rear Mount Ladder Telescoping (500#)	
FS19AAA03	Seagrave Marauder II Custom 4-door Full Tilt Stainless Steel Tractor and Body, Single Axle, 100' Tractor Drawn Aerial - Mid Mounted Telescoping Ladder (250#)	
FS19AAA04	Seagrave Marauder II Custom 4-door Full Tilt Stainless Steel Tractor and Body, Single Axle, 100' Tractor Drawn Aerial - Mid Mounted Telescoping Ladder (500#)	
FS19AAA05	Seagrave Marauder II Custom 4-door Full Tilt Stainless Steel Cab and Body, Tandem Axle, 105' Rear Mount Telescoping Ladder Platform (1200#)	
FS19AAA06	Seagrave Marauder II Custom 4-door Full Tilt Stainless Steel Cab and Body, Tandem Axle, 75' Mid Mounted Telescoping Platform (1000#) - Aerialscope	
FS19AAA07	Seagrave Marauder II Custom 4-Door Full Tilt Stainless Steel Cab and Body, Tandem Axle, 95' Mid Mount Telescoping Platform (1000#) - Aerialscope	
FS19AAA08	Seagrave Marauder II Custom 4-Door Full Tilt Stainless Steel Cab and Body, Single Axle, 60' Articulating Water Tower.	
B. Wildland Fire Apparatus (Brush Fire)		
FS19AAB01	Ford F550, 2-Door, OEM Cab, 4x4, Brush Truck, Aluminum Bed with Aluminum Compartments	
FS19AAB02	Freightliner, 4-Door, OEM Cab, 4 x 4, Wildland Pumper, Polyprene Body, 1250 GPM Pump, Side Mount	
FS19AAB03	Freightliner, 4-Door, OEM Cab, 4 x 4, Wildland Pumper, Stainless Steel Body, 1250 GPM Pump, Side Mount	
C. Pumper Fire Apparatus		
FS19AAC01	Seagrave Marauder II, Custom 4-Door Full Tilt Stainless Steel Cab and Body, Single Rear Axle, 1500 GPM Pump, Mid Mounted Pump	
FS19AAC02	Freightliner, 4-Door, OEM Cab, Aluminum Body, Single Axle, 1250 GPM Pump, Mid Mounted Pump	
FS19AAC03	Freightliner, 2-Door, OEM Cab, Polyprene Body, Single Axle, 1250 GPM Pump, Mid Mounted Pump	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19AAD01	Seagrave Maruader II Custom 4-Door Full Tilt Stainless Steel Cab and Body, Single Axle, Non-Walk-In Body	
FS19AAD02	Freightliner, 2-Door, OEM Cab, Single Axle, Polyprene Rescue, Non-Walk-In Body	
FS19AAD03	Seagrave Maruader II Custom 4-Door Full Tilt Stainless Steel Cab and Body, Single Axle,Walk-In Body	
E. Pumper/Tankers & Tankers		
FS19AAE01	Seagrave Marauder II Custom 4-Door Full Tilt Stainless Steel Cab and Body, Tandem Axle, 1500 GPM Pump, Mid Mounted Pump, 2000 Gallon Tank	
FS19AAE02	Freightliner, 2-Door, OEM Cab, Polyprene Body, Single Axle, PTO Pump, Side Mount, 2000 Gallon Tank	
FS19AAE03	Freightliner, 2-Door, OEM Cab, Polyprene Body, Tandem Axle, PTO Pump, Side Mount, 3000 Gallon Tank	
FS19AAE04	Freightliner, 2-Door, OEM Cab, Polyprene Body, Tandem Axle, Gas Pump, 3000 Gallon Tank	
BB. Skeeter		
B. Wildland Fire Apparatus (Brush Fire)		

FS19BBB01	Slip In Unit: Complete Slip in firefighting package for flatbed or pickup bed. Heavy Duty frame, 200 GPM pump, 300 gallon poly tank. 150' hose reel. Hose Tray. Stainless steel plumbing.	
FS19BBB02	Skeeter Type 3 or 4 F-650: Brush unit, Large (33,000 gvw). Custom firefighting body. 750 gallon poly tank. 200-750 gpm pump. 150' hose reel. Stainless steel plumbing. Hose tray. Tool tray. Side body compartments.	
FS19BBB03	Skeeter Type 5 F-550: Brush unit, Medium (19,500 gvw). Custom firefighting body. 400 gallon poly tank. 200 gpm pump. 150' hose reel. Stainless steel plumbing. Hose tray. Tool tray. Side body compartments.	
FS19BBB04	Skeeter Type 6 F-350: Brush unit, Small (13,000 gvw). Custom firefighting body. 300 gallon poly tank. 200 gpm pump. 150' hose reel. Stainless steel plumbing. Hose tray. Tool tray. Side body compartments.	
FS19BBB05	Type 5 Ram 5500 (19,000 GVW) Brush Unit Medium – 400 gallons/200 GPM pump. Hose Reel.	
FS19BBB06	Type 6 Ram 3500 (12,500 GVW) Brush Unit Small – 300 gallons/200 GPM pump. Hose Reel	
FS19BBB07	Type 3 International 7400 (35,000 GVW) Brush Unit Large – 750 gallons/200-750 GPM Pump. Hose reel.	
FS19BBB08	Type 3 Freightliner M2 (37,000 GVW) Brush Unit Large – 750 gallons/200-750 GPM Pump. Hose reel.	
FS19BBB09	Squad Rescue Ford F-450 - Small Rescue Body with (2) Front Vertical Compartments, (2) Rear Veritical Compartments and (2) Center Compartments	
FS19BBB10	Squad Rescue Ram - 4500 Small Rescue Body with (2) Front Vertical Compartments, (2) Rear Veritical Compartments and (2) Center Compartments	
FS19BBB11	Type 5 Chevy 5500 (19,000 GVW) Brush Unit Medium – 400 gallons/200 GPM pump. Hose Reel.	
FS19BBB12	Type 6 Chevy 4500 (12,500 GVW) Brush Unit Small – 300 gallons/200 GPM pump. Hose Reel	
FS19BBB13	Type 3 Chevy 6500 (22,900 GVW) Brush Unit Large – 750 gallons/200-750 GPM Pump. Hose reel.	
CC. Smeal		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19CCA01	55' Rear Mount Telescoping Ladder, Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
FS19CCA02	75' Rear Mount Telescoping Ladder, Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
FS19CCA03	75' Rear Mount Telescoping Ladder, Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Tandem Axle	
FS19CCA04	100' Mid Mount Telescoping Ladder, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19CCA05	105' Rear Mount Telescoping Ladder, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19CCA06	110' Rear Mount Telescoping Ladder, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19CCA07	125' Rear Mount Telescoping Ladder, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19CCA08	85' Mid-Mount Telescoping Ladder with Platform, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19CCA09	93' Mid-Mount Telescoping Ladder with Platform, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19CCA10	100' Rear-Mount Telescoping Ladder with Platform, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19CCA11	100' Mid-Mount Telescoping Ladder with Platform, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19CCA12	100' Tractor Drawn Telescoping Ladder (TDA), Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Single Axle	

FS19CCA13	105' Tractor Drawn Telescoping Ladder (TDA), Formed Aluminum Body, Spartan Gladiator, 4-Door Tilt Cab, Single Axle	
FS19CCA14	105' Tractor Drawn Telescoping Ladder Quint (TDA), Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19CCA15	54' Squrt - Rear Mount Articulating Water Tower , Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
FS19CCA16	50' Tele-Squrt - Rear Mount Water Tower w/ Ladder, Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
FS19CCA17	65' Tele-Squrt - Rear Mount Water Tower w/ Ladder, Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
FS19CCA18	55' Snorkel - Rear Mount Articulating Platform, Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
B. Wildland Fire Apparatus (Brush Fire)		
FS19CCB01	Type III Wildland Pumper, 500 GPM, Formed Aluminum Body, International Chassis, 4-Door, 4x4, OEM Cab, Single Axle	
FS19CCB02	Type I Wildland Pumper, 1250 GPM, Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
C. Pumper Fire Apparatus		
FS19CCC01	Pumper, Midship, 1250 GPM, Formed Aluminum Body, Freightliner Chassis, 2-Door, OEM Cab, Single Axle	
FS19CCC02	Pumper, Midship, 1250 GPM, Formed Aluminum Body, International Chassis, 2-Door, OEM Cab, Single Axle	
FS19CCC03	Pumper, Midship, 1250 GPM, Formed Aluminum Body, Kenworth Chassis, 2-Door, OEM Cab, Single Axle	
FS19CCC04	Pumper, Midship, 1250 GPM, Formed Aluminum Body, Freightliner Chassis, 4-Door, OEM Cab, Single Axle	
FS19CCC05	Pumper, Midship, 1250 GPM, Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
FS19CCC06	Pumper, Midship, 1250 GPM, Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Tandem Axle	
E. Pumper/Tankers & Tankers		
FS19CCE01	Pumper/Tanker, Midship, 1250 GPM, 1500 Gallon Tank, Formed Aluminum Body, Freightliner Chassis, 2-Door, Single Axle	
FS19CCE02	Pumper/Tanker, Midship, 1250 GPM, 1500 Gallon Tank, Formed Aluminum Body, International Chassis, 2-Door, Single Axle	
FS19CCE03	Pumper/Tanker, Midship, 1250 GPM, 1500 Gallon Tank, Formed Aluminum Body, Kenworth Chassis, 2-Door, Single Axle	
FS19CCE04	Pumper/Tanker, Midship, 1250 GPM, 3000 Gallon Tank, Formed Aluminum Body, Freightliner Chassis, 2-Door, Tandem Axle	
DD. Southeast Apparatus		
B. Wildland Fire Apparatus (Brush Fire)		
FS19DDB01	Southeast Apparatus Wildland Fire Apparatus, Ford Gas F-550 Regular Cab, 4X4 - 9' Aluminum Flatbed Body with High-Side Compartments - Skid Unit, 300 GPM Pump, 250 Gallon Polypropylene Tank, Booster Reel.	
FS19DDB02	Southeast Apparatus Wildland Fire Apparatus, Ford Gas F-550 Regular Cab, 4X4 - 11' Aluminum Flatbed Body with Standing Stations, Crosswalk and High-Side Compartments - Skid Unit, 300 GPM Pump, 250 Gallon Polypropylene Tank, Booster Reel.	
FS19DDB03	Southeast Apparatus Large Wildland Fire Apparatus - KW T-370 2-Door - Diamond Tread Aluminum Body with Low-Side Compartments, Catwalks, Crosswalk, Handrails, Inward Swinging Gates - 375 GPM Auxiliary Pump, 500 Gallon Polypropylene Tank, 1.0" Booster Reel, 2.5" Rear Discharge, Capable of Drafting 12' Vertical.	
C. Pumper Fire Apparatus		
FS19DDC01	Southeast Apparatus Extreme Duty 3/16" All Aluminum 14' Pumper Body - KW T-370 2 Door - 750 Gallon Polypropylene Tank - Side-Mount 1,250 GPM Pump.	

FS19DDC02	Southeast Apparatus Extreme Duty 3/16" All Aluminum 14' Pumper Body - Spartan Metro 4-Door Custom - 750 Gallon Polypropylene Tank - Side-Mount 1,250 GPM Pump.	
FS19DDC03	Southeast Apparatus Extreme Duty 3/16" All Aluminum Mini-Pumper Body - Ford 550 4-Door, 4X4, Diesel - 300 Gallon Polypropylene Tank - Side-Mount 1,250 GPM Pump.	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile		
FS19DDD01	Southeast Apparatus Extreme Duty 3/16" All Aluminum 9' Dry Rescue Body - Ford Gas F-550 Regular Cab, 4X4	
FS19DDD02	Southeast Apparatus Extreme Duty 3/16" All Aluminum 9' Wet Rescue Body - Ford Gas F-550 Regular Cab, 4X4 - 300 GPM Pump, 250 Gallon Polypropylene Tank, Booster Reel	
FS19DDD03	Southeast Apparatus Extreme Duty 3/16" All Aluminum 10' Dry Rescue Body - Ford Gas F-550 Regular Cab, 4X4	
FS19DDD04	Southeast Apparatus Extreme Duty 3/16" All Aluminum 10' Wet Rescue Body - Ford Gas F-550 Regular Cab, 4X4 - 300 GPM Pump, 250 Gallon Polypropylene Tank, Booster Reel	
FS19DDD05	Southeast Apparatus Extreme Duty 3/16" All Aluminum 11' Dry Rescue Body - Ford Gas F-550 Regular Cab, 4X4	
FS19DDD06	Southeast Apparatus Extreme Duty 3/16" All Aluminum 11' Wet Rescue Body - Ford Gas F-550 Regular Cab, 4X4 - 300 GPM Pump, 250 Gallon Polypropylene Tank, Booster Reel	
FS19DDD07	Southeast Apparatus Extreme Duty 3/16" All Aluminum 12' Dry Rescue Body - Ford Gas F-550 Regular Cab, 4X4	
FS19DDD08	Southeast Apparatus Extreme Duty 3/16" All Aluminum 12' Wet Rescue Body - Ford Gas F-550 Regular Cab, 4X4 - 300 GPM Pump, 250 Gallon Polypropylene Tank, Booster Reel	
FS19DDD09	Southeast Apparatus Extreme Duty 3/16" All Aluminum Heavy Rescue Body - KW T-370 2-Door	
FS19DDD10	Southeast Apparatus Extreme Duty 3/16" All Aluminum Heavy Rescue Body - Spartan 4-Door Custom Cab	
E. Pumper/Tankers & Tankers		
FS19DDE01	Southeast Apparatus Extreme Duty 3/16" All Aluminum 12' Tanker Body - KW T-370 2 Door - 2,000 Gallon Polypropylene Rectangular Tank - 500 GPM Pump, Dump Valve, Tank Fill Valve	
FS19DDE02	Southeast Apparatus Extreme Duty 3/16" All Aluminum 12' Tanker Body - KW T-370 2 Door - 2,000 Gallon Polypropylene "T" Tank - 500 GPM Pump, Dump Valve, Tank Fill Valve	
FS19DDE03	Southeast Apparatus Extreme Duty 3/16" All Aluminum 16' Tanker Body - KW T-370 2 Door - 3,000 Gallon Polypropylene "T" Tank - 500 GPM Pump, Dump Valve, Tank Fill Valve	
FS19DDE04	Southeast Apparatus Extreme Duty 3/16" All Aluminum 18' Tanker Body - KW T-370 2 Door - 3,000 Gallon Polypropylene Rectangular Tank - 500 GPM Pump, Dump Valve, Tank Fill Valve	
FS19DDE05	Southeast Apparatus Extreme Duty 3/16" All Aluminum 12' Tanker Body - Spartan 4-Door Custom Cab - 2,000 Gallon Polypropylene Rectangular Tank - 500 GPM Pump, Dump Valve, Tank Fill Valve	
FS19DDE06	Southeast Apparatus Extreme Duty 3/16" All Aluminum 18' Tanker Body - Spartan 4-Door Custom Cab - 3,000 Gallon Polypropylene Rectangular Tank - 500 GPM Pump, Dump Valve, Tank Fill Valve	
EE. Spartan ERV		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19EEA01	55' Rear Mount Telescoping Ladder, Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
FS19EEA02	Single Axle	
FS19EEA03	75' Rear Mount Telescoping Ladder, Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Tandem Axle	

FS19EEA04	100' Mid Mount Telescoping Ladder, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19EEA05	105' Rear Mount Telescoping Ladder, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19EEA06	Tandem Axle	
FS19EEA07	125' Rear Mount Telescoping Ladder, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19EEA08	85' Mid-Mount Telescoping Ladder with Platform, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19EEA09	93' Mid-Mount Telescoping Ladder with Platform, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19EEA10	100' Rear-Mount Telescoping Ladder with Platform, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19EEA11	100' Mid-Mount Telescoping Ladder with Platform, Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19EEA12	100' Tractor Drawn Telescoping Ladder (TDA), Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Single Axle	
FS19EEA13	105' Tractor Drawn Telescoping Ladder (TDA), Formed Aluminum Body, Spartan Gladiator, 4-Door Tilt Cab, Single Axle	
FS19EEA14	105' Tractor Drawn Telescoping Ladder Quint (TDA), Formed Aluminum Body, Spartan Gladiator, 4-Door, Tilt Cab, Tandem Axle	
FS19EEA15	54' Squrt - Rear Mount Articulating Water Tower , Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
FS19EEA16	50' Tele-Squrt - Rear Mount Water Tower w/ Ladder, Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
FS19EEA17	4-Door, Tilt Cab, Single Axle	
FS19EEA18	55' Snorkel - Rear Mount Articulating Platform, Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
B. Wildland Fire Apparatus (Brush Fire)		
FS19EEB01	Ford F550, 4x2, Aluminum Flat Bed Body	
FS19EEB02	International 2-Door, 4x2, Aluminum Flat Bed Body	
FS19EEB03	International 2-Door 4x2, Wildland Interface, Aluminum body	
FS19EEB04	Type III Wildland Pumper, 500 GPM, Aluminum Body, International Chassis, 4-Door, 4X4, OEM Cab, Single Axle	
C. Pumper Fire Apparatus		
FS19EEC01	Ford F-550 2-Door, Pumper, 4x2, Aluminum Body, Single Axle, 1250 GPM Pump, Mid-Mounted	
FS19EEC02	Pumper, Midship, 1250 GPM, Aluminum Body, Freightliner Chassis, 2-Door, 4X2, OEM Cab, Single Axle	
FS19EEC03	Pumper, Midship, 1250 GPM, Aluminum Body, Kenworth Chassis, 2-Door, 4X2, OEM Cab, Single Axle	
FS19EEC04	Pumper, Midship, 1250 GPM, Aluminum Body, International Chassis, 2-Door, 4X2, OEM Cab, Single Axle	
FS19EEC05	Freightliner 2-Door, Pumper, 4x2, Aluminum Body, Tandem Axle, 1250 GPM Pump, Mid-Mounted	
FS19EEC06	Pumper, Midship, 1250 GPM, Formed Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
FS19EEC07	Spartan 4-Door Custom Full-Tilt Aluminum Cab, Pumper, 4x2, Aluminum Body, Tandem Axle, 1250 GPM Pump, Mid-Mounted	
FS19EEC08	Type I Wildland Urban Interface, Midship, 1250 GPM, Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
FS19EEC09	Pumper, Midship, 1250 GPM, Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, Single Axle	
FS19EEC10	Pumper, Midship, 1250 GPM, IPS, Aluminum Body, Spartan Metro Star, 4 Door, Tilt Cab, Single Axle	

D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19EED01	Non Walk-In Rescue, Aluminum Body, Ford F550, 2-Door, 4X2, Single Axle	
FS19EED02	Non Walk-In Rescue, Aluminum Body, International 4400, 2-Door, 4X2, Single Axle	
FS19EED03	Non Walk-In Rescue, Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, 4X2, Single Axle	
FS19EED04	Walk-In Rescue, Aluminum Body, International 4400, 2-Door, 4x2, Single Axle	
FS19EED05	Walk-In Rescue, Aluminum Body, Spartan Metro Star, 4-Door, Tilt Cab, 4x2, Single Axle	
E. Pumper/Tankers & Tankers		
FS19EEE01	Pumper/Tanker, Midship, 1250 GPM, Aluminum Body, Freightliner Chassis, 2-Door, 4X2, Single Axle	
FS19EEE02	Pumper/Tanker, Midship, 1250 GPM, Aluminum Body, International Chassis, 2-Door, 4X2, Single Axle	
FS19EEE03	Pumper/Tanker, Midship, 1250 GPM, Aluminum Body, Kenworth Chassis, 2-Door, 4X2, Single Axle	
FS19EEE04	Pumper/Tanker, Midship, 1250 GPM, Aluminum Body, Freightliner Chassis, 2-Door, 4X2, Tandem Axle	
FS19EEE05	Elliptical Tanker, Midship, 1250 GPM, 2000 Gallon Tank, Stainless Steel Body, Freightliner Chassis, 2-Door, Single Axle	
FS19EEE06	Elliptical Tanker, Midship, 1250 GPM, 2000 Gallon Tank, Stainless Steel Body, International Chassis, 2-Door, Single Axle	
FS19EEE07	Elliptical Tanker, Midship, 1250 GPM, 2000 Gallon Tank, Stainless Steel Body, Kenworth Chassis, 2-Door, Single Axle	
FS19EEE08	Elliptical Tanker, Midship, 1250 GPM, 3000 Gallon Tank, Stainless Steel Body, Freightliner Chassis, 2-Door, Tandem Axle	
FF. Summit		
B. Wildland Fire Apparatus (Brush Fire)		
FS19FFB01	Summit Fire Single Rear Wheel Brush Unit, 200 Gallon Tank, 11HP Rear Mounted Gasoline Pump, 116L" x 86w" Aluminum Platform Body W/ Bulkhead & Side Storage Boxes, Ford F350, 2 Door Chassis, 4x4, Single Rear Wheel, 60" CA	
FS19FFB02	Summit Fire Brush Unit, 200 Gallon Tank, 11HP Rear Mounted Gasoline Pump, 116" Aluminum Platform Body W/ Bulkhead & Side Storage Boxes, Ford F350 2 Door Chassis, 4x4, 60" CA	
FS19FFB03	Summit Fire Brush Unit, 300 Gallon Tank, 11HP Rear Mounted Gasoline Pump, 116" Aluminum Platform Body W/ Bulkhead & Side Storage Boxes, Ford F450, 2 Door Chassis, 4x4, 60" CA	
FS19FFB04	Summit Fire Brush Unit, 300 Gallon Tank, 18HP Rear Mounted Gasoline Pump, 116" Aluminum Platform Body W/ Bulkhead & Side Storage Boxes, Ford F450, 2 Door Chassis, 4x4, 60" CA	
FS19FFB05	Summit Fire Brush Unit, 300 Gallon Tank, 18HP Rear Mounted Gasoline Pump, 116" Aluminum Platform Body W/ Bulkhead & Side Storage Boxes, Ford F550, 2 Door Chassis, 4x4, 60" CA	
FS19FFB06	Summit Fire Brush Unit, 300 Gallon Tank, 18HP Rear Mounted Gasoline Pump, 116" Aluminum Platform Body W/ Bulkhead & Side Storage Boxes, Ford F550, 4 Door Chassis, 4x4, 60" CA	
FS19FFB07	Summit Fire Brush Unit, 400 Gallon Tank, 23HP Rear Mounted Gasoline Pump, 116" Aluminum Platform Body W/ Bulkhead & Side Storage Boxes, Ford F550, 2 Door Chassis, 4x4, 60" CA	
FS19FFB08	Summit Fire Severe Duty Brush Unit, 300 Gallon Tank, 18HP Rear Mounted Gasoline Pump, 116" Aluminum Platform Body W/ Bulkhead & Side Storage Boxes, Ford F550, 2 Door Chassis, 4x4, Large Tire & Wheel Package, Super Single Rear Wheel, 60" CA	

FS19FFB09	Summit Fire Severe Duty Brush Unit, 300 Gallon Tank, 23HP Rear Mounted Gasoline Pump, 116" Aluminum Platform Body W/ Bulkhead & Side Storage Boxes, Ford F550, 2 Door Chassis, 4x4, Large Tire & Wheel Package, Super Single Rear Wheel, 60" CA	
FS19FFB10	Summit Fire Brush / Utility ERB Unit, 250 Gallon Tank, 18HP Rear Mounted Gasoline Pump, 112" Aluminum Roll Up Door Body, Ford F550, 2 Door Chassis, 4x4, 60" CA	
FS19FFB11	Summit Fire Brush / Utility ERB Unit, 250 Gallon Tank, 18HP Rear Mounted Gasoline Pump, 140" Aluminum Roll Up Door Body, Ford F550, 2 Door Chassis, 4x4, 84" CA	
FS19FFB12	Summit Fire Brush / Utility ERB Unit, 250 Gallon Tank, 18HP Rear Mounted Gasoline Pump, 112" Aluminum Roll Up Door Body, RAM 5500, 2 Door Chassis, 4x4, 60" CA	
FS19FFB13	Summit Fire Brush / Utility ERB Unit, 250 Gallon Tank, 18HP Rear Mounted Gasoline Pump, 140" Aluminum Roll Up Door Body, RAM 5500, 2 Door Chassis, 4x4, 84" CA	
C. Pumper Fire Apparatus		
FS19FFC01	Summit Fire Quick Attack / Mini Piumper, 500 GPM PTO Pump, 300 Gallon tank, Aluminum Roll Up Door Short Body, Ford F550, 2 door , 4x4, 84" CA	
FS19FFC02	Summit Fire Quick Attack / Mini Piumper, 500 GPM PTO Pump, 300 Gallon tank, Aluminum Roll Up Door Tall Body, Ford F550, 4 door , 4x4, 84" CA	
FS19FFC03	Summit Fire Quick Attack / Mini Piumper, 1000 GPM MidShip Pump, 300 Gallon tank, Aluminum Roll Up Door Short Body, Ford F550, Super Cab, 4x4, 84" CA	
FS19FFC04	Summit Fire Quick Attack / Mini Piumper, 1000 GPM Midship Pump, 300 Gallon tank, Aluminum Roll Up Door Short Body, Ford F550, 4 door , 4x4, 84" CA	
FS19FFC05	Summit Fire Quick Attack / Mini Piumper, 1000 GPM Midship Pump, 300 Gallon tank, Aluminum Roll Up Door, Short Body, Enclosed Pump House, Ford F550, Super Cab, 4x4, 84" CA	
FS19FFC06	Summit Fire Quick Attack / Mini Piumper, 1000 GPM Midship Pump, 300 Gallon tank, Aluminum Roll Up Door, Short Body, Enclosed Pump House, Ford F550, 4 door , 4x4, 84" CA	
FS19FFC07	Summit Fire Quick Attack / Mini Piumper, 1250 GPM Midship Pump, 300 Gallon tank, Aluminum Roll Up Door, Short Body, Ford F550, Super Cab, 4x4, 84" CA	
FS19FFC08	Summit Fire Quick Attack / Mini Piumper, 1250 GPM Midship Pump, 300 Gallon tank, Aluminum Roll Up Door, Short Body, Ford F550, 4 door , 4x4, 84" CA	
FS19FFC09	Summit Fire Severe Duty Quick Attack / Mini Piumper, 1250 GPM Midship Pump, 300 Gallon tank, Aluminum Roll Up Door, Short Body, Ford F550, 4 door, 4x4, 84" CA, Large Tire & Wheel Package	
FS19FFC10	Summit Fire Severe Duty Quick Attack / Mini Piumper, 1250 GPM Midship Pump, 300 Gallon tank, Aluminum Roll Up Door, Short Body, Ford F550, 4 door , 4x4, 84" CA, Large Tire & Wheel Package	
FS19FFC11	Summit Commercial Smart Pumper, Highside / Lowside Aluminum Swing Door Body, 1250 GPM Midship Pump, 1000 Gallon Tank, Freigtliner M2, 2 Door	
FS19FFC12	Summit Commercial Smart Pumper, Highside / Lowside Aluminum Roll Up Door Body, 1250 GPM Midship Pump, 1000 Gallon Tank, Freigtliner M2, 2 Door	
FS19FFC13	Summit Commercial Rescue Style Pumper, Aluminum Roll Up Door Body, 1250 GPM Midship Pump, 750 Gallon Tank, Freigtliner M2, 2 Door	
FS19FFC14	Summit Commercial Rescue Style Pumper, Aluminum Roll Up Door Body, 1250 GPM Midship Pump, 1000 Gallon Tank, Freigtliner M2, 2 Door,	
FS19FFC15	Summit Commercial Rescue Style Pumper, HighSide / Midside Aluminum Roll Up Door Body, 1250 GPM Midship Pump, 750 Gallon Tank, Freigtliner M2, 2 Door	
FS19FFC16	Summit Fire Custom Smart Pumper, HighSide / Lowside Aluminum Swing Door Body, 1250 GPM Midship Pump, 1000 Gallon Tank, Spartan, 4 Door Custom Cab Chassis	

FS19FFC17	Summit Fire Custom Smart Pumper, HighSide / Highside Aluminum Swing Door Body, 1250 GPM Midship Pump, 1000 Gallon Tank, Spartan, 4 Door Custom Cab Chassis	
FS19FFC18	Summit Fire Custom Cab Rescue Style Pumper, Aluminum HighSide/Midside, Roll Up Door Body, 1250 GPM Midship Pump, 750 Gallon Tank, Spartan, 4 Door Custom Cab Chassis	
FS19FFC19	Summit Fire Custom Cab Rescue Style Pumper, Aluminum HighSide/Highside, Roll Up Door Body, 1250 GPM Midship Pump, 750 Gallon Tank, Spartan, 4 Door Custom Cab Chassis	
FS19FFC20	Summit Fire Custom Cab Stainless Steel Pumper, HighSide/Midside, Roll Up Door Body, 1250 GPM Midship Pump, 750 Gallon Tank, Spartan, 4 Door Custom Cab Chassis	
FS19FFC21	Summit Fire Custom Cab Stainless Steel Pumper, HighSide/Highside, Roll Up Door Body, 1250 GPM Midship Pump, 750 Gallon Tank, Spartan, 4 Door Custom Cab Chassis	
FS19FFC22	Summit Fire Custom Cab Pumper Rescue, Aluminum HighSide/Highside, Roll Up Door Body, Roof Top Storage, 1250 GPM Midship Pump, 750 Gallon Tank, Spartan, 4 Door Custom Cab Chassis	
FS19FFC23	Summit Fire Custom Cab Pumper Rescue, Aluminum HighSide/Highside, Roll Up Door Body, Roof Top Storage, (Tall Body) 1250 GPM Midship Pump, 750 Gallon Tank, Spartan, 4 Door Custom Cab Chassis	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue,		
FS19FFD01	Summit Fire Remote Evacuation & Deployment Wagon (R.E.D Wagon)	
FS19FFD02	Summit Fire Remote Evacuation & Deployment Wagon T.W.O (R.E.D Wagon Trail & Wildland)	
FS19FFD03	Summit Fire Rescue ERB Unit, 7 bay, 112" Aluminum Roll Up Door Body, Ford F550, 2 Door Chassis, 4x4, 60" CA	
FS19FFD04	Summit Fire Rescue ERB Unit, 7 bay, 112" Aluminum Roll Up Door Body, RAM 5500, 2 Door Chassis, 4x4, 60" CA	
FS19FFD05	Summit Fire Rescue ERB Unit, 7 bay, 140" Aluminum Roll Up Door Body, Ford F550, 2 Door Chassis, 4x4, 84" CA	
FS19FFD06	Summit Fire Rescue ERB Unit, 7 bay, 140" Aluminum Roll Up Door Body, RAM 5500, 2 Door Chassis, 4x4, 84" CA	
FS19FFD07	Summit Fire Medium Duty Rescue, Aluminum 14 foot, 7 Bay Rescue, Roll up Door, Freightliner M2 chassis, 2 Door	
FS19FFD08	Summit Fire Medium Duty Rescue, Aluminum 16 foot, 9 Bay Rescue, Roll up Door, Freightliner M2 chassis, 2 Door	
FS19FFD09	Summit Fire Custom Cab Heavy Rescue, Aluminum 18 foot, 9 Bay Rescue, Roll Up Door, Roof Top Storage, Spartan 4door Custom Cab.	
FS19FFD10	Summit Fire Custom Cab Heavy Rescue, Stainless Steel 18 foot, 9 Bay Rescue, Roof top Storage, Roll Up Door, Spartan 4door Custom Cab Chassis.	
FS19FFD11	Summit Fire Custom Cab Heavy Rescue, Aluminum 20 foot, 9 Bay Rescue, Roll Up Door, Roof top Storage, Spartan 4door Custom Cab Chassis.	
FS19FFD12	Summit Fire Custom Cab Heavy Rescue, Stainless Steel, 20 foot, 9 Bay Rescue, Roll Up Door, Roof top Storage, Spartan 4door Custom Cab Chassis.	
E. Pumper/Tankers & Tankers		
FS19FFE01	Summit Fire ETB Economy Tanker, 1800 Gallon Poly Elliptical Tank, Single Rear Manual Dump Chute, Freightliner M2 Chassis cab, 2 Door, Single Rear Axle	
FS19FFE02	Summit Fire ETB Economy Tanker, 3000 Gallon Poly Elliptical Tank, Single Rear Manual Dump Chute, Freightliner M2 Chassis cab, 2 Door, Tandem Rear Axle	
FS19FFE03	Summit Fire ETB Pumper Tanker, 1800 Gallon Poly Elliptical Tank, Single Rear Manual Dump Chute, 1250 GPM Midship Pump, Freightliner M2 Chassis cab, 2 Door, Single Rear Axle	

FS19FFE04	Summit Fire ETB Pumper Tanker, 3000 Gallon Poly Elliptical Tanker, Single Rear Manual Dump Chute, 1250 GPM Midship Pump, Freightliner M2 Chassis cab, 2 Door, Tandem Rear Axle	
FS19FFE05	Summit Fire Wetside Square Tanker, 2000 Gallon Poly Tank, Single Rear Manual Dump Chute, Freightliner M2 Chassis cab, 2 Door, Single Rear Axle	
FS19FFE06	Summit Fire Wetside Square Tanker, 3000 Gallon Poly Tank, Single Rear Manual Dump Chute, Freightliner M2 Chassis cab, 2 Door, Tandem Rear Axle	
FS19FFE07	Summit Fire Wetside Pumper Tanker, 1800 Gallon Poly Tanker, Single Rear Manual Dump Chute, 1250 GPM Midship Pump, Freightliner M2 Chassis cab, 2 Door, Single Rear Axle	
FS19FFE08	Summit Fire Wetside Pumper Tanker, 3000 Gallon Poly Tank, Single Rear Manual Dump Chute, 1250 GPM Midship Pump, Freightliner M2 Chassis cab, 2 Door, Tandem Rear Axle	
FS19FFE09	Summit Fire Dryside Tanker, 2000 Gallon Poly Tank, Single Rear Manual Dump Chute, Freightliner M2 Chassis cab, 2 Door, Single Rear Axle	
FS19FFE10	Summit Fire Dryside Tanker, 3000 Gallon Poly Tank, Single Rear Manual Dump Chute, Freightliner M2 Chassis cab, 2 Door, Tandem Rear Axle	
FS19FFE11	Summit Fire Dryside Pumper Tanker, 1800 Gallon Poly Tanker, Single Rear Manual Dump Chute, 1250 GPM Midship Pump, Freightliner M2 Chassis cab, 2 Door, Single Rear Axle	
FS19FFE12	Summit Fire Dryside Pumper Tanker, 3000 Gallon Poly Tank, Single Rear Manual Dump Chute, 1250 GPM Midship Pump, Freightliner M2 Chassis cab, 2 Door, Tandem Rear Axle	
FS19FFE13	Summit Fire Stainless Steel Elliptical Tanker, 2000 Gallon Stainless Wrapped Poly Tank, Freightliner M2 Chassis, 2 Door, Sigle Rear Axle	
FS19FFE14	Summit Fire Stainless Steel Elliptical Tanker, 3000 Gallon Stainless Wrapped Poly Tank, Freightliner M2 Chassis, 2 Door, Tandem Rear Axle	
FS19FFE15	Summit Fire Commercial Dryside Stainless Steel Tanker, 3000 Gallon Poly Tank, Freightliner M2 Chassis, 2 Door, Tandem Rear Axle	
FS19FFE16	Summit Fire Custom Cab Dryside Stainless Steel Tanker, 3000 Gallon Stainless Wrapped Poly Tank, Spartan 4 Door Custom Cab & Chassis, Tandem Rear Axle	
GG. Sunbelt Fire, Inc.		
B. Wildland Fire Apparatus (Brush Fire)		
FS19GGB01	Ford F450, 2-door, Aluminum Fabricated Flatbed Body, 9' Flatbed Wildland Vehicle	
FS19GGB02	Dodge 5500, 2-door, Aluminum Fabricated Flatbed Body, 9' Flatbed Wildland Vehicle	
FS19GGB03	Ford F450, 2-door, Aluminum Extruded Body, 10' Quick Attack Wildland Vehicle	
FS19GGB04	Dodge 5500, 2-door, Aluminum Extruded Body, 10' Quick Attack Wildland Vehicle	
FS19GGB05	Skid Unit for Slide in Style Body	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19GGD01	Ford F450, 2-door, Aluminum Extruded Body, 10' Light Rescue Vehicle	
FS19GGD02	Dodge 5500, 2-door, Aluminum Extruded Body, 10' Light Rescue Vehicle	
FS19GGD03	Freightliner M2, 2-door Aluminum Extruded Body, 18' Walk-in Rehabilitation Vehicle	
FS19GGD04	IHC 4400, 2-door Aluminum Extruded Body, 18' Walk-in Rehabilitation Vehicle	
FS19GGD05	Freightliner M2, 2-door Aluminum Extruded Body, 18' Non-Walk-in Rescue Vehicle	
FS19GGD06	IHC 4400, 2-door Aluminum Extruded Body, 18' Non-Walk-in Rescue Vehicle	
FS19GGD07	Freightliner M2, 2-door Aluminum Extruded Body, 18' Command Vehicle	
FS19GGD08	IHC 4400, 2-door Aluminum Extruded Body, 18' Command Vehicle	

HH. SVI Trucks		
B. Wildland Fire Apparatus (Brush Fire)		
FS19HHB01	Ford F550, 2-Door, OEM Cab, 4x4, Single Axle, Aluminum Body, 100 GPM, 250 Gal Tank Slip-In, Wildland Type 6	
FS19HHB02	International HV507, 4-Door, OEM Cab, 4x4, Aluminum Body, Single Axle, 500 GPM, 500 Gallon, Mid-Mounted Wildland Type 3	
C. Pumper Fire Apparatus		
FS19HHC01	International MV607, 2-Door, OEM Cab, 4x2, Aluminum Body, Single Axle, 1250 GPM Pump, Mid-Mounted Pumper	
FS19HHC02	Spartan 4-Door Chassis, Aluminum Tilt Cab, 4x2, Aluminum Body, Single Axle, 1250 GPM Pump, Mid-Mounted Pumper	
FS19HHC03	Ford F550, 4-Door, OEM Cab, 4x2, Aluminum Body, Single Axle, 1250 GPM Pump, 300 Gallon, Mid-Mounted Pumper	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19HHD01	Ford F550, 2-Door, OEM Cab, 4x2, Single Axle, Aluminum Body, Non-Walk-In Rescue	
FS19HHD02	International MV607, 2-Door, OEM Cab, 4x2, Single Axle, Aluminum Body, Non-Walk-In Rescue	
FS19HHD03	Spartan 4-Door Chassis, Aluminum Tilt Cab, 4x2, Single Axle, Aluminum Body, Non-Walk-In Body	
FS19HHD04	International MV607, 2-Door, OEM Cab, 4x2, Single Axle, Aluminum Body, Walk-In Rescue	
FS19HHD05	Spartan 4-Door Chassis, Aluminum Tilt Cab, 4x2, Single Axle, Aluminum Body, Walk-In Body	
FS19HHD06	International MV607, 2-Door, OEM Cab, 4 x 2 Single Axle, Aluminum Body, Mobile Bauer Compressor Unit	
E. Pumper/Tankers & Tankers		
FS19HHE01	International MV607, 2-Door, OEM Cab, 4x2, Aluminum Body, Single Axle, 2,000 Gallon Tanker, 500 GPM Pump	
II. Sutphen Corporatation (Sutphen)		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19IIA01	Sutphen SA75, Custom 4-Door Full-Tilt Aluminum Cab, Stainless Steel Body, Single Axle, 75' Mid Mounted 1000# Telescoping Aluminum Box Boom with Climbing Ladder	
FS19IIA02	Sutphen SL75, Custom 4-Door Full-Tilt Aluminum Cab, Stainless Steel Body, Single Axle, 75' Mid Mounted 1000# Aluminum Ladder	
FS19IIA03	Sutphen SL100, Custom 4-Door Full-Tilt Aluminum Cab, Stainless Steel Body, Tandem Axle, 100' Mid Mounted 750# Aluminum Ladder	
FS19IIA04	Sutphen SP70, Custom 4-Door Full-Tilt Aluminum Cab, Stainless Steel Body, Single Axle, 70' Mid Mounted 1000# Telescoping Aluminum Box Boom with Platform	
FS19IIA05	Sutphen SP95, Custom 4-Door Full-Tilt Aluminum Cab, Stainless Steel Body, Tandem Axle, 95' Mid Mounted 1000# Telescoping Aluminum Box Boom with Platform	
FS19IIA06	Sutphen SPH100, Custom 4-Door Full-Tilt Aluminum Cab, Stainless Steel Body, Tandem Axle, 100' Mid Mounted 1000# Telescoping Aluminum Box Boom with Platform	
FS19IIA07	Sutphen SP110, Custom 4-Door Full-Tilt Aluminum Cab, Stainless Steel Body, Tandem Axle, 110' Mid Mounted 1000# Telescoping Aluminum Box Boom with Platform	
FS19IIA08	Sutphen SLR75, Custom 4-Door Full-Tilt Aluminum Cab, Stainless Steel Body, Single Axle, 75' Rear Mounted 750# Aluminum Ladder	
FS19IIA09	Sutphen SLR108, Custom 4-Door Full-Tilt Aluminum Cab, Stainless Steel Body, Tandem Axle, 108' Rear Mounted 750# Aluminum Ladder	
B. Wildland Fire Apparatus (Brush Fire)		
FS19IIB01	Sutphen/International 7400 4x4, Type 3 Pumper, 4-Door Commercial Cab, Extruded Aluminum Body, Single Axle, 750 GPM Mid-Mounted Two-Stage Pump	

FS19IIB02	Sutphen Custom Wildland Urban Interface Pumper, 4 Door Full Tilt Aluminum Cab, Extruded Aluminum Body, Single Axle, 1250 GPM Mid-Mounted Pump	
C. Pumper Fire Apparatus		
FS19IIC01	Sutphen/International 4400, 2-Door Commercial Cab, Pumper, Extruded Aluminum Body, Single Axle, 1250 GPM Mid-Mounted Single Stage Pump	
FS19IIC02	Sutphen Program 1 Custom-Pumper, 4 Door Full Tilt Aluminum Cab, Extruded Aluminum Body, Single Axle, 1250 GPM Mid-Mounted Pump	
FS19IIC03	Sutphen Program 2 Custom Pumper, 4 Door Full Tilt Aluminum Cab, Extruded Aluminum Body, Single Axle, 1250 GPM Mid-Mounted Pump	
FS19IIC04	Sutphen Fully Customized Pumper, 4 Door Full Tilt Aluminum Cab, Extruded Aluminum Body, Single Axle, 1250 GPM Mid-Mounted Pump	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19IID01	Sutphen Custom Rescue, Non-Walk-In, 4 Door Full Tilt Aluminum Cab, Single Axle, Formed Aluminum Body	
E. Pumper/Tankers & Tankers		
FS19IIE01	Sutphen/International Pumper/Wetside Tanker, 2-Door Commercial Cab, Stainless Steel Body, Single Axle, 1250 GPM Mid-Mounted Pump	
FS19IIE02	Sutphen/International Pumper/Eliptical Tanker, 2-Door Commercial Cab, Stainless Steel Body, Single Axle, 1250 GPM Mid-Mounted Pump	
FS19IIE03	Sutphen/International Pumper/Wetside Tanker, 2-Door Commercial Cab, Stainless Steel Body, Tandem Axle, 1250 GPM Mid-Mounted Pump	
FS19IIE04	Sutphen/International Pumper/Eliptical Tanker, 2-Door Commercial Cab, Stainless Steel Body, Tandem Axle, 1250 GPM Mid-Mounted Pump	
FS19IIE05	Sutphen Custom Pumper Tanker, 4 Door Full Tilt Aluminum Cab, Extruded Aluminum Body, Tandem Axle, 1250 GPM Mid-Mounted Pump	
JJ. Toyne		
A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19JJA01	Toyne, single axle, Spartan chassis, 75' rear mount aerial, stainless steel body, 300 gallons, side stack hosebed, single stage 1500 gpm pump mid mounted	
FS19JJA02	Toyne tandem axle, Spartan chassis, 110' rear mount aerial with stainless steel body, 300 gallons of water, side stack hosebed, single stage 1500 gpm pump mid mounted	
FS19JJA03	Toyne tandem axle, Spartan chassis, rear mount 100' platform, stainless steel body, 300 gallons of water, hosebed, single stage 1500 gpm pump mid mounted	
FS19JJA04	Toyne tandem axle, Spartan chassis, mid-mount 100” platform, stainless steel body, 300 gallons of water, hosebed, single stage 1500 gpm pump mid mounted	
FS19JJA05	Toyne single axle, Spartan chassis 50’ Tele Squirt, stainless steel body, 500 gallons of water, hose bed, single state 1,250 GPM pump mid mounted	
B. Wildland Fire Apparatus (Brush Fire)		
FS19JJB01	Toyne, Ford F550 4 door, staineless steel body, 1000 gpm midship pump, 300 gallons of water	
C. Pumper Fire Apparatus		
FS19JJC01	Freightliner M2, 2-Door Commercial Cab, Pumper, stainless steel Body, Single Axle, 1250 GPM Pump, Single Stage, Mid-Mounted, 750 gallons of water	
FS19JJC02	International 4400, 2-Door Commercial Cab, Pumper, stainless steel Body, Single Axle, 1250 GPM Pump, Single Stage, Mid-Mounted, 750 gallons of water	
FS19JJC03	Kenworth, 2-Door Commercial Cab, Aluminum Body, Single Axle, 1250 GPM Pump, Mid-Mounted, 750 gallons of water	
FS19JJC04	Spartan, 4 Door Custom Full Tilt Aluminum Cab, Pumper, stainless steel Body, Single Axle, 1250 GPM Pump, Mid Mounted, 750 gallons of water	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19JJD01	International 4400, 2-Door, Commercial Cab, Single Axle, stainless steel Body, Non-Walk-In Rescue (walk around type)	
FS19JJD02	Spartan, 4-Door, Full-Tilt, Aluminum Cab, Single Axle, stainless steel Body, Non-Walk-In Body (walk around type)	

FS19JJD03	Ford F550, 4 door Cab, Single Axle, stainless steel body, Non-Walk-In Rescue (walk around type)	
E. Pumper/Tankers & Tankers		
FS19JJE01	International, 2-Door, Commercial Cab, Pumper/Tanker, stainless steel Body, Tandem Axle, 1250 GPM Pump, Mid-Mounted, 2500 gallons	
FS19JJE02	Spartan, 4-Door, Custom Full-Tilt, Aluminum Cab, Pumper/Tanker, stainless steel Body, Tandem Axle, 1250 GPM Pump, Mid-Mounted, 2500 gallons	
FS19JJE03	International, 2-Door, Commercial Cab, Elliptical Tpumper/tanker, welded stainless steel Body, Tandem Axle, 1250 GPM Pump, 2000 gallon	
FS19JJE04	International, 2-Door, Commercial Cab, wetside pumper/tanker, aluminum treadplate Body, single Axle, 750 gpm Pump, 3000 gallon	
KK. U S Tanker		
E. Pumper/Tankers & Tankers		
FS19KKE01	Elliptical Tanker, Midship Pump, 1250 GPM, 2000 Gallon Tank, Stainless Steel Body, Freightliner Chassis, 2-Door, Single Axle	
FS19KKE02	Elliptical Tanker, Midship Pump, 1250 GPM, 2000 Gallon Tank, Stainless Steel Body, International Chassis, 2-Door, Single Axle	
FS19KKE03	Elliptical Tanker, Midship Pump, 1250 GPM, 2000 Gallon Tank, Stainless Steel Body, Kenworth Chassis, 2-Door, Single Axle	
FS19KKE04	Elliptical Tanker, Midship Pump, 1250 GPM, 3000 Gallon Tank, Stainless Steel Body, Freightliner Chassis, 2-Door, Tandem Axle	
FS19KKE05	Wet Side Tanker, Midship Pump, 1250 GPM, 2000 Gallon Tank, Stainless Steel Body, Freightliner Chassis, 2-Door, Single Axle	
FS19KKE06	Wet Side Tanker, Midship Pump, 1250 GPM, 2000 Gallon Tank, Stainless Steel Body, International Chassis, 2-Door, Single Axle	
FS19KKE07	Wet Side Tanker, Midship Pump, 1250 GPM, 2000 Gallon Tank, Stainless Steel Body, Kenworth Chassis, 2-Door, Single Axle	
FS19KKE08	Wet Side Tanker, Midship Pump, 1250 GPM, 3000 Gallon Tank, Stainless Steel Body, Freightliner Chassis, 2-Door, Tandem Axle	
LL. Unruh Fire, Inc.		
B. Wildland Fire Apparatus (Brush Fire)		
FS19LLB01	Unruh Fire 11 ft Attack Brush, extruded aluminum brush body with crosswalk, F550, 4x4	
FS19LLB02	Unruh Fire 9 ft Attack brush, extruded aluminum brush body with work stations, F550, 4x4	
FS19LLB03	Unruh Fire 9 ft Attack Brush, extruded aluminum flatbed brush body, F550, 4x4	
D. Special Service Apparatus (Walk-In & Non-Walk-in Bodies) Multi-use: Rescue, Re-Hab, Hazmat, Mobile Command Center		
FS19LLD01	doors, F550 4x4	
FS19LLD02	Unruh Fire 11 ft Rapid Rescue, extruded aluminum dry rescue body, compartments with 7 roll up doors, F550, 4x4	
FS19LLD03	Unruh Fire 9 ft Rapid Rescue, extruded aluminum wet rescue body with 6 roll up door compartments, F550, 4x4	
FS19LLD04	Unruh Fire 11 ft Rapid Rescue, extruded aluminum wet rescue body, compartments with 6 roll up doors, F550, 4x4	
F. Airport Rescue Fire-Fighting Vehicles		
FS19LLF01	Unruh Fire 12 ft ARFF Rescue, extruded aluminum body with 6 roll up door compartments, 500lbs dry chemical, engine driven pump, F550, 4x4	
FS19LLF02	Unruh Fire 12 ft ARFF Rescue, extruded aluminum body with 6 roll up door compartments, stored energy CAFS, 500 lbs dry chemical, F550, 4x4	
MM. Weis Fire & Safety Equipment Co.		
B. Wildland Fire Apparatus (Brush Fire)		

FS19MMB01	Weis Fire Quick Attack 300, Rear Mount Pump Controls, 9’ EXT Alum Fire Body with Walkway, on Ford F-350, 60” CA	
FS19MMB02	Weis Fire Quick Attack 300, Rear Mount Pump Controls, 9’ EXT Alum Fire Body with Walkway, on Ford F-450 60” CA	
FS19MMB03	Weis Fire Quick Attack 400, Rear Mount Pump Controls, 11’ EXT Alum Fire Body with Walkway, on Ford F-550 84” CA	
FS19MMB04	Weis Fire Quick Attack 500, Rear Mount Pump Controls, 11’ EXT Alum Fire Body with Walkway, on Ford F-550 84” CA	
FS19MMB05	Weis Fire Quick Attack 300, Rear Mount Pump Controls, 9’ EXT Alum Fire Body with Walkway, on Dodge 5500 Crew Cab, 60” CA	
FS19MMB06	Weis Fire Quick Attack 400, Rear Mount Pump Controls, 9’ EXT Alum Fire Body with Walkway, on Dodge 5500 Crew Cab, 60” CA	
FS19MMB07	Weis Fire Quick Attack 400, Rear Mount Pump Controls, 11’ EXT Alum Fire Body with Walkway, on Dodge 5500 84” CA	
FS19MMB08	Weis Fire Quick Attack 500, Rear Mount Pump Controls, 11’ EXT Alum Fire Body with Walkway, on Dodge 5500 84” CA	

FORM E - PUBLISHED OPTIONS	Procurement No.:	FS12-19
Offeror Name:		
Notes: (Important)	1) Bid each Option on a single separate line. Bidder is responsible to identify each item with a specific code or part number. 2) Use a single **Form E** for ALL items. Add/Insert additional lines as necessary. 3) Completely describe each option, including manufacturer's code or part numbers as appropriate. Each item listed MUST have a unique code or part number. 4) Options which replace standard equipment on a base bid Item on Form D should be priced net of any credit due for the replaced item. 5) Options which are shown as upgrades/downgrades of a base bid item on Form D should be priced at the differential amount between the base bid item and the option. 6) You encouraged to offer specific manufacturer's catalogs (eg. Whelan, Fed Signal, etc.) as options, with 'List Less' or 'Cost Plus' percentages for pricing. Copy of catalog should be supplied w/bid.	

Note: Bidder must identify each option bid with an identifying Code or Part No. that should be referenced on all Contract Pricing Worksheets

Code or Part No.	Option Description	Offered Price

FORM G:	**SPECIAL STATEMENT OF WARRANTY**
FS12-19	"Fire Service Apparatus (All Types)"

*This form shall be completed by the **MANUFACTURER** and signed by one of its Corporate Officers. No agent signature shall be acceptable on this document.*

_____, the **"Manufacturer"**, warrants each newly manufactured Fire Apparatus, to the original user/purchaser only for the specified periods stated below, from the date of acceptance, ordinary wear and tear excepted:

Component:	**Warranty:**
•Cab & Chassis	One (1) year, parts & labor
•Chassis Frame Rails	Five (5) years, parts & labor
•Diesel Engine	Five (5) years, parts & labor
•Transmission	Five (5) years, parts & labor
•Fire Pump	One (1) year, parts & labor
•Fire Pump Panel Gauge	One (1) year, parts & labor
•Water Tank	Twenty (20) years, parts & labor
•Apparatus Body	One (1) year, parts & labor Ten (10) years, rust/corrosion penetration Ten (10) years or 100,000 miles, structural warranty Three (3) years, paint
•Aerial Device	Twenty (20) years, structural Two (2) years, hydraulic components One (1) year, parts and labor One (1) year, waterway

The **Manufacturer's** obligations under this warranty shall be specifically limited to replacing or repairing, as the **Manufacturer** may elect, any part or parts of such product which to the Manufacturer's examination discloses to be defective in material or workmanship.

Any part or parts considered to be covered by the conditions of this warranty shall be returned, freight prepaid, to the **Manufacturer's** factory located at _____ or to such other location as may be approved in advance by the **Manufacturer.** Replaced or repaired parts determined to be included within the warranty shall be F.O.B. to the End User's physical location. Freight and labor to reinstall parts shall be paid by the **Manufacturer**.

The **Manufacturer's** warranty shall **not** apply to the following:

- Wear items.
- Normal adjustments and maintenance services.
- Failures resulting from the product being operated in a manner not in accordance with the operation manual or for a purpose not recommended by the **Manufacturer**.
- Any product which shall have been repaired, modified, or altered in any way so as to have been adversely affected the units stability or reliability.
- Items subjected to misuse, negligence, accident, or improper maintenance.
- Loss of time or use of the product, inconvenience or other incidental expenses.

Any trade accessory that has its own warranty shall have said warranty document attached with the bid response. If a separate warranty equal or exceeding is not attached, then the **Manufacturer** warrants any trade accessory not specifically covered by a separate warranty.

Nothing contained in this warranty shall make the **Manufacturer**, liable beyond the express limitations hereof, for loss, injury, or damage of any kind to any person or entity resulting from any defect or failure of the product (except as covered by Product liability insurance).

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATIONS, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

MANUFACTURER:	
Corporate Officer Signature:	
Printed Name and Title:	
WARRANTY ADMINISTRATOR:	
Printed Name and Title:	
Date:	

Form H - Marketing	**Invitation No.: FS12-19**
Offeror Name:	

Bidder shall provide a written narrative explaining in some detail activities that will be undertaken to actively market and promote an H-GAC contract to local government and non-profit End Users.

GENERAL PROVISIONS

This Agreement is made and entered into, by and between the Houston-Galveston Area Council hereinafter referred to as H-GAC having its principal place of business at 3555 Timmons Lane, Suite 120, Houston, Texas 77027 and _____., hereinafter referred to as the Contractor, having its principal place of business at _____.

WITNESSETH:

WHEREAS, H-GAC hereby engages the Contractor to perform certain services in accordance with the specifications of the Agreement; and

WHEREAS, the Contractor has agreed to perform such services in accordance with the specifications of the Agreement;

NOW, THEREFORE, H-GAC and the Contractor do hereby agree as follows:

ARTICLE 1: LEGAL AUTHORITY
The Contractor warrants and assures H-GAC that it possesses adequate legal authority to enter into this Agreement. The Contractor's governing body, where applicable, has authorized the signatory official(s) to enter into this Agreement and bind the Contractor to the terms of this Agreement and any subsequent amendments hereto.

ARTICLE 2: APPLICABLE LAWS
The Contractor agrees to conduct all activities under this Agreement in accordance with all applicable rules, regulations, directives, standards, ordinances, and laws, in effect or promulgated during the term of this Agreement, including without limitation, workers' compensation laws, minimum and maximum salary and wage statutes and regulations, and licensing laws and regulations. When required, the Contractor shall furnish H-GAC with satisfactory proof of its compliance therewith.

ARTICLE 3: INDEPENDENT CONTRACTOR
The execution of this Agreement and the rendering of services prescribed by this Agreement do not change the independent status of H-GAC or the Contractor. No provision of this Agreement or act of H-GAC in performance of the Agreement shall be construed as making the Contractor the agent, servant or employee of H-GAC, the State of Texas or the United States Government. Employees of the Contractor are subject to the exclusive control and supervision of the Contractor. The Contractor is solely responsible for employee related disputes and discrepancies, including employee payrolls and any claims arising therefrom.

ARTICLE 4: WHOLE AGREEMENT
The General Provisions, Special Provisions, and Attachments, as provided herein, constitute the complete Agreement ("Agreement") between the parties hereto, and supersede any and all oral and written agreements between the parties relating to matters herein. Except as otherwise provided herein, this Agreement cannot be modified without written consent of the parties.

ARTICLE 5: SCOPE OF SERVICES

The services to be performed by the Contractor are outlined in an Attachment to this Agreement.

ARTICLE 6: PERFORMANCE PERIOD

This Agreement shall be performed during the period which begins _____ and ends _____. All services under this Agreement must be rendered within this performance period, unless directly specified under a written change or extension provisioned under Article 15, which shall be fully executed by both parties to this Agreement.

ARTICLE 7: PAYMENT OR FUNDING

Payment provisions under this Agreement are outlined in the Special Provisions.

ARTICLE 8: REPORTING REQUIREMENTS

If the Contractor fails to submit to H-GAC in a timely and satisfactory manner any report required by this Agreement, or otherwise fails to satisfactorily render performances hereunder, H-GAC may terminate this agreement with notice as identified in Article 16 of these General Provisions. H-GAC has final determination of the adequacy of performance and reporting by Contractor. Termination of this agreement for failure to perform may affect Contractor's ability to participate in future opportunities with H-GAC. The Contractor's failure to timely submit any report may also be considered cause for termination of this Agreement.

Any additional reporting requirements shall be set forth in the Special Provisions of this Agreement.

ARTICLE 9: INSURANCE

Contractor shall maintain insurance coverage for work performed or services rendered under this Agreement as outlined and defined in the attached Special Provisions.

ARTICLE 10: SUBCONTRACTS and ASSIGNMENTS

Except as may be set forth in the Special Provisions, the Contractor agrees not to subcontract, assign, transfer, convey, sublet or otherwise dispose of this Agreement or any right, title, obligation or interest it may have therein to any third party without prior written approval of H-GAC. The Contractor acknowledges that H-GAC is not liable to any subcontractor or assignee of the Contractor. The Contractor shall ensure that the performance rendered under all subcontracts shall result in compliance with all the terms and provisions of this Agreement as if the performance rendered was rendered by the Contractor. Contractor shall give all required notices, and comply with all laws and regulations applicable to furnishing and performance of the work. Except where otherwise expressly required by applicable law or regulation, H-GAC shall not be responsible for monitoring Contractor's compliance, or that of Contractor's subcontractors, with any laws or regulations.

ARTICLE 11: AUDIT

Notwithstanding any other audit requirement, H-GAC reserves the right to conduct or cause to be conducted an independent audit of any transaction under this Agreement, such audit may be performed by the H-GAC local government audit staff, a certified public accountant firm, or other auditors designated by H-GAC and will be conducted in accordance with applicable professional standards and practices. The Contractor understands and agrees that the Contractor shall be liable to the H-GAC for any findings that result in monetary obligations to H-GAC.

ARTICLE 12: EXAMINATION OF RECORDS

The Contractor shall maintain during the course of the work complete and accurate records of all of the Contractor's costs and documentation of items which are chargeable to H-GAC under this Agreement. H-GAC, through its staff or designated public accounting firm, the State of Texas, and United States Government, shall have the right at any reasonable time to inspect, copy and audit those records on or

off the premises by authorized representatives of its own or any public accounting firm selected by H-GAC. The right of access to records is not limited to the required retention period, but shall last as long as the records are retained. Failure to provide access to records may be cause for termination of the Agreement. The records to be thus maintained and retained by the Contractor shall include (without limitation): (1) personnel and payroll records, including social security numbers and labor classifications, accounting for total time distribution of the Contractor's employees working full or part time on the work, as well as cancelled payroll checks, signed receipts for payroll payments in cash, or other evidence of disbursement of payroll payments; (2) invoices for purchases, receiving and issuing documents, and all other unit inventory records for the Contractor's stocks or capital items; and (3) paid invoices and cancelled checks for materials purchased and for subcontractors' and any other third parties' charges.

The Contractor further agrees that the examination of records outlined in this article shall be included in all subcontractor or third-party agreements.

ARTICLE 13: RETENTION OF RECORDS

The Contractor and its subcontractors shall maintain all records pertinent to this Agreement, and all other financial, statistical, property, participant records, and supporting documentation for a period of no less than seven (7) years from the later of the date of acceptance of the final payment or until all audit findings have been resolved. If any litigation, claim, negotiation, audit or other action involving the records has been started before the expiration of the retention period, the records shall be retained until completion of the action and resolution of all issues which arise from it, or until the end of the seven (7) years, whichever is later, and until any outstanding litigation, audit, or claim has been fully resolved.

ARTICLE 14: CHANGES AND AMENDMENTS

A. Any alterations, additions, or deletions to the terms of this Agreement, which are required by changes in federal or state law or by regulations, are automatically incorporated without written amendment hereto, and shall become effective on the date designated by such law or by regulation.
B. To ensure the legal and effective performance of this Agreement, both parties agree that any amendment that affects the performance under this Agreement must be mutually agreed upon and that all such amendments must be in writing. After a period of no less than 30 days subsequent to written notice, unless sooner implementation is required by law, such amendments shall have the effect of qualifying the terms of this Agreement and shall be binding upon the parties as if written herein.

ARTICLE 15: TERMINATION PROCEDURES

The Contractor acknowledges that this Agreement may be terminated for Convenience or Default.

A. *Convenience*

   H-GAC may terminate this Agreement at any time, in whole or in part, with or without cause, whenever H-GAC determines that for any reason such termination is in the best interest of H-GAC, by providing written notice by certified mail to the Contractor. Upon receipt of notice of termination, all services hereunder of the Contractor and its employees and subcontractors shall cease to the extent specified in the notice of termination.

   The Contractor may cancel or terminate this Agreement upon submission of thirty (30) days written notice, presented to H-GAC via certified mail. The Contractor may not give notice of cancellation after it has received notice of default from H-GAC.
B. *Default*

H-GAC may, by written notice of default to the Contractor, terminate the whole or any part of the Agreement, in any one of the following circumstances:

(1) lf the Contractor fails to perform the services herein specified within the time specified herein or any extension thereof; or
(2) If the Contractor fails to perform any of the other provisions of this Agreement for any reason whatsoever, or so fails to make progress or otherwise violates the Agreements that completion of services herein specified within the Agreement term is significantly endangered, and in either of these two instances does not cure such failure within a period often (10) days (or such longer period of time as may be authorized by H-GAC in writing) after receiving written notice by certified mail of default from H-GAC.

ARTICLE 16: SEVERABILITY

H-GAC and Contractor agree that should any provision of this Agreement be determined to be invalid or unenforceable, such determination shall not affect any other term of this Agreement, which shall continue in full force and effect.

ARTICLE 17: FORCE MAJEURE

To the extent that either party to this Agreement shall be wholly or partially prevented from the performance of any obligation or duty placed on such party by reason of or through strikes, stoppage of labor, riot, fire, flood, acts of war, insurrection, accident, order of any court, act of God, or specific cause reasonably beyond the party's control and not attributable to its neglect or nonfeasance, in such event, the time for the performance of such obligation or duty shall be suspended until such disability to perform is removed. Determination of force majeure shall rest solely with H-GAC.

ARTICLE 18: CONFLICT OF INTEREST

No officer, member or employee of the Contractor or subcontractor, no member of the governing body of the Contractor, and no other public officials of the Contractor who exercise any functions or responsibilities in the review or Contractor approval of this Agreement, shall participate in any decision relating to this Agreement which affects his or her personal interest, or shall have any personal or pecuniary interest, direct or indirect, in this Agreement.

ARTICLE 19: FEDERAL COMPLIANCE

Contractor agrees to comply with all federal statutes relating to nondiscrimination, labor standards, and environmental compliance. Additionally, for work to be performed under the Agreement or subcontract thereof, including procurement of materials or leases of equipment, Contractor shall notify each potential subcontractor or supplier of the Contractor's federal compliance obligations. These may include, but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§ 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) the Fair Labor Standards Act of 1938 (29 USC 676 et. seq.), (d) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. § 794), which prohibits discrimination on the basis of handicaps and the Americans with Disabilities Act of 1990; (e) the Age Discrimination in Employment Act of 1967 (29 USC 621 et. seq.) and the Age Discrimination Act of 1974, as amended (42 U.S.C. §§ 6101-6107), which prohibits discrimination on the basis of age; (f) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (g) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to the nondiscrimination on the basis of alcohol abuse or alcoholism; (h) §§ 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (i) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. § 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (j) any other nondiscrimination provisions in any specific statute(s)

applicable to any Federal funding for this Agreement; (k) the requirements of any other nondiscrimination statute(s) which may apply to this Agreement; (l) applicable provisions of the Clean Air Act (42 U.S.C. §7401 et seq.), the Federal Water Pollution Control Act, as amended (33 U.S.C. §1251 et seq.), Section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and the Environmental Protection Agency regulations at 40 CPR Part 15; (m) applicable provisions of the Davis- Bacon Act (40 U.S.C. 276a - 276a-7), the Copeland Act (40 U.S.C. 276c), and the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-332), as set forth in Department of Labor Regulations at 20 CPR 5.5a; (n) the mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (P.L. 94-163).

ARTICLE 20: CRIMINAL PROVISIONS AND SANCTIONS

The Contractor agrees to perform the Agreement in conformance with safeguards against fraud and abuse as set forth by the H-GAC, the State of Texas, and the acts and regulations of any related state or federal agency. The Contractor agrees to promptly notify H-GAC of any actual or suspected fraud, abuse, or other criminal activity through the filing of a written report within twenty-four (24) hours of knowledge thereof. Contractor shall notify H-GAC of any accident or incident requiring medical attention arising from its activities under this Agreement within twenty-four (24) hours of such occurrence. Theft or willful damage to property on loan to the Contractor from H-GAC, if any, shall be reported to local law enforcement agencies and H-GAC within two (2) hours of discovery of any such act.

The Contractor further agrees to cooperate fully with H-GAC, local law enforcement agencies, the State of Texas, the Federal Bureau of Investigation and any other duly authorized investigative unit, in carrying out a full investigation of all such incidents.

The Contractor shall notify H-GAC of the threat of lawsuit or of any actual suit filed against the Contractor pertaining to this Agreement or which would adversely affect the Contractor's ability to perform services under this Agreement.

ARTICLE 21: INDEMNIFICATION AND RECOVERY

H-GAC's liability under this Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, is limited to its order processing charge. In no event will H-GAC be liable for any loss of use, loss of time, inconvenience, commercial loss, lost profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. Contractor agrees, to the extent permitted by law, to defend and hold harmless H-GAC, its board members, officers, agents, officials, employees and indemnities from any and all claims, costs, expenses (including reasonable attorney fees), actions, causes of action, judgements, and liens arising as a result of Contractor's negligent act or omission under this Agreement. Contractor shall notifiy H-GAC of the threat of lawsuit or of any actual suit filed against Contractor relating to this Agreement.

ARTICLE 22: LIMITATION OF CONTRACTOR'S LIABILITY

Except as specified in any separate writing between the Contractor and an END USER, Contractor's total liability under this Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, but excluding its obligation to indemnify H-GAC, is limited to the price of the particular products/services sold hereunder, and Contractor agrees either to refund the purchase price or to repair or replace product(s) that are not as warranted. In no event will Contractor be liable for any loss of use, loss of time, inconvenience, commercial loss, loss of profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. Contractor understands and agrees that it shall be liable to repay and shall repay upon demand to

END USER any amounts determined by H-GAC, its independent auditors, or any agency of State or Federal government to have been paid in violation of the terms of this Agreement.

ARTICLE 23: TITLES NOT RESTRICTIVE

The titles assigned to the various Articles of this Agreement are for convenience only. Titles shall not be considered restrictive of the subject matter of any Article, or part of this Agreement.

ARTICLE 24: JOINT WORK PRODUCT

This Agreement is the joint work product of H-GAC and the Contractor. This Agreement has been negotiated by H-GAC and the Contractor and their respective counsel and shall be fairly interpreted in accordance with its terms and, in the event of any ambiguities, no inferences shall be drawn against any party.

ARTICLE 25: DISPUTES

All disputes concerning questions of fact or of law arising under this Agreement, which are not addressed within the Whole Agreement as defined pursuant to Article 4 hereof, shall be decided by the Executive Director of H-GAC or his designee, who shall reduce his decision to writing and provide notice thereof to the Contractor. The decision of the Executive Director or his designee shall be final and conclusive unless, within thirty (30) days from the date of receipt of such notice, the Contractor requests a rehearing from the Executive Director of H-GAC. In connection with any rehearing under this Article, the Contractor shall be afforded an opportunity to be heard and offer evidence in support of its position. The decision of the Executive Director after any such rehearing shall be final and conclusive. The Contractor may, if it elects to do so, appeal the final and conclusive decision of the Executive Director to a court of competent jurisdiction. Pending final decision of a dispute hereunder, the Contractor shall proceed diligently with the performance of the Agreement and in accordance with H- GAC's final decision.

ARTICLE 26: CHOICE OF LAW: VENUE

This Agreement shall be governed by the laws of the State of Texas. Venue and jurisdiction of any suit or cause of action arising under or in connection with the Agreement shall lie exclusively in Harris County, Texas. Disputes between END USER and Contractor are to be resolved in accordance with the law and venue rules of the state of purchase. Contractor shall immediately notify H-GAC of such disputes.

ARTICLE 27: ORDER OF PRIORITY

In the case of any conflict between or within this Agreement, the following order of priority shall be utilized: 1) General Provisions, 2) Special Provisions, 3) Scope of Work, and, 4) Other Attachments.

SIGNATURES:
H-GAC and the Contractor have read, agreed, and executed the whole Agreement as of the date first written above, as accepted by:

_____

Signature

Name

Title

Date

H-GAC

Signature

Name Chuck Wemple

Title Executive Director

Date

SPECIAL PROVISIONS

Incorporated by attachment, as part of the whole agreement, H-GAC and the Contractor do, hereby agree to the Special Provisions as follows:

ARTICLE 1: BIDS/PROPOSALS INCORPORATED

In addition to the whole Agreement, the following documents listed in order of priority are incorporated into the Agreement by reference: Bid/Proposal Specifications and Contractor's Response to the Bid/Proposal.

ARTICLE 2: END USER AGREEMENTS ("EUA")

H-GAC acknowledges that the **END USER** may choose to enter into an End User Agreement ("EUA) with the **Contractor** through this Agreement**,** and that the term of the EUA may exceed the term of the current **H-GAC** Agreement. **H-GAC's** acknowledgement is not an endorsement or approval of the End User Agreement's terms and conditions. **Contractor** agrees not to offer, agree to or accept from the **END USER**, any terms or conditions that conflict with those in **Contractor's** Agreement with **H-GAC.** Contractor affirms that termination of its Agreement with H-GAC for any reason shall not result in the termination of any underlying EUA, which shall in each instance, continue pursuant to the EUA's stated terms and duration. Pursuant to the terms of this Agreement, termination of this Agreement will disallow the **Contractor** from entering into any new EUA with **END USERS.** Applicable **H-GAC** order processing charges will be due and payable to **H-GAC** on any EUAs, surviving termination of this Agreement between **H-GAC** and **Contractor.**

ARTICLE 3: MOST FAVORED CUSTOMER CLAUSE

Contractor shall provide its most favorable pricing and terms to H-GAC. If at any time during this Agreement, Contractor develops a regularly followed standard procedure of entering into agreements with other governmental customers within the State of Texas, and offers the same or substantially the same products/services offered to **H-GAC** on a basis that provides prices, warranties, benefits, and or terms more favorable than those provided to **H-GAC**, **Contractor** shall notify **H-GAC** within ten (10) business days thereafter, and this Agreement shall be deemed to be automatically retroactively amended, to the effective date of Contractor's most favorable past agreement with another entity. **Contractor** shall provide the same prices, warranties, benefits, or terms to **H-GAC** and its END USER as provided in its most favorable past agreement. H-GAC shall have the right and option at any time to decline to accept any such change, in which case the amendment shall be deemed null and void. If **Contractor** claims that a more favorable price, warranty, benefit, or term that was charged or offered to another entity during the term of this Agreement, does not constitute more favorable treatment, than **Contractor** shall, within ten (10) business days, notify **H-GAC** in writing, setting forth the detailed reasons **Contractor** believes the aforesaid offer is not in fact most favored treatment. **H-GAC**, after due consideration of Contractor's written explanation, may decline to accept such explanation and thereupon this Agreement between **H-GAC** and **Contractor** shall be automatically amended, effective retroactively, to the effective date of the most favored agreement, to provide the same prices, warranties,

benefits, or terms to H-GAC and the END USER.
EXCEPTION: *This clause shall not be applicable to prices and price adjustments offered by a bidder, Proposer or contractor, which are not within bidder's/proposer's control [example; a manufacturer's bid concession], or to any prices offered to the Federal Government and its agencies.*

ARTICLE 4: PARTY LIABILITY

Contractor's total liability under this Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, is limited to the price of the particular products/services sold hereunder. Contractor agrees either to refund the purchase price or to repair or replace product(s) that are not as warranted. Contractor accepts liability to repay, and shall repay upon demand to END USER, any amounts determined by H-GAC, its independent auditors, or any state or federal agency, to have been paid in violation of the terms of this Agreement.

ARTICLE 5: GOVERNING LAW & VENUE

Contractor and H-GAC agree that Contractor will make every reasonable effort to resolve disputes the **END USER** in accord with the law and venue rules of the state of purchase. **Contractor** shall immediately notify **H-GAC** of such disputes.

ARTICLE 6: SALES AND ORDER PROCESSING CHARGE

Contractor shall sell its products to **END USERS** based on the pricing and terms of this Agreement. **H-GAC** will invoice **Contractor** for the applicable order processing charge when H-GAC receives notification of an END USER order. **Contractor shall remit to H-GAC** the full amount of the applicable order processing charge, after delivery of any product or service and subsequent END USER acceptance**.** Payment of the Order Processing Charge shall be remitted from Contractor to H-GAC, within thirty (30) calendar days or ten (10) business days after receipt of an END USER's payment, whichever comes first, notwithstanding Contractor's receipt of invoice. For sales made by **Contractor** based on this Agreement**,** including sales to entities without Interlocal Agreements, **Contractor** shall pay the applicable order processing charges to **H-GAC.** Further, **Contractor** agrees to encourage entities who are not members of H-GAC**'s** Cooperative Purchasing Program to execute an **H-GAC** Interlocal Agreement. **H-GAC** reserves the right to take appropriate actions including, but not limited to, Agreement termination if **Contractor** fails to promptly remit the appropriate order processing charge to H-GAC. In no event shall **H-GAC** have any liability to **Contractor** for any goods or services an **END USER** procures from **Contractor.** At all times, **Contractor** shall remain liable to pay to **H-GAC** any order processing charges on any portion of the Agreement actually performed**,** and for which compensation was received by **Contractor.**

ARTICLE 7: LIQUIDATED DAMAGES

Contractor and H-GAC agree that Contractor shall cooperate with the END USER at the time an END USER purchase order is placed, to determine terms for any liquidated damages.

ARTICLE 8: INSURANCE

Unless otherwise stipulated in Section B of the Bid/Proposal Specifications, **Contractor** must have the following insurance and coverage minimums:

a. **General liability** insurance with a Single Occurrence limit of at least $1,000,000.00, and a General

Aggregate limit of at least two times the Single Occurrence limit.

Product liability insurance with a Single Occurrence limit of at least $1,000,000.00, and a General Aggregate limit of at least two times the Single Occurrence limit for all Products except Automotive Fire Apparatus. For Automotive Fire Apparatus, see Section B of the Bid/Proposal Specifications.

Property Damage or Destruction insurance is required for coverage of **End User** owned equipment while in **Contractor's** possession, custody or control. The minimum Single Occurrence limit is $500,000.00 and the General Aggregate limit must be at least two times the Single Occurrence limit. This insurance may be carried in several ways, e.g. under an Inland Marine policy, as art of Automobile coverage, or under a Garage Keepers policy. In any event, this coverage must be specifically and clearly listed on insurance certificate(s) submitted to **H-GAC**.

b. Insurance coverage shall be in effect for the length of any contract made pursuant to the Bid/Proposal, and for any extensions thereof, plus the number of days/months required to *deliver* any outstanding order after the close of the contract period.

c. Original Insurance Certificates must be furnished to **H-GAC** on request, showing **Contractor** as the insured and showing coverage and limits for the insurances listed above.

d. If any Product(s) or Service(s) will be provided by parties other than **Contractor**, all such parties are required to carry the minimum insurance coverages specified herein, and if requested by **H-GAC**, a separate insurance certificate must be submitted for each such party.

e. **H-GAC** reserves the right to contact insurance underwriters to confirm policy and certificate issuance and document accuracy.

ARTICLE 9: PERFORMANCE AND PAYMENT BONDS FOR INDIVIDUAL ORDERS

H-GAC's contractual requirements DO NOT include a Performance & Payment Bond (PPB); therefore, Contractor shall offer pricing that reflects this cost savings. **Contractor** shall remain prepared to offer a PPB to cover any order if so requested by the **END USER**. **Contractor** shall quote a price to **END USER** for provision of any requested PPB, and agrees to furnish the PPB within ten business (10) days of receipt of **END USER's** purchase order.

ARTICLE 10: CHANGE OF STATUS

Contractor shall immediately notify **H-GAC,** in writing, of **ANY** change in ownership, control, dealership/franchisee status, Motor Vehicle license status, or name. Contractor shall offer written guidance to advise H-GAC if this Agreement shall be affected in any way by such change. **H-GAC** shall have the right to determine whether or not such change is acceptable, and to determine what action shall be warranted, up to and including cancellation of Agreement.

ARTICLE 11: TEXAS MOTOR VEHICLE BOARD LICENSING

All that deal in motor vehicles shall maintain current licenses that are required by the Texas Motor Vehicle Commission Code. If at any time during this Agreement term, any required **Contractor** license is denied, revoked, or not renewed, **Contractor** shall be in default of this Agreement, unless the Texas Motor Vehicle

Board issues a stay or waiver. Contractor shall promptly provide copies of all current applicable Texas Motor Vehicle Board documentation to **H-GAC** upon request.

Form **W-9**
(Rev. December 2014)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Give Form to the requester. Do not send to the IRS.

Print or type
See Specific Instructions on page 2.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification; check only **one** of the following seven boxes:
☐ Individual/sole proprietor or single-member LLC ☐ C Corporation ☐ S Corporation ☐ Partnership ☐ Trust/estate
☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶
Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner.
☐ Other (see instructions) ▶

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):
Exempt payee code (if any)
Exemption from FATCA reporting code (if any)
(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.)

Requester's name and address (optional)

6 City, state, and ZIP code

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Social security number
☐☐☐ – ☐☐ – ☐☐☐☐

or

Employer identification number
☐☐ – ☐☐☐☐☐☐☐

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here **Signature of U.S. person ▶** **Date ▶**

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at *www.irs.gov/fw9*.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding?* on page 2.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.

CERTIFICATE OF INTERESTED PARTIES – FORM 1295

Certificate of Interested Parties (Form 1295 – must be filled out electronically with the Texas Ethics Commission's online filing application, printed out, signed, notarized, and attached to proposal in the response - Section TAB A)

H-GAC is required to comply with House Bill 1295, which amended the Texas Government Code by adding Section 2252.908, Disclosure of Interested Parties. Section 2252.908 prohibits H-GAC from entering into a contract resulting from this RFP with a business entity unless the business entity submits a Disclosure of Interested Parties (Form 1295) to H-GAC at the time business entity submits the signed contract. The Texas Ethics Commission has adopted rules requiring the business entity to file Form 1295 electronically with the Texas Ethics Commission. The following **definitions** apply:

(1) ***"Business Entity"*** means an entity recognized by law through which business is conducted, including a sole proprietorship, partnership, or corporation. TEX. GOV'T CODE § 2252.908(1).

(2) ***"Interested Party"*** means a person:
   a) who has a controlling interest in a business entity with whom H-GAC contracts; or
   b) who actively participates in facilitating the contract or negotiating the terms of the contract, including a broker, intermediary, adviser, or attorney for the business entity. TEX. GOV'T CODE § 2252.908(3).

(3) ***"Controlling interest"*** means:
   a) an ownership interest or participating interest in a business entity by virtue of units, percentage, shares, stock, or otherwise that exceeds 10 percent;
   b) membership on the board of directors or other governing body of a business entity of which the board or other governing body is composed of not more than 10 members; or
   c) service as an officer of a business entity that has four or fewer officers, or service as one of the four officers most highly compensated by a business entity that has more than four officers. *Subsection (c) does not apply to an officer of a publicly held business entity or its wholly owned subsidiaries.* TEX. ETHICS COMM. RULE 46.3(c).

(4) ***"Intermediary"*** means a person who actively participates in the facilitation of the contract or negotiating the contract, including a broker, adviser, attorney, or representative of or agent for the business entity who:
   a) receives compensation from the business entity for the person's participation;
   b) communicates directly with the governmental entity or state agency on behalf of the business entity regarding the contract; and
   c) is not an employee of the business entity. TEX. ETHICS COMM. RULE 46.3(e).

As a "business entity," all vendors must:

(1) **complete Form 1295 electronically** with the Texas Ethics Commission using the online filing application, which can be found at https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm
   - **All vendors must complete Form 1295, even if no interested parties exist**
   - In Section 2, insert "Houston-Galveston Area Council"
   - In Section 3, insert the H-GAC RFP # for this proposal

(2) **print a copy of the completed form** (make sure that it has a computer-generated certification number in the "Office Use Only" box)

(3) have an authorized agent of the business entity **sign the form**

(4) **notarize the form**

(5) **submit** the completed, signed, notarized Form 1295, with the certification of filing, by **attaching the form to your proposal in Section TAB A**

H-GAC must acknowledge the receipt of the filed Form 1295 by notifying the Texas Ethics Commission of the receipt of the filed Form 1295 no later than the 30th day after receipt by H-GAC. After H-GAC acknowledges the Form 1295, the Texas Ethics Commission will post the completed Form 1295 to its website with seven business days after receiving notice from H-GAC.

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

OFFICE USE ONLY

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.

4 Name of Interested Party	City, State, Country (place of business)	Nature of Interest (check applicable)	
		Controlling	Intermediary

Must file online at www.ethics.state.tx.us/File

5 Check only if there is NO Interested Party. ☐

6 AFFIDAVIT

I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.

_____
Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said _____, this the _____ day of _____, 20 _____, to certify which, witness my hand and seal of office.

_____
Signature of officer administering oath | Printed name of officer administering oath | Title of officer administering oath

ADD ADDITIONAL PAGES AS NECESSARY

CONFLICT OF INTEREST QUESTIONNAIRE

FORM CIQ

For vendor doing business with local governmental entity

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. *See* Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

OFFICE USE ONLY

Date Received

1 **Name of vendor who has a business relationship with local governmental entity.**

2 ☐ **Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 **Name of local government officer about whom the information is being disclosed.**

Name of Officer

4 **Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.**

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

☐ Yes ☐ No

B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

☐ Yes ☐ No

5 **Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.**

6 ☐ Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7

Signature of vendor doing business with the governmental entity

Date

CONFLICT OF INTEREST QUESTIONNAIRE
For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

(A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;

(B) a transaction conducted at a price and subject to terms available to the public; or

(C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

***

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds $2,500 during the 12-month period preceding the date that the officer becomes aware that

(i) a contract between the local governmental entity and vendor has been executed; or

(ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than $100 in the 12-month period preceding the date the officer becomes aware that:

(i) a contract between the local governmental entity and vendor has been executed; or

(ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

(1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);

(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or

(3) has a family relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(1) the date that the vendor:

(A) begins discussions or negotiations to enter into a contract with the local governmental entity; or

(B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(2) the date the vendor becomes aware:

(A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);

(B) that the vendor has given one or more gifts described by Subsection (a); or

(C) of a family relationship with a local government officer.

House Bill 89 Verification Form

Prohibition on Contracts with Companies Boycotting Israel

The 85th Texas Legislature approved new legislation, effective Sept. 1, 2017, which amends Texas Local Government Code Section 1. Subtitle F, Title 10, Government Code by adding Chapter 2270 which states that a governmental entity may not enter into a contract with a company for goods or services unless the contract contains a written verification from the company that it:

1) does not boycott Israel; and
2) will not boycott Israel during the term of the contract

Pursuant to Section 2270.001, Texas Government Code:

1. "Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes; and

2. "Company" means a for-profit sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, or any limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of those entities or business associations that exist to make a profit.

I, (authorized official) _____, do hereby depose and verify the truthfulness and accuracy of the contents of the statements submitted on this certification under the provisions of Subtitle F, Title 10, Government Code Chapter 2270 and that the company named below:

1) does not boycott Israel currently; and
2) will not boycott Israel during the term of the contract; and
3) is not currently listed on the State of Texas Comptroller's Companies that Boycott Israel List located at https://comptroller.texas.gov/purchasing/publications/divestment.php

_____

Company Name

_____

Signature of Authorized Official

_____

Title of Authorized Official Date

CONTRACTOR CONTACT INFORMATION

ATTENTION Houston-Galveston Area Council (H-GAC) Contractor:The following information is needed to communicate with your company concerning contract matters which may arise.To expedite the process, we ask that you provide the information requested below. During the term of this contract, notify H-GAC in writing of any changes to this information by emailing updates to: cpcontractfax@h-gac.com

Section I

CONTRACTOR:	**CONTRACT #:**
Purchase Order Address:	Invoice Address:
Contact Name:	Contact Name:
Address:	Address:
City *State* *Zip Code*	*City* *State* *Zip Code*
Telephone No.:	Telephone No.#
Fax No.#	Fax No.#
Email Address:	Email Address:

Section II

CONTRACT INFORMATION:

Indicate the person (s) authorized to sign contracts, requests for contract price increases, or other contract-related documents. A copy of your corporate resolution may be acceptable for Section II.

Printed Name of Signatory:	Printed Name of Signatory:
Corporate Title:	Corporate Title:
Tel. No.:	Tel. No.:
Fax No.:	Fax No.:
Email Address:	Email Address:

Section III

SALES CONTACT INFORMATION

Person who End Users will contact for product information and pricing quotes

Contact Name: _____ Title: _____

Address: _____

Street City State Zip

Telephone No.: _____ Fax No.: _____

Mobile No.: (optional) _____

Email Address: _____

AGENDA MEMO

Business of the City Council
City of West University Place, Texas

Meeting Date	01.27.20	**Agenda Item**	13C
Approved by City Manager	Yes	**Presenter(s)**	G. Barrera, Public Works Director
Reviewed by City Attorney	Yes	**Department**	Public Works
Subject	Purchase of Vehicles		
Attachments	Vehicle Quotes		
Financial Information	Expenditure Required:		$147,382.00
	Amount Budgeted:		$175,000.00
	Account Number:		501-7000-84060 501-7000-84061 501-7000-84065
	Additional Appropriation Required:		N/A
	Additional Account Number:		N/A

Executive Summary

The approved 2020 Budget allocated funds to purchase one small SUV, two utility vans, and three ½-ton pickup trucks.

In an effort to attain best value, expedite the purchases, and meet local and State purchasing requirements, staff compared pricing of the vehicles against several cooperative purchasing programs as noted below: (the highlighted dealers are staff's recommendation)

Small SUV (Qty-1)			Utility Vans (Qty-2)			1/2 Ton pickups (Qty-3)		
DEALER	CO-OP	TOTAL PRICE	DEALER	CO-OP	TOTAL PRICE	DEALER	CO-OP	TOTAL PRICE
Chastang	Y	$ 22,576.00	Chastang	Y	$ 55,981.00	Helfman	Y	$ 68,825.00
Silsbee	Y	$ 23,158.00	Silsbee	Y	$ 57,630.00	Chastang	Y	$ 72,728.00
Sourcwell	Y	$ 24,534.00	Sourcwell	Y	$ 59,770.00	Sourcewell	Y	$ 83,104.00
						Silsbee	Y	$ 85,352.50

The following is a summary of the vehicles being purchased:

- The small SUV replaces a 2007 sedan in Public Works that is a pool vehicle available to all City staff or business use. The new SUV will be put into service with the Public Works Community Development Division. The existing small SUV in Community Development will be transferred and become a pool vehicle to replace the sedan.
- One of the utility vans replaces the 2008 Animal Control / Code Enforcement van.
- The second utility van is a new acquisition for the new Facility Technician position.

- Two of the ½ ton pickups will replace two 2003 ½ pickups in the Public Works. (General Services and Water & Sewer divisions).
- The third ½ ton pickup will replace the 2005 SUV used by the Fire Marshal in the Fire Department. This vehicle also serves as a backup command vehicle.

The remainder of the approved funding will cover the cost to outfit the vehicles (city markings, safety lights, fueling sensor, GPS, radios, etc.), which are not included in the pricing shown above.

The budgeted funds are in the Vehicle Replacement Fund (VRF) and, per the City Attorney, the City issued purchase orders will serve as the official contracts between the City and the selected dealerships.

Recommended Action

Staff recommends that City Council:

1. Award the bid to Chastang Ford for the purchase of one (1) small SUV for $22,576.00, and two (2) utility vans for $55,981.00;
2. Award the bid to Helfman Ford for the purchase of three (3) ½-ton pickup trucks for $68,825.00; and
3. Authorize the City Manager to purchase all vehicles.

VEHICLE QUOTES

HELFMAN

HELFMAN FORD
12220 SOUTHWEST FRWY.
STAFFORD, TEXAS 77477
(281) 240-3673

QUOTATION

Bill Chrisman
Fleet/Commercial Sales Director
Direct 281.274.7204
bchrisman@helfmanford.com
12220 Southwest Freewa
Stafford, TX 7747
Phone 281.240.367
Fax 281.240.414

City of West University

Date 12-26-19

Gentlemen:

We are pleased to submit a price on the following

Body Style F150 SuperCab XL Ford Year 2020 Model X1C

Factory List 4X2

Freight 6½' box $

Dealer Handling $

Federal Tax $

Accessories $

3.3L V-6 $

PKG 100A

Bedliner

Running boards.

Rear camera

Reverse sensing

Tow PKG 53A

Power windows, locks, mirrors

List Price

Fleet Discount $

Net Selling Price F.T. Bend County contract $

Less Trade In $ 22,357

State Tax $ —

State inspection $ Exempt

License $ Included

Total Delivered Price $ MSO

$ 22,357

This quotation good for Factory order days from date. ± 90 days ARO

Thank you for the opportunity to serve you and we hope that we may be favored with your order

BILL CHRISMAN
FLEET MANAGER

DIRECT #(281) 274-7204
FAX (281) 240-4147

$22,357 x 2 = $44,714

Signature

This quotation is subject to any increase in freight or manufacturers cost to dealer.

CITY OF WEST UNIVERSITY PLACE
2020 F-150 WORK TRUCK
26-Dec

MAKE:		FORD
MODEL:		F-150
STYLE:		XL
COLOR:		OXFORD WHITE
BODY:	X1C	SUPERCAB 4X2
POWERTRAIN:	99B	3.3L V6 PFDI
BED:		6.5 BOX
FLOORING:		VINYL (no carpet)
SEATS		VINYL 40/20/40
FEATURES:		XL STANDARD w/optional equip
EQUIP. GROUP		100A
WHEELS:		17" SILVER STEEL STANDARD
EXTERIOR	96W	TOUGHBED BEDLINER
	18B	BLACK PLATFORM RUNNING BOARDS
	76C	REARVIEW CAMERA
	76R	REVERSE SENSING SYSTEM
	53A	TOW PACKAGE
	85A	POWER EQUIP PACKAGE

HELFMAN FORD
12220 SOUTHWEST FRWY.
STAFFORD, TEXAS 77477
(281) 240-3673

QUOTATION

Bill Chrisman
Fleet/Commercial Sales Director
Direct 281.274.7204
bchrisman@helfmanford.com
12220 Southwest Freewa
Stafford, TX 7747
Phone 281.240.367
Fax 281.240.414

CITY OF WEST UNIVERSITY

Date 12-26-19

Gentlemen:

We are pleased to submit a price on the following

Body Style F150 SUPERCAB XL Ford Year 2020 Model X1C

Factory List 4X2

Freight 6½' box $

Dealer Handling $

Federal Tax $

Accessories $

3.3L V-6
PKG 100A
Bedliner
Running boards.
Rear camera
Reverse sensing
Tow pkg 53A
Power windows, locks, mirrors
XL chrome appearance
Class IV Hitch
Brake controller
Tonneau Box cover

List Price

Fleet Discount $

Net Selling Price F.T. Bend County contract $

Less Trade In $ 24,111

State Tax $ —

STATE INSPECTION $ Exempt

License $ Included

Total Delivered Price $ MSO

$ 24,111

This quotation good for Factory order days from date. ± 90 days ARO

Thank you for the opportunity to serve you and we hope that we may be favored with your order

BILL CHRISMAN DIRECT #(281) 274-7204
FLEET MANAGER FAX (281) 240-4147

Signature

This quotation is subject to any increase in freight or manufacturers cost to dealer.

CITY OF WEST UNIVERSITY PLACE
2020 F-150 - FIRE
26-Dec

MAKE:		FORD
MODEL:		F-150
STYLE:		XL
COLOR:		OXFORD WHITE
BODY:	X1C	SUPERCAB 4X2
POWERTRAIN:	99B	3.3L V6 PFDI
BED:		6.5 BOX
FLOORING:		VINYL (no carpet)
SEATS		VINYL 40/20/40
FEATURES:		XL STANDARD w/optional equip
	86A	XL Chrome Appearance Package
EQUIP. GROUP		100A
WHEELS:		17" SILVER STEEL STANDARD
EXTERIOR	96W	TOUGHBED BEDLINER
	18B	BLACK PLATFORM RUNNING BOARDS
	76C	REARVIEW CAMERA
	76R	REVERSE SENSING SYSTEM
	53A	TOW PACKAGE
	85A	POWER EQUIP PACKAGE
	53B	CLASS IV TRAILER HITCH
	67T	INTEGRATED BRAKE CONTROLLER
	96X	TONNEAU BOX COVER-HARD FOLD

CHASTANG

2020 Escape 4dr FWD S (U0F)

Price Level: 30

Client Proposal

Prepared by:
Ed Miller
Office: 713-678-5007
Email: EMILLER@CHASTANGFORD.COM

Quote ID: WESTU20U0F

Date: 01/02/2020

Prepared by: Ed Miller
01/02/2020

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2020 Escape 4dr FWD S (U0F)

Price Level: 30 | Quote ID: WESTU20U0F

As Configured Vehicle

Code	Description	MSRP
Base Vehicle		
U0F	Base Vehicle Price (U0F)	$24,885.00
Packages		
100A	Equipment Group 100A *Includes:* *- Engine: 1.5L EcoBoost* *Includes auto start-stop technology.* *- Transmission: 8-Speed Automatic* *- 3.52 Axle Ratio* *- GVWR: TBD* *- Tires: 225/65R17 AS BSW* *Includes mini spare.* *- Wheels: 17" Steel w/Sparkle Silver-Painted Covers* *- Cloth Front Bucket Seats* *Includes 6-way manual driver (fore/aft, up/down, recline) and 4-way manual front passenger (fore/aft with manual recline).* *- Radio: AM/FM Stereo* *Includes 6 speakers and speed compensated volume.* *- SYNC Communications & Entertainment System* *Includes enhanced voice recognition communication , 911 Assist, 4.2" LCD screen in center stack, AppLink and 2 smart charging USB ports.* *- FordPass Connect* *Includes 4G LTE Wi-Fi hotspot that connects up to 10 devices (includes a complimentary trial subscription of 3 months or 3 gigabytes - whichever comes first. Wireless service plan required after trial subscription ends. Visit www.att.com/ford to start complimentary trail and sign up for a wireless service plan). Remote start with specific time scheduling, lock and unlock, locate parked vehicle and check vehicle status (Includes service for 1 year from the vehicle sale date as recorded by the dealer).*	N/C
Powertrain		
996	Engine: 1.5L EcoBoost *Includes auto start-stop technology.*	Included
447	Transmission: 8-Speed Automatic	Included
STDAX	3.52 Axle Ratio	Included
STDGV	GVWR: TBD	Included
Wheels & Tires		
STDTR	Tires: 225/65R17 AS BSW *Includes mini spare.*	Included
STDWL	Wheels: 17" Steel w/Sparkle Silver-Painted Covers	Included

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.
Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2020 Escape 4dr FWD S (U0F)

Price Level: 30 | Quote ID: WESTU20U0F

As Configured Vehicle (cont'd)

Code	Description	MSRP
Seats & Seat Trim		
V	Cloth Front Bucket Seats *Includes 6-way manual driver (fore/aft, up/down, recline) and 4-way manual front passenger (fore/aft with manual recline).*	Included
Other Options		
PAINT	Monotone Paint Application	STD
106WB	106" Wheelbase	STD
STDRD	Radio: AM/FM Stereo *Includes 6 speakers and speed compensated volume.* *Includes:* *- SYNC Communications & Entertainment System* *Includes enhanced voice recognition communication , 911 Assist, 4.2" LCD screen in center stack, AppLink and 2 smart charging USB ports.* *- FordPass Connect* *Includes 4G LTE Wi-Fi hotspot that connects up to 10 devices (includes a complimentary trial subscription of 3 months or 3 gigabytes - whichever comes first. Wireless service plan required after trial subscription ends. Visit www.att.com/ford to start complimentary trail and sign up for a wireless service plan). Remote start with specific time scheduling, lock and unlock, locate parked vehicle and check vehicle status (Includes service for 1 year from the vehicle sale date as recorded by the dealer).*	Included
Emissions		
425	50-State Emissions System	STD
Interior Colors		
VH_01	Dark Earth Gray	N/C
Primary Colors		
YZ_01	Oxford White	N/C
Upfit Options		
KEYS 2	3 ADDITIONAL KEYS *INCLUDES PROGRAMMING*	$780.00

SUBTOTAL	$25,665.00
Destination Charge	$1,195.00

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.
Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2020 Escape 4dr FWD S (U0F)

Price Level: 30 | Quote ID: WESTU20U0F

As Configured Vehicle (cont'd)

Code	Description	MSRP
TOTAL		$26,860.00

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.
Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Prepared by: Ed Miller
01/02/2020

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2020 Escape 4dr FWD S (U0F)

Price Level: 30 | Quote ID: WESTU20U0F

Pricing Summary - Single Vehicle

	MSRP
Vehicle Pricing	
Base Vehicle Price	$24,885.00
Options & Colors	$0.00
Upfitting	$780.00
Destination Charge	$1,195.00
Subtotal	$26,860.00

Pre-Tax Adjustments

Code	Description	
PriceADJ	Dealer Discount and Concession	-$4,684.00

Total $22,176.00

Buyboard Fee $400
Total $22,576.00

Customer Signature

Acceptance Date

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.

Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2020 Transit-150 Cargo RWD Low Roof Van 130" WB Base (E1Y)

Price Level: 15

Client Proposal

Prepared by:
Ed Miller
Office: 713-678-5007
Email: EMILLER@CHASTANGFORD.COM

Quote ID: westu20e1y

Date: 01/02/2020

Prepared by: Ed Miller
01/02/2020

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2020 Transit-150 Cargo RWD Low Roof Van 130" WB Base (E1Y)

Price Level: 15 | Quote ID: westu20e1y

As Configured Vehicle

Code	Description	MSRP
Base Vehicle		
E1Y	Base Vehicle Price (E1Y)	$34,510.00
Packages		
101A	Order Code 101A *Includes:* *- Engine: 3.5L PFDi V6 Flex-Fuel* *Includes port injection.* *- Transmission: 10-Spd Automatic w/OD & SelectShift* *Includes auxiliary transmission oil cooler.* *- 3.73 Axle Ratio* *- GVWR: 8,670 lbs* *- Tires: 235/65R16C 121/119 R AS BSW* *- Wheels: 16" Silver Steel w/Black Hubcap* *- Dark Palazzo Gray Vinyl Bucket Seats* *Includes 2-way manual driver seat, 2-way manual passenger seat and driver armrest.* *- Vinyl Front Bucket Seats* *- Radio: AM/FM Stereo* *Includes Bluetooth, dual USB ports, a 4.0" multi-function display and 4 speakers (front).*	N/C
Powertrain		
998	Engine: 3.5L PFDi V6 Flex-Fuel *Includes port injection.*	Included
44U	Transmission: 10-Spd Automatic w/OD & SelectShift *Includes auxiliary transmission oil cooler.*	Included
X73	3.73 Axle Ratio	Included
STDGV	GVWR: 8,670 lbs	Included
Wheels & Tires		
STDTR	Tires: 235/65R16C 121/119 R AS BSW	Included
STDWL	Wheels: 16" Silver Steel w/Black Hubcap	Included
Seats & Seat Trim		
21G	Dark Palazzo Gray Vinyl Bucket Seats *Includes 2-way manual driver seat, 2-way manual passenger seat and driver armrest.*	Included

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.
Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2020 Transit-150 Cargo RWD Low Roof Van 130" WB Base (E1Y)

Price Level: 15 | Quote ID: westu20e1y

As Configured Vehicle (cont'd)

Code	Description	MSRP
V	Vinyl Front Bucket Seats	Included
Other Options		
PAINT	Monotone Paint Application	STD
130WB	130" Wheelbase	STD
17A	Fixed Rear Cargo Door Glass *Includes:* *- Rearview Mirror*	$75.00
16E	Front & Rear Vinyl Floor Covering *Includes wheel well liners.*	$245.00
58U	Radio: AM/FM Stereo *Includes Bluetooth, dual USB ports, a 4.0" multi-function display and 4 speakers (front).*	Included
Emissions		
425	50-State Emissions System	STD
Interior Colors		
VK_02	Dark Palazzo	N/C
Primary Colors		
YZ_01	Oxford White	N/C
SUBTOTAL		$34,830.00
Destination Charge		$1,495.00
TOTAL		$36,325.00

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.
Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Prepared by: Ed Miller
01/02/2020

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2020 Transit-150 Cargo RWD Low Roof Van 130" WB Base (E1Y)

Price Level: 15 | Quote ID: westu20e1y

Pricing Summary - Single Vehicle

	MSRP
Vehicle Pricing	
Base Vehicle Price	$34,510.00
Options & Colors	$320.00
Upfitting	$0.00
Destination Charge	$1,495.00
Subtotal	$36,325.00

Pre-Tax Adjustments

Code	Description	
PriceADJ	Dealer Discount and Concession	-$10,340.00

Total	$25,985.00

Customer Signature

Acceptance Date

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.

Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2020 Transit-250 Cargo RWD Medium Roof Van 148" WB Base (R1C)

Price Level: 15

Client Proposal

Prepared by:
Ed Miller
Office: 713-678-5007
Email: EMILLER@CHASTANGFORD.COM

Quote ID: westu20r1c

Date: 01/02/2020

Prepared by: Ed Miller
01/02/2020

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2020 Transit-250 Cargo RWD Medium Roof Van 148" WB Base (R1C)

Price Level: 15 | Quote ID: westu20r1c

As Configured Vehicle

Code	Description	MSRP
Base Vehicle		
R1C	Base Vehicle Price (R1C)	$37,885.00
Packages		
101A	Order Code 101A *Includes:* *- Engine: 3.5L PFDi V6 Flex-Fuel* *Includes port injection.* *- Transmission: 10-Spd Automatic w/OD & SelectShift* *Includes auxiliary transmission oil cooler.* *- 3.73 Axle Ratio* *- GVWR: 9,070 lbs* *- Tires: 235/65R16C 121/119 R AS BSW* *- Wheels: 16" Silver Steel w/Black Hubcap* *- Dark Palazzo Gray Vinyl Bucket Seats* *Includes 2-way manual driver seat, 2-way manual passenger seat and driver armrest.* *- Vinyl Front Bucket Seats* *- Radio: AM/FM Stereo* *Includes Bluetooth, dual USB ports, a 4.0" multi-function display and 4 speakers (front).*	N/C
Powertrain		
998	Engine: 3.5L PFDi V6 Flex-Fuel *Includes port injection.*	Included
44U	Transmission: 10-Spd Automatic w/OD & SelectShift *Includes auxiliary transmission oil cooler.*	Included
X73	3.73 Axle Ratio	Included
STDGV	GVWR: 9,070 lbs	Included
Wheels & Tires		
STDTR	Tires: 235/65R16C 121/119 R AS BSW	Included
STDWL	Wheels: 16" Silver Steel w/Black Hubcap	Included
Seats & Seat Trim		
21G	Dark Palazzo Gray Vinyl Bucket Seats *Includes 2-way manual driver seat, 2-way manual passenger seat and driver armrest.*	Included

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.
Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2020 Transit-250 Cargo RWD Medium Roof Van 148" WB Base (R1C)

Price Level: 15 | Quote ID: westu20r1c

As Configured Vehicle (cont'd)

Code	Description	MSRP
V	Vinyl Front Bucket Seats	Included
Other Options		
PAINT	Monotone Paint Application	STD
148WB	148" Wheelbase	STD
16E	Front & Rear Vinyl Floor Covering *Includes wheel well liners.*	$245.00
58U	Radio: AM/FM Stereo *Includes Bluetooth, dual USB ports, a 4.0" multi-function display and 4 speakers (front).*	Included
Emissions		
425	50-State Emissions System	STD
Interior Colors		
VK_02	Dark Palazzo	N/C
Primary Colors		
YZ_01	Oxford White	N/C

SUBTOTAL	$38,130.00
Destination Charge	$1,495.00
TOTAL	$39,625.00

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.
Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Prepared by: Ed Miller
01/02/2020

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2020 Transit-250 Cargo RWD Medium Roof Van 148" WB Base (R1C)

Price Level: 15 | Quote ID: westu20r1c

Pricing Summary - Single Vehicle

	MSRP
Vehicle Pricing	
Base Vehicle Price	$37,885.00
Options & Colors	$245.00
Upfitting	$0.00
Destination Charge	$1,495.00
Subtotal	$39,625.00

Pre-Tax Adjustments

Code	Description	
PriceADJ	Dealer Discount and Concession	-$9,629.00

Total	$29,996.00

Customer Signature

Acceptance Date

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.

Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2020 F-150 4x2 Regular Cab Styleside 6.5' box 122" WB XL (F1C)

Price Level: 20

Client Proposal

Prepared by:
Ed Miller
Office: 713-678-5007
Email: EMILLER@CHASTANGFORD.COM

Quote ID: westu20f1c

Date: 01/02/2020

2020 F-150 4x2 Regular Cab Styleside 6.5' box 122" WB XL (F1C)

Price Level: 20 | Quote ID: westu20f1c

As Configured Vehicle

Code	Description	MSRP
Base Vehicle		
F1C	Base Vehicle Price (F1C)	$28,495.00
Packages		
100A	Equipment Group 100A Base *Includes:* *- Engine: 3.3L V6 PFDI* *Includes auto start-stop technology and flex-fuel capability.* *- Transmission: Electronic 6-Speed Automatic* *Includes selectable drive modes: normal/tow-haul/sport.* *- GVWR: 6,100 lbs Payload Package* *- Tires: P245/70R17 BSW A/S* *- Wheels: 17" Silver Steel* *- Radio: AM/FM Stereo w/4 Speakers* *Includes auxiliary audio input jack (not available with SYNC).*	N/C
Powertrain		
99B	Engine: 3.3L V6 PFDI *Includes auto start-stop technology and flex-fuel capability.*	Included
446	Transmission: Electronic 6-Speed Automatic *Includes selectable drive modes: normal/tow-haul/sport.*	Included
X26	3.73 Axle Ratio	Included
STDGV	GVWR: 6,100 lbs Payload Package	Included
Wheels & Tires		
STDTR	Tires: P245/70R17 BSW A/S	Included
64C	Wheels: 17" Silver Steel	Included
Seats & Seat Trim		
A	Vinyl 40/20/40 Front Seat	N/C
Other Options		
122WB	122" Wheelbase	STD
PAINT	Monotone Paint Application	STD

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.
Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2020 F-150 4x2 Regular Cab Styleside 6.5' box 122" WB XL (F1C)

Price Level: 20 | Quote ID: westu20f1c

As Configured Vehicle (cont'd)

Code	Description	MSRP
STDRD	Radio: AM/FM Stereo w/4 Speakers *Includes auxiliary audio input jack (not available with SYNC).*	Included
53B	Class IV Trailer Hitch Receiver Ordering the Trailer Tow Package does not include Integrated Brake Controller (67T). Integrated Brake Controller (67T) is a standalone option and must be ordered separately. *Includes towing capability up to TBD on 3.3L V6 PFDI engine (99B) and 2.7L EcoBoost engine (99P) or up to TBD on 3.5L EcoBoost engine (994), 3.5L EcoBoost High Output engine (99G) and 5.0L V8 engine (995), smart trailer tow connector and 4-pin/7-pin wiring harness.*	Included
18B	Black Platform Running Boards	$250.00
76R	Reverse Sensing System	$275.00
96W	Tough Bed Spray-In Bedliner Ford accessory.	$595.00

Fleet Options

85A	XL Power Equipment Group - Option Discount Requires valid FIN code. *Includes:* *- Power Glass Sideview Mirrors w/Black Skull Caps* *Includes manual-folding.* *- Illuminated Entry* *- MyKey* *- Perimeter Alarm* *- Power Door Locks* *Includes flip key and integrated key transmitter keyless-entry (includes Autolock).* *- Power Tailgate Lock* *- Power Front Windows*	$970.00 -$500.00
53A__	Trailer Tow Package (Fleet) Ordering the Trailer Tow Package does not include Trailer Tow Mirrors. Trailer Tow Mirrors are a standalone option and must be ordered separately. (Option Code: 54Y/59S). Ordering the Trailer Tow Package does not include Integrated Brake Controller (67T). Integrated Brake Controller (67T) is a standalone option and must be ordered separately. *Towing capability up to TBD. Includes tailgate LED.* *Includes:* *- 3.73 Axle Ratio* *- Class IV Trailer Hitch Receiver* *Includes towing capability up to TBD on 3.3L V6 PFDI engine (99B) and 2.7L EcoBoost engine (99P) or up to TBD on 3.5L EcoBoost engine (994), 3.5L EcoBoost High Output engine (99G) and 5.0L V8 engine (995), smart trailer tow connector and 4-pin/7-pin wiring harness.* *- Upgraded Front Stabilizer Bar*	$595.00

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.
Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2020 F-150 4x2 Regular Cab Styleside 6.5' box 122" WB XL (F1C)

Price Level: 20 | Quote ID: westu20f1c

As Configured Vehicle (cont'd)

Code	Description	MSRP
Interior Colors		
AG_02	Medium Earth Gray	N/C
Primary Colors		
YZ_01	Oxford White	N/C
SUBTOTAL		$30,680.00
Destination Charge		$1,595.00
TOTAL		$32,275.00

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.
Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Prepared by: Ed Miller
01/02/2020

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2020 F-150 4x2 Regular Cab Styleside 6.5' box 122" WB XL (F1C)

Price Level: 20 | Quote ID: westu20f1c

Pricing Summary - Single Vehicle

	MSRP
Vehicle Pricing	
Base Vehicle Price	$28,495.00
Options & Colors	$2,185.00
Upfitting	$0.00
Destination Charge	$1,595.00
Subtotal	$32,275.00

Pre-Tax Adjustments

Code	Description	
PriceADJ	Dealer Discount and Concession	-$9,299.00

Total	$22,976.00

Customer Signature

Acceptance Date

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.

Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2020 F-150 4x2 SuperCab Styleside 6.5' box 145" WB XL (X1C)

Price Level: 20

Client Proposal

Prepared by:
Ed Miller
Office: 713-678-5007
Email: EMILLER@CHASTANGFORD.COM

Quote ID: westu20x1c

Date: 01/02/2020

Prepared by: Ed Miller
01/02/2020

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2020 F-150 4x2 SuperCab Styleside 6.5' box 145" WB XL (X1C)

Price Level: 20 | Quote ID: westu20x1c

As Configured Vehicle

Code	Description	MSRP
Base Vehicle		
X1C	Base Vehicle Price (X1C)	$32,580.00
Packages		
100A	Equipment Group 100A Base *Includes:* *- Engine: 3.3L V6 PFDI* *Includes auto start-stop technology and flex-fuel capability.* *- Transmission: Electronic 6-Speed Automatic* *Includes selectable drive modes: normal/tow-haul/sport.* *- GVWR: 6,300 lbs Payload Package* *- Tires: P245/70R17 BSW A/S* *- Radio: AM/FM Stereo w/6 Speakers* *Includes auxiliary audio input jack (not available with SYNC).*	N/C
Powertrain		
99B	Engine: 3.3L V6 PFDI *Includes auto start-stop technology and flex-fuel capability.*	Included
446	Transmission: Electronic 6-Speed Automatic *Includes selectable drive modes: normal/tow-haul/sport.*	Included
X26	3.73 Axle Ratio	Included
STDGV	GVWR: 6,300 lbs Payload Package	Included
Wheels & Tires		
STDTR	Tires: P245/70R17 BSW A/S	Included
64F	Wheels: 17" Silver Painted Aluminum	Included
Seats & Seat Trim		
A	Vinyl 40/20/40 Front Seat	N/C
Other Options		
145WB	145" Wheelbase	STD
STDRD	Radio: AM/FM Stereo w/6 Speakers *Includes auxiliary audio input jack (not available with SYNC).*	Included

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.
Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2020 F-150 4x2 SuperCab Styleside 6.5' box 145" WB XL (X1C)

Price Level: 20 | Quote ID: westu20x1c

As Configured Vehicle (cont'd)

Code	Description	MSRP
53B	Class IV Trailer Hitch Receiver	Included
	Ordering the Trailer Tow Package does not include Integrated Brake Controller (67T). Integrated Brake Controller (67T) is a standalone option and must be ordered separately.	
	Includes towing capability up to TBD on 3.3L V6 PFDI engine (99B) and 2.7L EcoBoost engine (99P) or up to TBD on 3.5L EcoBoost engine (994), 3.5L EcoBoost High Output engine (99G) and 5.0L V8 engine (995), smart trailer tow connector and 4-pin/7-pin wiring harness.	
18B	Black Platform Running Boards	$250.00
67T	Integrated Trailer Brake Controller	$275.00
PAINT	Monotone Paint Application	STD
76R	Reverse Sensing System	$275.00
96X	Hard Folding Tonneau Box Cover (Dealer Installed)	$995.00
	Factory Invoiced Accessories (FIA). Shipped separately from the vehicle for dealer installation.	
96W	Tough Bed Spray-In Bedliner	$595.00
	Ford accessory.	

Fleet Options

85A	XL Power Equipment Group	$1,170.00
	- Option Discount	-$500.00
	Requires valid FIN code.	
	Includes: - Power Glass Sideview Mirrors w/Black Skull Caps Includes manual-folding. - Illuminated Entry - MyKey - Perimeter Alarm - Power Door Locks Includes flip key and integrated key transmitter keyless-entry (includes Autolock). - Power Tailgate Lock - Power Front & Rear Windows	
17C	Front & Rear Chrome Bumpers	Included
	Requires valid FIN code.	
	Includes body-color front fascia.	
86A	XL Chrome Appearance Package (Fleet)	$775.00

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.
Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2020 F-150 4x2 SuperCab Styleside 6.5' box 145" WB XL (X1C)

Price Level: 20 | Quote ID: westu20x1c

As Configured Vehicle (cont'd)

Code	Description	MSRP
	Includes: *- Wheels: 17" Silver Painted Aluminum* *- Front & Rear Chrome Bumpers* *Includes body-color front fascia.* *- Fog Lamps (Fleet)*	
53A__	Trailer Tow Package (Fleet)	$595.00
	Ordering the Trailer Tow Package does not include Trailer Tow Mirrors. Trailer Tow Mirrors are a standalone option and must be ordered separately. (Option Code: 54Y/59S). Ordering the Trailer Tow Package does not include Integrated Brake Controller (67T). Integrated Brake Controller (67T) is a standalone option and must be ordered separately.	
	Towing capability up to TBD. Includes tailgate LED. *Includes:* *- 3.73 Axle Ratio* *- Class IV Trailer Hitch Receiver* *Includes towing capability up to TBD on 3.3L V6 PFDI engine (99B) and 2.7L EcoBoost engine (99P) or up to TBD on 3.5L EcoBoost engine (994), 3.5L EcoBoost High Output engine (99G) and 5.0L V8 engine (995), smart trailer tow connector and 4-pin/7-pin wiring harness.* *- Upgraded Front Stabilizer Bar*	
595	Fog Lamps (Fleet)	Included
Interior Colors		
AG_02	Medium Earth Gray	N/C
Primary Colors		
YZ_01	Oxford White	N/C
SUBTOTAL		$37,010.00
Destination Charge		$1,595.00
TOTAL		$38,605.00

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.
Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Prepared by: Ed Miller
01/02/2020

Chastang Ford | 6200 N. Loop East Houston Texas | 770261936

2020 F-150 4x2 SuperCab Styleside 6.5' box 145" WB XL (X1C)

Price Level: 20 | Quote ID: westu20x1c

Pricing Summary - Single Vehicle

	MSRP
Vehicle Pricing	
Base Vehicle Price	$32,580.00
Options & Colors	$4,430.00
Upfitting	$0.00
Destination Charge	$1,595.00
Subtotal	$38,605.00

Pre-Tax Adjustments

Code	Description	
PriceADJ	Dealer Discount and Concession	-$11,829.00

Total	$26,776.00

Customer Signature

Acceptance Date

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer’s computer system. See salesperson for the most current information.

Note: Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

SOURCEWELL

National Auto Fleet Group

A Division of Chevrolet of Watsonville

490 Auto Center Drive, Watsonville, CA 95076

(855) 289-6572 • (831) 480-8497 Fax

Fleet@NationalAutoFleetGroup.com

12/31/2019

Quote ID: **12411**

Order Cut Off Date: **TBA**

Mr Gerado Barrera
City of West University Place

3826 Amherst, West University Place

West University Place, Texas, 77005

Dear Gerado Barrera,

National Auto Fleet Group is pleased to quote the following vehicle(s) for your consideration.
One (1) New/Unused (2020 Ford Escape (U0F) S FWD, Factory Order) and delivered to your specified location, each for

	One Unit
Contract Price	$23,934.00
Factory Order	$0.00
3 additional key(s)	$600.00
Tax (0.0000 %)	$0.00
Tire fee	$0.00
Total	$24,534.00

- per the attached specifications.

This vehicle(s) is available under the **Sourcewell (Formerly Known as NJPA) Contract 120716-NAF** . Please reference this Contract number on all purchase orders to National Auto Fleet Group. Payment terms are Net 20 days after receipt of vehicle.

Thank you in advance for your consideration. Should you have any questions, please do not hesitate to call.

Sincerely,

Jesse Cooper
Account Manager
Email: Fleet@NationalAutoFleetGroup.com
Office: (855) 289-6572
Fax: (831) 480-8497

Quoting Department
Account Manager
Fleet@NationalAutoFleetGroup.com
(855) 289-6572

CHEVROLET Ford NISSAN TOYOTA GMC

National Auto Fleet Group

A Division of Chevrolet of Watsonville

490 Auto Center Drive, Watsonville, CA 95076

(855) 289-6572 • (831) 480-8497 Fax

Fleet@NationalAutoFleetGroup.com

12/31/2019
12/31/2019 Re-Configured

Quote ID: **12412 R1**

Order Cut Off Date: **TBA**

Mr Gerado Barrera
City of West University Place

3826 Amherst, West University Place

West University Place, Texas, 77005

Dear Gerado Barrera,

National Auto Fleet Group is pleased to quote the following vehicle(s) for your consideration.
One (1) New/Unused (2020 Ford Transit Cargo Van (E1Y) T-150 130" Low Rf 8670 GVWR RWD, Factory Order) and delivered to your specified location, each for

	One Unit
Contract Price	$27,216.00
Factory Order	$0.00
Tax (0.0000 %)	$0.00
Tire fee	$0.00
Total	$27,216.00

- per the attached specifications.

This vehicle(s) is available under the **Sourcewell (Formerly Known as NJPA) Contract 120716-NAF** . Please reference this Contract number on all purchase orders to National Auto Fleet Group. Payment terms are Net 20 days after receipt of vehicle.

Thank you in advance for your consideration. Should you have any questions, please do not hesitate to call.

Sincerely,

Jesse Cooper
Account Manager
Email: Fleet@NationalAutoFleetGroup.com
Office: (855) 289-6572
Fax: (831) 480-8497

Quoting Department
Account Manager
Fleet@NationalAutoFleetGroup.com
(855) 289-6572

CHEVROLET Ford NISSAN TOYOTA GMC

National Auto Fleet Group

A Division of Chevrolet of Watsonville

490 Auto Center Drive, Watsonville, CA 95076

(855) 289-6572 • (831) 480-8497 Fax

Fleet@NationalAutoFleetGroup.com

12/31/2019

Quote ID: **12413**

Order Cut Off Date: **TBA**

Mr Gerado Barrera
City of West University Place

3826 Amherst, West University Place

West University Place, Texas, 77005

Dear Gerado Barrera,

National Auto Fleet Group is pleased to quote the following vehicle(s) for your consideration.
One (1) New/Unused (2020 Ford Transit Cargo Van (R1C) T-250 148" Med Rf 9070 GVWR RWD, Factory Order) and delivered to your specified location, each for

	One Unit
Contract Price	$32,554.00
Factory Order	$0.00
Tax (0.0000 %)	$0.00
Tire fee	$0.00
Total	$32,554.00

- per the attached specifications.

This vehicle(s) is available under the **Sourcewell (Formerly Known as NJPA) Contract 120716-NAF** . Please reference this Contract number on all purchase orders to National Auto Fleet Group. Payment terms are Net 20 days after receipt of vehicle.

Thank you in advance for your consideration. Should you have any questions, please do not hesitate to call.

Sincerely,

Jesse Cooper
Account Manager
Email: Fleet@NationalAutoFleetGroup.com
Office: (855) 289-6572
Fax: (831) 480-8497

Quoting Department
Account Manager
Fleet@NationalAutoFleetGroup.com
(855) 289-6572

National Auto Fleet Group

A Division of Chevrolet of Watsonville

490 Auto Center Drive, Watsonville, CA 95076

(855) 289-6572 • (831) 480-8497 Fax

Fleet@NationalAutoFleetGroup.com

12/31/2019

Quote ID: **12415**

Order Cut Off Date: **TBA**

Mr Gerado Barrera
City of West University Place

3826 Amherst, West University Place

West University Place, Texas, 77005

Dear Gerado Barrera,

National Auto Fleet Group is pleased to quote the following vehicle(s) for your consideration.
One (1) New/Unused (2020 Ford F-150 (X1C) XL 2WD SuperCab 6.5' Box 145" WB, Factory Order) and delivered to your specified location, each for

	One Unit
Contract Price	$27,081.00
Factory Order	$0.00
Tax (0.0000 %)	$0.00
Tire fee	$0.00
Total	$27,081.00

- per the attached specifications.

$27,071 x 2 = $54,162

This vehicle(s) is available under the **Sourcewell (Formerly Known as NJPA) Contract 120716-NAF** . Please reference this Contract number on all purchase orders to National Auto Fleet Group. Payment terms are Net 20 days after receipt of vehicle.

Thank you in advance for your consideration. Should you have any questions, please do not hesitate to call.

Sincerely,

Jesse Cooper
Account Manager
Email: Fleet@NationalAutoFleetGroup.com
Office: (855) 289-6572
Fax: (831) 480-8497

Quoting Department
Account Manager
Fleet@NationalAutoFleetGroup.com
(855) 289-6572

National Auto Fleet Group

A Division of Chevrolet of Watsonville

490 Auto Center Drive, Watsonville, CA 95076

(855) 289-6572 • (831) 480-8497 Fax

Fleet@NationalAutoFleetGroup.com

12/31/2019

Quote ID: **12414**

Order Cut Off Date: **TBA**

Mr Gerado Barrera
City of West University Place

3826 Amherst, West University Place

West University Place, Texas, 77005

Dear Gerado Barrera,

National Auto Fleet Group is pleased to quote the following vehicle(s) for your consideration.
One (1) New/Unused (2020 Ford F-150 (X1C) XL 2WD SuperCab 6.5' Box 145" WB, Factory Order) and delivered to your specified location, each for

	One Unit
Contract Price	$28,942.00
Factory Order	$0.00
Tax (0.0000 %)	$0.00
Tire fee	$0.00
Total	$28,942.00

- per the attached specifications.

This vehicle(s) is available under the **Sourcewell (Formerly Known as NJPA) Contract 120716-NAF** . Please reference this Contract number on all purchase orders to National Auto Fleet Group. Payment terms are Net 20 days after receipt of vehicle.

Thank you in advance for your consideration. Should you have any questions, please do not hesitate to call.

Sincerely,

Jesse Cooper
Account Manager
Email: Fleet@NationalAutoFleetGroup.com
Office: (855) 289-6572
Fax: (831) 480-8497

Quoting Department
Account Manager
Fleet@NationalAutoFleetGroup.com
(855) 289-6572

CHEVROLET Ford NISSAN TOYOTA GMC

SILSBEE

PRODUCT PRICING SUMMARY

GOODBUY 20 8F000 VEHICLES www.purchasing.esc2.net

VENDOR--Silsbee Ford, 1211 Hwy 96 N., Silsbee TX 77656

End User: CITY OF WEST UNIVERSITY PLACE
Contact: GERARDO BARRERA 713.662.5845
Email: GBARRERA@WESTUTX.GOV
Product Description: 2020 FORD ESCAPE

Prepared by: RICHARD HYDER
Phone: (409) 300-1385
Email: rhyder.cowboyfleet@gmail.com
Date: January 7, 2020

A. **Bid Item:** 7A4 **A. Base Price:** $ 21,488.00

B. **Factory Options**

Code	Options	Bid Price	Code	Options	Bid Price
U0F	ESCAPE S FWD	$ 1,195.00			
996	1.5L I4 ECOBOOST	$ -			
	CRUISE CONTROL	$ -			
	POWER EQUIPMENT GROUP	$ -		INSPECTOR	
	REAR VIEW CAMERA	$ -			
YZ	EXTERIOR WHITE	$ -			
VH	INTERIOR DARK EARTH GRAY	$ -			

Total of B. Published Options: $ 1,195.00

Published Option Discount (5%) $ -

C. **Additional Options [not to exceed 25%]** $= 0.0 %

Options	Bid Price	Options	Bid Price
			$ -

Total of C. Unpublished Options: $ -

D. **Floor Plan Interest (for in-stock and/or equipped vehicles):** $ -

E. **Lot Insurance (for in-stock and/or equipped vehicles):** $ -

F. **Contract Price Adjustment:** $ -

G. **Additional Delivery Charge:** 100 **miles** $ 175.00

H. **Subtotal:** $ 22,858.00

I. **Quantity Ordered** 1 **x K =** $ 22,858.00

J. **Trade in:** $ -

K. **GOODBUY Administrative Fee ($300 per purchase order)** $ 300.00

L. **TOTAL PURCHASE PRICE INCLUDING GOODBUY FEE** $ 23,158.00

PRODUCT PRICING SUMMARY

GOODBUY 20 8F000 VEHICLES www.purchasing.esc2.net

VENDOR--Silsbee Ford, 1211 Hwy 96 N., Silsbee TX 77656

End User: CITY OF WEST UNIVERSITY PLACE
Prepared by: RICHARD HYDER
Contact: GERARDO BARRERA 713.662.5845
Phone: (409) 300-1385
Email: GBARRERA@WESTUTX.GOV
Email: rhyder.cowboyfleet@gmail.com
Product Description: TRANSIT 150 CARGO
Date: January 7, 2020

A. **Bid Item:** 3 **A. Base Price:** $ 24,985.00

B. **Factory Options**

Code	Options	Bid Price	Code	Options	Bid Price
E1Y	TRANSIT 150 CARGO LOW ROOF 130" WB	$ 1,595.00			
YZ	EXTERIOR WHITE	$ -			
VK	INTERIOR VINYL BUCKETS	$ -			
	REAR VIEW CAMERA	$ -		**ANIMAL CONTROL**	
998	3.5L V6 GAS	$ -			
	NO GLASS	$ -			
	BLUETOOTH	$ -			
	POWER GROUP	$ -			

Total of B. Published Options: $ 1,595.00

Published Option Discount (5%) $ -

C. **Additional Options [not to exceed 25%]** $= 0.0 %

Options	Bid Price	Options	Bid Price

Total of C. Unpublished Options: $ -

D. **Floor Plan Interest (for in-stock and/or equipped vehicles):** $ -

E. **Lot Insurance (for in-stock and/or equipped vehicles):** $ -

F. **Contract Price Adjustment:** $ -

G. **Additional Delivery Charge:** 100 **miles** $ 175.00

H. **Subtotal:** $ 26,755.00

I. **Quantity Ordered** 1 **x K =** $ 26,755.00

J. **Trade in:** $ -

K. **GOODBUY Administrative Fee ($300 per purchase order)** $ 300.00

L. **TOTAL PURCHASE PRICE INCLUDING GOODBUY FEE** $ 27,055.00

PRODUCT PRICING SUMMARY

GOODBUY 20 8F000 VEHICLES www.purchasing.esc2.net

VENDOR--Silsbee Ford, 1211 Hwy 96 N., Silsbee TX 77656

End User: CITY OF WEST UNIVERSITY PLACE
Prepared by: RICHARD HYDER
Contact: GERARDO BARRERA 713.662.5845
Phone: (409) 300-1385
Email: GBARRERA@WESTUTX.GOV
Email: rhyder.cowboyfleet@gmail.com
Product Description: TRANSIT 250 CARGO
Date: January 7, 2020

A. **Bid Item:** 7A8 **A. Base Price:** $ 26,120.00

B. **Factory Options**

Code	Options	Bid Price	Code	Options	Bid Price
R1Y	TRANSIT 250 CARGO MED ROOF 148" WB	$ 3,980.00			
YZ	EXTERIOR WHITE	$ -			
VK	INTERIOR VINYL BUCKETS	$ -			
	REAR VIEW CAMERA	$ -		**FACILITIES**	
998	3.5L V6 GAS	$ -			
	NO GLASS	$ -			
	BLUETOOTH	$ -			
	POWER GROUP	$ -			

Total of B. Published Options: $ 3,980.00

Published Option Discount (5%) $ -

C. **Additional Options [not to exceed 25%]** $= 0.0 %

Options	Bid Price	Options	Bid Price

Total of C. Unpublished Options: $ -

D. **Floor Plan Interest (for in-stock and/or equipped vehicles):** $ -

E. **Lot Insurance (for in-stock and/or equipped vehicles):** $ -

F. **Contract Price Adjustment:** $ -

G. **Additional Delivery Charge:** 100 **miles** $ 175.00

H. **Subtotal:** $ 30,275.00

I. **Quantity Ordered** 1 **x K =** $ 30,275.00

J. **Trade in:** $ -

K. **GOODBUY Administrative Fee ($300 per purchase order)** $ 300.00

L. **TOTAL PURCHASE PRICE INCLUDING GOODBUY FEE** $ 30,575.00

PRODUCT PRICING SUMMARY

GOODBUY 20 8F000 VEHICLES **www.purchasing.esc2.net**

VENDOR--Silsbee Ford, 1211 Hwy 96 N., Silsbee TX 77656

End User: CITY OF WEST UNIVERSITY PLACE
Prepared by: RICHARD HYDER
Contact: GERARDO BARRERA 713.662.5845
Phone: (409) 300-1385
Email: GBARRERA@WESTUTX.GOV
Email: rhyder.cowboyfleet@gmail.com
Product Description: FORD F150
Date: January 7, 2020

A. **Bid Item:** 6 **A. Base Price:** $ 21,222.00

B. **Factory Options**

Code	Options	Bid Price	Code	Options	Bid Price
X1C	2020 F150 SUPERCAB 4X2 6.5' BED	$ 3,480.00			
YZ	EXTERIOR WHITE	$ -			
AG	INTERIOR VINYL 40/20/40	$ -		PW	
	REAR VIEW CAMERA	$ -			
99B	3.3L V6 GAS	$ -			
85A	POWER EQUIPMENT GROUP	$ 1,170.00			
96W	TOUGHBED LINER	$ 595.00			
18B	BLACK PLATFORM RUNNING BOARDS	$ 250.00			
76R	REVERSE SENSING	$ 295.00			
53A	TOW PACKAGE	$ 595.00			

Total of B. Published Options: $ 6,385.00

Published Option Discount (5%) $ (145.25)

C. **Additional Options [not to exceed 25%]** $= 0.0 %

Options	Bid Price	Options	Bid Price

Total of C. Unpublished Options: $ -

D. **Floor Plan Interest (for in-stock and/or equipped vehicles):** $ -

E. **Lot Insurance (for in-stock and/or equipped vehicles):** $ -

F. **Contract Price Adjustment:** $ -

G. **Additional Delivery Charge:** 100 **miles** $ 175.00

H. **Subtotal:** $ 27,636.75

I. **Quantity Ordered** 1 **x K =** $ 27,636.75

J. **Trade in:** $ -

K. **GOODBUY Administrative Fee ($300 per purchase order)** $ 300.00

L. **TOTAL PURCHASE PRICE INCLUDING GOODBUY FEE** $ 27,936.75

$27,936.75 x 2=$55,873.50

PRODUCT PRICING SUMMARY

GOODBUY 20 8F000 VEHICLES www.purchasing.esc2.net

VENDOR--Silsbee Ford, 1211 Hwy 96 N., Silsbee TX 77656

End User: CITY OF WEST UNIVERSITY PLACE
Contact: GERARDO BARRERA 713.662.5845
Email: GBARRERA@WESTUTX.GOV
Product Description: FORD F150

Prepared by: RICHARD HYDER
Phone: (409) 300-1385
Email: rhyder.cowboyfleet@gmail.com
Date: January 7, 2020

A. **Bid Item:** 6 **A. Base Price:** $ 21,222.00

B. **Factory Options**

Code	Options	Bid Price	Code	Options	Bid Price
X1C	2020 F150 SUPERCAB 4X2 6.5' BED	$ 3,480.00	86A	XL CHROME APPEARANCE PKG	$ 775.00
YZ	EXTERIOR WHITE	$ -	67T	TRAILER BRAKE CONTROLLER	$ 275.00
AG	INTERIOR VINYL 40/20/40	$ -	96X	TONNEAU COVER	$995.00
	REAR VIEW CAMERA	$ -			
99B	3.3L V6 GAS	$ -			
85A	POWER EQUIPMENT GROUP	$ 1,170.00		**FIRE**	
96W	TOUGHBED LINER	$ 595.00			
18B	BLACK PLATFORM RUNNING BOARDS	$ 250.00			
76R	REVERSE SENSING	$ 295.00			
53A	TOW PACKAGE	$ 595.00			
				Total of B. Published Options:	**$ 8,430.00**
				Published Option Discount (5%)	**$ (247.50)**

C. **Additional Options [not to exceed 25%]** **$=** 0.0 **%**

Options	Bid Price	Options	Bid Price
		Total of C. Unpublished Options:	**$ -**

D.	**Floor Plan Interest (for in-stock and/or equipped vehicles):**	**$ -**
E.	**Lot Insurance (for in-stock and/or equipped vehicles):**	**$ -**
F.	**Contract Price Adjustment:**	**$ (400.50)**
G.	**Additional Delivery Charge:** 100 **miles**	**$ 175.00**
H.	**Subtotal:**	**$ 29,179.00**
I.	**Quantity Ordered** 1 **x K =**	**$ 29,179.00**
J.	**Trade in:**	**$ -**
K.	**GOODBUY Administrative Fee ($300 per purchase order)**	**$ 300.00**
L.	**TOTAL PURCHASE PRICE INCLUDING GOODBUY FEE**	**$ 29,479.00**

AGENDA MEMO

Business of the City Council
City of West University Place, Texas

Meeting Date	01.27.20	**Agenda Item**	13D
Approved by City Manager	Yes	**Presenter(s)**	Tim Dang, Director
Reviewed by City Attorney	Yes	**Department**	Information Technology
Subject	Computer Aided Dispatch Software		
Attachments	General Services Contract		
Financial Information	Expenditure Required:		$73,000.00
	Amount Budgeted:		$75,000.00
	Account Number:		502-8010-74007
	Additional Appropriation Required:		N/A
	Additional Account Number:		N/A

Executive Summary

Since 1998, the West University Place Police Department (WUPD) has utilized TriTech's VisionAir software to facilitate Computer-Aided Dispatching (CAD) and dispatch reporting, which includes the digital recording and storage of dispatch call details that aid in investigations and responding to request for public records.

Recently, Tritech merged with other industry leaders to form a new parent company, Central Square Technologies. A subsidiary of that company is Zuercher Technologies, which caters to smaller entities such as West U. Zuercher has developed a proprietary software called Zuercher Pro Suite, which is the successor to VisionAir.

Due to the transition, VisionAir no longer provides software updates, which caused a significant problem: an unexpected software flaw that is preventing WUPD from printing call slips and, with no updates, the issue cannot be resolved. Converting to Zuercher Pro Suite will not only resolve the call slip printing issue, the City will receive a variety of additional benefits including, but not limited to, the following:

- Compatibility with the City of West University Place's Virtual Gate program;
- Maintenance of evidence through a bar coding system;
- Harris County Automated Fingerprint Identification System (AFIS) integration;
- Form/template integration;
- AVL/Mapping capabilities; and
- Jail management

Overall, Zuercher Pro Suite software will streamline dispatch, police, and fire procedures via a more user-friendly platform with enhanced reporting features and a modern, proprietary, and fully supported software solution.

This purchase is exempt from competitive bidding requirements, per Local Government Code Sec. 252.022 because it is a sole source purchase (existing vendor upgrade), as well as, a Hi Tech purchase.

The 2020 Budget included $75,000 to fund the proposed upgrade and the cost of the proposal staff is recommending from Zuercher Technologies is $73,000.

Recommended Action

Staff recommends that City Council approve the purchase of Computer Aided Dispatch software from Zuercher Technologies in the amount of $73,000; and authorize the City Manager to execute the contract.

City of West University Place

GENERAL SERVICES CONTRACT
Revised 12/13/2019

This General Services Contract (Contract) is made between the City of West University Place, Texas (City), and Contractor. The City and Contractor agree to the terms and conditions of this Contract, which consists of the following parts:

I. Summary of Contract Terms
II. Signatures
III. Standard Contractual Provisions
IV. Special Terms and Conditions
V. Additional Contract Documents

I. *Summary of Contract Terms*.

Contractor: ***Zuercher Technologies LLC***

Description of Services: Upgrade to the CAD (Computer Aided Dispatch) software_____

Annual Services: $73,000.00_____

Additional Work in addition to Base Services: Any changes or additions must be submitted in writing via addendum and agreed upon by City

Effective Date: _____

Termination Date: _____

II. *Signatures*. By signing below, the parties agree to the terms of this Contract:

CITY OF WEST UNIVERSITY PLACE:*

By: Dave Beach_____

Title: City Manager_____

Date: _____

CONTRACTOR:

By: Chance Hill_____

Title: Account Executive_____

Date: _____

____ Council Approved on _____/_____/_____
____ City Manager
____ Department Head
____ Division Head

*Contract Signature Authority:
Division Head -$2,999 or less
Department Head - $3,000 to $14,999
City Manager - $15,000 to $50,000
Over $50,000 – Council approval required

_____

Attest: City Secretary

III. *Standard Contractual Provisions*.

A. Definitions.

Contract means this General Services Contract.

Services means the services for which the City solicited bids or received proposals as described in this Contract.

B. Services and Payment. Contractor will furnish Services to the City in accordance with the terms and conditions specified in this Contract. Contractor will bill the City for the Services provided at intervals of at least 30 days, except for the final billing. The City shall pay Contractor for the Services in accordance with the terms of this Contract, but all payments to be made by the City to Contractor, including the time of payment and the payment of interest on overdue amounts, are subject to the applicable provisions of Chapter 2251 of the Government Code.

C. Termination Provisions.

(1) *City Termination for Convenience*. Under the paragraph, the City may terminate this Contract during its term at any time for the City's own convenience where the Contractor is not in default by giving written notice to Contractor. If the City terminated this Contract under this paragraph, the City will pay the Contractor for all services rendered in accordance with this Contract to the date of termination.

(2) *Termination for Default*. Either party to this Contract may terminate this Contract as provided in this paragraph if the other party fails to comply with its terms. The party alleging the default will give the other party notice of the default in writing citing the terms of the Contract that have been breached and what action the defaulting party must take to cure the default. If the party in default fails to cure the default as specified in the notice within 30 days, the party giving the notice of default may terminate this Contract by written notice to the other party, specifying the date of termination. Termination of the Contract under this paragraph does not affect the right of either party to seek remedies for breach of the Contract as allowed by law, including any damages or costs suffered by either party.

(3) *Multi-Year Contracts and Funding*. If this Contract extends beyond the City's fiscal year in which it becomes effective or provides for the City to make any payment during any of the City's fiscal years following the City's fiscal year in which this Contract becomes effective and the City fails to appropriate funds to make any required Contract payment for that successive fiscal year and there are no funds from the City's sale of debt instruments to make the required payment, then this Contract automatically terminates at the beginning of the first day of the City's successive fiscal year of the Contract for which the City has not appropriated funds or otherwise provided for funds to make a required payment under the contract.

D. Liability and Indemnity. Any provision of any attached contract document that limits the Contractor's liability to the City or releases the Contractor from liability to the City for actual or compensatory damages, loss, or costs arising from the performance of this Contract or that provides for contractual indemnity by one party to the other party to this Contract is not applicable or effective under this Contract. Except where an Additional Contract Document provided by the City provides otherwise, each party to this Contract is responsible for defending against and liable for paying any claim, suit, or judgement for damages, loss, or costs arising from that party's negligent acts or omissions in the performance of this Contract in accordance with applicable law. This provision does not affect the right of either party to this contract who is sued by a third party of acts or omissions arising from this Contract to bring in the other party to this Contract as a third-party defendant as allowed by law.

E. Assignment. The Contractor shall not assign this Contract without the prior written consent of the City.

F. **Law Governing and Venue. This Contract is governed by the law of the State of Texas and a lawsuit may only be prosecuted on this Contract in a court of competent jurisdiction located in or having jurisdiction in Harris County, Texas**.

G. Entire Contract. This Contract represents the entire Contract between the City and the Contractor and supersedes all prior negotiations, representations, or contracts, either written or oral. This Contract may be amended only by written instrument signed by both parties.

H. Independent Contractor. Contractor shall perform the work under this Contract as an independent contractor and not as an employee of the City. The City has not right to supervise, direct, or control the Contractor or Contractor's officers or employees in the means, methods, or details of the work to be performed by Contractor under this Contract. The City and Contractor agree that the work performed under this Contract is not inherently dangerous, that Contractor will perform the work in a workmanlike manner, and that Contractor will take proper care and precautions to insure the safety of Contractor's officers and employees.

I. Dispute Resolution Procedures. The Contractor and City desire an expeditious means to resolve any disputes that may arise between them regarding this Contract. If either party disputes any matter relating to this Contract, the parties agree to try in good faith, before bringing any legal action, to settle the dispute by submitting the matter to mediation before a third party who will be selected by agreement of the parties. The parties will each pay one-half of the mediator's fees.

J. Attorney's Fees. Should the City bring suit against the Contractor for breach of contract or for any other cause relating to this Contract, the City shall be entitled to seek an award of attorney's fees or other costs relating to the suit.

K. Severability. If a court finds or rules that any part of this Contract is invalid or unlawful, the remainder of the Contract continues to be binding on the parties.

L. Work Product. Any work product generated as a result of this Contract shall be the property of the City.

IV. *Special Terms or Conditions.*

A. As required by Section 2252.908, Texas Government Code, if this Contract requires an action or vote by the City before the contract may be signed, or has a value of at least $1 million, then the City may not enter into such Contract unless the Contractor submits a disclosure of interested parties to the City at the time the Contractor submits the signed Contract to the City. The Contractor agrees to submit such disclosure as required by Section 2252.908 of the Texas Government Code on the form 1295, prescribed by the Texas Ethics Commission, unless the Contractor is a publicly traded entity or a wholly owned subsidiary of same, in which case no disclosure is required. The Contractor agrees to access the Texas Ethics Commission website and complete the form 1295, receive a confirmation number and a PDF version of the completed form 1295, execute and notarize a hard copy version of the completed form 1295, and submit it, along with the confirmation number, to the City.

B. As required by Chapter 2270, Texas Government Code, Contractor hereby verifies that it does not boycott Israel and will not boycott Israel through the term of this Contract. For purposes of this verification, "Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli controlled territory, but does not include an action made for ordinary business purposes. This Section IV B applies only to contracts with a value of $100,000 or more that are to be paid wholly or partly from public funds of the City, between the City and any company with 10 or more full time employees. Furthermore, this Section IV B does not apply if Contractor is a sole proprietorship

C. Pursuant to Chapter 2252, Texas Government Code, Contractor represents and certifies that, at the time of execution of this Contract neither the Contractor, nor any wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of the same (i) engages in business with Iran, Sudan, or any foreign terrorist organization as described in Chapter 806 or 807 of the Texas Government Code, or Subchapter F of Chapter 2252 of the Texas Government Code, or (ii) is a company listed by the Texas Comptroller of Public Accounts under Sections 806.051, 807.051, or 2252.153 of the Texas Government Code. The term "foreign terrorist organization" in this paragraph has the meaning assigned to such term in Section 2252.151 of the Texas Government Code.

V. ***Additional Contract Documents***. The following specified documents attached to this Contract are part of this Contract, except as follows: any provision contained in any of the Contractor's Additional Contract Documents specified below that conflicts with a Contract provision not included in the Contractor's Additional Contract Documents, does not apply to this contract.

A. Contractor's Additional Contract Documents:

1. Official Bid Packet

B. City's Additional Contract Documents:

1. ***[Insert City documents]***

END OF DOCUMENT

AGENDA MEMO

Business of the City Council
City of West University Place, Texas

Meeting Date	01.27.20	**Agenda Item**	13E
Approved by City Manager	Yes	**Presenter(s)**	Harrison Nicholson, Treasurer
Reviewed by City Attorney	No	**Department**	Finance
Subject	Quarterly Investment Report		
Attachments	December 2019 Quarterly Investment Report		
Financial Information	Expenditure Required:		N/A
	Amount Budgeted:		N/A
	Account Number:		N/A
	Additional Appropriation Required:		N/A
	Additional Account Number:		N/A

Executive Summary

Texas Government Code, Section 2256 (known as the Public Funds Investment Act or PFIA), requires that the City Council and City Manager receive quarterly investment reports.

The quarterly report ending December 31, 2019 meets the requirements established by the PFIA and the investment strategies outlined in the City's Investment Policy.

Recommended Action

Staff recommends that City Council accept the City's December 2019 Quarterly Investment Report.

City of
West University
Place

QUARTERLY INVESTMENT REPORT

DECEMBER 31, 2019

Presented January 27, 2020

MANAGEMENT ANALYSIS:
January 27, 2020

ECONOMIC SUMMARY - December 2019:

- The Federal Reserve convened twice during the fourth quarter. The overnight funds target rate saw one decrease. The rate at the beginning of the quarter was 2.00%. On 10/30/19, the rate was reduced from 2.00% to 1.75%. This was the third rate decrease during 2019. The latest guidance from the Federal Reserve is that future rate decisions will be made based on careful consideration of factors such as inflation, outlook on national and global economics and results of various trade negotiations between the United States and other economies. The market shares the view that the Federal Reserve is pausing any future rate decreases/increases at this time. The City has already seen the effects of the rate reduction and outlook, with TexPool's interest rate decreasing from 2.1635% at the beginning of the quarter to 1.6226% as of December 31, 2019.

- Metro Houston created 80,400 jobs from October 2018 to October 2019 which was an increase of 2.6%. The national average during the same time period was 1.4%. The Bureau of Labor Statistics noted that in regards to the 12 largest metropolitan areas in the country, Houston ranked 2nd (tied with Dallas and Phoenix) in the annual rate of job growth. The unemployment rate for the Houston MSA for November 2019 was 3.6% compared to 3.3% for the State and 3.5% nationwide.

- Consumer Price Index for the Houston MSA core based statistical area were down 0.6% in November and December and increased 1.0% over last year, for all items. Excluding energy (motor fuels and electricity) and food, CPI is up 1.8% over last year.

PORTFOLIO TRANSACTIONS : For the Quarter Ended December 2019

- Total Book Value of the City's portfolio increased by $4,098,030 from $31.7 million to $35.8 million for the quarter, mainly due receipts of Property Tax revenue during November and December for the new tax year and the interest payments on the City's debt occurring in the 3rd quarter. This increase is typical for the 4th quarter of every fiscal year.

- Investments in TexPool increased by $7,156,679 for the quarter, from $14.0 million to $21.1 million as the City received funds related to Property Tax revenue and investment proceeds from matured securities in TexPool versus Treasury or Agency investments as TexPool was performing better yield wise. Cash in JP Morgan Chase Bank decreased by $1,099,754 for the quarter, from $1.8M to $0.7M mainly due to timing differences for operating cash needs at the end of each period. Investments in securities decreased $1,958,895 million from $15.9 million to $14.0 million due to decreased investment in treasury or agencies as noted above regarding TexPool funds. The City's average yield to maturity decreased from 2.148% in September to 1.773% by December mainly as a result of the rate decrease noted.

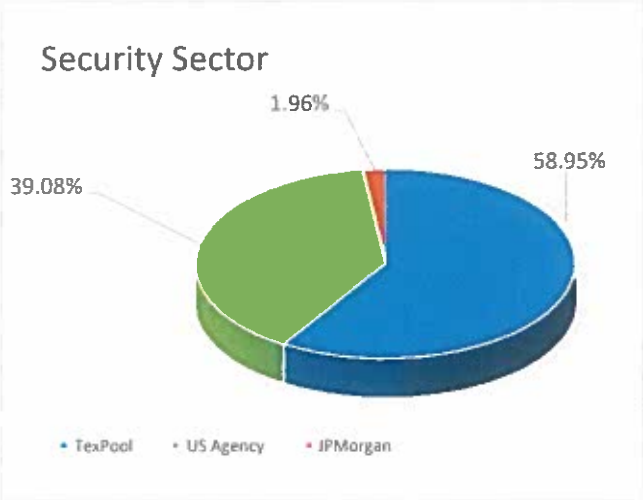
- The full listing of transactions for the quarter can be found in the report.

CITY OF WEST UNIVERSITY PLACE

Quartely Investment Report

Period Ending: December 31, 2019

City of West University Place



		September 30, 2019 Beginning Balance	December 31, 2019 Ending Balance
CASH AND INVESTMENT POOLS			
JPMorgan Chase Bank *	Market Value	1,803,003.39	703,249.21
TexPool	Market Value	13,960,297.85	21,116,976.95
AGENCY SECURITIES			
	Book Value	15,982,031.01	14,023,136.09
	Market Value	15,998,385.79	14,036,517.40
	Par Value	16,000,000.00	14,000,000.00
TOTAL PORTFOLIO			
	Book Value	31,745,332.25	35,843,362.25
	Market Value	31,761,687.03	35,856,743.56
	Par Value	31,763,301.24	35,820,226.16

Weighted Average Call/Maturity (in Days) **	57
Weighted Average Maturity (in Days) **	78
Weighted Average Yield to Maturity **	1.7730%
Earnings / Current Year to Date	677,628.42
Accrued Interest	149,656.81

COMPARATIVE YIELDS

Treasury Bill / 3 Month	1.5700%
Treasury Bill / 6 Month	1.5800%
Treasury Note / 2 Year	1.6100%

* Bank Statement Balance

This report is presented in accordance with the Texas Government Code Title 10 / Section 2256.023. The below signed hereby certify that, to the best of their knowledge on the date this report was generated, the City of West University Place is in compliance with the provisions of Government Code 2256 and with the stated policies and strategies of the City of West University Place.

Harrison Nicholson
Treasurer

Dana Steubing
Fiscal Services Officer

City of West University Place
Portfolio Holdings
01 Monthly Investment Report - Part B
Report Format: By Transaction
Group By: Security Sector
Average By: Face Amount / Shares
Portfolio / Report Group: All Portfolios
As of 12/31/2019

Description	CUSIP/ Ticker	Settlement Date	Face Amount/ Shares	Cost Value	Market Value	Book Value	YTM @ Cost	Maturity Date	Days To Maturity	Accrued Interest
Cash										
JPMorgan Chase Cash	CASH8159	12/31/2015	703,249.21	703,249.21	703,249.21	703,249.21	0.000	N/A	1	
Sub Total / Average Cash			703,249.21	703,249.21	703,249.21	703,249.21	0.000		1	0.00
Local Government Investment Pool										
LGIP LGIP	TEXPOOL	09/30/2008	21,116,976.95	21,116,976.95	21,116,976.95	21,116,976.95	1.623	N/A	1	
Sub Total / Average Local Government Investment Pool			21,116,976.95	21,116,976.95	21,116,976.95	21,116,976.95	1.623		1	0.00
US Agency										
FFCB 2.375 3/27/2020	3133EJHL6	03/27/2018	1,000,000.00	1,000,000.00	1,001,925.00	1,000,000.00	2.375	03/27/2020	87	6,201.39
FHLB 2.125 2/11/2020	3130ADN32	01/30/2019	2,000,000.00	1,990,423.40	2,000,960.00	1,998,941.67	2.599	02/11/2020	42	16,527.78
FHLB 2.125 2/11/2020	3130ADN32	03/01/2019	2,000,000.00	1,992,196.86	2,000,960.00	1,999,081.98	2.545	02/11/2020	42	16,527.78
FHLMC 2.1 1/15/2021-20	3134GTZX4	07/15/2019	2,000,000.00	2,000,000.00	2,000,720.00	2,000,000.00	2.100	01/15/2021	381	19,366.67
FNMA 1.5 7/30/2020	3135G0T60	07/23/2019	2,000,000.00	1,990,716.16	1,998,240.00	1,994,713.02	1.962	07/30/2020	212	12,500.00
Sub Total / Average US Agency			9,000,000.00	8,973,336.42	9,002,805.00	8,992,736.67	2.310		160	71,123.62
US Treasury										
T-Note 2.375 4/15/2021	9128284G2	10/02/2019	1,000,000.00	1,011,036.20	1,009,650.00	1,009,265.69	1.644	04/15/2021	471	4,996.58
T-Note 2.625 7/31/2020	912828Y46	10/02/2019	2,000,000.00	2,013,649.86	2,012,031.20	2,009,595.45	1.790	07/31/2020	213	21,827.45
T-Note 2.625 7/31/2020	912828Y46	10/18/2019	2,000,000.00	2,015,546.88	2,012,031.20	2,011,538.28	1.623	07/31/2020	213	21,827.45
Sub Total / Average US Treasury			5,000,000.00	5,040,232.94	5,033,712.40	5,030,399.42	1.694		265	48,651.48
Total / Average			35,820,226.16	35,833,795.52	35,856,743.56	35,843,362.25	1.773		78	119,775.10

City of West University Place
Date To Date
M O N T H L Y Investment Report - Summary Page
Report Format: By Transaction
Group By: Security Sector
Portfolio / Report Group: All Portfolios
Begin Date: 9/30/2019, End Date: 12/31/2019

Description	CUSIP/ Ticker	Settlement Date	Maturity Date	Beginning MV	Ending MV	Beginning BV	Ending BV	Beginning Face Amount/ Shares	Ending Face Amount/ Shares	Ending Days To Call/ Maturity	Ending Days To Maturity	Ending YTM @ Cost	Interest Earned During Period-BV	Ending Market Accrued Interest
Cash														
JPMorgan Chase Cash	CASH8159	12/31/2015	N/A	1,803,003.39	703,249.21	1,803,003.39	703,249.21	1,803,003.39	703,249.21	1	1	0.000	0.00	N/A
Sub Total/Average Cash				1,803,003.39	703,249.21	1,803,003.39	703,249.21	1,803,003.39	703,249.21	1	1	0.000	0.00	0.00
Local Government Investment Pool														
LGIP LGIP	TEXPOOL	09/30/2008	N/A	13,960,297.85	21,116,976.95	13,960,297.85	21,116,976.95	13,960,297.85	21,116,976.95	1	1	1.623	64,376.22	N/A
Sub Total/Average Local Government Investment Pool				13,960,297.85	21,116,976.95	13,960,297.85	21,116,976.95	13,960,297.85	21,116,976.95	1	1	1.623	64,376.22	0.00
US Agency														
FFCB 2.375 3/27/2020	3133EJHL6	03/27/2018	03/27/2020	1,002,700.00	1,001,925.00	1,000,000.00	1,000,000.00	1,000,000.00	1,000,000.00	87	87	2.375	6,003.47	6,201.39
FHLB 0 10/15/2019	313384MZ9	12/27/2018	10/15/2019	999,235.79	0.00	998,937.50	0.00	1,000,000.00	0.00				1,062.50	0.00
FHLB 1.375 11/15/2019	3130AA3R7	01/17/2019	11/15/2019	1,998,560.00	0.00	1,997,070.47	0.00	2,000,000.00	0.00				6,367.03	0.00
FHLB 2.1 7/15/2020-19	3130AGQV0	07/15/2019	07/15/2020	1,000,050.00	0.00	1,000,000.00	0.00	1,000,000.00	0.00				875.00	0.00
FHLB 2.125 2/11/2020	3130ADN32	01/30/2019	02/11/2020	2,001,340.00	2,000,960.00	1,996,618.51	1,998,941.67	2,000,000.00	2,000,000.00	42	42	2.599	13,066.22	16,527.78
FHLB 2.125 2/11/2020	3130ADN32	03/01/2019	02/11/2020	2,001,340.00	2,000,960.00	1,996,993.50	1,999,081.98	2,000,000.00	2,000,000.00	42	42	2.545	12,831.54	16,527.78
FHLB 2.15 2/14/2020-19	3130ADMS8	07/12/2019	02/14/2020	999,900.00	0.00	1,000,000.00	0.00	1,000,000.00	0.00				2,627.78	0.00
FHLB 2.625 10/18/2019	3130AF7C5	01/03/2019	10/18/2019	2,000,800.00	0.00	2,000,000.00	0.00	2,000,000.00	0.00				2,625.00	0.00
FHLMC 2.1 1/15/2021-20	3134GTZX4	07/15/2019	01/15/2021	2,000,000.00	2,000,720.00	2,000,000.00	2,000,000.00	2,000,000.00	2,000,000.00	15	381	2.100	10,616.67	19,366.67
FNMA 1.5 7/30/2020	3135G0T60	07/23/2019	07/30/2020	1,994,460.00	1,998,240.00	1,992,411.03	1,994,713.02	2,000,000.00	2,000,000.00	212	212	1.962	9,801.99	12,500.00
Sub Total/Average US Agency				15,998,385.79	9,002,805.00	15,982,031.01	8,992,736.67	16,000,000.00	9,000,000.00	79	160	2.309	65,877.20	71,123.62
US Treasury														
T-Note 2.375 4/15/2021	9128284G2	10/02/2019	04/15/2021	0.00	1,009,650.00	0.00	1,009,265.69	0.00	1,000,000.00	471	471	1.644	4,069.65	4,996.58
T-Note 2.625 7/31/2020	912828Y46	10/02/2019	07/31/2020	0.00	2,012,031.20	0.00	2,009,595.45	0.00	2,000,000.00	213	213	1.790	8,785.27	21,827.45
T-Note 2.625 7/31/2020	912828Y46	10/18/2019	07/31/2020	0.00	2,012,031.20	0.00	2,011,538.28	0.00	2,000,000.00	213	213	1.623	6,548.47	21,827.45
Sub Total/Average US Treasury				0.00	5,033,712.40	0.00	5,030,399.42	0.00	5,000,000.00	265	265	1.694	19,403.39	48,651.48
Total / Average				31,761,687.03	35,856,743.56	31,745,332.25	35,843,362.25	31,763,301.24	35,820,226.16	57	78	1.773	149,656.81	119,775.10

City of West University Place
Date To Date
01 Monthly Investment Report - Part A
Report Format: By Transaction
Group By: Security Sector
Portfolio / Report Group: All Portfolios
Begin Date: 9/30/2019, End Date: 12/31/2019

Description	CUSIP/ Ticker	Beginning Face Amount/ Shares	Ending Face Amount/ Shares	Beginning MV	Ending MV	Beginning BV	Ending BV	Beginning YTM @ Cost	Ending YTM @ Cost	Ending Market Accrued Interest	Interest/ Dividends	Interest Earned During Period-BV
Cash												
JPMorgan Chase Cash	CASH8159	1,803,003.39	703,249.21	1,803,003.39	703,249.21	1,803,003.39	703,249.21	0.000	0.000	N/A	0.00	0.00
Sub Total/Average Cash		1,803,003.39	703,249.21	1,803,003.39	703,249.21	1,803,003.39	703,249.21	0.000	0.000	0.00	0.00	0.00
Local Government Investment Pool												
LGIP LGIP	TEXPOOL	13,960,297.85	21,116,976.95	13,960,297.85	21,116,976.95	13,960,297.85	21,116,976.95	2.164	1.623	N/A	64,376.22	64,376.22
Sub Total/Average Local Government Investment Pool		13,960,297.85	21,116,976.95	13,960,297.85	21,116,976.95	13,960,297.85	21,116,976.95	2.164	1.623	0.00	64,376.22	64,376.22
US Agency												
FFCB 2.375 3/27/2020	3133EJHL6	1,000,000.00	1,000,000.00	1,002,700.00	1,001,925.00	1,000,000.00	1,000,000.00	2.375	2.375	6,201.39	0.00	6,003.47
FHLB 0 10/15/2019	313384MZ9	1,000,000.00	0.00	999,235.79	0.00	998,937.50	0.00	2.631		0.00	0.00	1,062.50
FHLB 1.375 11/15/2019	3130AA3R7	2,000,000.00	0.00	1,998,560.00	0.00	1,997,070.47	0.00	2.566		0.00	13,750.00	6,367.03
FHLB 2.1 7/15/2020-19	3130AGQV0	1,000,000.00	0.00	1,000,050.00	0.00	1,000,000.00	0.00	2.100		0.00	0.00	875.00
FHLB 2.125 2/11/2020	3130ADN32	2,000,000.00	2,000,000.00	2,001,340.00	2,000,960.00	1,996,618.51	1,998,941.67	2.599	2.599	16,527.78	0.00	13,066.22
FHLB 2.125 2/11/2020	3130ADN32	2,000,000.00	2,000,000.00	2,001,340.00	2,000,960.00	1,996,993.50	1,999,081.98	2.545	2.545	16,527.78	0.00	12,831.54
FHLB 2.15 2/14/2020-19	3130ADMS8	1,000,000.00	0.00	999,900.00	0.00	1,000,000.00	0.00	2.150		0.00	0.00	2,627.78
FHLB 2.625 10/18/2019	3130AF7C5	2,000,000.00	0.00	2,000,800.00	0.00	2,000,000.00	0.00	2.625		0.00	26,250.00	2,625.00
FHLMC 2.1 1/15/2021-20	3134GTZX4	2,000,000.00	2,000,000.00	2,000,000.00	2,000,720.00	2,000,000.00	2,000,000.00	2.100	2.100	19,366.67	0.00	10,616.67
FNMA 1.5 7/30/2020	3135G0T60	2,000,000.00	2,000,000.00	1,994,460.00	1,998,240.00	1,992,411.03	1,994,713.02	1.962	1.962	12,500.00	0.00	9,801.99
Sub Total/Average US Agency		16,000,000.00	9,000,000.00	15,998,385.79	9,002,805.00	15,982,031.01	8,992,736.67	2.378	2.309	71,123.62	40,000.00	65,877.20
US Treasury												
T-Note 2.375 4/15/2021	9128284G2	0.00	1,000,000.00	0.00	1,009,650.00	0.00	1,009,265.69		1.644	4,996.58	11,875.00	4,069.65
T-Note 2.625 7/31/2020	912828Y46	0.00	2,000,000.00	0.00	2,012,031.20	0.00	2,009,595.45		1.790	21,827.45	0.00	8,785.27
T-Note 2.625 7/31/2020	912828Y46	0.00	2,000,000.00	0.00	2,012,031.20	0.00	2,011,538.28		1.623	21,827.45	0.00	6,548.47
Sub Total/Average US Treasury		0.00	5,000,000.00	0.00	5,033,712.40	0.00	5,030,399.42		1.694	48,651.48	11,875.00	19,403.39
Total / Average		31,763,301.24	35,820,226.16	31,761,687.03	35,856,743.56	31,745,332.25	35,843,362.25	2.148	1.773	119,775.10	116,251.22	149,656.81

City of West University Place
Transactions Summary
M O N T H L Y Transaction Summary - by Action
Group By: Action
Portfolio / Report Group: All Portfolios
Begin Date: 09/30/2019, End Date: 12/31/2019

Description	CUSIP/ Ticker	Coupon Rate	Security Sector	Security Type	Maturity Date	Settlement Date	Trade Date	Face Amount/ Shares	Principal	Interest/ Dividends	Total	Price	YTM @ Cost
Buy													
T-Note 2.375 4/15/2021	9128284G2	2.375	US Treasury	Treasury Note	04/15/2021	10/02/2019	10/01/2019	1,000,000.00	1,011,036.20	11,031.42	1,022,067.62	101.10362	1.644
T-Note 2.625 7/31/2020	912828Y46	2.625	US Treasury	Treasury Note	07/31/2020	10/18/2019	10/17/2019	2,000,000.00	2,015,546.88	11,270.38	2,026,817.26	100.777344	1.623
T-Note 2.625 7/31/2020	912828Y46	2.625	US Treasury	Treasury Note	07/31/2020	10/02/2019	10/01/2019	2,000,000.00	2,013,649.86	8,987.77	2,022,637.63	100.682493	1.790
Sub Total / Average Buy								5,000,000.00	5,040,232.94	31,289.57	5,071,522.51		
Called													
FHLB 2.1 7/15/2020-19	3130AGQV0	2.100	US Agency	FHLB Bond	07/15/2020	10/15/2019	10/15/2019	1,000,000.00	1,000,000.00	5,250.00	1,005,250.00	0	0.000
FHLB 2.15 2/14/2020-19	3130ADMS8	2.150	US Agency	FHLB Bond	02/14/2020	11/14/2019	11/14/2019	1,000,000.00	1,000,000.00	5,375.00	1,005,375.00	0	0.000
Sub Total / Average Called								2,000,000.00	2,000,000.00	10,625.00	2,010,625.00		
Deposit													
JPMorgan Chase Cash	CASH8159	N/A	Cash	Cash	N/A	11/29/2019	11/29/2019	852,342.16	852,342.16	0.00	852,342.16	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/31/2019	12/31/2019	24,859.55	24,859.55	0.00	24,859.55	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/30/2019	12/30/2019	584,321.25	584,321.25	0.00	584,321.25	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/30/2019	12/30/2019	927,356.92	927,356.92	0.00	927,356.92	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/26/2019	12/26/2019	600,000.00	600,000.00	0.00	600,000.00	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/23/2019	12/23/2019	236,225.25	236,225.25	0.00	236,225.25	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/23/2019	12/23/2019	374,415.09	374,415.09	0.00	374,415.09	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/17/2019	12/17/2019	250,467.37	250,467.37	0.00	250,467.37	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/17/2019	12/17/2019	397,538.60	397,538.60	0.00	397,538.60	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/12/2019	12/12/2019	190,273.55	190,273.55	0.00	190,273.55	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/12/2019	12/12/2019	301,858.28	301,858.28	0.00	301,858.28	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/09/2019	12/09/2019	191,984.04	191,984.04	0.00	191,984.04	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/09/2019	12/09/2019	304,664.66	304,664.66	0.00	304,664.66	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/06/2019	12/06/2019	20.90	20.90	0.00	20.90	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/05/2019	12/05/2019	212,258.77	212,258.77	0.00	212,258.77	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/05/2019	12/05/2019	336,875.18	336,875.18	0.00	336,875.18	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	11/29/2019	11/29/2019	19,268.59	19,268.59	0.00	19,268.59	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	11/27/2019	11/27/2019	354,415.89	354,415.89	0.00	354,415.89	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	11/27/2019	11/27/2019	562,451.21	562,451.21	0.00	562,451.21	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	11/21/2019	11/21/2019	99,764.48	99,764.48	0.00	99,764.48	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	11/21/2019	11/21/2019	158,236.64	158,236.64	0.00	158,236.64	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	11/21/2019	11/21/2019	1,000,000.00	1,000,000.00	0.00	1,000,000.00	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	11/19/2019	11/19/2019	1,000,000.00	1,000,000.00	0.00	1,000,000.00	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	11/14/2019	11/14/2019	5.45	5.45	0.00	5.45	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	10/31/2019	10/31/2019	20,248.08	20,248.08	0.00	20,248.08	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	10/22/2019	10/22/2019	2,000,000.00	2,000,000.00	0.00	2,000,000.00	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	10/07/2019	10/07/2019	1.40	1.40	0.00	1.40	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	10/04/2019	10/04/2019	3,088.21	3,088.21	0.00	3,088.21	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	10/04/2019	10/04/2019	4,799.75	4,799.75	0.00	4,799.75	100	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	10/01/2019	10/01/2019	501.13	501.13	0.00	501.13	100	0.000

LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	10/01/2019	10/01/2019	778.86	778.86	0.00	778.86	100	0.000
Sub Total / Average Deposit								11,009,021.26	11,009,021.26	0.00	11,009,021.26		
Interest													
FHLB 1.375 11/15/2019	3130AA3R7	1.375	US Agency	FHLB Bond	11/15/2019	11/15/2019	11/15/2019	0.00	0.00	13,750.00	13,750.00		0.000
FHLB 2.625 10/18/2019	3130AF7C5	2.625	US Agency	FHLB Bond	10/18/2019	10/18/2019	10/18/2019	0.00	0.00	26,250.00	26,250.00		0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	12/31/2019	12/31/2019	0.00	0.00	24,859.55	24,859.55		0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	11/29/2019	11/29/2019	0.00	0.00	19,268.59	19,268.59		0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	10/31/2019	10/31/2019	0.00	0.00	20,248.08	20,248.08		0.000
T-Note 2.375 4/15/2021	9128284G2	2.375	US Treasury	Treasury Note	04/15/2021	10/15/2019	10/15/2019	0.00	0.00	11,875.00	11,875.00		0.000
Sub Total / Average Interest								0.00	0.00	116,251.22	116,251.22		
Matured													
FHLB 0 10/15/2019	313384MZ9	0.000	US Agency	FHLB Bond	10/15/2019	10/15/2019	10/15/2019	1,000,000.00	1,000,000.00	0.00	1,000,000.00	0	0.000
FHLB 1.375 11/15/2019	3130AA3R7	1.375	US Agency	FHLB Bond	11/15/2019	11/15/2019	11/15/2019	2,000,000.00	2,000,000.00	0.00	2,000,000.00	0	0.000
FHLB 2.625 10/18/2019	3130AF7C5	2.625	US Agency	FHLB Bond	10/18/2019	10/18/2019	10/18/2019	2,000,000.00	2,000,000.00	0.00	2,000,000.00	0	0.000
Sub Total / Average Matured								5,000,000.00	5,000,000.00	0.00	5,000,000.00		
Withdraw													
JPMorgan Chase Cash	CASH8159	N/A	Cash	Cash	N/A	12/31/2019	12/31/2019	645,537.80	645,537.80	0.00	645,537.80	0	0.000
JPMorgan Chase Cash	CASH8159	N/A	Cash	Cash	N/A	10/31/2019	10/31/2019	1,306,558.54	1,306,558.54	0.00	1,306,558.54	0	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	11/06/2019	11/06/2019	500,000.00	500,000.00	0.00	500,000.00	0	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	10/24/2019	10/24/2019	500,000.00	500,000.00	0.00	500,000.00	0	0.000
LGIP LGIP	TEXPOOL	N/A	Local Government Investment Pool	Local Government Investment Pool	N/A	10/01/2019	10/01/2019	2,000,000.00	2,000,000.00	0.00	2,000,000.00	0	0.000
Sub Total / Average Withdraw								4,952,096.34	4,952,096.34	0.00	4,952,096.34		

AGENDA MEMO

Business of the City Council
City of West University Place, Texas

Meeting Date	January 27, 2020	**Agenda Item**	13F
Approved by City Manager	Yes	**Presenter(s)**	A. Taylor, Fire Chief
Reviewed by City Attorney	Yes	**Department**	Fire
Subject	Harris County Interlocal Agreement		
Attachments	Interlocal Agreement		
Financial Information	Expenditure Required:		N/A
	Amount Budgeted:		N/A
	Account Number:		N/A
	Additional Appropriation Required:		N/A
	Additional Account Number:		N/A

Executive Summary

In 2007, the Harris County Fire Marshal's Office (HCFMO) received a regional grant from Houston Urban Area Security Initiative (UASI) to provide electronic personal accountability equipment (equipment) to all response agencies within Harris County, including The West University Place Fire Department (WUFD). Since receiving the grant, Harris County has retained ownership of the equipment and has allowed WUFD to use and maintain the equipment via an agreement.

Harris County now wants to donate the equipment to West University Place and the proposed Interlocal Agreement facilitates the formal transfer.

Recommended Action

Staff recommends that Council approve the Interlocal Agreement allowing the transfer of ownership of electronic personal accountability equipment from Harris County to West University Place and authorize the City Manager to execute the agreement.

INTERLOCAL AGREEMENT BETWEEN HARRIS COUNTY AND
WEST UNIVERSITY PLACE

THE STATE OF TEXAS §
§
COUNTY OF HARRIS §

This Interlocal Agreement is made and entered into by and between Harris County ("Harris County"), a body corporate and politic under the laws of the State of Texas, acting through its governing body the Harris County Commissioners Court, and West University Place (the "West University"), acting on behalf of the West University Fire Department. Harris County and West University are referred to herein collectively as the "Parties" and individually as a "Party."

Recitals

The County desires to donate safety devices ("the Equipment") to West University and West University wants to accept the donation.

Terms

I.

West University understands and agrees that Harris County is donating the Equipment "as-is, with all faults" and that Harris County makes no representations or warranties as to the Equipment except that Harris County has the legal right to donate the equipment and FEMA approval is unnecessary as the fair market value is under $5,000. A list of the equipment with serial numbers is attached hereto as Exhibit A and incorporated herein by reference.

II.

West University shall be fully responsible for the transfer or filing of any and all required documents necessary to affect the transfer of ownership from Harris County to West University. West University understands and agrees that the transfer of the Equipment is an outright donation by Harris County. Any fees or costs incurred in the transfer of the Equipment are in no sense a purchase price.

III.

With its acceptance of the Equipment, West University assumes full responsibility for the Equipment, and acceptance shall act as a release by West University of any and all liability that Harris County may be subject to under any state or federal laws.

IV.

To facilitate the donation of the Equipment, the Parties may communicate through the following persons:

West University Fire Department: 3800 University Blvd., Houston, TX 77005

Harris County: Harris County Fire Marshal's Office, 2318 Atascocita Road, Humble, TX 77396

V.

EXECUTION

Multiple Counterparts: This Agreement may be executed in several counterparts. Each counterpart is deemed an original. All counterparts together constitute one and the same instrument. Each Party warrants that the undersigned is a duly authorized representative with the power to execute this Agreement.

WEST UNIVERSITY PLACE

By_____
Name:_____
Title:_____
Date: _____

APPROVED AS TO FORM:

By: _____
Name: _____
Title: _____

HARRIS COUNTY

By: _____
LINA HIDALGO
COUNTY JUDGE

APPROVED AS TO FORM:
VINCE RYAN
COUNTY ATTORNEY

By: _____
DeAnne A. Lin
Assistant County Attorney
CAO File No.:

EXHIBIT A

List of Equipment with Serial Numbers

(follows behind)

DEPARTMENT ISSUED	ITEM	MODEL	ASSET ID	SERIAL NUMBER	NOTES
WEST UNIVERSITY FD	WATCH DOG UNIT		P155976-001-001	A00906144	
WEST UNIVERSITY FD	MICRO-REPEATER		P155976-002-001	9060285	
WEST UNIVERSITY FD	T-PASS-4 DEVICE		P155976-003-001	9060232H	
WEST UNIVERSITY FD	T-PASS-4 DEVICE		P155976-003-002	9060233H	
WEST UNIVERSITY FD	T-PASS-4 DEVICE		P155976-003-003	9060243H	
WEST UNIVERSITY FD	T-PASS-4 DEVICE		P155976-003-004	9060244H	
WEST UNIVERSITY FD	T-PASS-4 DEVICE		P155976-003-005	9060245H	
WEST UNIVERSITY FD	T-PASS-4 DEVICE		P155976-003-006	9060246H	
WEST UNIVERSITY FD	T-PASS-4 DEVICE		P155976-003-007	9060247H	
WEST UNIVERSITY FD	T-PASS-4 DEVICE		P155976-003-008	9060248H	
WEST UNIVERSITY FD	T-PASS-4 DEVICE		P155976-003-009	9060249H	
WEST UNIVERSITY FD	T-PASS-4 DEVICE		P155976-003-010	9060250H	
WEST UNIVERSITY FD	T-PASS-4 DEVICE		P155976-003-011	09060251H	

ORDER OF COMMISSIONERS COURT
Authorizing an Interlocal Agreement with West University Place

The Commissioners Court of Harris County, Texas, met in regular session at its regular term at the Harris County Administration Building in the City of Houston, Texas, on _____, with all members present except _____ _____.

A quorum was present. Among other business, the following was transacted:

ORDER AUTHORIZING EXECUTION OF AN INTERLOCAL AGREEMENT
WITH WEST UNIVERSITY PLACE

Commissioner _____ introduced an order and moved that Commissioners Court adopt the order. Commissioner _____ seconded the motion for adoption of the order. The motion, carrying with it the adoption of the order, prevailed by the following vote:

	Yes	No	Abstain
Judge Lina Hidalgo	☐	☐	☐
Comm. Rodney Ellis	☐	☐	☐
Comm. Adrian Garcia	☐	☐	☐
Comm. Steve Radack	☐	☐	☐
Comm. R. Jack Cagle	☐	☐	☐

The County Judge thereupon announced that the motion had duly and lawfully carried and that the order had been duly and lawfully adopted. The order adopted follows:

IT IS ORDERED that:

1. The Harris County Judge is authorized to execute on behalf of Harris County an Interlocal Agreement between Harris County and West University Place for the Harris County Fire Marshal's Office to donate safety devices to West University Place. The Interlocal Agreement is incorporated by reference and made a part of this order for all intents and purposes as thought set out in full word for word.

2. All Harris County officials and employees are authorized to do any and all things necessary or convenient to accomplish the purposes of this order.