



City Council Agenda 1/4/2022

Notice is hereby given of a regular meeting of the City Council of City of San Angelo to be held January 4, 2022 at 8:30 AM at the McNease Convention Center – South Meeting Room, 501 Rio Concho Drive, San Angelo, Texas, for the purpose of considering the following agenda items.

1. Call to Order

2. Chaplain Prayer & Pledges

3. Proclamations/Recognitions

- a. Proclamation of 2022 as the 25th Anniversary of the Railway Museum of San Angelo

4. Public Comment

Issues or concerns not on the Regular Agenda may be raised by the public at this time. Citizens should speak from the podium, address all comments to the dais, begin by stating their name and address or Single Member District number, and limit their remarks to less than three minutes.

5. Consent Agenda

- a. Consider approving the December 7, 2021 City Council regular meeting minutes (Julia Antilley)
- b. Consider authorizing the City Manager to sign all documents necessary to purchase Lot 16, Block 131, Fort Concho Addition, from City of San Angelo Development Corporation for stormwater services and for a price not to exceed \$1,000 (Manda Salladay, Bob Salas, and Shane Kelton)
- c. Consider awarding FS-01-22 Dump Trucks to TNTX Truck Group (San Angelo, TX) in the amount of \$128,677, for the purchase of one unit and authorizing the City Manager to negotiate and execute all related documents (Ryan Kramer)
- d. Consider awarding FS-02-22 Quarter Ton Pickups to Jim Bass Ford (San Angelo, TX) in the amount of \$156,470, for the purchase of five units with the option to purchase one additional unit and authorizing the City Manager to negotiate and execute all related documents (Ryan Kramer)
- e. Consider awarding H-GAC contract #FS12-19 Fire Apparatus Pierce Enforcer to Siddons-Martin Emergency Group in the amount of \$1,258,890 for two 1500 GPM Triple Combination Pumpers and authorizing the City Manager to execute all related documents (Patrick Brody)
- f. Consider a resolution allowing the Fire Department to donate a Zoll Auto-Pulse CPR device to Shannon Medical Center Emergency Department (Patrick Brody)
- g. Consider authorizing and executing the Low Income Household Water Assistance Program (LIHWAP) Water Provider Agreement administered by Concho Valley Community Action Agency (CVCAA) and authorizing the City Manager to negotiate and execute all related documents (Allison Strube)

- h. Consider approving a fourth amendment to the Interlocal Agreement between the City of San Angelo and Tom Green County for use of the City of San Angelo health clinic (Veronica Sanchez)
- i. Consider amending the Civic Events Facility policies to allow hiring private security guards when San Angelo Police officers are unavailable (Sidney Walker)
- j. Consider ratifying a resolution of the City of San Angelo Development Corporation authorizing the Board President to execute a Business Resource Center office lease agreement with Shad Wisener d/b/a South Plains Lamesa Railroad, Ltd. for a one year term with the option to extend an additional year (Guy Andrews)
- k. Consider ratifying an amendment to the Economic Development Performance Agreement by and between the City of San Angelo Development Corporation and Wisener Holdings, LLC d/b/a South Plains Lamesa Railroad Ltd. and authorizing the Board President or their designee to execute all necessary documents (Guy Andrews)
- l. Consider ratifying approval of the City of San Angelo Development Corporation authorizing the Board President to execute the Covenants, Conditions & Restrictions (CCRs) for Phase 2 of the San Angelo Business & Industrial Park (Guy Andrews)
- m. Consider ratifying an agreement by and between the City of San Angelo Development Corporation and Quality Striping in the amount of \$4,100 for striping and sealcoating of the Business Resource Center parking lot and authorizing the Board President or their designee to execute all necessary documents (Guy Andrews)
- n. Consider ratifying an agreement by and between the City of San Angelo Development Corporation and Angelo Paving in the amount of \$5,915 to repave the Business Resource Center parking lot and authorizing the Board President or their designee to execute all necessary documents (Guy Andrews)
- o. Consider ratifying an increase to the previously approved contract amount with Mammoth Roofing Services, LLC to include an additional \$19,688 to replace stucco located at the front of the Business Resource Center through TIPS contract #210205 for a total contract amount of \$208,376 and authorizing the Board President or their designee to execute all necessary documents (Guy Andrews)
- p. Consider ratifying the expenditure of Sales and Use Tax Funds pursuant to Sec. 505.103 of the Texas Local Government Code to allocate prize awards and prize award agreements and authorizing the Board President or their designee to execute all necessary documents with the following winners of the 2021 Business Plan Competition:
 - 1. First Prize (\$40,000) - Cowboy Up Chocolates
 - 2. Second Prize (\$20,000) - Lonestar Cheeseburger
 - 3. Third Prize (\$10,000) - Medical Arts Pharmacy (Guy Andrews)
- q. Consider ratifying an early termination of the Business Plan Competition Third Place Grant Award Agreement by and between the City of San Angelo Development Corporation and Netco Energy Products, Inc. d/b/a Netco Fire and Safety due to Netco having met all contract obligations, and authorizing the COSADC Board President or their designee to execute all related documents (Guy Andrews)

- r. Second reading of an ordinance extending the temporary changes to Chapter 12 "Planning and Development", Article 12.04 "Signs" of the San Angelo Code of Ordinances, to allow additional time for preparation of permanent amendments to the Sign Ordinance (Jon James)

6. Regular Agenda

Comments regarding items on the Regular Agenda may be made by the public when each item is discussed as outlined above. Applicants, proponents, and appellants are exempt from the time limit above and instead must limit their remarks to less than five minutes.

- a. Presentation of the Historic Resources Survey of Downtown San Angelo funded through a Texas Historic Commission grant (Presentation made by Planning & Development Services Director Jon James)
- b. First reading and public hearing of an ordinance for Z21-15, a request for approval of a zone change from Low Rise Multifamily Residence District to Zero Lot Line, Twinhome and Townhome Residence District, being approximately 20 acres, located at Valley View Blvd. and College Hills Blvd. (Presentation made by Planning & Development Services Director Jon James)
- c. First reading and public hearing of an ordinance amending Chapter 8 "Offenses and Nuisances," Article 8.02 "Air Guns, Firearms, and Weapons" of the San Angelo Code of Ordinances to prohibit the firing of archery devices within the City of San Angelo and to bring the Article into compliance with Texas Statutes (Presentation made by Police Chief Frank Carter)

7. Closed Session

Executive Session under the provision of Government Code, Title 5. Open Government; Ethics, Subtitle A. Open Government, Chapter 551. Open Meetings, Subchapter D. Exceptions to Requirement that Meetings be Open under the following sections:

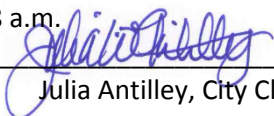
8. Follow Up and Administrative Issues

- a. Consider items discussed in Executive Session, if needed
- b. Announcements and consideration of Future Agenda Items

9. Adjournment

CERTIFICATION

I hereby certify that the above notice of meeting was posted on the bulletin board at City Hall in the City of San Angelo, Texas, on the 30th day of December 2021, at 10:08 a.m.



Julia Antilley, City Clerk

All agenda items are subject to action. The City Council reserves the right to consider business out of posted order and/or 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.

In compliance with the Americans with Disabilities Act, the City of San Angelo will provide for reasonable accommodations for persons attending City Council meetings. To better serve you, requests should be received 48 hours prior to the meetings. Please contact the City Clerk's Office at 325-657-4405.

Citizen requests to display materials on the city's monitors must submit the request 96 hours prior to the meeting by email to Julia.Antilley@cosatx.us. Time limits for discussion are as stated above and materials cannot exceed 10-pages. Citizens bringing materials for distribution to City Council members during the meeting must bring a minimum of 12 copies.

City Council regular meetings are broadcast on SATV Channel 17-Government Access at 10:30 a.m. and 7:00 p.m. every day, beginning the evening of the meeting until the evening of the next meeting.

Proclamation

Museums have the power to create unity by celebrating a collective area and enabling people to learn about history. The Railway Museum of San Angelo is proud to celebrate 25 years.

In 1991, a group of dedicated individuals protected the Historic Orient Santa Fe Depot from demolition and rehabilitated the Depot to store railroad history artifacts for public viewing. In 1996, the Historic Orient Santa Fe Depot's title changed to the Railway Museum of San Angelo and has since then remained committed to preserving the rich railway history of San Angelo for future generations.

The Railway Museum's mission is to create a connection from our past to the present that will enable us to clarify our future.

Over the last 25 years, many partners have contributed to maintaining the Railway Museum, including the City of San Angelo, Goodfellow Airforce Base, volunteer organizations from Angelo State University, and railroad retirees & devotees.

The Railway Museum continues to strive to preserve West Texas Railroad history to share with the community and travelers from around the world. Each year the museum rings in the Christmas holiday with Santa's Santa Fe Christmas, encouraging people of all ages, cultures, and financial status, to build unity and family traditions.

Now, therefore, I, Brenda Gunter, Mayor of the City of San Angelo, Texas do hereby proclaim the year of 2022 as:

"THE 25TH ANNIVERSARY OF THE RAILWAY MUSEUM OF SAN ANGELO"

and encourage all citizens to learn about and embrace the rich railroad history here in our community.

In Witness Whereof, I have hereunto set my hand and have caused the Official Seal of the City of San Angelo to be affixed this 4th day of January 2022.

Brenda Gunter

Mayor of the City of San Angelo

City of San Angelo, Texas
Regular City Council Meeting
Tuesday, December 7, 2021

Present:

Mayor Brenda Gunter
Mayor Pro tem Tom Thompson, SMD 2
Council Member Tommy Hiebert, SMD 1
Council Member Harry Thomas, SMD 3
Council Member Lucy Gonzales, SMD 4
Council Member Larry Miller, SMD 6

1. Call to Order

With a quorum of the City Council Members present, Mayor Gunter called the regular session of the San Angelo City Council to order at 8:32 a.m. on Tuesday, December 7, 2021 in the San Angelo McNease Convention Center, 501 Rio Concho Drive, San Angelo, Texas 76903.

2. Chaplain Prayer & Pledges

An invocation was provided by San Angelo Police Department Chaplain Marcella Jenkins. Pledges were led by San Angelo Police Department Chaplain Gary Jenkins.

3. Proclamations/Recognitions

December 7, 2021 was proclaimed as National Pearl Harbor Remembrance Day.

December 9, 2021 was recognized as San Angelo READS! Day.

December 17, 2021 was proclaimed as San Angelo NAACP Day.

4. Public Comment

Public Comment on the Redistricting Public Hearing:

Citizen Nelda Nowlin (SMD1) expressed concern regarding the quality of maps available online.

General Public comment:

Citizen Sylvia Martinez (SMD3) expressed concern regarding Republic Services missing her home for individual trash pickup.

Citizen Jack Miller (SMD2) asked for information regarding the police department's policy on complaints.

Executive Director of Public Works Shane Kelton stated there are several providers laying fiber optic cable and clarified the digging in most cases is in the public right of way. Private citizen assets are not monitored, but the city is ensuring city-owned land is restored to its pre-project condition. Operations will work with local firms to request door knockers or other communication to ensure residents are notified of the work in advance. The Frontier Point of Contact is Construction Coordinator Steve Cortese - steve.cortese@ftr.com 325-249-5458.

Communications Manager Brian Groves clarified the city's current website includes a landing page with detailed information regarding the presence of vendors installing lines around town.

5. Consent Agenda

- a. Approval of the November 16, 2021 City Council regular meeting minutes (Julia Antilley)
- b. Approval of a lease agreement between WIC and Cornerstone Community Action Agency in Coleman (Cristina Eureste)

- c. Authorization of the City Manager to negotiate and execute an amendment to the San Angelo Host concessionaire agreement for Point of Sale stations (Sidney Walker)
- d. Authorization of the City Manager to negotiate and execute an agreement and all related documents with the Southern Drag Boat Association (SDBA) for the annual Drag Boat Races at Lake Nasworthy (Carl White)
- e. Award of Task Order #14 under IDIQ contract ES-06-19 Engineering Services to SKG Engineering in the amount of \$127,700 for Foster Rd. Street and Drainage Design and authorizing the City Manager to execute all related documents (Shane Kelton)
- f. Award of Task Order #4 under IDIQ contract ES-06-19 Engineering Services to Kimley-Horn and Associates Inc. in an amount not to exceed \$76,200 for Traffic Signal Design Plans at Bryant Blvd. at Ave. L and Bryant Blvd. at Ave. N and authorizing the City Manager to negotiate and execute all related documents (Shane Kelton)
- g. Ratification of Change Order #1 to the Avenue P Stormwater Detention Basin Construction Agreement with Darnell Construction, correcting the contract amount approved November 17, 2020 from \$1,793,137 to the correct amount of \$2,610,557.40 and authorizing the City Manager to execute all related documents (Kevin Pate)
- h. Acceptance of an annexation petition for 9.508 acres of land, being 9.278 acres out of the Deaf and Dumb Asylums Lands Survey No. 2, Abstract No. 8211, and a 0.230 tract described and recorded in Instrument No. 201803309, Tom Green County, Texas, located southwest of Sherwood Way and FM 2288, and setting a Public Hearing on the annexation for the February 15, 2022 City Council meeting (Jon James)
- i. Second reading and adoption of an ordinance for Z21-04, a request for approval to expand the boundary of the Downtown District Overlay Zone, generally located north of Neff's Way, east of David St., south of 4th St., and west of Emerick St. (Jon James) (Pg. 519, 2021-227)
- j. Second reading and adoption of an ordinance amending the budget for the fiscal year beginning October 1, 2021, and ending September 30, 2022, for capital items and projects (Tina Dierschke) (Pg. 522, 2021-228)

Motion: Council Member Thomas made a motion, seconded by Council Member Gonzales, to approve the Consent Agenda. The motion carried unanimously (6) ayes to (0) nays, with no public comment.

6. Regular Agenda

- a. Award of AP-06-21 Terminal Ramp Reconstruction with Hensel Phelps Construction Co. in the amount of \$2,259,334.60 and authorizing the City Manager to negotiate and execute all related documents (Presentation made by Airport Director Jeremy Valgardson)

Hensel Phelps Project Manager Cody Edwards provided a timeline for the work and responded to questions about the availability of concrete and the disposal of existing concrete.

Motion: Council Member Gonzales made a motion, seconded by Council Member Hiebert, to approve the item, as presented. The motion carried unanimously (6) ayes to (0) nays, with no public comment.

- b. Adoption of a resolution allowing the adjacent property owner to remove a tree in the public right-of-way adjacent to 17 W. Beauregard Ave. per Section 7.02.034 of the City Code of Ordinances (Presentation made by Planning & Development Services Director Jon James) (Pg. 525, 2021-229)

Applicant Michelle Babiash responded to questions from City Council regarding the tree removal, sidewalk repair, and potential foundation issues. She stated she has the specifications of the landscape for Chadbourne (sizes, types of trees, etc.) and her landscape design will mirror the Chadbourne Street project.

President of the Firefighters Association Mason Matthews spoke regarding their desire to fix the portion of the sidewalk outside of their property (next door) and reiterated the current sidewalk causes many to fall in that area.

Citizen Sylvia Martinez (SMD3) expressed concern over fairness to all related to removing trees and opening businesses.

Motion: Council Member Thomas made a motion, seconded by Council Member Hiebert, to approve the item, with the clarification that the new tree will be the same specs as the South Chadbourne project and specifically the tree when planted will have the same appearance as the sketch presented today (specifically the size represented in the sketch). The motion carried unanimously (6) ayes to (0) nays.

- c. First reading and public hearing of an ordinance extending the temporary changes to Chapter 12, Article 12.04, Signs, of the City Code of Ordinances, to allow additional time for preparation of permanent amendments to the Sign Ordinance (Presentation made by Planning & Development Services Director Jon James)

Motion: Council Member Hiebert made a motion, seconded by Council Member Thomas, to approve the item, as presented. The motion carried unanimously (6) ayes to (0) nays, with no public comment.

- d. Discussion and possible action on the following redistricting items as a result of the 2020 Census:
 - 1. Public Hearing to receive comments from the public regarding redistricting and the proposed new boundaries for City of San Angelo City Council single member districts
 - 2. Discussion and possible action to consider and adjust proposed redistricting plans
 - 3. Discussion and adoption of a resolution approving the final redistricting plan (Presentation made by Planning & Development Services Director Jon James and City Clerk Julia Antilley) (Pg. 529, 2021-230)

Citizen Sherley Spears (SMD5) asked for an update on whether any follow-up discussions were held with the consultant, Robert Bass, and the citizens with concerns following the public forum December 2 regarding SMD3.

Citizen Kilo Perez (SMD1) expressed a lack of time and familiarity with the data and tools used by Mr. Bass and indicated with the Hispanic population being 97% of the increase in population since 2010, the Hispanic population of SMD3 should not be decreasing even by a small percentage. He pointed out the Hispanic representation increased in all other districts and expressed interest in hiring a new consultant for a second opinion since he does not trust the numbers presented. Some of his questions were answered December 2, but still does not trust the data.

Citizen Sherley Spears (SMD5) expressed concern that the residential development is moving south and is concerned for what the next Census will show in SMD3. She would like the consultant to take time to review the data with the citizens and show specific renderings of maps as alternate options to the redistricting.

Citizen Sylvia Martinez (SMD3) expressed a concern over the lack of elderly Hispanics voting in elections.

Citizen Nelda Nowlin (SMD1) expressed concern over the lack of street names on the maps from Mr. Bass.

Citizen David Cedillo (SMD3) echoed Mr. Perez and requested more consultant time and opinions for the people in SMD3.

Motion: Council Member Thomas made a motion, seconded by Council Member Hiebert, to approve the item, as presented. The motion carried unanimously (6) ayes to (0) nays.

- e. Adoption of a resolution designating the number of votes to be cast for each nominee for the Board of Directors of the Tom Green County Appraisal District (Presentation made by City Clerk Julia Antilley) (Pg. 533, 2021-231)

Motion: Council Member Hiebert made a motion, seconded by Council Member Miller, to designate the number of votes to be cast for each nominee of the Board of Directors of the Tom Green County Appraisal District to be divided equally amongst the five candidates and to approve the item, as presented. The motion carried unanimously (6) ayes to (0) nays, with no public comment.

- f. Adoption of a resolution calling and ordering a Special Election for January 29, 2022, authorizing the City Manager to execute a Special Election Contract with Tom Green County, and providing for the holding of an election to be administered by the Tom Green County Election Office (Presentation made by City Clerk Julia Antilley) (Pg. 535, 2021-232)

Motion: Council Member Thomas made a motion, seconded by Council Member Gonzales, to approve the item, as presented. The motion carried unanimously (6) ayes to (0) nays, with no public comment.

- g. Approval of a contract with the San Angelo Convention & Visitors Bureau (CVB) allocating \$965,000 of Hotel Occupancy Tax (HOT) receipts for eligible activities and authorizing the City Manager to negotiate and execute all related documents (Presentation made by Finance Director Tina Dierschke)

San Angelo Convention & Visitors Bureau Vice President Diann Bayes provided details on upcoming events coming to town and provided details on the breakdown between weekend/weekday travelers. She replied to questions on their budget and mentioned a potential HOT increase for the city from registered Airbnb's registered.

Finance Director Tina Dierschke clarified the additional \$47,000 in funding mentioned in the presentation was a carryover from the budget process.

Motion: Council Member Thompson made a motion, seconded by Council Member Thomas, to approve the item, as presented. The motion carried unanimously (6) ayes to (0) nays, with no public comment.

- h. Approval of the 2020 Consolidated Annual Performance and Evaluation Report (CAPER) (Presentation made by Neighborhood & Family Services Director Bob Salas)

Mayor Gunter spoke during public comment to inquire about the infill program funds.

Motion: Council Member Hiebert made a motion, seconded by Council Member Miller, to approve the item, as presented. The motion carried unanimously (6) ayes to (0) nays.

Quorum for Remainder of Meeting:

Mayor Brenda Gunter

Mayor Pro tem Tom Thompson, SMD 2

Council Member Tommy Hiebert, SMD 1

Council Member Harry Thomas, SMD 3

Council Member Larry Miller, SMD 6

7. Closed Session

Executive Session under the provision of Government Code, Title 5. Open Government; Ethics, Subtitle A. Open Government, Chapter 551. Open Meetings, Subchapter D. Exceptions to Requirement that Meetings be Open under the following sections:

- a. Section 551.072 - Deliberations about real property regarding:
 1. 2.3762 Acres Fisher & Miller, Survey 0173, Abstract 0205
 2. Portions of E J Wortham Survey 0001, Abstract 3945

8. Follow Up and Administrative Issues

- a. Consideration and possible action regarding items discussed in Closed Session, if needed

No Action Taken on this Item.

- b. Approval of various Board nominations:

Civic Events Advisory Board: Karen Abbott (SMD1) to a third term, and Clara Freeze (SMD6) to a second term, both ending December 2023

Keep San Angelo Beautiful: Sam Spooner (SMD3) to an unexpired term ending September 2022

Parks and Recreation Advisory Board: Cie Rangel (SMD2) and Mark Davis (SMD6) to a first term, both ending December 2023

Motion: Council Member Thompson made a motion, seconded by Council Member Hiebert, to approve the item, as presented. The motion carried unanimously (5) ayes to (0) nays, with no public comment.

- c. Announcements and consideration of Future Agenda Items

Mayor Gunter reminded everyone this is the only December meeting of the council and announced the next meeting will be January 4, 2022. She then wished everyone an enjoyable holiday season and a Merry Christmas.

9. Adjournment

Motion: Council Member Hiebert made a motion, seconded by Council Member Miller, to adjourn the meeting. The motion carried unanimously (5) ayes to (0) nays, with no public comment.

There being no further business, the meeting adjourned at 12:17 p.m.

THE CITY OF SAN ANGELO, TEXAS:

Brenda Gunter, Mayor

ATTEST:

Julia Antilley, City Clerk

In accordance with Chapter 2, Article 2.300, of the Official Code of the City of San Angelo, the minutes of this meeting consist of the preceding Minute Record and the Supplemental Minute Record. Details on Council meetings may be obtained from the City Clerk's Office or a video of the entire meeting may be purchased from the Public Information Officer at 481-2727. (Portions of the Supplemental Minute Record video tape recording may be distorted due to equipment malfunction or other uncontrollable factors.)

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Manda Salladay, Real Estate, Real Estate, 325-657-4407

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider authorizing the City Manager to sign all documents necessary to purchase Lot 16, Block 131, Fort Concho Addition, from City of San Angelo Development Corporation for stormwater services and for a price not to exceed \$1,000 (Manda Salladay, Bob Salas, and Shane Kelton)

Staff Recommendation:

Approve

Summary/History:

The stormwater division is requesting to purchase the vacant property identified as Lot 16, Block 131, Fort Concho Addition, commonly known as 10 W. Avenue Q, for stormwater runoff use.

Funding Source(s):

Financial Impact:

Purchase price \$1,000.00

Other Information/Recommendation:

Staff recommends acceptance of Lot 16, Block 131, Fort Concho Addition, commonly known as 10 W. Avenue Q from COSADC.

Attachments:

Presentation:

Manda Salladay

Approvals/Reviews:

Manda Salladay
Theresa James
Brandon Dyson
Shane Kelton
Bob Salas
Tina Dierschke
Julia Antilley

Created/Initiated
Approved
Approved
Approved
Approved
Approved
Final Approval

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Ryan Kramer, Sr. Fleet Manager, Fleet Services, 325-657-4329

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider awarding FS-01-22 Dump Trucks to TNTX Truck Group (San Angelo, TX) in the amount of \$128,677, for the purchase of one unit and authorizing the City Manager to negotiate and execute all related documents (Ryan Kramer)

Staff Recommendation:

Approve

Summary/History:

Bids were requested and received for the purchase of dump trucks. One response was received (TNTX Truck Group, San Angelo, TX). The unit purchased under this award will replace a unit that has exceeded its intended life expectancy or for use as needed.

Council approval is requested to purchase this unit at the price bid. Due to market inflation, only one truck is available at this price, with the chance that surcharges could be added before the truck is delivered. Council award of this item does allow up to a 20% increase. If pricing changes more than 20%, Council approval will be needed.

Since only one truck was offered in this bid, staff will publish the bid once again in order to attempt to secure bids for additional trucks of this type. Due to the current market instability and lack of ordering availability of dump trucks, Staff advises purchasing the dump truck offered at this time, nonetheless.

This RFB was sent to multiple local and out of town vendors, with one response received.

Funding Source(s):

Financial Impact:

Staff recommends award of FS-01-22 Dump Trucks to TNTX Truck Group (San Angelo, TX) in the amount of \$128,677, for the purchase of 1 unit.

Other Information/Recommendation:

Staff recommends award of FS-01-22 Dump Trucks to TNTX Truck Group (San Angelo, TX) in the amount of \$128,677, for the purchase of 1 unit.

Attachments:

- | | | |
|----|-------------------------|-----------------------------|
| 1. | FS-01-22 Bid Tabulation | FS-01-22 Bid Tabulation.pdf |
|----|-------------------------|-----------------------------|

Presentation:

Ryan Kramer

Approvals/Reviews:

Ryan Kramer

Patrick Frerich

Shane Kelton

Theresa James

Jeff Tomlinson

Tina Dierschke

Julia Antilley

Created/Initiated

Approved

Approved

Approved

Approved

Approved

Final Approval

**RFB Bid Tabulation**

FS-01-22 • Dump Trucks

Thursday, December 16, 2021

2:30 p.m.

TNTX TRUCK GROUP SAN ANGELO

Item Number	Item	Quantity Required	Unit Price	Comment
New and Unused 12 Yard Dump Truck (7)				
#1-1	New and Unused 12 Yard Dump Truck	2	\$ 124,995.00	NOTE:!! Only (1) stock unit available at this time. Stk#NL6221. 2022CY allocation will not be available unit January 1, 2022. Currently all units in Q1 and Q2 are sold out for 2022.
#1-2	Make and Model Quoted	0	\$ -	2022 M2-106
#1-3	Delivery Lead Time	0	\$ -	60 to 90 days from bid award to have bed built and mounted.
#1-4	Extended Warranty	1	\$ 2,182.00	Detroit DD8 Engine 5yr -100k miles - Allison RDS 300RDs 5 yr - Unlimited Miles (Closets Authorized Dealer for Allison is in Abilene, TX)
#1-5	Parts, Service, and Operator Manuals	1	\$ -	Drivers manuals in cab. Parts and Service Manuals available on line
#1-6	Rear Hitch System	1	\$ 1,500.00	40K capacity 3/4 plate
#1-7	Pre-Collision Assist	1	\$ -	Not available on this unit.

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Ryan Kramer, Sr. Fleet Manager, Fleet Services, 325-657-4329

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider awarding FS-02-22 Quarter Ton Pickups to Jim Bass Ford (San Angelo, TX) in the amount of \$156,470, for the purchase of five units with the option to purchase one additional unit and authorizing the City Manager to negotiate and execute all related documents (Ryan Kramer)

Staff Recommendation:

Approve

Summary/History:

Bids were requested and received for the purchase of quarter ton pickups. One vendor responded with two vehicles offered (Jim Bass Ford, San Angelo, TX). Units purchased under this award will replace units that have exceeded their intended life expectancy or for use as needed by multiple Departments. Funding for these purchases includes the General and Water Funds.

Award is requested for Alternate #1, a Nissan Frontier. Although the Ford Ranger is priced lower by approximately \$1,000 per unit, the estimated delivery time of the Nissan Frontier is preferred (30-32 weeks versus 90-120 days).

Council approval is requested to purchase 5 units with the option to purchase 1 additional unit due to unforeseen circumstances. This bid includes a second year escalation clause that would allow for purchases through FY23. Requirements of this escalation include pricing increases of 4% or less of the bid amount with no major changes to the specifications of the vehicle.

This RFB was sent to multiple local and out of town vendors, with one response received.

Funding Source(s):

Financial Impact:

Staff recommends award of FS-02-22 Quarter Ton Pickups to Jim Bass Ford (San Angelo, TX) in the amount of \$156,470, for the purchase of 5 units with the option to purchase 1 additional units. These funds are budgeted in FY22. This bid includes a second year escalation clause.

Other Information/Recommendation:

Staff recommends award of FS-02-22 Quarter Ton Pickups to Jim Bass Ford (San Angelo, TX), for the purchase of 5 units with the option to purchase 1 additional units.

Attachments:

1. FS-02-22 Bid Tabulation - Quarter Ton Pickups

FS-02-22 Bid Tabulation - Quarter Ton Pickups.pdf

Presentation:

Ryan Kramer

Approvals/Reviews:

Ryan Kramer
Patrick Frerich
Shane Kelton
Theresa James
Jeff Tomlinson
Tina Dierschke
Julia Antilley

Created/Initiated
Approved
Approved
Approved
Approved
Approved
Final Approval



RFB Bid Tabulation

FS-02-22 • Quarter Ton Pickups

Thursday, December 9, 2021 2:30 p.m.

			Jim Bass Ford			Jim Bass Ford - Alternate #1		
Item No.	Item	Quantity Requested	Unit Price	Extended Price	Comment	Unit Price	Extended Price	Comment
1/4 Ton Extended Cab (8)								
#1-1	A - 1/4 Ton Extended Cab	4	\$ 23,579.00	\$ 94,316.00	Yes	\$ 24,795.00	\$ 99,180.00	Yes
#1-2	Make and Model Quoted	0	\$ -	\$ -	2022 Ford Ranger XL Super Cab 4x2	\$ -	\$ -	2022 Nissan Frontier S 4x2 King Cab
#1-3	Delivery Lead Time	0	\$ -	\$ -	30-32 weeks	\$ -	\$ -	90-120 days
#1-4	Parts, Service, and Operators Ma	1	\$ 225.00	\$ 225.00	Yes	\$ 250.00	\$ 250.00	Yes
#1-5	Delivery	1	\$ -	\$ -	Yes	\$ -	\$ -	No charge
#1-6	Extended Warranty	1	\$ 3,499.00	\$ 3,499.00	Yes	\$ 3,499.00	\$ 3,499.00	Yes
#1-7	Power Locks, Windows, Mirrors, &	1	\$ 225.00	\$ 225.00	Power windows and locks are standard, this is cruise only.	\$ -	\$ -	Included
#1-8	8 Ply tires (price as all four tires) (	1	\$ 1,000.00	\$ 1,000.00	Yes	\$ 1,000.00	\$ 1,000.00	Yes
1/4 Ton Crew Cab (9)								
#2-1	B - 1/4 Ton Crew Cab	1	\$ 24,957.00	\$ 24,957.00	Yes	\$ 26,295.00	\$ 26,295.00	Yes
#2-2	Make and Model Quoted	0	\$ -	\$ -	2022 Ford Ranger XL Crew Cab 4x2	\$ -	\$ -	2022 Nissan Frontier S Crew Cab
#2-3	Delivery Lead Time	0	\$ -	\$ -	30-32 Weeks	\$ -	\$ -	90-120 days
#2-4	Parts, Service, and Operators Ma	1	\$ 225.00	\$ 225.00	Yes	\$ 250.00	\$ 250.00	Yes
#2-5	Delivery	1	\$ -	\$ -	Yes	\$ -	\$ -	N/C
#2-6	Extended Warranty	1	\$ 3,499.00	\$ 3,499.00	Yes	\$ 3,499.00	\$ 3,499.00	Yes
#2-7	Power Locks, Windows, Mirrors, &	1	\$ 225.00	\$ 225.00	Power windows and locks std. Cruise only added.	\$ -	\$ -	Included
#2-8	8 Ply tires (price as all four tires) (	1	\$ 1,000.00	\$ 1,000.00	Yes	\$ 1,000.00	\$ 1,000.00	Yes
#2-9	Four Wheel Drive	1	\$ 3,855.00	\$ 3,855.00	Yes	\$ 2,350.00	\$ 2,350.00	Yes

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Patrick Brody, Assistant Fire Chief, Fire Department, 325-657-4355 ext 300

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider awarding H-GAC contract #FS12-19 Fire Apparatus Pierce Enforcer to Siddons-Martin Emergency Group in the amount of \$1,258,890 for two 1500 GPM Triple Combination Pumpers and authorizing the City Manager to execute all related documents (Patrick Brody)

Staff Recommendation:

Approve

Summary/History:

The Fire Department is requesting authorization to purchase two Pierce Enforcer Triple Combination Pumpers from Siddons-Martin Emergency Group via H-GAC Contract #FS12-19 in the amount of \$1,258,890.00 and authorizing the City Manager or his designee to execute any related documents. The new apparatus acquisition will replace two 2008 triple combination pumpers. The new pumpers will be stationed at Fire Station #5 (3351 TLC Way) and station #3 (514 Smith Blvd). This purchase is budgeted through a capital allotment each year.

Funding Source(s):

Financial Impact:

Two new Triple Combination Pumpers, Pierce Enforcer from Siddons-Martin Emergency Group.

These items are budgeted from account 502-9000-800-07.41

Other Information/Recommendation:

Attachments:

- | | | |
|----|-----------------------------|---------------------------------|
| 1. | HGAC San Angelo Pierce 2021 | HGAC San Angelo Pierce 2021.pdf |
| 2. | Pierce ProposalOption 2021 | Pierce ProposalOption 2021.pdf |
| 3. | Pierce Doc 2021 | Pierce Doc 2021.pdf |

Presentation:

Patrick Brody

Approvals/Reviews:

Patrick Brody
Brian Dunn

Created/Initiated
Approved

Theresa James
Jeff Tomlinson
Tina Dierschke
Theresa James
Julia Antilley

Approved
Approved
Approved
Approved
Final Approval



Delivery Date:	16 - 17 Months ARO	G. Total Purchase Price (D+E+F):	\$1,258,890.00
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Pulse Number	Qty	Description	Published Options	Unpublished Options
102	1	Add Frame Liner Custom	\$1,902.00	
106	1	upgrade to 27,000# rear axle	\$2,295.00	
109	-1	TAK-4 Suspension	-\$17,788.00	
151	1	Aggressive Down shift	\$150.00	
159	1	Add Extended Bumper	\$2,448.00	
161	1	Bumper tray with cover	\$1,015.00	
170	1	Raised roof, custom cab	\$2,516.00	
174	1	Mounting plate on engine tunnel	\$529.00	
179	-1	Safety System	-\$10,601.00	
192	1	Cab Windows Factory Tint	\$528.00	
208	2	Spare 12 volt power (each)	\$292.00	
221	1	Camera System Rear only	\$1,140.00	
241	1	Kussmaul Pump plus	\$2,791.00	
245	1	Auto-eject 20 amp	\$567.00	
257	4	12 volt LED Scene - B	\$6,256.00	
258	-1	12 volt LED Flood Brow light A	-\$2,102.00	
278	-1	Additional Hosebed Divider	-\$559.00	
285	1	Long Pumper body	\$1,859.00	
292	1	Full Height - Depth Compartments	\$6,073.00	
293	1	Ladder Storage next to tank	\$5,077.00	
298	1	Increase Booster Tank to: 1000 Gallons	\$993.00	
310	10	Adjustable Compartment shelves	\$2,100.00	
312	1	Swing-out tool board	\$1,932.00	
314	3	Slide-out floor tray	\$2,649.00	
319	1	PegBoard in compartment	\$584.00	
320	2	Vertical Partition	\$560.00	
326	-2	SCBA Cylinder storage in fender panel double (each)	-\$1,886.00	
329	1	Extinguisher Compartment	\$702.00	
334	1	Increase Pump from 1250 to 1500 gpm	\$2,812.00	
338	1	Add Mechanical Seal to Pump	\$926.00	
342	1	add 2.5" suction inlet	\$1,320.00	
343	1	1.5" discharge front bumper	\$2,368.00	
345	-2	Preconnect 1.5" with 2.0" plumbing - Speed or cross	-\$5,084.00	
363	1	Provide (2) Speedlays w/ Tray's IPO Crosslay with Rollers	\$8,134.00	
378	1	Pierce Husky 3, Single Agent (3) discharges	\$10,732.00	
383	1	Foam Cell 40 Gallons	\$2,050.00	
387	1	Pierce Hercules CAFS to (5) Discharges	\$31,888.00	
391	1	Add Top Pump Control	\$8,844.00	
393	1	Tank level LED (Individual lights)	\$2,977.00	
420	1	Additional Speaker	\$676.00	
422	1	Q2B Siren	\$4,322.00	
428	1	Traffic Directing light bar "A"	\$1,610.00	
495	1	Two-tone Cab paint	\$2,341.00	
503	1	Graphics upgrade 1	\$1,973.00	
602320	1	Upgrade Lightbar		\$3,339.00
625184	7	Guard, Drip Pan, S/S, Rollup Door, Pumper		\$1,127.00
655320	1	Cover, Hose Bed, 2" Heavy Nylon Web, 6" Squares, Black		\$1,683.00
722696	1	Upgrade AC, CARE		\$2,315.00
725063	1	Dash, Heavy Duty Metal, Enforcer		\$1,755.00
764491	1	Upgrade Alternator, 420 amp, Leece-Neville BLP4003		\$1,282.00
Base Bid			\$530,667.00	
Published Options			\$89,911.00	
Total Published Options			\$620,578.00	

Unpublished Options	\$11,501.00	1.85%
Total Options w/o HGAC Fee	\$632,079.00	



Option List

10/26/2021

Customer: San Angelo FD
Representative Fuller, Ronald
Organization: Siddons-Martin Emergency Group
Requirements Manager:
Description: San Angelo Enforcer Pumper
Body: Pumper, Long, Aluminum, 2nd Gen
Chassis: Enforcer Chassis

Bid Number: 933
Job Number:
Number of Units: 2
Bid Date: 12/01/2021
Stock Number:
Price Level: 40 (Current: 40)
Lane:

Line	Option	Type	Option Description	Qty
1	0766611		Boiler Plates, Pumper	1
			Fire Department/Customer - San Angelo Fire Department	
			Operating/In conjunction W-Service Center - Operating	
			Miles - 150 Miles	
			Number of Fire Dept/Municipalities - 10	
			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	0649754		Enforcer Chassis	1
17	0000110		Wheelbase	1
			Wheelbase - 234.50	
18	0000070		GVW Rating	1
			GVW rating - 46,500	
19	0729280		Frame Rails, 13.38 x 3.50 x .375, Enforcer	1
20	0756525		Frame Liner, Internal "C" 12.50" x 3.00" x .25", XT/Vel/Imp,Enf Full Lgth, 56"Qv	1
21	0637911		Axle, Front, Dana, D-2000F, 20,000 lb Saber FR/Enforcer	1
22	0637913		Suspension, Front, Standens, Taper Leaf, 20,000 lb, Saber FR/Enforcer	1
23	0000321		Shock Absorbers on Front Axle, Monroe Magnum 65, Saber/Enforcer	1
24	0000322		Oil Seals, Front Axle	1
25	0582936		Tires, Front, Goodyear, G289 WHA, 315/80R22.50, 20 ply	1
26	0019575		Wheels, Front, Alcoa, 22.50" x 9.00", Aluminum, Hub Pilot	1
27	0640711		Axle, Rear, Dana S26-190, 27,000 lb Saber/Enforcer	1
28	0544253		Top Speed of Vehicle, 68 MPH	1
29	0565380		Suspen, Rear, Single Slipper Spring, 27,000 lb, Saber/Enforcer	1
30	0000485		Oil Seals, Rear Axle	1
31	0587216		Tires, Rear, Goodyear, G622 RSD, 12R22.50, 16 ply, Single	1
32	0019625		Wheels, Rear, Alcoa, 22.50" x 8.25", Aluminum, Hub Pilot, Single	1
33	0568081		Tire Balancing, Counteract Beads	1
34	0620570		Tire Pressure Monitoring, RealWheels, AirSecure, Valve Cap, Single Axle	1
			Qty, Tire Pressure Ind - 6	
35	0003245		Axle Hub Covers w/center hole, S/S, Front Axle	1
36	0057936		Covers, Lug Nut, Chrome	1
37	0002045		Mud Flap, Front and Rear, Pierce Logo	1
38	0544802		Chocks, Wheel, SAC-44-E, Folding	1
			Qty, Pair - 01	

Line	Option	Type	Option Description	Qty
39	0544806		Mounting Brackets, Chocks, SAC-44-E, Folding, Horizontal	1
			Qty, Pair - 01	
			Location, Wheel Chocks - Left Side Rear Tire, Forward and Rearward	
40	0010670		ABS Wabco Brake System, Single rear axle	1
41	0690932		Brakes, Bendix, ADB22X, 17" Disc, Front	1
42	0627930		Brakes, Bendix, Cam, Rear, 16.50 x 8.63"	1
43	0020784		Air Compressor, Brake, Cummins/Wabco 18.7 CFM	1
44	0644232		Brake Reservoirs, 4,272 Cubic Inch Minimum Capacity, Saber FR/Enforcer	1
45	0568012		Air Dryer, Wabco System Saver 1200, Heater, 2010	1
46	0000790		Brake Lines, Nylon	1
47	0000854		Air Inlet, w/Disconnect Coupling	1
			Location, Air Coupling(s) - a) DS Step Well, Forward	
			Qty, Air Coupling (s) - 1	
48	0736437		Engine, Cummins L9, 450 hp, 1250 lb-ft, W/OBD, EPA 2021, Saber FR/Enforcer	1
49	0001244		High Idle w/Electronic Engine, Custom	1
50	0687994		Engine Brake, Jacobs Compression Brake, Cummins Engine	1
			Switch, Engine Brake - e) ISC/ISM/ISL9/ISX Hi Med Lo	
51	0644227		Clutch, Fan, Air Actuated, Saber FR/Enforcer	1
52	0640477		Air Intake, Metal Screen, Saber FR/Enforcer	1
53	0794761		Exhaust System, 4", 2017 L9 Engine, Horizontal, Right Side	1
54	0788765		Radiator, Saber FR/Enforcer	1
55	0001090		Cooling Hoses, Rubber	1
56	0001125		Fuel Tank, 65 Gallon, Left Side Fill	1
57	0001129		Lines, Fuel	1
58	0595087		DEF Tank, 4.5 Gallon, DS Fill, Forward of Rear Axle	1
			Door, Material & Finish, DEF Tank - Polished Stainless	
59	0723716		Fuel Priming Pump, Electronic, Automatic, Cummins	1
60	0552712		Not Required, Shutoff Valve, Fuel Line	1
61	0699437		Cooler, Chassis Fuel, Not Req'd.	1
62	0690880		No Selection Required From This Category	1
63	0642572		Trans, Allison 5th Gen, 3000 EVS P, w/Prognostics, Imp/Vel/DCF/SFR/Enf	1
64	0625329		Transmission, Shifter, 5-Spd, Push Button, 3000 EVS	1
65	0684459		Transmission Oil Cooler, Modine, External	1
66	0024895		Mode, Downshift, Aggressive downshift to 2nd, w/engine brake, 5 speed	1
67	0001370		Driveline, Spicer 1710	1
68	0637248		Steering, Dual Gear, TRW TAS-65, w/tilt, Pump w/ Cooler, Saber FR/Enforcer	1
69	0605356		Steering Wheel, 4 Spoke without Controls, Saber FR/Enforcer	1
70	0690274		Logo/Emblem, on Dash	1
			Text, Row (1) One - San Angelo	
			Text, Row (2) Two - Fire	
			Text, Row (3) Three - Department	
71	0012245		Bumper, 19" Extended, Saber FR/Enforcer	1
72	0640197		Tray, Hose, Center, 19" Bumper, Outside Air Horns	1
			Grating, Bumper extension - Grating, Rubber	
			Capacity, Bumper Tray - 20) 125' of 1.75"	
73	0630809		Cover, Aluminum Treadplate, One (1) D-Ring Latch, Hose Tray, Notched	1
			Location - Centered	
			Stay arm, Tray Cover - b) Pneumatic Stay Arm	
74	0614646		No Lift & Tow Package, Imp/Vel, AXT, SFR/Enf	1
75	0002270		Tow Hooks, Chrome	1
76	0648332		Cab, Enforcer, 7010	1
77	0647919		Engine Tunnel, ISL, Saber FR/Enforcer	1
78	0633594		Rear Wall, Interior, Adjustable Seating	1
79	0632103		Rear Wall, Exterior, Cab, Saber FR/Enforcer	1
			Material, Exterior Rear Wall - Aluminum Treadplate	
80	0644201		Cab Lift, Elec/Hyd, Saber FR/Enforcer	1
81	0695930		Grille, Bright Finished, Front of Cab, Dash CF/Enforcer	1
82	0002224		Scuffplates, S/S At Cab Door Jambs, 4-Door Cab	1
			Material Trim/Scuffplate - c) S/S, Polished	
83	0647932		Not Required, Trim, S/S Band, Across Cab Face, AXT/Dash CF/Saber/Enforcer	1
84	0015440		No Chrome Molding, On side of cab	1
85	0521669		Mirrors, Retractable, West Coast Style, Htd/Rmt, w/Htd/Rmt Convex	1

Line	Option	Type	Option Description	Qty
86	0648170		Door, Half-Height, Saber FR/Enforcer 4-Door Cab, Raised Roof	1
			Key Model, Cab Doors - 751	
			Cab, Exterior Door Handle, Finish - 4-Door, Chrome/Black	
87	0655543		Door Panel, Brushed Stainless Steel, Saber/Enforcer 4-Door Cab	1
88	0528958		Not Required, Controls, Electric Window, AXT, Quantum, Saber, Enforcer, Dash CF	1
89	0638310		Steps, 4-Door Cab, Saber FR/Enforcer	1
			Step Well Material - Aluminum Treadplate	
90	0770194		Handrail, Exterior, Knurled, Alum, 4-Door Cab	1
91	0634786		Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	1
92	0002141		Fenders, s/s on cab - Saber/Enforcer	1
93	0637984		Window, Side of C/C, Fixed, Saber FR/Enforcer	1
94	0012090		Not Required, Windows, Front/Side of raised roof	1
95	0779033		Not Required, Windows Rear of Crew Cab, Saber FR/Enforcer	1
96	0786284		Window Tint, Behind Cab Door, Right Side, Privacy Dark Gray	1
97	0786279		Window Tint, Crew Cab Door, Right Side, Privacy Dark Gray	1
98	0786294		Window Tint, Upper Crew Cab Door, Left Side, Privacy Dark Gray	1
99	0786299		Window Tint, Behind Cab Door, Left Side, Privacy Dark Gray	1
100	0786290		Window Tint, Crew Cab Door, Left Side, Privacy Dark Gray	1
101	0786286		Window Tint, Upper Crew Cab Door, Right Side, Privacy Dark Gray	1
102	0725063		Dash, Heavy Duty Metal, Enforcer	1
103	0607217		Mounting Provisions, 3/16" Alum, Full Engine Tunnel, Saber FR/Enforcer	1
			Mounting Provision Spacing - .50"	
			Material Finish, Cab Interior - Painted	
104	0750824		Cab Interior, Vinyl Headliner, Saber FR/Enforcer, CARE	1
			Color, Cab Interior Vinyl/Fabric - Endure Vinyl - Silver/Gray	
			Engine Tunnel Cover - Painted	
			Cab Interior Rear Wall Material - Painted Aluminum	
105	0753903		Cab Interior, Paint Color, Saber FR/Enforcer	1
			Color, Cab Interior Paint - i) fire smoke gray	
106	0052100		Floor, Rubber Padded, Cab & Crew Cab, Saber/Enforcer	1
107	0722696		HVAC, Enforcer, CARE	1
			HVAC System, Filter Access - Removable Panel	
			Auxiliary Cab Heater - Both	
			HVAC System, Control Loc. - Panel Position #12	
			Plenum Cover Material - Metal, Painted	
108	0639675		Sun Visor, Smoked Lexan, AXT, Imp/Vel, Saber FR/Enforcer	1
			Sun Visor Retention - Thumb Latch	
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	0583039		Not Required, Side Roll and Frontal Impact Protection	1
113	0622617		Seating Capacity, 6 Seats	1
114	0632962		Seat, Driver, Bostrom, Sierra, Air Ride, High Back, Saber FR/Enforcer	1
			Bostrom, Zip Clean Cover - (0) None	
115	0632915		Seat, Officer, Bostrom Sierra, Air Ride, High Back, Saber FR/Enforcer	1
			Bostrom, Zip Clean Cover - (0) None	
116	0002517		Not Required, Radio Compartment	1
117	0632851		Seat, Rear Facing C/C, DS Outboard, Bostrom Sierra, Hi-Back, Saber FR/Enforcer	1
			Bostrom, Zip Clean Cover - (0) None	
118	0102783		Not Required, Seat, Rr Facing C/C, Center	1
119	0632847		Seat, Rear Facing C/C, PS Outboard, Bostrom Sierra, Hi-Back, Saber FR/Enforcer	1
			Bostrom, Zip Clean Cover - (0) None	
120	0108189		Not Required, Seat, Forward Facing C/C, DS Outboard	1
121	0632605		Seat, Forward Facing C/C, Center, (2) Bostrom Sierra, Hi-Back, Saber FR/Enforcer	1
			Bostrom, Zip Clean Cover - (0) None	
122	0108190		Not Required, Seat, Forward Facing C/C, PS Outboard	1
123	0042359		Upholstery, Seats In Cab, All Vinyl, Bostrom, CARE	6
			Color, Cab Interior Vinyl/Fabric - a) Silver/Gray	
			Qty, - 06	
124	0543991		Bracket, Air Bottle, Hands-Free II, Cab Seats	5
			Qty, - 05	

Line	Option	Type	Option Description	Qty
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	0548009		Wiring, Spare, 20 A 12V DC 1st	1
			Qty, - 01	
			12vdc power from - Battery direct	
			Wire termination - Butt Splice	
			Location, Spare Wiring - Officer Dash	
136	0686687		Wiring, Spare, 37.5 A 12V DC, Customer Install Radio, 30A Sw Bat, 7.5A Ign Grnd	1
			Qty, - 01	
			Location - Radio box under the officer seat	
137	0598394		Wiring, Spare, 30 A 12V DC, 6 Circuit Fuse Block, Blue Sea 5025 1st	2
			Qty, - 02	
			12vdc power from - Battery direct	
			Location - One behind the driver seat and one behind the officer seat.	
138	0763646		Vehicle Information Center, LCD On Gauge Cluster Only, Sab/Enf	1
			System Of Measurement - US Customary	
139	0734857		Collision Mitigation, HAAS Alert (R2V), HA5	1
			Subscription, HAAS R2V - R2V - 5 Year Data Plan Subscription	
140	0610240		Vehicle Data Recorder w/Seat Belt Monitor	1
141	0653530		Camera, Pierce, 7" LCD, R, RS, LS Cameras	1
			Location, Camera Monitor - Driver Side Dash	
142	0624241		Electrical Power/Signal Protection & Control, Enforcer	1
143	0624256		Electrical System, Enforcer Hard Wired	1
144	0079166		Batteries, (4) Exide Grp 31, 950 CCA ea, Threaded Stud	1
145	0008621		Battery System, Single Start, All Custom Chassis	1
146	0002698		Battery Compartment, Saber/Enforcer	1
147	0531338		Charger, Sngl Sys, Kussmaul, Pump Plus 1200, 52-21-1100	1
148	0012781		Location, Charger/Compr, Front left body compt	1
149	0530949		Location, Bat Chrg Ind, Driver's Seat Riser	1
150	0016857		Shoreline, 20A 120V, Kussmaul Auto Eject, 091-55-20-120, Super	1
			Qty, - 01	
			Color, Kussmaul Cover - b) red	
			Shoreline Connection - Battery Charger	
151	0026800		Shoreline Location	1
			Location, Shoreline(s) - DS Cab Side	
152	0764491		Alternator, 420 amp, Leece-Neville BLP4003	1
153	0644176		Load Manager, Integrated In Electrical System, Saber FR/Enforcer	1
154	0783153		Headlights, Rect LED, JW Spkr Evo 2, AXT/DCF/Enf/Imp/Sab/Vel	1
			Color, Headlight Bez - Chrome Bezel	
155	0775055		Light, Directional, Wln C6T* LED Arrow, Common Bzl, Above Headlts, Sab/Enf	1
			Color, Lens, LED's - Clear	
156	0620054		Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts	1
157	0735474		Lights, Clearance/Marker/ID, Front, P25 LED 7 Lts, Saber FR/Enforcer	1
			Light Guard - No Guards	
158	0647899		Lights, Directional/Marker, Cab Front Side, Weldon 9186-8580-29 LED, Sab/Enf	1
159	0627282		Lights, Clearance/Marker/ID, Rear, FRP LED Bar & P25 LED 4Lts	1
160	0564683		Lights, Tail, Wln M6BTT* Red LED Stop/Tail & M6T* Amber LED Dir Arw For Hsg	1
			Color, Lens - Colored	

Line	Option	Type	Option Description	Qty
161	0561471		Lights, Backup, WIn M6BUW, LED, For Tail Lt Housing	1
162	0664481		Bracket, License Plate & Light, P25 LED	1
163	0556842		Bezels, WIn, (2) M6 Chrome Pierce, For mtg (4) WIn M6 lights	1
164	0589905		Alarm, Back-up Warning, PRECO 1040	1
165	0626588		Lights, Perimeter Cab, TecNiq T10-LC00-1 15" LED 4Dr	1
166	0616845		Lights, Perimeter Pump House, TecNiq T10-LC00-1 15" LED 4lts	1
167	0626579		Lights, Perimeter Body, TecNiq T10-LC00-1 15" LED 2lts, Rear Step	1
			Control, Perimeter Lts - Parking Brake Applied	
168	0556360		Lights, Step, P25 LED 4lts, Pump Pnl Sw	1
169	0768061		Lights, WIn, PCPSM2* Pioneer, 12 VDC, 1st	2
			Location - above the side windows on each side of the cab	
			Qty, - 02	
			Color, WIn Lt Housing - Chrome Cover	
			Control, Scene Lts - DS Scene Lts	
170	0763610		Lights, WIn, PCPSM2*, Pioneer, 12 VDC, 1st	2
			Location - one on each side centered above compartments LS-2 and RS-	
			2	
			Qty, - 02	
			Color, WIn Lt Housing - Chrome Cover	
			Control, Scene Lts - Cab Sw Panel DS	
171	0689891		Lights, Deck, WIn (2) PFBP12C LED Rear Flood Lights	1
			Switch, Scene Lt Cntrl - h)switch at rear	
172	0645877		Lights, Hose Bed, Sides, Dual LED Light Strips	1
			Control, Hose Bed Lts - Cup Switch At Rear	
173	0645681		Lights, Not Required, Rear Work, Deck Lights At Rear	1
174	0709438		Light, Walking Surf, FRP Flood, LED	1
175	0060016		Pumper, Long, Aluminum, 2nd Gen	1
176	0554271		Body Skirt Height, 20"	1
177	0028299		Tank, Water, 1000 Gallon, Poly, Long	1
178	0003405		Overflow, 4.00" Water Tank, Poly	1
179	0028104		Foam Cell Required	1
180	0633066		Sleeve, Through Tank	1
			Qty, Sleeve - 1	
			Water Tank Sleeve - Plumbing/Hydraulic Diameter - 3" Plumbing	
181	0553729		Not Required, Restraint, Water Tank, Heavy Duty	1
182	0003429		Not Required, Direct Tank Fill	1
183	0003424		Not Required, Dump Valve	1
184	0048710		Not Required, Jet Assist	1
185	0030007		Not Required, Dump Valve Chute	1
186	0514778		Not Required, Switch, Tank Dump Master	1
187	0126633		Hose Bed, Aluminum, Pumper	1
188	0723545		Unpainted/Dual Action Finished Aluminum Hose Bed, 2G Pumper/Tankers	1
189	0627877		Hose Bed Capacity, 1000' of 5.00", 1000' of 3.00"	1
190	0003488		Divider, Hose Bed, Unpainted	1
			Qty, Hosebed Dividers - 1	
191	0589278		Hose Restraint, Hose Bed, Velcro Strap on Top, 2" Heavy Nylon Web at Rear	1
			Type of fastener - seat belt buckle	
			Nylon Web Color - Black	
			Type of fastener, Rear - seat belt buckle - bottom of hosebed	
192	0010133		Cross-Divider, Hose Bed	1
193	0655320		Cover, Hose Bed, 2" Heavy Nylon Web, 6" Squares, Black	1
			Type of fastener - Lift-a-dot - Sides of Hosebed	
			Type of fastener, Rear - seat belt buckle - bottom of hosebed	
			Type of fastener, Front - Awning rail (aluminum retainer) - Front Hosebed	
194	0013512		Running Boards, 12.75" Deep	1
195	0689621		Tailboard, 16" Deep	1
196	0690037		Wall, Rear, Smooth Aluminum/Body Material	1
			Material, Rear Wall Inboard Facing Surfaces - Aluminum Diamondplate	
197	0003531		Tow Bar, Under Tailboard	1
198	0003561		Construction, Compt, Alum, Pumper	1
199	0063662		LS 161" Rollup, Full Height Front & Rear, FDLER	1
200	0063669		RS 161" Rollup, Full Height Front & Rear, FDLER	1

Line	Option	Type	Option Description	Qty
201	0796649		Doors, Rollup, ROM Series IV, Side Compartments	7
			Qty, Door Accessory - 07	
			Color, Roll-up Door - ROM Series IV Painted to Match Lower Body	
			Latch, Roll-up Door - Non-Locking Liftbar	
202	0083701		Compt, Rear, Rollup, 44.50" FF, 25.88" D	1
203	0791760		Door, ROM Series IV, Rollup, Rear Compartment	1
			Color, Roll-up Door - ROM Series IV Satin Finish	
			Latch, Roll-up Door - Non-Locking Liftbar	
204	0554995		No Body Modification Required	1
205	0625184		Guard, Drip Pan, S/S, Rollup Door, Pumper	7
			Qty, Door Accessory - 07	
			Location, Door Guard/Drip Pan - LS1, LS2, LS3, RS1, RS2, RS3 and B1	
206	0616670		Lights, Compt, Pierce LED, Dual Light Strips, Each Side of Door, Pumper/Tanker	7
			Qty, - 07	
			Location, Compartment Lights - All Body Compts	
207	0687146		Shelf Tracks, Painted	7
			Qty, Shelf Track - 07	
			Location, Shelf Track - LS1, LS2, LS3, RS1, RS2, RS3 and B1	
208	0600350		Shelves, Adj, 500 lb Capacity, Full Width/Depth, Predefined Locations	10
			Qty, Shelf - 10	
			Material Finish, Shelf - Painted - Spatter Gray	
			Location, Shelves/Trays, Predefined - LS1-Transition Point, RS1-Transition Point, RS3-Transition Point, RS2-Centered, RS3-Upper Third, RS1-Upper Third, LS3-Upper Third, LS1-Upper Third, LS3-Transition Point and B1-Upper Third	
209	0647091		Tray, Floor Mounted, Slide-Out, 500lb, 2.00" Sides	3
			Qty, - 03	
			Location, Tray Slide-Out, Floor Mounted - LS1, B1 and LS3	
			Material Finish, Tray - Painted - Spatter Gray	
210	0540317		Toolboard, Swing-out, Alum, .188", Peg Board	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	
211	0726401		Partition, Trans Rear Compt, Sealed	2
			Qty, Partition - 02	
			Location, Partition - c) both sides	
			Material Finish, Partition - Painted - Spatter Gray	
212	0755638		Pegboard, Back Wall Mounted, 3/16" Alum, Full Height Compt	1
			Qty, Comp. Accessory - 01	
			Hole Diameter, Pegboard/Toolboard - .203" diameter	
			Finish, Pegboard/Toolboard - Painted - Spatter Gray	
			Location, Compartment, Predefined - LS2	
213	0024016		Rub Rail, Aluminum Extruded, Side & Rear of Body	1
214	0784811		Fender Crowns, Rear, Stainless, w/Removable Liner	1
			Material Finish, Fender Liner - Brushed Stainless	
215	0519849		Not Required, Hose, Hard Suction	1
216	0625546		Handrails, Top Mount Pump Panel, Per Print	1
217	0004126		Handrails, Beavertail, Standard	1
218	0004146		Handrail, Rear, Below Hose Bed, Full Width	1
219	0657651		Compt, Air Bottle, Double, Full Width Door, Fender Panel	2
			Qty, Air Bottle Comp - 2	
			Door Finish, Fender Compt - Polished	
			Location, Fender Compt - Double - LS Fwd and Double - RS Fwd	
			Latch, Air Bottle Compt - Southco C2 Chrome Raised	
			Insert, Air Bottle Compt - Rubber Matting	
220	0637785		Compt, Extinguisher in Fender Panel, 9.00" Square	1
			Qty, - 01	
			Door Finish, Fender Compt - Polished	
			Location, Fender Compt - Single - RS Rear	
			Latch, Air Bottle Compt - Southco C2 Chrome Raised	
			Insert, Air Bottle Compt - Rubber Matting	

Line	Option	Type	Option Description	Qty
221	0004225		Ladder, 24' Duo-Safety 900A 2-Section	1
222	0004230		Ladder, 14' Duo-Safety 775A Roof	1
223	0049958		Ladders Btwn Tank & S.Sht, RS, Ext'd Rr, Encl'd Complete, RPH	1
			Door, Material & Finish, Ladder Storage - smooth aluminum	
			Latch, Door Ladder Storage - D-Handle latch	
			Hinge Location - Left Side	
224	0733387		Ladder, 10' Duo-Safety Folding 585A	1
225	0733796		Trough, Folding Ladder, Ladder Storage Btwn Tank & S.Sht	1
			Location, Left Side, Right Side - Right Side	
226	0602877		Pike Pole, Pumper, Provided by Fire Department, NFPA 2016	1
			Pike Pole Make/Model - Duo-Safety 10' Pike Pole	
227	0760175		Tube, Pike Pole 8' or Longer, Btwn Tank & S.Sht Ladder Storage	1
			Qty, Pike Poles - 1	
			Location, Left Side, Right Side - Right Side	
			Width, Notch, Pike Pole Tube - .75", Standard Notch	
228	0602875		Pike Pole, 6', Pumper, Provided by Fire Department, NFPA 2016	1
			Pike Pole Make/Model - Duo-Safety 6' Pike Pole	
229	0760247		Tube, Pike Pole 6', Btwn Tank & S.Sht Ladder Storage	1
			Qty, Pike Poles - 1	
			Location, Left Side, Right Side - Right Side	
			Width, Notch, Pike Pole Tube - .75", Standard Notch	
230	0591804		Step, Folding, Front of Body, Left Side Only, Trident	1
			Coating, Step - black	
231	0592994		Steps, Folding, Rear of Body, w/LED, Trident	1
			Coating, Step - black	
232	0005509		Pump House, Top Mount, 52", w/19" Walkway	1
			Light, Walkway Compt - P25 LED	
			Light, Walkway - P25 LED, 6lts	
233	0045500		Raise Pump House Structure, Top Control	1
234	0004425		Pump, Waterous, CSU, 1500 GPM, Single Stage	1
235	0004482		Seal, Mechanical, Waterous	1
236	0559769		Trans, Pump, Waterous C20 Series	1
237	0635600		Pumping Mode, Stationary Only	1
238	0605126		Pump Shift, Air Mnl Override, Split Shaft, Interlocked, Waterous	1
239	0003148		Transmission Lock-up, EVS	1
240	0004547		Auxiliary Cooling System	1
241	0014486		Not Required, Transfer Valve, Stage Pump	1
242	0746508		Valve(s), Relief Intake, Trident Air Max, Control Location	1
			Qty - 1	
			Pressure Setting - 125 psig	
			Intake Relief Valve Control - Behind Left Side Pump Panel	
243	0794959		Controller, Pressure, Pierce, Pump Boss, PBA300	1
244	0072153		Primer, Trident, Air Prime, Air Operated	1
245	0780364		Manuals, Pump, (2) Total, Electronic Copies	1
246	0603129		Plumbing, Stainless Steel and Hose, Single Stage Pump	1
247	0795135		Plumbing, Stainless Steel, w/Foam System	1
248	0004645		Inlets, 6.00" - 1250 GPM or Larger Pump	1
249	0014650		Pump Suction Tube(s), Short, All	1
250	0004646		Cap, Main Pump Inlet, Long Handle, NST, VLH	1
251	0084610		Valves, Akron 8000 series- All	1
252	0004687		Valve, Inlet(s) Recess, Top Mount	1
253	0004710		Control, Inlet, at Top Mount Panel	1
			Qty, Inlets - 1	
254	0004660		Inlet (1), Left Side, 2.50"	1
255	0723551		Inlet (1), Right Side, 2.50"	1
256	0092569		No Rear Inlet (Large Dia) Requested	1
257	0064116		No Rear Inlet Actuation Required	1
258	0092696		Not Required, Cap, Rear Inlet	1
259	0009648		No Rear Intake Relief Valve Required on Rear Inlet	1
260	0092568		No Rear Auxiliary Inlet Requested	1
261	0563738		Valve, .75" Bleeder, Aux. Side Inlet, Swing Handle	1
262	0029043		Tank to Pump, (1) 3.00" Valve, 3.00" Plumbing	1

Line	Option	Type	Option Description	Qty
263	0004905		Outlet, Tank Fill, 1.50"	1
264	0062133		Control, Outlets, Manual, Pierce HW if applicable	1
265	0004940		Outlet, Left Side, 2.50"	2
			Qty, Discharges - 02	
266	0005091		Elbow, Left Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	1
267	0092570		Not Required, Outlets, Left Side Additional	1
268	0035094		Not Required, Elbow, Left Side Outlets, Additional	1
269	0004945		Outlet, Right Side, 2.50"	1
			Qty, Discharges - 01	
270	0025091		Elbow, Right Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	1
271	0092571		Not Required, Outlets, Right Side Additional	1
272	0089584		Not Required, Elbow, Right Side Outlets, Additional	1
273	0651551		Outlet, 5" w/4" Left, Handwheel	1
			Valve, Brand - Akron	
274	0005099		Elbow, Large Dia Outlet, 30 Deg, 5.00" FNST x 5.00" Storz	1
275	0649939		Outlet, Front, 1.50" w/2" Plumbing	1
			Fitting, Outlet - 1.50" NST with 90 degree swivel	
			Drain, Front Outlet - Automatic	
			Location, Front, Single - top of left bumper	
276	0004995		Outlet, Rear, 2.50"	1
			Qty, Discharges - 01	
			Location, Outlet - b) left side	
277	0045091		Elbow, Rear Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	1
278	0092574		Not Required, Outlet, Rear, Additional	1
279	0085695		Not Required, Elbow, Rear Outlets, Large, Additional	1
280	0092573		Not Required, Outlet, Hose Bed/Running Board Tray	1
281	0752097		Caps/Plugs for 1.00" to 3.00" Discharges/Inlets, Chain	1
282	0563739		Valve, 0.75" Bleeder, Discharges, Swing Handle	1
283	0005065		Outlet, 3.00" Deluge Riser	1
284	0770359		No Monitor Requested, Customer/Dealer Furnished and Installed	1
			Fill in Blank - Customer will purchase and install after delivery.	
285	0029304		No Nozzle Req'd	1
286	0005070		Deluge Mount, NPT	1
287	0723726		Speedlay Module Not Required	1
288	0722432		Hose Restraint Not Required, No Speedlay Module	1
289	0723395		Speedlays, Not Required	1
290	0723394		Speedlays, Not Required	1
291	0025140		Not Required, 1.50" Crosslays	1
292	0029196		Not Required, 2.50" Crosslay	1
293	0500535		Not Required, Hose Restraint, Crosslay	1
294	0064896		Speed, (2) 1.50" W/ Poly Tray, Top Mt/Side Cntrl, Std. Cap.	1
295	0752403		Hose Restr, Spdly, 2"Nylon Web, Bottom Anchored	1
			Fastener, Hose Restraint - 2.00" Cam Buckle	
296	0624939		Foam Sys, Husky 3, Single Agent, Multi Select Feature	1
			Discharge, Foam Locations - Front Bumper Center, Rear Outlet Left	
			Side, Left Side Outlet, Right Side Outlet, Crosslay Lower and Crosslay Upper	
297	0769686		Hercules CAFS, 200 CFM, PTO Drive, w/Features	1
			Amount of Disch. W/Hercules CAFS - 5	
			Discharge, Outlet Locations - Crosslay Front, Crosslay Rear, Front	
			Bumper Center and Left Side 2.5" & Right Side 2.5" discharges	
			Location, Side - Left	
			CAFS Air Flow Meter - Air Flow Meter Required	
			CAFS Air Outlet Fittings - 1.00" FNST Swivel	
			CAFS Air Outlet Fitting Mating - 1.00" MNST x 1.00" NPT	
298	0592527		Refill, Foam Tank, Integral, Husky 3	1
299	0553150		Demonstration, Foam System and CAFS, Dealer Provided, Siddons-Martin	1
			Emergency	
300	0005448		Foam Cell, 40 Gallon, Not Reduce Water	1
			Type of Foam - Class "A"	
			Foam, Brand Name - Chem-Guard Extreme	
301	0697589		Drain, 1.00", Foam Tank #1, Husky 3 Foam System, Quarter Turn	1
302	0091079		Not Required, Foam Tank #2	1
303	0091112		Not Required, Foam Tank #2 Drain	1

Line	Option	Type	Option Description	Qty
304	0738072		Approval Dwg, Pump Panel(s), Not Required	1
305	0035570		Pump Panel Configuration, No Match Required	1
306	0629253		Material, Pump Panels, Top Control Black Vinyl, Side Panels Black Vinyl	1
			Material Finish, Pump Panel, Side Control - Black Vinyl	
			Material, Pump Panel, Side Control - Aluminum	
			Material, Pump Panel, Top Control - Aluminum	
			Material Finish, Pump Panel, Top Control - Black Vinyl	
307	0035574		Panel, Pump Access - Both Sides	1
308	0583824		Light, Pump Compt, Wln 3SC0CDCR LED White	1
			Qty, - 01	
309	0586382		Gauges, Engine, Included With Pressure Controller	1
310	0005601		Throttle, Engine, Incl'd w/Press Controller	1
311	0739224		Indicator Light @ Pump Panel, Throttle Ready, Incl w/Pressure Gov/Throttle,Green	1
312	0549333		Indicators, Engine, Included with Pressure Controller	1
313	0745568		Indicator Light, Pump Panel, Ok To Pump, Green	1
314	0511078		Gauges, 4.00" Master, Class 1, 30"-0-600psi	1
315	0511100		Gauge, 2.00" Pressure, Class 1, 30"-0-400psi	1
316	0062586		Gauge, Water Level, Class 1, Pierce Std	1
317	0062992		Gauge, Foam Level, (1) Tank, Class 1, GAAAR 5lt	1
318	0648885		Light Shield, Top Mt, LED Strip Lights	1
319	0606697		Air Horns, (2) Grover, In Bumper	1
320	0606835		Location, Air Horns, Bumper, Each Side, Outside Frame, Outboard (Pos #1 & #7)	1
321	0016065		Control, Air Horn, Horn Ring, PS Chrome Push Button	1
322	0525667		Siren, Wln 295SLSA1, 100 or 200 Watt	1
323	0510206		Location, Elect Siren, Recessed Overhead In Console	1
			Location, Elec Siren - Overhead, DS Center Sw Pnl	
324	0076156		Control, Elec Siren, Head Only	1
325	0601304		Speaker, (2) Wln, SA315P, w/Pierce Polished Stainless Steel Grille, 100 watt	1
			Connection, Speaker - siren head	
326	0601559		Location, Speaker, Frt Bumper, Recessed, Each Side, Inside Frame (Pos 3 & 5)	1
327	0895310		Siren, Federal Q2B	1
			Finish, Q2B Siren - Chrome	
328	0006095		Siren, Mechanical, Mounted Above Deckplate	1
			Location, Siren, Mech - a) Left	
329	0748305		Control, Mech Siren, Multi Select	1
330	0748282		Control Mech Siren, Ft Sw LS	1
331	0740391		Sw, Siren Brake, Momentary Chrome Push Button, RS	1
332	0746353		Not Required, Warning Lights Intensity	1
333	0602320		Lightbar, Wln, Freedom IV-Q, 72", RRBWBR_Opt_RBWBR	1
			Opticom Priority - b) High	
			Opticom Activation - Cab Switch & E-Master	
			Momentary Opticom Activation - No Activation	
			Filter, Whl Freedom Ltbrs - No Filters	
334	0016380		No Additional Lights Req'd, Side Zone Upper	1
335	0540384		Lights, Front Zone, Wln M6*C LED, Clear Lens, in Common Bzl	1
			Color, Lt DS Front - Red	
			Color, Lt PS Front - Blue	
336	0653937		Flasher, Headlight Alternating	1
			Headlt flash deactivation - a)w/high beam	
337	0540679		Lights, Side Zone Lower, Wln M6*C LED, Clear Lens 2pr	1
			Location, Lights Front Side - b)each side bumper	
			Color, Lt Side Front - Red	
			Color, Lt Side Rear - Blue	
			Location, Lights Rear Side - Over Rear Wheels	
338	0564655		Lights, Rear Zone Lower, Wln M6*C LED, Clear Lens, For Tail Lt Housing	1
			Color, Lt DS Rear - r) DS Rear Lt Red	
			Color, Lt PS Rear - r) PS Rear Lt Red	
339	0088745		Light, Rear Zone Up, Wln L31HRFN LED Beacon, Red LED	1
			Color, Dome, Rear Warning - j) both domes clear	
340	0006551		Not Required, Lights, Rear Upper Zone Blocking	1
341	0006615		Mtg, Rear Warn Lts, On Top of Compt	1

Line	Option	Type	Option Description	Qty
342	0791528		Light, Traffic Directing, WIn TAL65, 36.00" Long, TACTL5	1
			Activation, Traffic Dir L - Not Connected	
343	0551728		Location, Traf Dir Lt, Recessed with S/S Trim	1
344	0530282		Location, Traf Dir Lt Controller, Overhead Switch Panel DS Right End	1
345	0519934		Not Required, Brand, Hydraulic Tool System	1
346	0649753		Not Required, PTO Driven Hydraulic Tool System	1
347	0007150		Bag of Nuts and Bolts	1
			Qty, Bag Nuts and Bolts - 1	
348	0602516		NFPA Required Loose Equipment, Pumper, NFPA 2016, Provided by Fire Department	1
349	0602407		Soft Suction Hose, Provided by Fire Department, Pumper NFPA 2016 Classification	1
350	0027023		No Strainer Required	1
351	0602538		Extinguisher, Dry Chemical, Pumper NFPA 2016 Class, Provided by Fire Department	1
352	0602360		Extinguisher, 2.5 Gal. Pressurized Water, Pumper NFPA 2016, Provided by Fire Dept	1
353	0602679		Axe, Flathead, Pumper NFPA 2016 Classification, Provided by Fire Department	1
354	0602667		Axe, Pickhead, Pumper NFPA 2016 Classification, Provided by Fire Department	1
355	0741569		Paint Process / Environmental Requirements, Appleton	1
356	0709566		Paint, Two-Tone Color, Enforcer	1
			Paint Color, Upper Area, Predefined - #10 White	
			Shield, Cab - Standard Shield	
			Paint Color, Lower Area, Predefined - #90 Red	
			Paint Break, Cab - Standard Two-Tone Cab Break	
357	0709845		Paint, Single Color, Body	1
			Paint, Body - Match Lower Cab	
358	0646901		Paint Chassis Frame Assy, With Liner, E-Coat, Standard	1
			Paint Color, Frame Assembly, Predefined - Standard Black	
359	0693797		No Paint Required, Aluminum Front Wheels	1
360	0693792		No Paint Required, Aluminum Rear Wheels	1
361	0733739		Paint, Axle Hubs	1
			Paint, Axle Hub - Black #101	
362	0007230		Compartment, Painted, Spatter Gray	1
363	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	
364	0007356		Reflective across Cab Face	1
365	0536954		Stripe, Chevron, Rear, Diamond Grade, Pumper	1
			Color, Rear Chevron DG - fluorescent yellow green	
366	0065687		Stripe, Reflective, Cab Doors Interior	1
			Color, Reflective - a) white	
367	0680371		Stripe, Gold Leaf, Two-Tone Paint Break with Shield, IPO Chrome Molding	1
368	0027372		Lettering Specifications, (GOLD STAR Process)	1
369	0686428		Lettering, Gold Leaf, 3.00", (41-60)	1
			Outline, Lettering - Outline and Shade	
370	0017268		Decals, Customer furnished, Pierce installed, Per Pair	2
			Qty, - 02	
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	0696698		Warranty, Engine, Cummins, 5 Year, WA0181	1
376	0684952		Warranty, Steering Gear, TRW Ross TAS, 1 Year WA0202	1
377	0596017		Warranty, Frame, 50 Year, Custom Chassis, WA0013	1
378	0610471		Warranty, Axle, Eaton/Dana, 5 Year/100,000 Mile, Parts and Labor	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	0744240		Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	1
383	0695416		Warranty, Pierce Camera System, WA0188	1

Line	Option	Type	Option Description	Qty
384	0647720		Warranty, Pierce LED Strip Lights, WA0203	1
385	0046369		Warranty, 5-year EVS Transmission, Standard Custom, WA0187	1
386	0685945		Warranty, Transmission Cooler, WA0216	1
387	0688798		Warranty, Water Tank, Lifetime, UPF, Poly Tank, WA0195	1
388	0596025		Warranty, Structure, 10 Year, Body, WA0009	1
389	0681118		Warranty, ROM, Roll-up Door, 7 Year, WA0206	1
390	0734463		Warranty, Pump, Waterous, 7 Year Parts, WA0382	1
391	0648675		Warranty, 10 Year S/S Pumbing, WA0035	1
392	0657990		Warranty, Foam System, Husky 3, WA0231	1
393	0595820		Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	1
394	0595421		Warranty, Goldstar, 3 Year, Apparatus, WA0018	1
395	0683627		Certification, Vehicle Stability, CD0156	1
396	0736238		Certification, Engine Installation, Saber FR/Enf, Cummins L9, 2021	1
397	0686786		Certification, Power Steering, CD0098	1
398	0631980		Certification, Cab Integrity, Saber FR/Enforcer, CD0130	1
399	0631973		Certification, Cab Door Durability, Saber FR/Enforcer, CD0137	1
400	0631978		Certification, Windshield Wiper Durability, Saber FR/Enforcer, CD0132	1
401	0556828		Certification, Electric Window, Not Available	1
402	0631977		Certification, Seat Belt Anchors and Mounting, Saber FR/Enforcer, CD0134	1
403	0735949		Certification, Cab HVAC System Performance, SFR/Enf, CD0165/CD0167/CD0174/CD0175	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	0000018		PUMPER, 2ND GEN	1
408	0000012		PIERCE CHASSIS	1
409	0004713		ENGINE, OTHER	1
410	0046395		EVS 3000 Series TRANSMISSION	1
411	0020011		WATEROUS PUMP	1
412	0020009		POLY TANK	1
413	0028048		FOAM SYSTEM	1
414	0020005		TOP MOUNT	1
415	0020007		AKRON VALVES	1
416	0020015		ABS SYSTEM	1
417	0658751		PUMPER BASE	1

Proposal for **San Angelo FD**

Prepared by **Siddons-Martin Emergency Group**

10/26/2021



PERFORM. LIKE NO OTHER.™

San Angelo

Fire

Department

Siddons-Martin Emergency Group is pleased to submit a proposal to San Angelo Fire Department for a **Pierce® triple combination pumper** 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 an 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 ten (10) 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 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 one hundred fifty (150) 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 policies 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 policies 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, approve, 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, approve, 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.

WHEELBASE

The wheelbase of the vehicle will be 234.50.

GVW RATING

The gross vehicle weight rating will be 46,500.

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 have a 13.38" tall web over the front and mid sections of the chassis, with a continuous smooth taper to 10.75" over the rear axle. Each rail will have a section modulus of 25.992 cubic inches and a resisting bending moment (rbm) of 3,119,040 in-lb over the critical regions of the frame assembly, with a section modulus of 18.96 cubic inches with an rbm of 2,275,200 in-lb over the rear axle. The frame rails will be constructed of 120,000 psi yield strength heat-treated 0.38" thick steel with 3.50" wide flanges.

FRAME REINFORCEMENT

In addition, a full-length mainframe internal "C" liner will be provided. The liner will be an internal "C" design that steps to a smaller internal "C" design over the rear axle. It will be heat-treated steel measuring 12.50" x 3.00" x 0.25" through the front "C" portion of the liner, stepping to 9.38" x 3.00" x 0.25" through the rear "C" portion of the liner. Each liner will have a section modulus of 13.58 cubic inches, yield strength of 110,000 psi, and rbm of 857,462 in-lb. Total rbm at wheelbase center will be 4,391,869 in-lb.

The frame liner will be mounted inside of the chassis frame rail and extend the full length of the frame.

FRONT AXLE

The front axle will be a reverse "I" beam type with inclined king pins. It will be a Dana axle, Model D-2000F, with a rated capacity of 20,000 lb.

FRONT SUSPENSION

The front springs will be a Standens, three (3)-leaf, taper leaf design, 54.00" long x 4.00" wide, with a ground rating of 20,000 lb.

The two (2) top leaves will wrap the forward spring hanger pin. The top leaf will also wrap the rear spring hanger pin. Both the front and rear eyes will be Berlin style wraps that will place the eyes in the horizontal plane within the main leaf. This will reduce bending stress from acceleration and braking.

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.

SHOCK ABSORBERS

To provide a smoother ride, the front axle will be furnished with heavy-duty telescoping shock absorbers.

FRONT OIL SEALS

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

FRONT TIRES

Front tires will be Goodyear® 315/80R22.50 radials, 20 ply G289 WHA tread, rated for 20,400 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.

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® 12R22.50 radials, 16 ply all season G622 RSD tread, rated for 27,120 lb maximum axle load and 75 mph maximum speed.

The tires will be mounted on Alcoa 22.50" x 8.25" 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.

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 one (1) forward and one (1) rearward of the left side rear tire.

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 by Bendix®.

Front brakes will be Model ADB22X™, disc type with automatic pad wear adjustment and 17.00" rotors for improved stopping distance.

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

BRAKE SYSTEM AIR COMPRESSOR

The air compressor will be a Cummins/WABCO with 18.7 cubic feet per minute output.

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 WABCO System Saver 1200 with 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.

ENGINE

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

Make:	Cummins
Model:	L9
Power:	450 hp at 2100 rpm
Torque:	1250 lb-ft at 1400 rpm
Governed Speed:	2200 rpm
Emissions Level:	EPA 2021
Fuel:	Diesel
Cylinders:	Six (6)
Displacement:	543 cubic inches (8.9L)
Starter:	Delco 39MT™
Fuel Filters:	Spin-on style primary filter with water separator and water-in-fuel sensor. Secondary spin-on style filter.

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.

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 activate when the system is on and the throttle is released.

The high setting of the brake application will activate and work simultaneously with the variable geometry turbo (VGT) provided on the engine.

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 be stainless steel from the turbo to the engine's aftertreatment device, and will be 4.00" in diameter. The exhaust system will include a single module aftertreatment device to meet current EPA standards. An insulation wrap will be provided on all exhaust pipes between the turbo and aftertreatment device to minimize the heat loss to the aftertreatment device. 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 made 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 forward 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 located on the driver's side of the body and be covered with a hinged, spring loaded, polished stainless steel door that is marked "Diesel Exhaust Fluid Only".

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.

FUEL PRIMING PUMP

A Cummins automatic electronic fuel priming pump will be integrated as part of the engine.

TRANSMISSION

An Allison 5th generation, Model EVS 3000P, 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 both sides of converter housing (positions 4 o'clock and 8 o'clock) as viewed from the rear.

A transmission temperature gauge with red light and audible alarm will be installed on the cab dash.

TRANSMISSION SHIFTER

A five (5)-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	3.49 to 1.00
2nd	1.86 to 1.00
3rd	1.41 to 1.00
4th	1.00 to 1.00
5th	0.75 to 1.00
R	5.03 to 1.00

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 provided earlier transmission downshifts to 2nd gear, resulting in improved engine braking performance.

DRIVELINE

Drivelines will be a heavy-duty metal tube and be equipped with Spicer® 1710 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 steering gear, with integral heavy-duty power steering, will be provided. For reduced system temperatures, the power steering will incorporate an air to oil cooler and Vickers® V20NF 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: San Angelo

The second row of text will be: Fire

The third row of text will be: Department

BUMPER

A one (1)-piece, ten (1) gauge, 304-2B type polished stainless steel bumper, a minimum of 10.00" high, will be attached to a bolted modular extension frame constructed of 50,000 psi tensile steel "C" channel mounted directly behind it to provide adequate support strength.

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 125' 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 Centered.

TOW HOOKS

Two (2) chromed steel tow hooks will be installed under the bumper and attached to the front frame members. The tow hooks 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 hooks 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 64.50" in the center and outboard positions.

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 will be furnished on the sides of the cab. The drip rail will be painted to match the cab roof, and bonded to the sides of the cab. The drip rail will extend the full length of the cab roof.

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.

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.

INTERIOR CREW CAB REAR WALL ADJUSTABLE SEATING (PATENT PENDING)

The interior rear wall of the crew cab will have mounting holes every 2.75" to allow for adjustability of the forward facing crew cab seating along the rear wall. Seats will be adjustable with use of simple hand tools allowing departments flexibility of their seating arrangement should their department needs change.

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.

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.

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 finish of the door handle shall be chrome/black. 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.

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.

MANUAL CAB DOOR WINDOWS

All cab entry doors will contain a conventional roll down window.

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 will 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 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.

The lights will 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.

CREW CAB WINDOWS

One (1) fixed window with tinted glass will be provided on each side of the cab, to the rear of the front cab door. The windows will be sized to enhance light penetration into the cab interior. The windows will measure 18.70" wide x 23.75" high.

LEFT SIDE ROLLUP CREW CAB DOOR WINDOW TINT

The rollup window in the left side crew cab door will be tinted privacy dark gray.

BEHIND LEFT SIDE CAB DOOR WINDOW TINT

The window behind the left side front cab door will be tinted privacy dark gray.

LEFT SIDE UPPER CREW CAB DOOR WINDOW TINT

The upper window in the left side crew cab door will be tinted privacy dark gray.

RIGHT SIDE ROLLUP CREW CAB DOOR WINDOW TINT

The rollup window in the right side crew cab door will be tinted privacy dark gray.

BEHIND RIGHT SIDE CAB DOOR WINDOW TINT

The window behind the right side front cab door will be tinted privacy dark gray.

RIGHT SIDE UPPER CREW CAB DOOR WINDOW TINT

The upper window in the right side crew cab door will be tinted privacy dark gray.

CAB DASH

The driver side dash, switch panel located to the right of the driver, and center console will be constructed of aluminum and painted with a dark gray interior finish.

The officer side dash will be a flat top design with an upper beveled edge to provide easy maintenance and will be constructed out of aluminum and painted to match the cab interior.

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

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

For durability and ease of maintenance, the cab interior side walls will be painted aluminum. The rear wall will be painted aluminum.

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 an aluminum sheet and securely fastened to interior cab ceiling.

The forward portion of the 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 Polydamp™ acoustical floor mat consisting of a black pyramid rubber facing and closed cell foam decoupler.

The top surface of the material has a series of raised pyramid shapes evenly spaced, which offer a superior grip surface. Additionally, the material has a 0.25" thick closed cell foam (no water absorption) which offers a sound dampening material for reducing sound levels.

DEFROST/AIR CONDITIONING SYSTEM

A ceiling mounted combination heater, defroster and air conditioning system will be installed in the cab above the engine tunnel area.

Cab Defroster

A 54,000 BTU heater-defroster unit with 690 SCFM of air flow will be provided inside the cab. The heater-defrost will be installed in the forward portion of the cab ceiling. Air outlets will be strategically located in the cab header extrusion per the following:

- One (1) adjustable will be directed towards the left side cab window
- One (1) adjustable will be directed towards the right side cab window
- Six (6) fixed outlets will be directed at the windshield

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 Auxiliary Heater

There will be one (1) 31,000 BTU auxiliary heater with 560 SCFM of air flow provided in each outboard rear facing seat risers with a dual scroll blower. An aluminum plenum incorporated into the cab structure used to transfer heat to the forward positions.

Air Conditioning

A condenser will be a 59,644 BTU output that meets and exceeds the performance specification will be mounted on the radiator. Mounting the condenser below the cab or body would reduce the performance of the system and will not be acceptable.

The air conditioning system will be capable of cooling the average cab temperature from 100 degrees Fahrenheit to 75 degrees Fahrenheit at 50 percent relative humidity within 30 minutes. 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.

The evaporator unit will be installed in the rear portion of the cab ceiling over the engine tunnel. The evaporator will include one (1) high performance heating core, one (1) high performance cooling core with (1) plenum directed to the front and one (1) plenum directed to the rear of the cab. The rear plenum will have a metal cover painted to match the cab interior.

The evaporator unit will have a 52,000 BTU at 690 SCFM rating that meets and exceeds the performance specifications.

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

- Four (4) will be directed towards the seating position on the left side of the cab
- Four (4) will be directed towards the seating position on the right side of the cab

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

- Minimum of five (5) will be directed towards crew cab area

A high efficiency particulate air (HEPA) filter will be included for the system. Access to the filter cover will be secured with four (4) screws.

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

CLIMATE CONTROL

An automotive style controller will be provided to control the heat and air conditioning system within the cab. The controller will have three (3) functional knobs for fan speed, temperature, and air flow distribution (front to rear) control.

The system will control the temperature of the cab and crew cab automatically by pushing the center of the fan speed control knob. Rotate the center temperature control knob to set the cab and crew cab temperature.

The AC system will be manually activated by pushing the center of the temperature control knob. Pushing the center of the air flow distribution knob will engage the AC for max defrost, setting the fan speeds to 100 percent and directing all air flow to the overhead forward position.

The system controller will be located within panel position #12.

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

There will be a black plastic thumb latch 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.

SEATING CAPACITY

The seating capacity in the cab will be six (6).

DRIVER SEAT

A H.O. Bostrom, Sierra, air suspension high back seat will be provided in the cab for the driver. For increased convenience, the seat will include a manual control to adjust the horizontal position (5.50" travel). To provide flexibility for multiple driver configurations, the seat will have a reclining back, adjustable from 15 degrees back to 45 degrees forward.

The seat will include no additional zip clean covers.

The seat will be furnished with a 3-point, shoulder type seat belt.

OFFICER SEAT

A H.O. Bostrom, Sierra, air suspension seat will be provided in the cab for the passenger. The seat back will be a high back style with 9 degree fixed recline angle.

The seat will include no additional zip clean covers.

The seat will be furnished with a 3-point, shoulder type seat belt.

REAR FACING DRIVER SIDE OUTBOARD SEAT

There will be one (1) rear facing, HO Bostrom Sierra high back seat provided at the driver side outboard position in the crew cab. For optimal comfort, the seat will be provided with 17.00" deep cushion. The seat back will be a high-back style with 9 degree fixed recline angle.

The seat will include no additional zip clean covers.

The seat will be furnished with a 3-point, shoulder type seat belt.

REAR FACING PASSENGER SIDE OUTBOARD SEAT

There will be one (1) rear facing, HO Bostrom Sierra high back seat provided at the passenger side outboard position in the crew cab. For optimal comfort, the seat will be provided with 17.00" deep cushion. The seat back will be a high-back style with 9 degree fixed recline angle.

The seat will include no additional zip clean covers.

The seat will be furnished with a 3-point, shoulder type seat belt.

FORWARD FACING CENTER SEATS

There will be two (2) forward facing, HO Bostrom Sierra high back seats provided at the center position in the crew cab. For optimal comfort, the seats will be provided with 17.00" deep cushion. The seat backs will be a high-back style with 9 degree fixed recline angle.

The seat will include no additional zip clean covers.

The seats will be furnished with a 3-point, shoulder type seat belt.

SEAT UPHOLSTERY

All seat upholstery will be leather grain dark silver gray vinyl resistant to oil, grease and mildew. The cab will have six (6) 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 five (5) 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 will 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.

Any flip up seats will include a 3-point shoulder type belts only.

To ensure safe operation, the seats will be equipped with seat belt sensors in the seat cushion and belt receptacle that will 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 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, defrost, and air conditioning control panel.

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.

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.

CUSTOMER SUPPLIED RADIO WIRING

There will be one (1) 12 volt combination wiring leads of which each will include one (1) battery switched, one (1) ignition and one (1) negative for use with radio equipment.

Each lead will be 18.00" long and be provided Radio box under the officer seat. The leads will be clearly marked in a coil and terminate with butt splices.

A breaker rated for 30 amps will be provided for circuit protection of the battery switched lead with a minimum of 10 gauge wire.

A breaker rated for 7.5 amps will be provided for circuit protection of the ignition lead.

The wires will be colored coded as follows:

- red for battery switched
- yellow for ignition
- black for ground

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 officer side dash area
- 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 two (2) 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 30 amps at 12 volts DC.

Power and ground will terminate One behind the driver seat and one behind the officer seat..

Termination will be to a Blue Sea System, Model 5025, 6 circuit with negative bus bar. 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

COLLISION MITIGATION

There will be a HAAS Alert®, Model HA5 Responder-to-Vehicle (R2V) collision avoidance system provided on the apparatus. The HA5 cellular transponder module will be installed behind the cab windshield, as high and near to the center as practical, to allow clear visibility to the sky. The module dimensions are 5.40" long x 2.70" wide x 1.30" high, and operating temperature range is -40 degree C to 85 degree C.

The transponder will be connected to the vehicle's emergency master circuit and battery direct power and ground.

While responding with emergency lights on, the HA5 transponder sends alert messages via cellular network to motorists in the vicinity of the responding truck that are equipped with the WAZE app.

While on scene with emergency lights on, the HA5 transponder sends road hazard alerts to motorists in the vicinity of the truck that are equipped with the WAZE app.

The HA5 Responder-to-Vehicle (R2V) collision avoidance system will include the transponder and a 5 year cellular plan subscription.

Activation of the HAAS Alert system requires a representative of the customer to accept the End User License Agreement (EULA) via an on-line portal.

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.

VEHICLE CAMERA SYSTEM

There will be a color vehicle camera system provided with the following:

- One (1) camera located at the rear of the apparatus, pointing rearward, displayed automatically with the vehicle in reverse.
- One (1) camera located on the right side of the apparatus, pointing rearward, displayed automatically with the right side turn signal.
- One (1) camera located on the left side of the apparatus, pointing rearward, displayed automatically with the left side turn signal.

The camera images will be displayed on a 7.00" LCD display located in view of the driver on the dash. The display will include manual camera activation capability and audio from the rear camera only.

The following components will be included:

- One (1) MO700136DC Display
- One (1) SV-CW134639CAI Rear camera
- Two (2) CS134404CI Side cameras
- All necessary cables

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 four (4) 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 3800 CCA at 0 degrees Fahrenheit
- 760 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/ AIR COMPRESSOR

There will be a Kussmaul™ Pump Plus 1200, Model # 52-21-1100, single output battery charger/air compressor system will be provided. A display bar graph indicating the state of charge will be included.

The automatic charger will maintain one (1) set of batteries with a maximum output current of 40 amps.

The 12-volt air compressor will be installed to maintain the air system pressure when the vehicle is not in use.

There will be an auto pump timer installed between the pressure switch and the pump that will allow the pump to run for one hour than shut down for one hour.

The battery charger will be wired to the AC shoreline inlet through an AC receptacle adjacent to this battery charger.

Battery charger/compressor will be located in the front left body compartment.

The battery charger indicator will be located on the driver's seat riser.

AUTO EJECT FOR SHORELINE

There will be one (1) Kussmaul™, Model 091-55-20-120, 20 amp 120 volt AC shoreline inlet(s) provided to operate the dedicated 120 volt AC circuits on the apparatus.

The shoreline inlet(s) will include red weatherproof flip up cover(s).

There will be a release solenoid wired to the vehicle's starter to eject the AC connector when the engine is starting.

The shoreline(s) will be connected to the battery charger.

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 Rating (amps)
- Phase
- Frequency

The shoreline receptacle will be located on the driver side of cab, above wheel.

ALTERNATOR

There will be a Leece-Neville, Model BLP4003, alternator provided. It will have a rated output current of 420 amp as measured by SAE method J56. The alternator will feature an integral, self diagnostic regulator and rectifier. 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 headlights 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 seven (7) amber LED lights provided per the following:

- 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 as close to the outside of the apparatus as practical.
- Two (2) amber LED clearance lights will be installed, one (1) on each side of the cab as high and far forward as practical.

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 a three (3) LED light bar 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) 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) LED lights installed on the side of the apparatus used 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

The rear stop/tail and directional LED lighting will consist of the following:

- Two (2) Whelen®, Model M6BTT, red LED stop/tail lights
- Two (2) Whelen, Model M6T, amber LED arrow turn lights

The lights will be provided with color lenses.

The lights will be mounted in a polished combination housing.

There will be two (2) Whelen Model M6BUW, LED backup lights provided in the tail light housing.

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 stainless steel light shield will be provided over the light that will direct illumination downward, preventing white light to the rear.

LIGHTING BEZEL

There will be two (2) Whelen, Model M6FCV4P, four (4) place chromed ABS housings with Pierce logos provided for the rear M6 series stop/tail, directional, back up, scene lights or warning lights.

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) TecNiq, Model T10-LC00-1, 15.00" lights with white LEDs and 45 degree stainless steel brackets provided per the following:

- one (1) under the driver's side cab access step
- one (1) under the passenger's side cab access step
- one (1) under the passenger's side crew cab access step
- one (1) under the driver's side crew cab access step

The lights will be activated when the battery switch is on, when the respective door is open and by the same control selected for the body perimeter lights.

PUMP HOUSE PERIMETER LIGHTS

There will be four (4) TecNiq, Model T10-LC00-1, 15.00" white 12 volt DC LED strip lights provided.

The lights will be mounted in the following locations:

- One (1) light will be provided under the driver's side top mount pump panel access step
- One (1) light will be provided under the driver's side pump panel running board
- One (1) light will be provided under the passenger's side pump panel running board
- One (1) light will be provided under the passenger's side top mount pump panel access step

The lights will be controlled by the same means as the body perimeter lights.

BODY PERIMETER SCENE LIGHTS

There will be two (2) TecNiq, Model T10-LC00-1, 15.00" 12 volt DC LED strip 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.

STEP LIGHTS

Four (4) white LED step lights will be provided. One (1) step light will be provided on each side, on the front compartment face and two (2) step lights at the rear to illuminate the tailboard.

In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15.00" x 15.00" square placed 10.00" below the light and a minimum of 1.5 fc covering an entire 30.00" x 30.00" square at the same 10.00" distance below the light.

These step lights will be actuated with the pump panel light switch.

All other steps on the apparatus will be illuminated per the current edition of NFPA 1901.

12 VOLT DC SCENE LIGHTS

There will be two (2) Whelen® Model PCPSM2*, 16,000 lumens 12 volt DC powered light(s) with white LEDs installed on the cab located, above the side windows on each side of the cab.

The surface mount housing(s) will be provided with a chrome cover.

The light(s) will be activated by the same control that has been selected for the driver's side scene light(s).

The light(s) may be load managed when the parking brake is applied.

12 VOLT LIGHTING

There will be two (2) Whelen® Model PCPSM2*, 16,000 lumens 12 volt DC surface mount light(s) installed on the body of the apparatus located, one on each side centered above compartments LS-2 and RS-2.

The light(s) will include housing(s) with a chrome cover.

The light(s) will be controlled by a switch at the driver's side switch panel.

The light(s) may be load managed when the parking brake is applied.

DECK LIGHTS

There will be two (2) Whelen, Model PFBP12C, 12 volt DC LED floodlights with swivel mount provided at the rear of the hose bed, one (1) each side.

The lights will be activated by a control from a switch at the rear of the truck.

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.

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 1000 gallons and be constructed of polypropylene plastic by United Plastic Fabricating, Incorporated.

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.

HOSE BED

The hose bed will be fabricated of .125"-5052 aluminum with a nominal 38,000 psi tensile strength.

Upper and rear edges of side panels will have a double break for rigidity.

The upper inside area of the beavertails will be covered with brushed stainless steel to prevent damage to painted surface when hose is removed.

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.

The hose bed walls will be unpainted and dual action finished.

The hose bed will accommodate 1000 feet of 5.00" hose and 1000 feet of 3.00" hose.

HOSE BED DIVIDER

One (1) adjustable hosebed divider 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 HOSE RESTRAINT

The hose in the hose bed will be restrained by a black nylon Velcro® strap at the top of the hosebed. At the rear of the hose bed, 2.00" black nylon webbing with a 1.50" x 4.00" box pattern will attach at the top rear outside corners with seat belt buckle fasteners. The webbing will have straps connected with seat belt buckle fasteners located at the rear body sheet below the hose bed.

A cross-divider will be provided just behind the fill tower. The divider will be bolted to the side sheet.

HOSE BED COVER

A black webbed hosebed cover will be provided. The retainer will cover the top and back of the hosebed.

The cover will be made of 2.00" black webbing spaced at 6.00" squares on the top and 3.00" squares for the rear flap. The cover will be sewn with black thread.

The cover will be mounted with Lift-a-dot on the sides, awning rail (aluminum retainer) at the front, and seat belt buckle at bottom of the rear section.

RUNNING BOARDS

Running boards will be fabricated of .125" bright aluminum treadplate.

Each running board will be supported by a welded 2.00" square tubing and channel assembly, which will be bolted to the pump compartment substructure.

Running boards will be 12.75" deep and spaced .50" away from the pump panel.

A splash guard will be provided above the running board treadplate.

TAILBOARD

The tailboard will also 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.

The exterior side will be flanged down and in for increased rigidity of tailboard structure.

REAR WALL, SMOOTH ALUMINUM/BODY MATERIAL

The rear facing surfaces of the center rear wall will be smooth aluminum.

The bulkheads, the surface to the rear of the side body compartments, will be smooth and the same material as the body.

Any inboard facing surfaces below the height of the hosebed will be aluminum diamondplate.

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

Body and compartments will be fabricated of .125", 5052-H32 aluminum.

Side compartments will be an integral assembly with the rear fenders.

Circular fender liners will be provided for prevention of rust pockets and ease of maintenance.

Side compartment flooring will be of the sweep out design with the floor higher than the compartment door lip.

The side compartment door opening will be framed by flanging the edges in 1.75" and bending out again .75" to form an angle.

Drip protection will be provided above the doors by means of bright aluminum extrusion, formed bright aluminum treadplate or polished stainless steel.

The top of the compartment will be covered with bright aluminum treadplate rolled over the edges on the front, rear and outward side. These covers will have the corners welded.

Side compartment covers will be separate from the compartment tops.

Front facing compartment walls will be covered with bright aluminum treadplate.

All screws and bolts which 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 support system will be the chassis frame rails which is the strongest component of the chassis and is designed for sustaining maximum loads.

The support system will include .375" thick steel vertical angle supports bolted to the chassis frame rails with .625" diameter bolts.

Attached to the bottom of the steel vertical angles will be horizontal angles, with gussets welded to the vertical members, which extend to the outside edge of the body.

A steel frame will be mounted on the top of these supports to create a floating substructure which will result in a 500 lb equipment support rating per lower compartment.

The floating substructure will be separated from the horizontal members with neoprene elastomer isolators. These isolators will reduce the natural flex stress of the chassis from being transmitted to the body.

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.

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.

LOUVERS

Louvers will be stamped into compartment walls to provide the proper airflow inside the body compartments and to prevent water from dripping into the compartment. Where these louvers are provided, they will be formed into the metal and not added to the compartment as a separate plate.

TESTING OF BODY DESIGN

Body structural analysis has been fully tested. Proven engineering and test techniques such as finite element analysis, stress coating and strain gauging have been performed with special attention given to fatigue, life and structural integrity of the cab, body and substructure.

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 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 actual testing techniques will be made available upon request.

LEFT SIDE COMPARTMENTATION

The left side compartmentation will consist of three (3) rollup door compartments.

A full height, rollup door compartment ahead of the rear wheels will be provided. The interior dimensions of this compartment will be 44.00" wide x 66.63" high x 25.88" deep in the lower 25.00" of the compartment and 12.00" deep in the remaining upper portion. The clear door opening will be a minimum of 38.25" wide x 56.88" high.

A rollup door compartment over the rear wheels will be provided. The interior dimensions of this compartment will be 66.50" wide x 32.88" high x 12.00" deep. The clear door opening will be a minimum of 58.25" wide x 23.13" high.

A full height, rollup door compartment behind the rear wheels will be provided. The interior dimensions of this compartment will be 47.75" wide x 67.63" high x 25.88" deep in the lower 26.00" of height and 12.00" deep in the remaining upper section of the compartment. The clear door opening will be a minimum of 44.75" wide x 57.88" high.

The interior height of the compartments will be measured from the compartment floor to the ceiling. The spool of the rollup door at the top of the compartment takes up some usable space. The depth of the compartments 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 (1) hand.

RIGHT SIDE COMPARTMENTATION

The right side compartmentation will consist of three (3) rollup door compartments.

A full height, rollup door compartment ahead of the rear wheels will be provided. The interior dimensions of this compartment will be 44.00" wide x 66.63" high x 25.88" deep in the lower 25.00" of

the compartment and 12.00" deep in the remaining upper portion. The clear door opening will be a minimum of 38.25" wide x 56.88" high.

A rollup door compartment over the rear wheels will be provided. The interior dimensions of this compartment will be 66.50" wide x 32.88" high x 12.00" deep. The clear door opening will be a minimum of 58.25" wide x 23.13" high.

A full height, rollup door compartment behind the rear wheels will be provided. The interior dimensions of this compartment will be 47.75" wide x 67.63" high x 25.88" deep in the lower 26.00" of height and 12.00" deep in the remaining upper section of the compartment. The clear door opening will be a minimum of 44.75" wide x 57.88" high.

The interior height of the compartments will be measured from the compartment floor to the ceiling. The spool of the rollup door at the top of the compartment takes up some usable space. The depth of the compartments 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 (1) hand.

SIDE COMPARTMENT ROLLUP DOOR(S)

There will be seven (7) 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 R-O-M Corporation.

The slats will be double wall box frame extrusion. The exterior surface will be flat and the interior surface will be concave to help loose equipment fall to the ground and prevent it from jamming the door.

Between each slat will be a PVC inner seal to prevent metal to metal contact and prevent dirt or moisture from entering the compartments.

A non-locking liftbar to be provided for each roll-up door. The lift bar will be located at the bottom of the door and have latches on the outer extrusion of the door frame. A ledge will be supplied over the lift bar as additional area to aid in closing the door.

Each door will have a 4.00" counter balance to assist in lifting.

A heavy-duty magnetic switch will be used for the 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 40.00" wide x 47.38" high x 25.88" deep. The spool of the rollup door at the top of the compartment takes up some usable space. The depth of the compartment will be calculated with the compartment door closed.

A louvered, 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 clear door opening of this compartment will be a minimum of 33.25" wide x 37.63" high.

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 roll up door will be double faced aluminum construction, anodized satin finish and manufactured by R-O-M Corporation.

The slats will be double wall box frame extrusion. The exterior surface will be flat and the interior surface will be concaved to help loose equipment fall to the ground and prevent loose equipment from jamming the door.

Between each slat will be a PVC inner seal to prevent metal to metal contact and prevent dirt or moisture from entering the compartments.

A non-locking liftbar to be provided for each roll-up door. The lift bar will be located at the bottom of the door and have latches on the outer extrusion of the door frame. A ledge will be supplied over the lift bar as additional area to aid in closing the door.

Each door will have a 4.00" counter balance to assist in lifting.

A heavy-duty magnetic switch will be used for control of open compartment door warning lights.

DOOR GUARD

There will be seven (7) compartment doors that will include a guard/drip pan designed to protect the rollup door from damage when in the retracted position and contain any water spray. The guard will be fabricated from stainless steel and installed left side rearward compartment, left side over the wheel compartment, left side forward compartment, right side rearward compartment, right side over the wheel compartment, right side forward compartment and rear compartment.

COMPARTMENT LIGHTING

There will be seven (7) 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.

MOUNTING TRACKS

There will be seven (7) sets of tracks for mounting shelf(s) in LS1, LS2, LS3, RS1, RS2, RS3 and B1. These tracks will be installed vertically to support the adjustable shelf(s), and will be full height of the compartment. The tracks will be painted to match the compartment interior.

ADJUSTABLE SHELVES

There will be ten (10) 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 at the transition point, in RS3 at the transition point, in RS2 centered between the floor and the ceiling, in RS3 in the upper third, in RS1 in the upper third, in LS3 in the upper third, in LS1 in the upper third, in LS3 at the depth transition point and in B1 in the upper third.

SLIDE-OUT FLOOR MOUNTED TRAY

There will be three (3) 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 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 pounds.

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 LS2.

PARTITION, TRANSVERSE REAR COMPARTMENT

Two (2) partitions will be bolted in place to separate the left and right side rear compartments from the rear tailboard compartment. The partition will be body material painted spatter gray.

Each partition will be permanently sealed with caulk to ensure no water will leak to or from the adjoining compartments.

PEGBOARD

There will be 3/16" thick aluminum pegboard spatter gray painted will be installed on the back wall of one (1) compartments. It will be mounted using two (2) horizontal tracks. Retainers will be used to mount the pegboard to the tracks. The pegboard shall be installed on the back wall. The holes will be .203" diameter, punched 1.00" on center. Pegboard will be provided in the following compartments: LS2.

RUB RAIL

Bottom edge of the side and rear of the body compartments will be trimmed with a bright aluminum extruded rub rail.

Trim will be 2.12" high with 1.38" 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.

BODY FENDER CROWNS

Polished stainless steel fender crowns will be provided around the rear wheel openings with a dielectric barrier will be provided between the fender crown 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. Rubber welting will be provided between the body and crown.

BODY FENDER LINER

A unpainted brushed stainless fender liner will be provided. The liners will be removable to aid in the maintenance of rear suspension components.

HARD SUCTION HOSE

Hard suction hose will not be required.

HANDRAILS

The handrails will be 1.25" diameter knurled aluminum 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 provided to meet NFPA 1901 section 15.8 requirements. The handrails will be installed as noted on the sales drawing.

HANDRAILS

One (1) vertical handrail will be located on each rear beavertail.

HANDRAIL

One (1) full width horizontal handrail will be provided below the hose bed at the rear of the apparatus.

AIR BOTTLE STORAGE (DOUBLE)

A quantity of two (2) 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 and on the right side forward 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.

EXTINGUISHER STORAGE

A quantity of one (1) extinguisher compartments will be provided on the right side rearward of the rear wheels. The extinguisher compartment will be in the form of a 9.00" square tube and of adequate depth to accommodate different size extinguishers. A polished stainless steel door with a Southco raised trigger C2 chrome lever latch will be provided to contain the extinguisher. 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. There will also be a drain hole for each compartment.

EXTENSION LADDER

There will be a 24' two-section aluminum Duo-Safety Series 900-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 between the water tank and the right side compartments.

The ladders will extend into the pump compartment just to the rear of the water pump discharges.

The ladder storage area will be enclosed as practical by means of sheet metal to protect the ladders from road dirt. The ladders that extend into the pump house will also be enclosed. A black rubber boot will be provided to enclose the ladders in the gap between the pump house and the body.

Each ladder will be stored vertically in a separate stainless steel storage trough. Each stainless steel trough will be lined with Dura-Surf nylon slides.

An aluminum enclosure will be provided at the rear of the body to properly contain the ladders. This enclosure will extend to the rear of the side body compartments.

The enclosure will also include a vertically hinged smooth aluminum door with a D-handle latch to access the ladders. The door will be hinged on the left side.

FOLDING LADDER

One (1) 10.00' aluminum, Series 585-A, Duo-Safety folding ladder will be installed.

FOLDING LADDER STORAGE

There will be storage designated right side for folding ladders stored between the side sheet in a stainless steel trough in the ladder storage compartment.

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.

PIKE POLE STORAGE

There will be storage designated right side for One (1) pike pole 8' or longer pike poles with a .75" standard notch stored in a tube between the side sheet and tank in the ground ladder storage compartment.

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 STORAGE

There will be storage designated right side for One (1) pike pole with a .75" standard notch stored in a tube between the side sheet and tank in the ground ladder storage compartment.

STEP

A folding step will be provided on the left side front bulkhead. The step will be bright finished, non-skid with a black tread coating on the stepping surface. The step can be used as a hand hold with two openings wide enough for a gloved hand.

REAR FOLDING STEPS

Bright finished, non-skid folding steps with a black tread coating on the stepping surface will be provided at the rear. Each step will incorporate an LED light to illuminate the stepping surface. The steps can be used as a hand hold with two openings wide enough for a gloved hand.

PUMP COMPARTMENT

The pump compartment will be separate from the hose body and compartments so that each may flex independently of the other. It will be a fabricated assembly of steel tubing, angles and channels which support both the fire pump and the side running boards.

Compartment will be mounted on chassis frame rails with rubber biscuits in a four (4) point pattern to allow for chassis frame twist.

Pump compartment, pump, plumbing and gauge panels will be removable from the chassis as a single assembly.

PUMP MOUNTING

Pump will be mounted to a substructure which will be mounted to the chassis frame rail using rubber isolators. The mounting will allow chassis frame rails to flex independently without damage to the fire pump.

PUMP CONTROL PANELS (TOP MOUNT)

All pump controls and gauges to be properly marked and located above the pump to the rear of the walkway. Operator to face the rear of the truck when viewing the control panel from the operating position.

The control panel will be in two planes.

The upper plane will be hinged at the bottom with a full length stainless steel hinge.

Both planes to be full width of the pump house structure.

The side pump panels will be 52.00" wide.

The side pump panels will be removable for ease of maintenance.

Polished stainless steel trim collars to be installed around all inlets and outlets.

Controls will have chrome plated bezels encircling the opening securely mounted to the pump panel. 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.

WALKWAY

A 19.00" wide walkway will be provided for access to the top control panel. The walkway will be constructed of bright aluminum treadplate and properly reinforced.

There will be six (6) white LED lights provided to illuminate the walkway. The lights will come on with the body perimeter lights.

WALKWAY TOOL COMPARTMENT

A tool compartment will be provided on each side of the walkway. Each compartment will have an aluminum treadplate door and will be equipped with two (2) white LED lights with chrome bezels, one (1) in each compartment .

PUMP

Pump will be a Waterous CSU, 1500 gpm single (1) stage midship mounted centrifugal type.

Pump will be the class "A" type.

Pump will deliver the percentage of rated discharge at pressures indicated below:

- 100% of rated capacity at 150 psi net pump pressure.

-70% of rated capacity at 200 psi net pump pressure.

-50% of rated capacity at 250 psi net pump pressure.

Pump body will be close-grained gray iron, bronze fitted, and horizontally split in two (2) sections for easy removal of the entire impeller shaft assembly (including wear rings).

Pump will be designed for complete servicing from the bottom of the truck, without disturbing the pump setting or apparatus piping.

Pump case halves will be bolted together on a single horizontal face to minimize chance of leakage and facilitate ease of reassembly. No end flanges will be used.

Discharge manifold of the pump will be cast as an integral part of the pump body assembly and will provide a minimum of three (3) 3.50" openings for flexibility in providing various discharge outlets for maximum efficiency.

The three (3) 3.50" openings will be located as follows: one (1) outlet to the right of the pump, one (1) outlet to the left of the pump, and one (1) outlet directly on top of the discharge manifold.

Impeller shaft will be stainless steel, accurately ground to size. It will be supported at each end by sealed, anti-friction ball bearings for rigid precise support. Impeller will have flame plated hubs assuring maximum pump life and efficiency despite any presence of abrasive matter in the water supply.

Bearings will be protected from water and sediment by suitable stuffing boxes, flinger rings, and oil seals. No special or sleeve type bearings will be used.

Pump will be equipped with a self-adjusting, maintenance-free, mechanical shaft seal.

The mechanical seal will consist of a flat, highly polished, spring fed carbon ring that rotates with the impeller shaft. The carbon ring will press against a highly polished stainless steel stationary ring that is sealed within the pump body.

In addition, a throttling ring will be pressed into the steel chamber cover, providing a very small clearance around the rotating shaft in the event of a mechanical seal failure. The pump performance will not deteriorate, nor will the pump lose prime, while drafting if the seal fails during pump operation.

Wear rings will be bronze and easily replaceable to restore original pump efficiency and eliminate the need to replace the entire pump casing due to wear.

PUMP TRANSMISSION

The pump transmission will be made of a three (3) piece, aluminum, horizontally split casing. Power transfer to pump will be through a high strength Morse HY-VO silent drive chain. By the use of a chain rather than gears, 50% of the sprocket will be accepting or transmitting torque, compared to two (2) or three (3) teeth doing all the work.

Drive shafts will be 2.35" diameter hardened and ground alloy steel and supported by ball bearings. The case will be designed to eliminate the need for water cooling.

PUMPING MODE

An interlock system will be provided to ensure that the pump drive system components are properly engaged so that the apparatus can be safely operated. The interlock system will be designed to allow stationary pumping only.

AIR PUMP SHIFT

Pump shift engagement will be made by a two (2) position sliding collar, actuated pneumatically (by air pressure), with a three (3) position air control switch located in the cab. A manual back-up shift control will also be located on the left side pump panel.

Two (2) indicator lights will be provided adjacent to the pump shift inside the cab. One (1) green light will indicate the pump shift has been completed and be labeled "pump engaged". The second green light will indicate when the pump has been engaged, and that the chassis transmission is in pump gear. This indicator light will be labeled "OK to pump".

The pump shift will be interlocked to prevent the pump from being shifted out of gear when the chassis transmission is in gear to meet NFPA requirements.

The pump shift control in the cab will be illuminated to meet NFPA requirements.

TRANSMISSION LOCK-UP

The direct gear transmission lock-up for the fire pump operation will engage automatically when the pump shift control in the cab is activated.

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. The heat exchanger will be a separate unit. The heat exchanger will be installed in the pump or engine compartment with the control located on the pump operator's control panel. Exchanger will be plumbed to the master drain valve.

INTAKE RELIEF VALVE

One (1) Trident Air Max intake relief valve(s) 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 350 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.

One (1) adjustable air regulator and pressure indicating gauge will be located on a common bezel behind the left side pump panel with a stainless steel access door to control the intake valve(s).

PRESSURE CONTROLLER

A Pierce Pump Boss Model PBA300 pressure governor will be provided.

A pressure transducer will be installed in the water discharge manifold on the pump.

The display panel will be located at the pump operator's panel.

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.

SHORT SUCTION TUBE(S)

The suction tube(s) on the water pump will have short suction tube(s) installed to allow for installation of adapters, elbows or intake valves without excessive overhang.

MAIN PUMP INLET CAP

The main pump inlets will have National Standard Threads with a long handle chrome cap.

The cap will be the Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

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.

Inlet valve location will be behind the pump panel.

INLET CONTROL

The side auxiliary inlet(s) will incorporate a quarter-turn ball valve with the control located at the top mount control panel. The valve operating mechanism will indicate the position of the valve.

There will be one (1) inlet.

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.

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 stainless steel piping and a quarter turn 3.00" full flow line valve with the control remotely located at the operator's panel. Tank to pump line will run straight (no elbows) from the pump into the front face of the water tank and angle down into the tank sump. 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.

DISCHARGE OUTLET CONTROLS

The discharge outlets will incorporate a quarter-turn ball valve with the control located at the pump operator's panel. The valve operating mechanism will indicate the position of the valve.

If a handwheel control valve is used, the control will be a minimum of a 3.9" diameter stainless steel handwheel with a dial position indicator built in to the center of the handwheel.

Any 3.00 inch or larger discharge valve will be a slow-operating valve in accordance with NFPA 16.7.5.3.

LEFT SIDE DISCHARGE OUTLETS

There will be Two (2) discharge outlets with a 2.50" valve on the left side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.

LEFT SIDE OUTLET ELBOWS

The 2.50" discharge outlets located on the left side pump panel will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow.

The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

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" (M) National Standard hose thread adapter.

RIGHT SIDE OUTLET ELBOWS

The 2.50" discharge outlets located on the right side pump panel will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow.

The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

LARGE DIAMETER DISCHARGE OUTLET

There will be a 5.00" discharge outlet with a 4.00" Akron valve installed on the left side of the apparatus, terminating with a 5.00" (M) National Standard hose thread adapter. This discharge outlet will be actuated with a handwheel control at the pump operator's control panel.

An indicator will be provided to show when the valve is in the closed position.

LARGE DIAMETER OUTLET ELBOWS

The 5.00" outlet will be furnished with a 5.00" (F) National Standard hose thread x 5.00" Storz elbow adapter with Storz cap.

FRONT DISCHARGE OUTLET

There will be one (1) 1.50" discharge outlet piped to the front of the apparatus and located on the top of the left side of the front bumper.

Plumbing will consist of 2.00" piping and flexible hose with a 2.00" ball 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 1.50" NST with 90 degree stainless steel swivel.

There will be automatic drains provided at all low points of the piping.

REAR DISCHARGE OUTLET

There will be One (1) discharge outlet piped to the rear of the hose bed, left side, installed so proper clearance is provided for spanner wrenches or adapters. Plumbing will consist of 2.50" piping along with a 2.50" full flow ball valve with the control from the pump operator's panel.

REAR OUTLET ELBOWS

The 2.50" discharge outlets located at the rear of the apparatus will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow.

The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.

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.

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.

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 rigidly braced and installed securely so no movement develops when the line is charged. The riser will be gated and controlled at the pump operator's panel.

Any 3.00 inch or larger discharge valve will be a slow-operating valve in accordance with NFPA 16.7.5.3.

MONITOR

A customer/dealer supplied and installed make and model Customer will purchase and install after delivery. monitor will be properly installed on the deluge riser.

The deluge riser will have male National Pipe Threads for mounting the monitor.

SPEEDLAYS WITH TRAY

Ahead of the pump enclosure will be two (2) 1.75" speedlay hose beds. Each bed will have a 2.00" pre-connect line with a 2.00" quarter-turn ball valve and terminate with a 1.50" National Standard hose thread 90 degree swivel. The swivel will be located at the top of the speedlay compartment to allow easy removal of the hose in either direction.

Individual controls for the speedlays will be at the pump operator's panel.

Each compartment will be capable of carrying 200 feet of 1.75" double jacketed hose with the one (1) compartment located above the other.

A removable tray will be provided for each speedlay hosebed. The speedlay trays 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. The bottom of the speedlay compartments will be lined with stainless steel to allow the tray to slide with ease. Scuffplates will be provided on both sides, at the sides and bottom of each opening to protect the paint.

SPEEDLAY HOSE RESTRAINT

A 2.00" black nylon webbing design restraint will be provided across the ends of speedlay(s) to secure the hose during travel. The webbing assembly is to be attached at the bottom of the speedlay(s) with footman loops as a permanent attachment and is attached at the top with 2.00" cam buckle fastener(s).

HUSKY 3 FOAM PROPORTIONER

A Pierce Husky® 3 foam proportioning system will be provided. The Husky 3 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 proportion foam solution at rates from .1 percent to 3 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.

System Capacity

The system will have the ability to deliver the following minimum foam solution flow rates at accuracies that meet or exceed NFPA requirements at a pump rating of 150 psi.

100 gpm @ 3 percent

300 gpm @ 1 percent

600 gpm @ 0.5 percent

Class A foam setting in .1 percent increments from .1 percent to 1 percent. Typical settings of 1 percent, .5 percent and .3 percent (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, and to set the operation modes.

The percent of injection will have a preset. This preset 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.

Three (3) .50 tall LEDs will display the foam percentage in numeric characters. Three (3) indicator LEDs will also be included, one (1) green, one (1) red, and one (1) yellow. The LEDs will indicate various system operation or error states.

The indications will be:

- Solid Green - System On
- Solid Red - Valve Position Error
- Solid Yellow - Priming System

- Flashing Green - Injecting Foam
- Flashing Red - Low Tank Level
- Flashing Yellow - Refilling Tank

The control display will house 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.

Hydraulic Drive System

The foam concentrate pump will be powered by an electric over hydraulic drive system. The hydraulic system and motor will be integrated into one (1) unit.

Foam Concentrate Pump

The foam concentrate pump will be of positive displacement, self-priming; linear actuated design, driven by the hydraulic system. 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 3 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, or the use of foam different than the foam in the foam tank.

Panel Mounted External Pick-Up Connection / Valve

A bronze three (3)-way valve will be provided. The unit will be mounted to the pump panel. The valve unit will function as the foam system tank to pump valve and external suction valve. The external foam pick-up will be one (1) 0.75" male connection GHT (garden hose thread) with a cap.

Pick-Up Hose

A 0.75" flexible hose with an end for insertion into foam containers will be provided. The hose will be supplied with a 0.75" female swivel GHT (garden hose thread) swivel connector. The hose will be shipped loose.

Discharges

The foam system will be plumbed to the center of front bumper, left rear outlet, left side outlet, right side outlet, crosslay lower and crosslay upper.

System Electrical Load

The maximum current draw of the electric motor and system will be no more than 55 amperes at 12 VDC.

FOAM GENERATING SYSTEM, CAF

A properly designed and installed system, rated to provide 200 cfm capacity for generating compressed air foam, will be provided. The system 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 wafer type 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 system will supply five (5) discharges with compressed air foam the front crosslay, rear crosslay, center of front bumper and Left Side 2.5" & Right Side 2.5" discharges.

AIR COMPRESSOR

An oil flooded rotary screw compressor rated at 200 cfm @ 130 psig will be provided. The compressor will be mounted between the chassis frame rails. The compressor will be driven by the vehicle transmission through a clutch type 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 400 gpm @150 psi from tank or draft.

All components of the air compressor system will be readily available on the domestic air compressor market (USA). The compressor will be designed and assembled by the apparatus manufacturer, using standard components available to air compressor OEM's.

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 will demand.

The air/oil separator for the compressor system will be easily serviced. The separator will be inside the air/oil receiver tank. The separator will consist of two stages. The first stage being a centrifuge arrangement engineered into the tank. The second stage will be a dual cartridge arrangement featuring an inside to outside flow of the air through the cartridges. The separation system will be capable of a 250 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 steel 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 cartridge 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 assembly's housing. The thermostat will route lubricant to the oil cooler to maintain the compressors 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. The oil cooler will use water from the vehicle fire pump as the cooling medium and will be protected from freezing by adequate drains and other means.

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.

The system will have the following safety or monitoring devices.

Minimum pressure valve

Compressor lube temperature gauge

Compressor system pressure gauge

Compressor lube temperature warnings, audible and visible

High pressure relief valve on receiver tank

Applicable warning and information decals

Air Flow Meter

The compressor's PTO controls will be installed in such a manner as to render the PTO inoperative if the fire pump is not engaged. Further, the air compressor's PTO engagement will be prevented at compressor pressures above 10 psi at compressor re-start. 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 percent of the discharge pressure of the fire pump, throughout a pressure range of 60 psi to 130 psi.

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" single, valved air outlet will be supplied by the CAFS compressor and located left pump panel. This air outlet will terminate with 1.00" FNST swivel fitting. The outlet will be capable of supplying the capacity of the CAFS air compressor. A mating 1.00" MNST x 1.00" NPT fitting will be supplied in loose equipment.

SINGLE FOAM TANK REFILL

The foam system's proportioning pump will be used to fill the 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. While the proportioner pump is filling the tank, the controller will display a flashing yellow LED to indicate that the tank is filling. When the tank is full, as determined by the float switch in the tank dome, the pump will stop and the controller will shut the yellow LED off. If it attempted to use tank fill and the refill valve and suction valve are in the wrong position(s), then a red LED will illuminate to indicate the improper valve position(s). When the valves are positioned properly, then filling will commence.

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 40 gallons of foam with the intended use of Class A foam. The brand of foam stored in this tank will be Chem-Guard Extreme. The foam cell will not 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

The foam tank drain will be a 1.00" quarter turn drain valve located inside the pump/plumbing compartment.

PUMP PANEL CONFIGURATION

The pump panel configuration will be neat and orderly.

PUMP AND GAUGE PANEL

The side control panels will be constructed of aluminum with a black vinyl finish. A polished aluminum trim molding will be provided around each panel.

The gauge and top mount control panels will be constructed of aluminum with a black vinyl finish. A polished aluminum trim molding will be provided around each panel.

The gauge panel will be hinged at the bottom with a full length stainless steel hinge. The fasteners that hold the panel in the up right position will be quarter-turn style. Vinyl covered chains will be used to hold the panel in the dropped position.

The left and right side pump panels will be removable and fastened with swell type fasteners.

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 pump compartment.

There will be a switch accessible through a door on the pump panel included with this installation.

Engine monitoring graduated LED indicators will be incorporated with the pressure controller.

Also provided at the pump panel will be the following:

- Master Pump Drain Control

THROTTLE READY GREEN INDICATOR LIGHT

There will be a green indicator light integrated with the pressure governor and/or engine throttle installed on the pump operators panel that is activated when the pump is in throttle ready mode.

OK TO PUMP INDICATOR LIGHT

There will be a green indicator light installed on the pump operators panel that is activated when the pump is in Ok To Pump mode.

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

There will be an electronic water level gauge provided on the operator's panel that registers water level by means of five (5) colored LED lights. The lights will be durable, ultra-bright five (5) LED design viewable through 180 degrees. The water level indicators will be as follows:

- 100 percent = Green
- 75 percent = Yellow
- 50 percent = Yellow
- 25 percent = Yellow
- Refill = Red

The light will flash when the level drops below the given level indicator to provide an eighth of a tank indication. To further alert the pump operator, the lights will flash sequentially when the water tank is empty.

The level measurement will be based on the sensing of head pressure of the fluid in the tank.

The display will be constructed of a solid plastic material with a chrome plated die cast bezel to reduce vibrations that can cause broken wires and loose electronic components. The encapsulated design will provide complete protection from water and environmental elements. An industrial pressure transducer will be mounted to the outside of the tank. The field calibratable display measures head pressure to accurately show the tank level.

FOAM LEVEL GAUGE

An electronic foam level gauge will be provided on the operator's panel that registers foam level by means of five (5) colored LED lights. The lights will be durable, ultra-bright five (5) LED design viewable through 180 degrees. The foam level indicators will be as follows:

- 100 percent = Green
- 75 percent = Yellow
- 50 percent = Yellow
- 25 percent = Yellow
- Refill = Red

The light will flash when the level drops below the given level indicator to provide an eighth of a tank indication. To further alert the pump operator, the lights will flash sequentially when the foam tank is empty.

The level measurement will be based on the sensing of head pressure of the fluid in the tank.

The display will be constructed of a solid plastic material with a chrome plated die cast bezel to reduce vibrations that can cause broken wires and loose electronic components. The encapsulated design will provide complete protection from foam and environmental elements. An industrial pressure transducer will be mounted to the outside of the tank. The display will be able to be calibrated in the field and will measure head pressure to accurately show the tank level.

LIGHT SHIELDS

Illumination will be provided by LED strip lights at the pump control panel for controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus and the equipment provided on it.

Lights will be installed under a stainless steel shield.

A light will come on above the pump panel light switch when the parking brake is applied. This is to afford the operator some illumination when first approaching the control panel.

The remaining lights to be actuated from a switch located on the pump panel.

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

The air horns will be actuated by a chrome push button located on the officer's side of the engine tunnel and by the horn button in the steering wheel. The driver will have the option to control the air horns or the chassis horns from the horn button by means of a selector switch located on the instrument panel.

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.

Electronic siren head will be recessed in the driver side center switch panel.

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 and polished stainless steel grille provided. Each speaker will be connected to the siren amplifier.

The speakers will be recessed in each side of the front bumper, inside of the frame rails.

AUXILIARY MECHANICAL SIREN

There will be a Federal Signal Model Q2B mechanical siren furnished and installed in the front of the apparatus.

The Q2B will be chrome finish.

The siren will have a 2-gauge cable connected to a power solenoid that is connected by a 2-gauge cable ran battery direct to the primary chassis batteries and will be labeled Q2B+ at the battery. The power solenoid will only be enabled when the emergency master switch is on.

The siren will have a 2-gauge ground wire connected to the chassis battery stud. The cable will be labeled Q2B- at the battery.

When the chassis battery switch is on, and the emergency master switch is on, the Q2B siren will be activated by the following:

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.

MECHANICAL SIREN CONTROL

The mechanical siren will be activated by the following:

- Left side foot switch.

A momentary chrome push button switch will be included in the right side dash panel to activate the siren brake.

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) blue flashing LED module in the driver's side first front position.
- One (1) white flashing LED module in the driver's side second front position.
- One (1) blue 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.
- Open 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.
- Open in the passenger's side fifth front position.
- One (1) red flashing LED module in the passenger's side fourth front position.
- One (1) blue flashing LED module in the passenger's side third front position.
- One (1) white flashing LED module in the passenger's side second front position.
- One (1) blue 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 by a cab switch with emergency master control.
- no momentary switch to activate the traffic light controller.

The white flashing LED modules and the traffic light controller will be disabled when the parking brake is applied.

The two (2) red and four (4) blue 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 blue.

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*C, 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 lights to be red.
- Two (2) lights, one (1) each side above rear wheels. The side rear lights to be blue.
- The lights will include a clear lenses.

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 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

Both lights will include a lens that is clear.

There will be a switch located in the cab on the switch panel to control the lights.

REAR/SIDE ZONE UPPER WARNING LIGHTS

There will be two (2) Whelen®, Model L31H*FN, LED warning beacons provided at the rear of the truck, located one (1) each side. There will be a switch located in the cab on the switch panel to control the beacons.

The color of the lights will be red LEDs with both domes clear.

The rear warning lights will be mounted on top of the compartmentation with all wiring totally enclosed. The rear deck lights will be mounted on the beavertails as high as possible.

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.

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 or 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 PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2016 edition, section 5.8.2.1 requires a minimum of 20' of suction hose or 15' of supply hose will be carried.

Hose is not on the apparatus as manufactured. The fire department will provide suction or supply hose.

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.
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 manufacturer.

After the cab and body are painted, the color will be verified to make sure that it matches the color standard. Electronic color measuring equipment will be used to compare the color sample to the color standard entered into the computer. Color specifications will be used to determine the color match. A Delta E reading will be 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 painted 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.

The paint finish quality levels for critical areas of the apparatus (cab front and sides, body sides and doors, and boom lettering panels) are to meet or exceed Cadillac/General Motors GMW15777 global paint requirements. Orange peel levels are to meet or exceed the #6 A.C.T. standard in critical areas. These requirements must be met in order for the exterior paint finish to be considered acceptable. The manufacture's written paint standards will be available upon request.

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 recycled 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.

CAB TWO-TONE PAINT

The cab will be painted two-tone with the upper section painted #10 white and the lower section painted #90 red. There will be a standard two-tone cab paint break provided.

There will be a standard cab shield provided.

BODY PAINT

The body will be painted to match the lower section of the cab.

PAINT CHASSIS FRAME ASSEMBLY

The chassis frame assembly will be finished with a single system black top coat 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

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.

AXLE HUB PAINT

All axle hubs will be painted black #101.

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 compartment 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.

CAB STRIPE

There will be a genuine gold leaf stripe provided on both sides of the cab in place of the chrome molding and on the cab face with shield.

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.

DECAL INSTALLATION

There will be two (2) pair of decals furnished by the fire department and applied by the apparatus manufacturer.

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
- Engine
- Tires
- 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 Cummins **five (5) year** limited engine warranty will be provided. A limited warranty certificate, WA0181, is included with this proposal.

STEERING GEAR WARRANTY

A TRW **one (1) year** limited steering gear warranty will be provided. A copy of the warranty certificate will 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 WARRANTY

A Eaton **five (5)-year/100,000 mile** parts and labor warranty will be provided.

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.

CAMERA SYSTEM WARRANTY

A Pierce fifty four (54) month warranty will be provided for the camera system.

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.

ROLLUP DOOR MATERIAL AND WORKMANSHIP WARRANTY

A R-O-M Corporation rollup door limited warranty will be provided. The mechanical components of the rollup door will be warranted against defects in material and workmanship for a period of seven (7) years. The door ajar switch will be warranted for a period of three (3) years and all other electrical components will be warranted for a period of one (1) year. A seven (7) year limited warranty will be provided on painted rollup doors.

The limited warranty certificate, WA0206, is included with this proposal.

PUMP WARRANTY

The Waterous pump will be provided with a Seven (7) year material and workmanship limited warranty.

A copy of the warranty certificate will be submitted with the bid package (no exception).

TEN (10) YEAR PUMP PLUMBING WARRANTY

The Pierce apparatus plumbing limited warranty certificate, WA0035, is included with this proposal.

FOAM SYSTEM WARRANTY

The Husky 3 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 delivery.

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.

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.

PERFORMANCE CERTIFICATIONS

Cab Air Conditioning

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.

Cab Defroster

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 Auxiliary Heater

Good cab heat performance and regulation provides a more effective working environment for personnel, whether in-transit, or at a scene. An auxiliary cab heater 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.

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).

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Patrick Brody, Assistant Fire Chief, Fire Department, 325-657-4355 ext 300

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider a resolution allowing the Fire Department to donate a Zoll Auto-Pulse CPR device to Shannon Medical Center Emergency Department (Patrick Brody)

Staff Recommendation:

Approve

Summary/History:

The Fire Department received the CPR device as a donation from Zoll Medical in March of 2015 (estimated new value \$15,910). The Fire Department has since changed to a different CPR device and this unit no longer has any use for our organization.

Funding Source(s):

Financial Impact:

No fiscal impact

Other Information/Recommendation:

Attachments:

- | | |
|------------------------------------|--------------------------------------|
| 1. Resolution donating Zoll device | Resolution donating Zoll device.docx |
|------------------------------------|--------------------------------------|

Presentation:

Patrick Brody

Approvals/Reviews:

Patrick Brody	Created/Initiated
Brian Dunn	Approved
Theresa James	Approved
Jeff Tomlinson	Approved
Tina Dierschke	Approved
Julia Antilley	Final Approval

A RESOLUTION BY THE CITY OF SAN ANGELO CITY COUNCIL APPROVING A DONATION OF A ZOLL AUTO PULSE DEVICE TO SHANNON MEDICAL EMERGENCY DEPARTMENT AND DECLARING A PUBLIC PURPOSE.

WHEREAS, in March 2015 the San Angelo Fire Department (“SAFD”) received a donation of a Zoll Auto Pulse device (“Device”); and

WHEREAS, the price of a new Zoll Auto Pulse device is estimated to be \$15,910; and

WHEREAS, since the time of that donation SAFD has changed to a different device that serves the same purpose; and

WHEREAS, Shannon Medical Center Emergency Department has use for the Device and SAFD would like to donate the device to Shannon Medical Center Emergency Department; and

WHEREAS, the Texas Constitution requires that before a City can make a donation of funds or services to a private entity there must be a finding by City Council that such a donation constitutes a valid public purpose.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF SAN ANGELO, TEXAS:

Part 1: That the SAFD is authorized to donate the Zoll Auto Pulse device to Shannon Medical Emergency Department.

Part 2: That the support of the Shannon Health System and their ability to provide emergency services within our City constitutes a valid public purpose to justify the donation.

Part 3: That Shannon Medical Emergency Department shall accept the donation “As Is” with no warranty.

PASSED and APPROVED THIS 4th day of January, 2022.

CITY OF SAN ANGELO, TEXAS

ATTEST:

Brenda Gunter, Mayor

Julia Antilley, City Clerk

APPROVED AS TO FORM

Theresa James, City Attorney

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Allison Strube, Water Utilities Director, Water Utilities, 325-657-4209

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider authorizing and executing the Low Income Household Water Assistance Program (LIHWAP) Water Provider Agreement administered by Concho Valley Community Action Agency (CVCAA) and authorizing the City Manager to negotiate and execute all related documents (Allison Strube)

Staff Recommendation:

Approve

Summary/History:

The purpose of the Low Income Household Water Assistance Program (LIHWAP) grant is to provide emergency assistance to low-income households, particularly those with the lowest incomes that pay a high proportion of household income for water, storm water, drinking water, wastewater/sewer, and groundwater services collectively named (Water Services). The agreement is attached to this agenda item.

The Water Services Provider (COSA), agrees to the terms of the LIHWAP grant and to accept payment from LIHWAP agencies only for eligible LIHWAP clients to whom COSA continues to provide Water Services. The Water Assistance Provider (CVCAA), agrees to make payments only for eligible LIHWAP clients.

The funds are not allowed to be used for trash services, but all other items on the municipal statement are eligible for assistance if the customer qualifies.

Funding Source(s):

Financial Impact:

The funding comes from US Department of Health and Human Services and is distributed to the states. LIHWAP is funded through the Consolidated Appropriations Act (CAA) 2021 and the American Rescue Plan Act (ARPA) of 2021 for emergency water and wastewater assistance. Concho Valley Community Action Agency (CVCAA) is administering this program in our service area and should be receiving approximately \$440,000 to assist with water bills. The water agreement would need to be signed by the water provider in order for CVCAA to be able to assist clients with their COSA water bills.

Other Information/Recommendation:

Staff recommends the City Manager be authorized to execute agreements and any related documents with Concho Valley Community Action Agency and LIHWAP to allow for this program to assist City of San Angelo utility customers.

Attachments:

1. LIHWAP Water Provider Agreement

LIHWAP Water Provider Agreement.pdf

Presentation:

Allison Strube

Approvals/Reviews:

Allison Strube

Shane Kelton

Theresa James

Allison Strube

Jeff Tomlinson

Tina Dierschke

Julia Antilley

Created/Initiated

Approved

Approved

Approved

Approved

Approved

Final Approval

LOW INCOME HOUSEHOLD WATER ASSISTANCE PROGRAM (LIHWAP)
“WATER PROVIDER AGREEMENT”

PURPOSE. The purpose of the Low Income Household Water Assistance Program (LIHWAP) grant is to provide emergency assistance to low-income households, particularly those with the lowest incomes that pay a high proportion of household income for water, storm water, drinking water, wastewater/sewer, and groundwater services collectively named (Water Services).

The Water Services Provider (Water Provider or Vendor), agrees to the terms of the LIHWAP grant and to accept payment from LIHWAP agencies only for eligible LIHWAP clients to whom Water Provider continues to provide Water Services. The Water Assistance Provider (Agency), agrees to make payments only for eligible LIHWAP clients.

PARTIES. This Water Provider Agreement is by and between:

Water Assistance Provider (Agency)

Water Services Provider (Water Provider)

The Agency and Water Provider are each a Party to the Water Provider Agreement and collectively known as the Parties.

Water Provider and Agency agree to assist eligible LIHWAP clients in the following Texas counties:

WATER SERVICES. Water Services provided and billed by Water Provider:

- ☐ Water Fees
- ☐ Stormwater Fees
- ☐ Wastewater
- ☐ Sewer Fees
- ☐ Groundwater Fees
- ☐ Other: _____

TERM. This Water Provider Agreement shall be effective from the ____ day of _____, in the year _____, for a period not to exceed one year from the effective date, although the Parties can agree in writing to extensions for up to one additional year. Either Party may terminate this Water Provider Agreement by written notice. Such written notice of termination shall not affect any obligation by either Party incurred prior to the receipt of such notice.

NOTICE. Notice shall be sent via certified mail to the addresses below with return receipt requested.

(Water Provider Name)

(Water Provider Mailing Address)

(Water Provider Certificate of Convenience and Necessity # (CCN))

(Agency Name)

(Agency Mailing Address)

AGENCY REPRESENTATIONS. The Agency named above represents and warrants to Water Provider that it is an entity under contract with the Texas Department of Housing and Community Affairs (TDHCA) and as such is authorized and has received funding from the TDHCA to provide bill payment assistance service for eligible LIHWAP clients. In addition, the Agency further represents and warrants to Water Provider that it has determined eligible LIHWAP clients to be eligible under the LIHWAP guidelines. The funds will be used to cover and/or reduce arrearages, rates and fees associated with reconnection, or prevention of disconnection of service, and to pay either partially or in full an eligible LIHWAP client's current due water bill, known as "Eligible Costs" related to Water Services.

WATER PROVIDER'S REPRESENTATIONS. The Water Provider named above represents and warrants that it will apply any payments received from Agency to the eligible LIHWAP client's account related to Eligible Costs.

Both parties acknowledge that this Water Provider Agreement and the services provided by the Water Provider are governed by and subject to the federal and state laws and regulations in accordance with the LIHWAP.

AMENDMENTS. Any and all amendments to this Water Provider Agreement shall be in writing, approved by TDHCA, and agreed upon by both Parties.

WATER PROVIDER'S RESPONSIBILITIES. Water Provider will, with reference to an eligible LIHWAP client:

- Provide the Agency with at least one designated contact person who shall be available to respond by telephone and email to all reasonable inquiries regarding eligible LIHWAP clients and client accounts including but not limited to bills, payments, and services.
- Provide water services to each eligible and approved household for which payment is provided under LIHWAP.
- Extend the potential LIHWAP application for water services for up to ten calendar days while the Agency determines whether the potential LIHWAP applicant is eligible pursuant to the LIHWAP.
- Upon accepting payment from Agency for the eligible LIHWAP client, continue or restore water services to eligible LIHWAP client with no increases in charges, service charges or other charges or fees affecting the total cost of the bill, except as allowed by the stated tariff cost registered with the Public Utility Commission "PUC".
- In the event the Agency requires the eligible LIHWAP client to pay a portion of the bill prior to having a pledge made on their account on or before the disconnect date, as stated in the client's Disconnect Notice as required by PUC regulations, nothing in this agreement requires the Water Provider to delay a disconnect if the eligible LIHWAP client has not paid their required portion.
- Invoice the eligible LIHWAP client in accordance with Water Provider's normal billing practices.
- Upon verbal or written request from Agency, provide at no cost to the Agency the eligible LIHWAP client's billing and usage history for previous twelve months, or available history plus monthly estimates if less than twelve

months of billing history and usage is available. Water Provider will transmit such billing history via electronic mail or facsimile as soon as possible, but no later than forty-eight hours following the request.

- Work with Agency and eligible LIHWAP client to explore the feasibility of offering flexible payment arrangements that may include, without limitation, waiving security deposits, reconnect fees, application fees, and all other fees whenever possible.
- Not discriminate against eligible LIHWAP client in price or services, including the availability of deferred payment plans, level or average payment plans, discount, budget, advance payment or other credit plans.
- Not refuse to provide water service or otherwise discriminate in the marketing and provision of water service to any eligible LIHWAP client because of race, creed, color, national origin, ancestry, sex, marital status, age, lawful source of income, level of income, disability, financial status, location of client in an economically distressed geographic area, or qualification for low-income or water-efficiency services.
- Allow Agency forty-five days from the date of pledge for assistance payment to forward payment to the Water Provider. Water Provider agrees not to consider the portion of the eligible LIHWAP client's account to be paid by the Agency delinquent if said payment is received within the above mentioned forty-five day period, and Water Provider is provided with a verbal or signed pledge from the Agency within forty-five days of identifying an eligible LIHWAP client.
- Not interrupt service if eligible LIHWAP client is eligible under PUC regulations, or other state agency regulations (as applicable), and enters into an agreement with the Water Provider concerning how the eligible LIHWAP client will pay the balance owed Water Provider and the eligible LIHWAP client is meeting the obligation under such agreement.
- If the Agency has paid for an initial deposit or similar refundable instrument, upon the termination of service to the eligible LIHWAP client, the Water Provider shall return funds including interest (after any balance owed) to the Agency in accordance with PUC regulations or 10 Texas Administrative Code §6.312(f) (as applicable).
- Not apply LIHWAP payments to account balances that have previously been written off or paid with other funds.
- Not apply LIHWAP payments to commercial accounts. LIHWAP payments must only be applied to residential accounts.
- Clearly enter, on LIHWAP household bills, the amount of LIHWAP payment(s) received in a manner which identifies the payment as received from LIHWAP or at least the amount paid by LIHWAP shown as credited.
- Continually maintain accurate records of LIHWAP credit balances and annually reconcile accounts. After one year, credit balances must be refunded to the Agency, in compliance with LIHWAP Water Provider Refund Policies.
- Not exchange the household's credit authorization for cash or give any cash equivalent for excess credit.
- Cooperate with any Federal, State, or local investigation, audit, or program review. Understand that failure to cooperate with any Federal, State, or local investigation, audit, or program review may result in the immediate disqualification from participation in the LIHWAP.
- Water Provider's application materials should include language that authorizes the Water Provider to release the applicant's information as described below to the Agency, Texas Department of Housing and Community

Affairs, Texas State Auditor's Office, Office of the Attorney General of Texas, U.S. Department of Health and Human Services, the U.S. Department of Health and Human Services Internal Auditor, or the designee of any of these governmental agencies.

- Data related to a eligible LIHWAP client's Water Services and payments must be provided within a timeframe specified by the Agency at no cost and must be provided in the format requested by the Agency. The data must be provided to the Agency for the purposes of verification, research, evaluation, analysis, and reporting. The eligible LIHWAP client's signed LIHWAP application will authorize the Water Provider to release this information to the Agency.

AGENCY RESPONSIBILITIES. The Agency will:

- Accept written referrals for LIHWAP benefits by the Water Provider, and evaluate whether the referral is eligible as an eligible LIHWAP client.
- Obtain written permission for Agency to request and have access to eligible LIHWAP client information, including confidential or personal account information, credit and payment history, from eligible LIHWAP client's seeking Agency assistance. Social Security numbers are not required for the LIHWAP program and may not be disclosed to Agency.
- Provide to Water Provider, at Water Provider's request, eligible LIHWAP client's written permission for Agency's access to eligible LIHWAP client's information as stated above.
- Review invoice(s) submitted by the Water Provider. The Agency may request additional documentation and/or clarification of charges as needed. No payment will be made without all required documentation/clarification of charges.
- Not provide payments on behalf of an eligible LIHWAP client to Water Provider without having adequate funds to pay such payments.
- Provide payment to the Water Provider after receipt of proper invoices, and any additional required documentation or clarification, for services rendered pursuant to this Water Provider Agreement, upon full compliance by the Water Provider with the terms herein within 45 days.
- Determine if a client is LIHWAP eligible within ten calendar days of contacting Water Provider.
- Provide Water Provider a list of names, telephone numbers and e-mail addresses of Agency staff designated to make payments on behalf of the Agency and eligible LIHWAP clients, if requested from Water Provider.
- Comply with all relevant state and federal laws and regulations in its implementation of the LIHWAP. Follow all supplemental terms and conditions as set forth by the U.S. Department of Health and Human Services. The Agency shall provide notice of any changes or amendments to policies or guidelines for the LIHWAP.

CONFIDENTIALITY. The terms of any confidential transaction under this Water Provider Agreement or any other information exchanged by the Agency and Water Provider relating to any transaction shall not be disclosed to any person not employed or retained by the Agency or Water Provider, their affiliates, or brokers, except to the extent disclosure is 1) required by law; 2) necessary to disclose to the other Party in connection with a dispute between the Parties; 3) otherwise permitted by written consent of the other Party; 4) required by guarantors to be disclosed; 5) information which must be disclosed to a third Party to transmit water; 6) to meet reliability council, regulatory, administrative, judicial, governmental, or regulated commodity exchange requirements where necessary; or 7) information which was or is hereafter in the public domain (except by breach of this Water Provider Agreement).

Authorized Water Provider Signature	Date
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Typed Name of Authorized Signature	Title
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Water Provider Telephone Number

Water Provider Email Address

Authorized Agency Signature	Date
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Typed Name of Authorized Signature	Title
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Agency Telephone Number

Agency Email Address

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Veronica Sanchez, Asst Dir of HR/RM, Human Resources/Risk Management, (325) 657-4221

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider approving a fourth amendment to the Interlocal Agreement between the City of San Angelo and Tom Green County for use of the City of San Angelo health clinic (Veronica Sanchez)

Staff Recommendation:

Approve

Summary/History:

Tom Green County employees currently use Shannon Urgent Care clinics through the City's clinic contract. The City invoices Tom Green County to cover this cost on a monthly basis. This amendment allows the City to include the 3% annual increase from Shannon to the per visit cost in the monthly invoice to Tom Green County. There is no additional cost to the City with the approval of this amendment.

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Staff recommends approval of this amendment to eliminate the need to amend this interlocal agreement annually due to standard fee increases.

Attachments:

Presentation:

Veronica Sanchez

Approvals/Reviews:

Veronica Sanchez
Bryan Kendrick
Theresa James
Jeff Tomlinson
Tina Dierschke
Julia Antilley

Created/Initiated
Approved
Approved
Approved
Approved
Final Approval

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Sidney Walker, Civic Events Manager, Civic Events, 3256539577

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider amending the Civic Events Facility policies to allow hiring private security guards when San Angelo Police officers are unavailable (Sidney Walker)

Staff Recommendation:

Approve

Summary/History:

Civic Events staff, in conjunction with the Civic Events Advisory Board's policy and procedures committee, have worked together to recommend changes to the current facility policies. Two changes were made overall to the policies.

One of the changes made were two definitions added which include "SAPD" meaning San Angelo Police Department and "Private Security Company" which is any business with principal place of business in San Angelo, Texas licensed to perform security services within the state of Texas.

The other changes was amending the sections titled "Alcohol" and "Security" to ensure that if SAPD are not able to fill the positions needed within 14 days of the event, SAPD must notify Civic Events of the unfilled positions. If the position can not be filled by a Texas State certified police officer, a local insured and certified security company can be hired for the event needed.

The last time City Council approved changes to the policies was April 16, 2019.

Funding Source(s):

Financial Impact:

No fiscal impact directly associated with this item.

Other Information/Recommendation:

None.

Attachments:

1. CE Policy Upate (Draft) Amended to Address Security CE Policy Upate (Draft) Amended to Address Security.pdf

Presentation:

Sidney Walker

Approvals/Reviews:

Sidney Walker

Carl White

Theresa James

Julia Antilley

Created/Initiated

Approved

Approved

Final Approval

CIVIC EVENTS FACILITY POLICIES

(Approved by City Council on ~~Jan 5, 2022~~ April 16, 2019)

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Purpose Statement:

The purpose of this document is to provide procedures and guidelines to follow in the Civic Events Department. These procedures and guidelines should be viewed as directional, informative, and provide guidance for all involved with Civic Events, unless specific policies are negated by existing ordinances.

The development and review of the Civic Events Policies should originate with the Civic Events Departments with recommendations from the Civic Events Advisory Board and approved by City Council.

Definitions:

Booking – an event with a fully executed Short-Term Facilities Agreement and required payments according to the fee schedule.

Capped Payment - A payment that is allowed to fluctuate, but which cannot surpass a stated amount.

Hold – a request from a lessee for a date.

Required Payment – the payment of all required fees according to the fee schedule for the requested event.

SAPD – San Angelo Police Department.

Scheduled - an event date held with a required payment, but no executed agreement.

Private Security Company – Any business with principal place of business in San Angelo, Texas licensed to perform security services within the state of Texas.

Ticketed Events – Any event that requires a fee for admission including trade shows, tool sales, boat shows, etc.

Total Gross – all earnings from all revenue sources for an event, before deductions.

ADVERTISING AND NAMING RIGHTS

The City's contracted agent for marketing naming rights sponsorships and advertising on City properties holds the exclusive right to solicit and make such contracts on the City's behalf. All such transactions must be conducted by and through the contracted advertising agent.

The City's contracted advertising agent holds the exclusive right to place City advertising (other than public notices and employment ads) with media outlets.

ALCOHOL

The City's contracted Concessionaire holds exclusive rights to provide alcohol at all Civic Events venues (Coliseum, Convention Center, RiverStage, Paseo, Indoor Arena, Farmers Market). Except for non-ticketed events at the RiverStage, the Paseo, and Pecan Creek Pavilion no alcoholic beverages may be brought on the premises of any Civic Event venue unless purchased by the City's Concessionaire for resale. No glass containers are allowed in Civic Events venues. Per the Concessionaire contract, the Concessionaire agrees to "provide full and complete alcoholic beverage service, including ice, for each event held on the Premises for which alcoholic beverage service is requested by the client and which service is approved by the City Manager of his designee."

Alcoholic beverages may be brought into the RiverStage, the Paseo, and Pecan Creek Pavilion during non-ticketed events. Lessee must provide liquor liability insurance that names the City of San Angelo as additional insured. Liquor Liability insurance may be purchased through the City's Risk Management Department. Lessee must employ at Lessee's sole expense, a local off-duty uniformed SAPD certified peace officer(s) as security at all functions at which alcohol is present. The Civic Events Manager will determine the number of officers necessary and request them from SAPD no less than 30 days before the event. If SAPD cannot provide officers within 14 days of the request, the Civic Events Manager may contract for security for the event with any Private Security Company.

All local ordinances and state laws pertaining to alcoholic beverages must be adhered to.

BOOKING

With the exception of conventions and public events attended by at least 500 people, the use of facilities may be booked up to one (1) year in advance unless otherwise approved by the Civic Events Manager and documented for the Civic Events Advisory Board.

Facilities and dates are considered a contractual, or confirmed, commitment only upon the execution of the Short-Term Public Facility Agreement by the event sponsor and the Civic Events Manager specifying all details of the commitment and the receipt of the required payment. --

Staff will inform promoters of any like events that are booked to occur one month prior to or after their planned event.

BOOKING SCHEDULE

For non-ticketed events, a fully executed Short-Term Facilities Agreement and required payment must be received within 10 days of the Lessees request. If the full fee and executed contract is not received by such date, the booked date may be released.

For ticketed events, a fully executed agreement and a payment in the amount of the facilities rent fee must be received within 10 days.

Convention & Visitors Bureau is allowed to hold dates no more than five years in advance unless agreed upon with Civic Events Manager. If less than a year out, Civic Events shall inform CVB of pending convention dates to ensure that they are released in a timely manner for open public or private bookings.

CAMPER HOOKUPS

INDOOR ARENA –There are electrical hookups available at a rate by the Council approved fee schedule. There are no water or sewer connections. The charge for camper hookups will be included in the event’s settlement agreement. Prices will be adjusted to match those charged at the San Angelo Fairgrounds by the San Angelo Stock Show & Rodeo Association anytime the SASSRA change rates.

PASEO GROUNDS – There are electrical hookups available at a rate by the Council approved fee schedule. There are no water or sewer connections. The charge for camper hookups will be included in the event’s settlement agreement. Prices will be adjusted to match those charge at the Indoor Arena anytime rates change there.

CANCELLATION/REFUNDS

If the Civic Events Manager cancels a Short-Term Public Facility Agreement at any time, Lessee will receive a full refund of all payments made. If Lessee cancels the Public Facilities Agreement prior to ninety (90) days before the event, Lessee will receive a refund equal to one-half of the required payment. If the Lessee cancels the Public Facilities Agreement within ninety (90) days of the event, Lessee will forfeit the entire payment.

CAPPED RATE FOR PUBLIC TICKETED EVENTS

The Civic Events Manager has the authority to negotiate a capped payment of the Civic Event’s facility being rented by a promoter or event company for ticketed

events. The capped payment cannot be less than the rental rate that is stated on the Fee Schedule and cannot exceed 10% of the total gross.

CARSHOWS

Shows involving the display of cars, motorcycles and/or other motorized vehicles must place drip pans under all vehicles and must comply with all fire codes.

CATERER REQUIREMENT AND PAYMENTS

All caterers must sign and adhere to a Catering Agreement with the City of San Angelo. Lessees can use only those caterers that are on the City's Approved Caterer's List.

Reinstatement of catering privileges lost because of non-payment requires full payment of outstanding balances and late fees, and approval by the Civic Events Manager. The Civic Events Manager reserves the right to require a payment in advance on future bookings from caterers who have been delinquent in payment.

Lessees may provide their own food at private events if neither the preparer of the food is paid any fee nor anyone attending the event is charged for eating the food.

CONCESSIONS

The City's contracted concessionaire holds exclusive rights to provide food and non-alcoholic beverages at the Coliseum, Convention Center River Stage, and Tiered Plaza. The City's contracted concessionaire holds exclusive rights to sell food and non-alcoholic beverages at the Indoor Arena for ticketed events only. The City's contracted concessionaire holds exclusive rights to sell alcohol at ticketed events at the Coliseum, Convention Center, Farmer's Market, Indoor Arena, Paseo Pavilions, Pecan Creek Pavilion and Park, River Stage, and Tiered Plaza.

CONVENTION CENTER KITCHEN

The Convention Center kitchen is a "catering kitchen" that may be used by caterers only if they have signed a Catering Agreement with the City of San Angelo and are on the City's Approved Caterers List. Any lessee who rents the Convention Center is allowed to use the Convention Center's ice machine and reverse osmosis water system. Any Lessee who is not a City approved caterer wishing to bring food into the Convention Center for their function may use the kitchen after paying a \$100/day fee in advance. The fee includes use of the Convention Center's refrigerator, freezer, tea and coffee makers, warmers and food preparation areas. Cooking by anyone other than a City-approved caterer is not allowed.

If Lessees fail to clean the kitchen to the satisfaction of the Civic Events Manager of the Manager's designee, the amount of staff time and cleaning materials associated with the cleanup will be billed to the lessee.

DAMAGE/ CLEANING COST

Lessees shall be responsible for returning Civic Events property to pre-event condition and agree to compensate Civic Events for damages or clean up costs. Clients renting the El Paseo, Pecan Creek Pavillion, or the Farmers Market must clean up after the event has ended. Civic Events employees will conduct a pre-and post-event survey of City property with the applicant to verify condition of City property. Cost for clean up will be charged at hourly staff rates plus the direct cost of any repairs. All damages will be assessed by the Risk Manager and the cost will be billed to the Event applicant.

DONATION vs. TICKETED EVENT

Any monetary amount suggested or required for entrance or admission into an event shall be considered a ticketed event, which is subject to a rental rate of 10 percent of gross ticket sales. If admission to an event consists of "Donations Only," the base rental for the facility will apply

EMERGENCIES

Civic Events staff will be available or on call at all times during an event. Certified peace officers will be on the premises if required. (See "Security.")

FACILITY DISCOUNTS

Organizers/promoters of existing established events will be offered a 50-percent discount from the daily rental rates of Civic Events facilities if:

- ~~They show a history of using an average of at least 200 hotel rooms per night during their event. "Existing, established events" are defined as events that have met at least annually for a minimum of the past three years.~~
- They work through the San Angelo Chamber of Commerce's Convention and Visitors Bureau to book and plan their event.
- They offer documented proof within 10 working days of the end of their event, either through themselves or the Convention and Visitors Bureau, that an average of 200 San Angelo hotel rooms per night were booked and used during the course

of the event. After the event, rooms will be tracked based on pick up reports returned to the CVB by the hoteliers.

Organizers/promoters of existing established events could earn larger facility rental discounts at the rate of 1 percentage point for every 15 rooms above the average of 200 San Angelo hotel rooms per night.

Organizers/promoters of existing established events must pay a required payment equal to the contracted discount of the facility's rental fee. Failure to provide documented proof within 10 working days from the end of their event of the average number of San Angelo hotel rooms booked and used per night during the course of the event will result in the loss of the required payment.

Organizers/promoters of new events can earn a 50-percent discount off the daily rental rates of Civic Events facilities by following the same procedure as existing events. New events must pay a required payment equivalent to the full rental rate. If the promoter~~they~~ provides documented proof within 10 working days from the end of their event, either through themselves or the Convention and Visitors Bureau, that an average of 200 San Angelo hotel rooms were booked and used during the course of the event, 50 percent of the required payment will be refunded to the organizer/promoter as part of the event's settlement agreement.

If ~~they~~ promoter provides documented proof within 10 working days from the end of their event, either through themselves or the Convention and Visitors Bureau, that an average of 150 San Angelo hotel rooms were booked and used during the course of the event, 33 percent of the required payment will be refunded to the organizer/promoter as part of the event's settlement agreement.

If ~~they~~ promoter provides documented proof within 10 working days from the end of their event, either through themselves or the Convention and Visitors Bureau, that an average of 100 San Angelo hotel rooms were booked and used during the course of the event, 25 percent of the required payment will be refunded to the organizer/promoter as part of the event's settlement agreement.

Deviations from this policy must be reviewed and approved by the City's Civic Events Advisory Board.

FACILITY USE FEE

A facility fee per ticket is charged on all tickets sold as shown on fee schedule.

Promoters may comp only 10% of the total amount of sold tickets. If a promoter comps more than 10% of the sold amount, the promoter must pay the Facility Use Fee on each ticket above the 10% threshold.

~~Non-profit organizations will pay a facility use fee of .50 cents/ticket, or .25 cents if they qualify as multiple date users.~~

GLASS CONTAINERS

Glass containers are prohibited in Civic Events facilities per city ordinance, with the exception of wine glasses, wine bottles and punch bowls in the Convention Center.

INSURANCE

The sponsor of an event is required to have commercial general liability insurance for bodily injury or death in the minimum amount of \$1,000,000 and property damage to rented premises in the minimum amount of \$100,000. Such coverage shall name the City of San Angelo as additional insured and provide for a waiver of subrogation of all claims in favor of the City. The insurance must be issued by a company licensed to do business in the State of Texas. Lessee must furnish proof of coverage to the Civic Events Manager or his designee at least ten (10) business days prior to the event. In the event Lessee wishes to purchase insurance through the City's Risk Manager, ~~estimated payment of insurance is due/payable at the time the Public Facilities Agreement is signed.~~

INTERNAL USE POLICY

The use of Civic Events facilities by City departments and divisions is governed by the City's internal use policy, approved by the City Manager on August 18, 2009..

MULTIPLE USE

A client contracting for a minimum of ten (10) events in a calendar year (January – December) for use of the small meeting rooms (those other than the 12,000-square-foot large meeting room in the center of the facility) at the Convention Center will be granted a twenty-five percent (25%) discount per room, during weekday business hours, provided additional labor is not required or other costs are not imposed on the City. In the event additional labor is required or other costs are imposed, Lessee will pay such costs at the regular rates.

A client contracting for a minimum of four (4) public ticketed events at one time at the River Stage, Convention Center or Coliseum within a 12-month span will be deemed a multiple user. A rental rate of 50% off of the facilities rental rate will be applied to the fourth concert. The fourth concert must be held at either the River stage or the Coliseum.. The discount will apply if one of the concerts is cancelled by circumstances beyond the

promoter's control, including weather, an act of God, the unavailability of the venue because of a natural disaster or other emergency operation, or the health of the performer.

Multiple use for all other events is defined in the "facility use fee" policy.

NOVELTIES

The percentage of all after tax revenue from sale of novelties, or a flat fee for novelty sales negotiated prior to the event by the Civic Events Manager, is due and payable to Lessor immediately following the completion of sales or no later than the day of the event if a flat fee is negotiated. These novelty items include printed programs, souvenirs, tapes, CDs, books, T-shirts and other items identified as a novelty by the Civic Events Manager. Exhibitors and vendors directly related to a convention or trade show are exempt from this policy.

OUTSIDE FOOD AND BEVERAGE

Unless approved by the Civic Events Manager, the public is prohibited from bringing food and beverages that are not purchased on site into the Coliseum, Convention Center, and River Stage during events at which concessions are offered for sale, excluding the San Angelo's Symphony's July 3 Pops Concert at the River Stage.

POST-EVENT BREAKDOWN – (OUTSIDE VENUES)

If Lessee chooses to pay for pickup of litter and/or removal of decorations at any outside venue, Lessee will pay the hourly staff rate. Should the breakdown require staff overtime, Lessee will be charged the resulting overtime rate.

RESTRICTIONS – (OUTSIDE VENUES)

FARMER'S MARKETS – No painting will be done in or around the Farmer's Market. Any violations of this policy will result in the Lessee's being billed at cost to return the venue to its prior condition.

PASEO GROUNDS – No painting will be done in or around the Paseo Grounds. No motor vehicles, with the exception of RV's, are allowed on the Paseo Grounds. Only golf cart-type vehicles and power-operated vehicles for handicapped individuals are allowed on the Grounds. Any exceptions require prior approval by the Civic Events Manager or the Manager's designee. Care must be taken with those exceptions to prevent damage to park infrastructure (i.e. irrigation systems and sprinkler heads). Tents may be staked on the Paseo grounds only at designated or approved locations.

Neither coals, grease, briquettes, charcoal nor any other remnant from a grill, fryer or other cooking appliance may be dumped on the Paseo grounds.

Any violations of this policy will result in the Lessee being billed at cost to return the venue to its prior condition.

PASEO PAVILIONS – No nails, tacks, pins or tape will be put in or on any structure. Decorations may be attached with strings or zip ties, provided they are not attached to fans and all strings and zip ties are removed after the event. No painting will be done in or around the Pavilions. No motor vehicles are allowed in the Pavilions. Only golf cart-type vehicles and power-operated vehicles for handicapped individuals are allowed in the Pavilions. Any exceptions require prior approval by the Civic Events Manager or the Manager's designee. Tents may not be staked in the pavers between the pavilions. Tents may not be anchored by tying to any fixture, including light poles, flagpoles, monuments or the pavilions. Tents may be anchored with water barrels.

Neither coals, grease, briquettes, charcoal nor any other remnant from a grill, fryer or other cooking appliance may be dumped in the Paseo pavilions.

Any violations of this policy will result in the Lessee being billed at cost to return the venue to its prior condition.

RIVER STAGE – No nails, tacks, pins or tape will be put in any wall. Decorations may be attached with strings and zip ties, provided all strings and zip ties are removed after the event. No painting will be done in or around the River Stage. Tents may be staked on the River Stage grounds only at designated or approved locations.

Any violations of this policy will result in the Lessee being billed at cost to return the venue to its prior condition.

SECURITY

Lessees and/or sponsors of an event must have Texas State certified police officers present, if required by the Civic Events Manager. This requirement, as well as the number of officers needed, will depend on the type of event (including activities), number of anticipated attendees at the event, whether or not alcohol will be consumed at the event, as well-as other factors.

If certified police officers are required for an event, at least one of the officers must be a City of San Angelo officer. If certified police officers other than City of San Angelo officers provide security at an event, the event sponsor must coordinate those officers and inform the Civic Events division that the officers have been secured for the event.

The San Angelo Police Department will work with the Civic Events Division to coordinate SAPD security officers for the event. SAPD is responsible for collecting payment from the lessee at the conclusion of the event. SAPD is responsible for collecting payment from the lessee at the conclusion of the event.

If SAPD are not able to fill the positions needed within 14 days of the event, SAPD must notify Civic Events of the unfilled positions. If the position can not be filled by a Texas State certified police officer, a local insured and certified security company can be hired for the event needed.

All public ticketed events must provide private security for bags and guest checks.

Prohibited items: alcohol, animals, bottles, cans, and beverage containers of any kind, costumes, firearms, permitted by law, flasks, inflatable objects, laser pointers, mace (pepper spray or tear gas), outside food or beverages, poles, sticks, or rods of any kind, swords, video cameras, (*only at public ticketed events).

Exceptions will be made for those with medical requirements and/or special needs.

All “Short-Term Public Facility Agreements” must abide by the prohibited items list.

SMOKING

City ordinance prohibits smoking in all indoor and outdoor venues and at the River Stage. Smoking is prohibited underneath the Paseo, Farmers Market, Indoor Arena and Pecan Creek Pavilion. Smoking is allowed in designated areas this includes Vaping.

SPECIAL EVENTS

If an event that utilizes a Civic Events venue also makes use of other public properties, the organizers of that event must seek a Special Events permit and comply with the City’s Special Events policy.

It is the sole responsibility of clients leasing all facilities to obtain and pay for all necessary permits to meet the City of San Angelo’s requirements. These include but are not limited to street closure, health and sign permits.

STALLS – INDOOR ARENA

There are horse stalls available at the Indoor Arena. For the price per stall, see the Fee Schedule. The cost will be included in a Lessee’s final settlement. Temporary stalls in the arena are prohibited until all permanent stalls are rented and only if approved by the Civic Events Manager.

TENTS

Tents may be utilized at the Coliseum and Convention Center parking lots as long as the stake holes are filled and the lot is returned to the pre-tent condition at the conclusion of the event. Tents may be staked on the Paseo and River Stage grounds only at designated or approved locations. Stake holes must be filled with dirt and the grounds returned to the pre-tent condition at the conclusion of the event.

TICKET VENDOR GUIDELINES

General

The City of San Angelo is requesting qualifications from vendors for facility ticketing services. All qualified vendors will be added to a non-exclusive, approved vendor list that promoters will be allowed to select from for ticketed events at City facilities.

Scope of Services

In order for a Qualification to be considered, the vendor must demonstrate a capacity to perform all of the services described below to provide ticket sales and services for public events. The qualified vendors will then be able to provide ticketing services for City events upon request.

When booking a ticketed event, promoters are allowed to pick a ticketing vendor who has the authority to sell tickets for events at our Civic Event Facilities. The ticketing vendor must meet the requirements below to be added to the vendor list.

1. The provider shall be a sole proprietor and not be a third party ticket distributor or affiliate.
2. The provider shall staff events for Box Office sale the day of and during the event at no cost to the City of San Angelo ("City"). Provided staff cannot be a relation/family member of the promoter of the event.
3. The provider shall be able to provide the City with all equipment needed for day-of operations (ie. ticket scanners, etc.) for all public events for which tickets are sold. The City will provide one staff person to take tickets at no charge. Provider shall bear all costs of any additional staff needed to take tickets on the day of the event.

4. The provider shall be able to build the event with the promoter and Civic Events based on the venue and design and print tickets. No tickets shall go on sale until the venue set up is approved in writing by the Civic Events Manager.
5. The provider shall be able to provide detailed reports with information on the amount of tickets sold, event revenue, and customer demographics to Civic Events at the conclusion of every event. The provider shall provide the Civic Events Manager with full access into the backend system to track ticket sales and run reports on the events for revenue and customer demographics.
6. The provider shall be able to provide "cash advance" on the day of the event for promoters, if requested. "Cash advance" must not be greater than what is owed to the City from the current tickets sold.
7. The provider shall be able to settle with Civic Events department after the box office is closed or at a time agreed upon in writing with the Civic Events Manager. The provider shall be able to settle with the Civic Events after the event, including facility fees, and venue rental fees and any other agreed fees. At settlement, the City will be paid by company check by either that promoter or the ticketing provider company. If the total outstanding balance to the City is under \$1,000, the provider is allowed to write the check.
8. The provider shall provide a phone or online customer ticketing order and information service to answer any ticketing questions.
9. The provider shall be able to provide at minimum one ticket outlet with all equipment necessary to ring up the ticket sales in real time. ~~additional ticket outlets at the City or the promoter's request for large events that warrant additional ticketing outlets.~~
10. The provider shall be able to provide refunds within 10 business days to the customers, if the event is cancelled.
11. The provider shall be able to handle all cash sales of public ticketed events. The City will not be involved with any cash dealings or purchasing of tickets.
12. The provider must provide the current insurance requirements to be operational at our facilities.

Commercial General Liability:

Minimum Limits:	\$1,000,000 Each Occurrence
	\$1,000,000 Personal and Advertising Injury
\$2,000,000 General Aggregate	
\$1,000,000 Products/Completed Operations Aggregate	\$100,000 Fire Damage

Business Auto Liability for any auto:

Minimum Limits: \$1,000,000 Combined Single Limits

Workers Compensation:

Minimum Limits:	WC EL	Statutory Limits
Disease		\$500,000 each accident
Disease		\$500,000 each employee
		\$500,000 policy limit

The seal of the City of San Angelo, Texas, is a circular emblem. It features a central design with a yellow sun rising over a green mountain range, which is set against a blue background representing water. The words "THE CITY OF SAN ANGELO" are written in a circle around the top, and "TEXAS" is at the bottom, flanked by two stars.

Item type: Consent Item

Created/Initiated
Approved
Approved
Approved

Julia Antilley

Final Approval

City of San Angelo Development Corporation

Business Resource Center

Office Lease Agreement

Basic Terms

Effective Date: January 1, 2022

Landlord: CITY OF SAN ANGELO DEVELOPMENT CORPORATION, a Texas municipal development corporation

Landlord's Address: 69 N. Chadbourne St., San Angelo, Tom Green County, Texas 76903

Tenant: Shad Wisener d/b/a South Plains Lamesa Railroad, LTD

Tenant's Address: 69 N. Chadbourne Street, San Angelo, Texas 76903

Phone: (806) 828-4841

Email: shad.wisener@splrr.com

Leased Premises: Office suite number 210.5 and 210.6, located on the second floor of the Business Resource Center, 69 N. Chadbourne St., San Angelo Texas, being approximately 191 square feet (210.5) and 144 square feet (210.6), as depicted in the diagram of second floor of the BRC, attached hereto as **Exhibit "A"** ("Leased Premises").

Term: One (1) year, commencing on the **Effective Date** and automatically extending for up to one (1) additional one year term, unless earlier terminated as herein provided.

Termination Date: December 31, 2022 subject to one extension of term for an additional year, Terminating on December 31, 23

Permitted Use: Tenant shall use the Leased Premises for the limited purpose of professional business office and related uses.

Zoning: The Permitted Use shall be subject to use restrictions in the designated zoning district for the Leased Premises. At commencement of the Lease Term the designated zoning district for the Leased Premises is "Central Business District" (CBD).

Initial Payment: Initial Rent Payment due and payable on execution of this Lease, is the sum of One Thousand Seven Hundred Three and 25/100 Dollars (\$1,703.25), which includes: (a) Five Hundred Ninety-Eight and 30/100 Dollars (\$598.30 – Suite 210.5) and (b) Five Hundred Thirty-Seven and 20/100 Dollars (\$537.20 – Suite 210.6) one time Security Deposit; and, (b) first month's rent of Two Hundred Ninety-Nine and 15/100 Dollars (\$299.15 – Suite 210.5) and Two Hundred Sixty-Eight and 60/100

Dollars (\$268.60 – Suite 210.6). The deposit is refundable within 30 days of termination or expiration of the lease, net of amounts credited to reimburse landlord for reasonable expenses necessary to restore the Leased Premises to their condition at commencement of the lease, normal wear and tear excepted.

Monthly Rent: Except as provided herein for the Initial Payment, monthly Rent shall be in the sum of Two Hundred Ninty-Nine and 15/100 Dollars (\$299.15 –Suite 210.5) and Two Hundred Sixty-Eight and 60/100 Dollars (\$268.60 – Suite 210.6), payable in advance on or before the 1st day of each month during the term of this Lease. Payments due under this Lease shall be made to the Landlord at 69 N. Chadbourne St., San Angelo, Texas 76903.

Clauses and Covenants

A. Tenant agrees to—

1. Lease the Premises on an annual term with rent payable in advance in equal monthly installments.
2. Comply with all applicable laws, ordinances, rules and regulations relating to Tenant's occupancy, use and maintenance of the Leased Premises.
3. Pay when due the Initial Rent Payment, regular Rent payments and any other payment obligation of Tenant under the terms of this Lease.
4. Pay to Landlord a late charge ten percent of the rent due plus interest accrued on the balance past due at the lower of ten percent (10%) per annum or the maximum rate allowed by law. Acceptance by Landlord of late rent, charges or interest shall not be construed as a waiver of the right of Landlord to terminate this Lease at its option as authorized herein.
5. Pay all taxes on Tenant's property located on the Leased Premises.
6. Use the Leased Premises for the Permitted Use only and uses incidental thereto in compliance with applicable law.
7. Tenant shall return the Leased Premises to Landlord in the same condition as when received, reasonable wear and tear accepted.
8. TENANT AGREES TO INDEMNIFY DEFEND, AND HOLD HARMLESS, LANDLORD, ITS BOARD MEMBERS, OFFICERS, AGENTS AND EMPLOYEES, FROM ANY AND ALL CLAIMS, FAULT, LIABILITIES, DEMANDS, SUITS, CAUSES OF ACTION, PROCEEDINGS OF ANY KIND AND JUDGMENTS FOR PERSONAL INJURY AND/OR PROPERTY LOSS OR DAMAGE, PLUS REASONABLE ATTORNEYS' FEES AND COST OF DEFENSE, WHICH THE INDEMNIFIED PARTIES MAY INCUR ARISING DIRECTLY OR INDIRECTLY OUT OF THE SOLE OR JOINT NEGLIGENCE, ERROR, OMISSION, OR INTENTIONAL ACTS OF TENANT IN THE EXERCISE BY TENANT OF THE PRIVILEGES CONFERRED UNDER THIS LEASE.

THIS INDEMNIFICATION, DEFEND AND HOLD HARMLESS AGREEMENT SHALL SURVIVE THE TERM OF THIS AGREEMENT AS LONG AS ANY LIABILITY COULD BE ASSERTED. NOTHING HEREIN SHALL REQUIRE THE INDEMNIFYING PARTY TO

INDEMNIFY, DEFEND OR HOLD HARMLESS ANY INDEMNIFIED PARTY FOR THE INDEMNIFIED PARTY'S OWN GROSS NEGLIGENCE OR WILLFUL MISCONDUCT.

9. Maintain Insurance as follows:

a. Tenant shall, at all times during the term hereof, maintain such insurance coverage as may be required by CITY and approved by the City of San Angelo Risk Manager of the types and in the amounts specified in **Exhibit "B"** attached hereto, which by this reference is incorporated into this Agreement for all purposes, and with insurers licensed to do business in Texas. All insurance required herein will defend and shall be drawn in the name of Tenant, with CITY, its board members, officers, agents, guests, invitees, consultants and employees named as additional insureds, except on coverage for Workers' Compensation. Every policy required above shall be primary insurance. Any insurance or self-insurance benefits carried by CITY, its board members, officers, or employees, shall be excess and not contributory to that provided by Tenant. All such insurance, including renewals, shall be subject to the approval of the City of San Angelo Risk Manager for adequacy of protection and evidence of such coverage shall be furnished to the City Risk Manager on Certificates of Insurance indicating such insurance to be in force and effect and providing that it will not be canceled during the performance of Services under this Agreement without thirty (30) calendar days prior written notice to City. Completed Certificates of Insurance shall be filed with City's Risk Manager at City Hall, 72 W. College Avenue, San Angelo, Texas 76903, prior to Tenant occupying or utilizing the Leased Premises, provided however, that Tenant shall at any time upon request file duplicate copies of the policies of such insurance with CITY.

b. Tenant shall notify City's Risk Manager of any reduction or exhaustion of insurance policy aggregate limits. Should Tenant fail to immediately secure other insurance, as specified, for any policy canceled before expiration of the Lease Term or any extension thereof, City may procure such insurance and assess the cost thereof against Tenant as additional rent.

c. Tenant shall require its insurance carrier(s), with respect to Commercial General Liability and Automobile Liability insurance policies, to waive all rights of subrogation against CITY, its board members, officers, agents, guests, invitees, consultants and employees.

d. The procuring of such policies of insurance shall not be construed to be a limitation upon Tenant's liability or as a full performance of its obligations under the indemnification provisions of this Lease. Tenant's obligations are, notwithstanding said policies of insurance, for the full and total amount of any damage, injury or loss caused by or attributable to its occupation or control over the Leased Premises pursuant to this Lease or any extension thereof.

10. Vacate the Leased Premises on the last day of the Term.

B. Tenant agrees not to—

1. Use the Leased Premises for any purpose other than the Permitted Use, including that:

a. No permanent improvements shall be made or construction without the prior written consent of Landlord.

b. No storage or dispensing of petroleum products or hazardous materials without Landlord's prior written consent. ("Hazardous Material" being the presence of which requires investigation, notice or remediation under any federal, state or local statute, regulation, ordinance.)

2. Create or allow any nuisance or waste on Leased Premises.

3. Cause or allow a lien to be placed on the Leased Premises.

4. Assign this Lease or sublease any portion of the Leased Premises without Landlord's prior written consent.

5. Litter or leave trash or debris on the Leased Premises.

C. Landlord agrees to—

Lease to Tenant the Leased Premises subject to the terms and conditions herein provided beginning on the Commencement Date. Landlord covenants and agrees that at all times when Tenant is not in default under the terms of this Lease, Tenant's quiet and peaceable enjoyment of the Leased Premises for the Permitted Use shall not be disturbed or interfered with by Landlord or any person claiming by, through or under Landlord, except as otherwise may be specifically provided for under the terms of this Lease.

D. Landlord agrees not to—

Allow any use of the Leased Premises inconsistent with Tenant's Permitted Use, subject to the reservations of rights herein stated, and so long as Tenant is not in default.

E. Landlord and Tenant mutually agree to the following:

1. *Rent Adjustment.* N/A.

2. *Disclaimer of Warranties.* ALL WARRANTIES OF LANDLORD THAT MAY ARISE IN COMMON LAW ARE EXCLUDED. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THOSE EXPRESSLY STATED IN THIS LEASE.

3. *RESERVATIONS.* LANDLORD OPERATES THE BUSINESS FACTORY INCUBATOR PROGRAM AND IN ADDITION TO TENANT, OFFICE SPACE IN THE BRC IS OCCUPIED BY VARIOUS PRIVATE BUSINESS ENTITIES. LANDLORD IS RESPONSIBLE FOR BUILDING OPERATION AND MAINTENANCE OF COMMON AREAS, INCLUDING USE OF PARKING FACILITIES AND SECURITY. LANDLORD RESERVES THE RIGHT TO ADOPT REASONABLE RULES AND REGULATIONS RELATING TO OFFICE USE OF THE BRC BY MULTIPLE PRIVATE BUSINESS ENTITIES, IN ADDITION TO CITY, CITY OFFICES, AND ASU SMALL BUSINESS DEVELOPMENT CENTER. TENANT AGREES TO COMPLY WITH SUCH RULES AND REGULATIONS.

4. *Termination of Lease.* Landlord or Tenant may terminate this lease for convenience on thirty (30) days written notice to the other party. *The foregoing provision for termination is in addition to termination pursuant to Default by Tenant, under Section 9 herein.*

5. *No Encumbrances.* Tenant shall not have the right to encumber the Leased Premises.

6. *Transfer, Assignment and Subletting.* Tenant may not transfer, assign or sublet the Leased Premises, in whole or in part, without the prior written consent of the Landlord, which consent may be withheld in the sole discretion of Landlord.

DRAFT

7. *Fees Related to Leased Premises.*

a. *Utilities:* Usual utilities (electric, water, HVAC) are provided by Landlord. Telephone and other services are provided by Tenant at Tenant's expense. Any use of Landlord's copier will be charged as additional rent at the rate of \$.10 per page for color copies. Landlord will permit Tenant up to 250 black and white copies per month without charge. Each black and white copy exceeding 250 in any calendar month will be charged as additional rent at the rate of \$.08 per page.

b. Tenant will be permitted occasional use of the conference room located on the first floor of the BRC without charge, unless Tenant charges a fee for attendees at a meeting or event utilizing the conference room. Tenant will be charged as additional rent at the rate of \$75 for half day (up to four hours) or \$175 for full day (exceeding four hours but not more than eight hours). Scheduling of use of the conference room will be pursuant to BRC policy approved by Landlord.

c. *Taxes:* Tenant shall be solely responsible for the payment of any taxes assessed relating to Tenant improvements or personal property placed upon the Leased Premises. Tenant shall pay all such taxes, charges, and assessments to the public officer charged with the collection thereof not less than fifteen (15) days before the same shall become delinquent, and **Tenant agrees to indemnify and save harmless Landlord from all such taxes, charges and assessments.** Failure to pay such taxes and assessments as provided herein shall, at the option of Landlord, result in termination of this Lease.

8. *Default by Tenant/Events.* The following shall constitute events of default by Tenant:

- a. failure to timely pay Rent or other charges payable by Tenant under this Lease; or,
- b. failure to comply with any provision of this Lease Agreement other than timely payment of Rent.

9. *Default by Tenant/Landlord's Remedies.* Landlord's remedy for Tenant's default, after providing a notice describing the nature of default and such default continues for a period of ten (10) days after notice, is to terminate this Lease Agreement by written notice, take possession of the Leased Premises, and seek judicial relief for costs, rents due and such other damages or relief to which Landlord may be entitled. Landlord may enter and take physical possession and control over the Leased Premises on termination of this Lease by self-help, and may prohibit the Tenant in default or any other person who may be occupying the Leased Premises, from access thereto or the use thereof, and shall not be liable in trespass or for damages therefore.

10. *Default/Waiver/Mitigation.* It is not a waiver of default if the Landlord fails to declare immediately a default or delays in taking any action. Pursuit of any remedy set forth in this Lease does not preclude pursuit of other remedies under this Lease or provided by law.

11. *Reimbursement of Landlord's Expenses.* Tenant shall pay on demand Landlord's expenses necessarily incurred, including, but not limited to attorney's fees and court costs, to enforce any Tenant obligation under this Lease or to terminate this Lease for Tenant's default and retake physical possession of the Leased Premises.

12. *Amendment of Lease.* This Lease may be amended only by an instrument in writing signed by Landlord and Tenant.

13. *Notices.* Any notice required or permitted under this Lease must be in writing and delivered to the address for the recipient party. Any notice required by this Lease will be deemed to be delivered (whether actually received or not) on the second day after deposited with the United States Postal Service, postage prepaid, certified mail, return receipt requested, and addressed to the intended recipient at the address below. Notice may also be given by personal delivery or commercial courier delivery and will be effective when actually received. Any address for notice may be changed by written notice delivered to the other party as provided herein.

LANDLORD:

City of San Angelo
Attn: Dir. of Economic Development
69 N. Chadbourne St.
San Angelo, Texas 76903

TENANT:

Shad Wisener, d/b/a SPLRR, LTD
69 N. Chadbourne Street, Ste. 210.5 & 210.6
San Angelo, Texas 76903

14. *Entire Agreement.* This Lease Agreement constitutes the entire agreement of the parties concerning the lease of the Premises by Landlord to Tenant. There are no representations, warranties, agreements, or promises pertaining to the lease of the Leased Premises by Landlord to Tenant that are not in this Lease Agreement.

EXECUTED by the parties in duplicate originals on the dates indicated below.

TENANT:

Shad Wisener, d/b/a SPLRR, LTD.

BY: _____
Shad Wisener

DATE: _____, 2019

LANDLORD:

CITY OF SAN ANGELO DEVELOPMENT CORPORATION

Attest:

Nora Nevarez, Secretary

BY: _____
Max Puello, President

DATE: _____

APPROVED AS TO FORM

APPROVED AS TO RISK

Brandon Dyson, Deputy City Attorney

Charles Hagen, Risk Manager



210.8 124 sq. ft. Vacant	210.7 197 sq. ft. Vacant	210.6 144 Sq. Ft. Shad Wisener	210.5 191 sq. ft. Shad Wisener
			210.4 Vacant 161 Sq. Ft.
210.2 100 sq. ft. Vacant	210.1 105 sq. ft. Vacant		

EXHIBIT "B"

SPECIAL INSURANCE RIDER

TYPES AND AMOUNTS OF INSURANCE REQUIRED. Provider shall obtain and continuously maintain in effect at all times during the term hereof, at Provider's sole expense, insurance coverage as follows with limits not less than those set forth below:

- 1.1 Commercial General Liability.** Tenant shall obtain and maintain policies of insurance covering the Leased Premises and Tenant's activities thereon at all times during the Term, including comprehensive general liability insurance with a minimum combined occurrence and annual limitation of \$1,000,000.00; and Fire Damage on the building and fixtures with a minimum combined occurrence and annual limitation of \$150,000. This policy shall be an occurrence-type policy and shall protect Tenant and additional insureds against all claims arising from bodily injury, sickness, disease or death of any person (other than Tenant's employees) and damage to property of City or others arising out of the act or omission of Provider or its agents and employees. This policy shall also include protection against claims for the contractual liability assumed by Provider under the paragraph of this Agreement entitled "Indemnification".

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Nora Nevarez, Executive Office Coordinator, COSADC, 325-653-7197

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider ratifying an amendment to the Economic Development Performance Agreement by and between the City of San Angelo Development Corporation and Wisener Holdings, LLC d/b/a South Plains Lamesa Railroad Ltd. and authorizing the Board President or their designee to execute all necessary documents (Guy Andrews)

Staff Recommendation:

Approve

Summary/History:

City of San Angelo Development Corporation and Wisener Holdings, LLC d/b/a South Plains Lamesa Railroad Ltd. entered into a Development Agreement for construction of a rail transloading facility.

Under the Agreement, Wisener Holdings must demonstrate fulfillment of five obligations before December 31, 2021:

1. Complete a Minimum Capital Investment of \$1,000,000
2. Enter into a sublease of TxDOT rail right-of-way, track services agreement, or other agreements with Texas Pacifico
3. Complete installation of adequate rail in place to service initial contracted customers for rail transloading services
4. Open to the public rail transloading services
5. Maintain at least one, fully operational train locomotive on the Property available to perform transloading related services for the public.

Shad Wisener, Owner of Wisener Holdings LLC, requested modifications to the Benchmarks outlined on Exhibit "B" of the Agreement to accommodate document review for the sublease Agreement between Wisener Holdings and Texas Pacifico . He requested that his reporting deadline be extended to March 31, 2022. The effective date of the Amendment would be December 9, 2021.

The City of San Angelo Development Corporation Board of Directors approved item during their December 15, 2021 Regular Meeting.

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Staff recommends ratifying the proposed Amendment, in a form substantially approved by the City Attorneys Office and Director of Economic Development or their designees, and authorizing the Board President to negotiate and execute all necessary documents.

Attachments:

Presentation:

Guy Andrews

Approvals/Reviews:

Nora Nevarez	Created/Initiated
Guy Andrews	Approved
Tina Dierschke	Approved
Theresa James	Approved
Julia Antilley	Final Approval

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Nora Nevarez, Executive Office Coordinator, Economic Development, 325-653-7197

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider ratifying approval of the City of San Angelo Development Corporation authorizing the Board President to execute the Covenants, Conditions & Restrictions (CCRs) for Phase 2 of the San Angelo Business & Industrial Park (Guy Andrews)

Staff Recommendation:

Approve

Summary/History:

The CCR's (see attached) are the same as those recoded for San Angelo Gateway Addition Section 1 with the exception of several minor changes as follows:

The makeup of the Review Board has been revised to remove a member of San Angelo Industries and add a member of the COSADC staff, resulting in the makeup being (a) two Board Members of the City of San Angelo Development Corporation, (b) a representative of the San Angelo Chamber of Commerce, and (c) two representatives of the City of San Angelo Economic Development staff.

The Termination Date of the CCR's has been revised to January 1, 2042 making them effective for approximately 20 years.

The name of the Board President has been updated.

The City of San Angelo Development Corporation Board of Directors approved this item during their December 15, 2021 Regular Meeting.

Funding Source(s):

Financial Impact:

No fiscal impact

Other Information/Recommendation:

Staff recommends ratifying the City of San Angelo Development Corporation's Board of Directors' action authorizing the Board President to execute the Covenants, Conditions & Restrictions (CCRs) for Phase 2 of the San Angelo Business & Industrial Park.

Attachments:

1. DECLARATION OF COVENANTS PH 2

DECLARATION OF COVENANTS PH 2.pdf

Presentation:

Robert Schneeman

Approvals/Reviews:

Nora Nevarez

Guy Andrews

Tina Dierschke

Theresa James

Julia Antilley

Created/Initiated

Approved

Approved

Approved

Final Approval

DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS

Preamble

This Declaration of Covenants, Conditions, and Restrictions Is made on XXXXXX, 2022, at San Angelo, Tom Green County, Texas, by CITY OF SAN ANGELO DEVELOPMENT CORPORATION, a Texas corporation ("Declarant or Developer"), whose mailing address is 69 North Chadbourne Street, San Angelo, Texas 76903.

Recitals

1. Declarant is the owner of all that certain real property (hereinafter referred to as "SAN ANGELO BUSINESS AND INDUSTRIAL CENTER" or "Property") located in Tom Green County, Texas, described as follows: San Angelo Gateway Addition, Section 2, Block 3, 4, & 5, a subdivision of the City of San Angelo, Tom Green County, Texas, filed of record in cabinet H, Slide 36, of the Official Plat Records of Tom Green County, Texas; this Property also being known as the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER PHASE 2.

2. The Declarant has devised a general plan for the entire Property as a whole, with specific provisions for particular parts and parcels of the Property. This general plan provides a common scheme of development designed to protect and safeguard the Property over a long period.

3. This general plan will benefit the Property in general, the parcels and lots that constitute the Property, the Declarant, and each successive owner of an interest in the Property.

4. Therefore, in accordance with both the doctrines of restrictive covenant and Implied equitable servitude, the Declarant desires to restrict the Property according to these covenants, conditions, and restrictions in furtherance of this general development plan.

NOW, THEREFORE, it is declared that all of the Property and all tracts and lots within the Property shall be held, sold, leased and conveyed subject to the following easements, restrictions, covenants, and conditions.

EASEMENTS, RESTRICTIONS, COVENANTS, CONDITIONS

1. **ACREAGE CONTROL:** SAN ANGELO BUSINESS AND INDUSTRIAL CENTER lands shall not be subdivided either by sale, lease or otherwise, without approval of the Review Board.
2. **SET BACKS:** SAN ANGELO BUSINESS AND INDUSTRIAL CENTER shall have minimum building set back restrictions of 50 feet from the property line adjoining any street and 15 feet minimum set back restrictions from side and rear property lines inside the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER. Set backs of 100 feet from the surrounding Highways exist under separate deed restriction.
3. **PROVISIONS FOR OFF-STREET PARKING AND LOADING:** On-street parking and on-street loading shall not be permitted in the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER and all SAN ANGELO BUSINESS AND INDUSTRIAL CENTER lands shall be developed in such a way as to provide sufficient off-street parking. Parking and loading areas shall be paved to provide dust-free, all weather surfaces.
4. **OUTSIDE STORAGE:** Outside storage of material shall be permitted only where such storage is appropriately screened from all approaches.

5. TEMPORARY STRUCTURES, PORTABLE STRUCTURES: No temporary building or portable structure shall be moved onto any lot except that which is necessary in the construction of a pre-approved building. Temporary Structures shall include, but not be limited to, any garage, mobile home, trailer, tent, shack, barn or other outbuildings. Any building which was once a portable building, regardless of how same may be placed or attached to any lot in the addition, shall be classified as a temporary structure and such is strictly prohibited. Portable buildings include, but are not limited to, portable greenhouses, storage buildings, and all other portable buildings. Notwithstanding anything to the contrary herein, the Developer reserves the right to place a portable sales building on the Property for the purpose of conducting sales operations of the lots and tracts located within the Property.

6. MAINTENANCE: The owner of any tract or lot shall at all times keep the premises, buildings, improvements and appurtenances in a safe, clean, wholesome condition and comply in all respects with all government, health, fire and police requirements and regulations, and any owner will remove at his or its own expense any rubbish of any character whatsoever which may accumulate on said site or lot. All trash/garbage shall be placed in such containers and deposited for pickup as specified by said City of San Angelo or its said franchisee. In the event said owner fails to comply with any or all of the aforesaid specifications and/or requirements, then, and only then, the Developer shall have the right, privilege and license to enter upon the premises to make any and all corrections and/or improvements that may be necessary to meet such standards and charge to and collect from said owner the reasonable costs of making such corrections and/or improvements.

7. REVIEW BOARD: A Review Board is hereby created consisting of 5 persons (a) two Board Members of the City of CITY OF SAN ANGELO DEVELOPMENT CORPORATION, (b) a representative of the San Angelo Chamber of Commerce, and (c) two representatives of the City of San Angelo Economic Development staff. In the event the CITY OF SAN ANGELO DEVELOPMENT CORPORATION should cease to be an owner of land within the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER, its right to designate a representative to serve on said Review Board shall terminate and the Developer shall appoint as the third party member of said Board a representative of the remaining property owners in said SAN ANGELO BUSINESS AND INDUSTRIAL CENTER. Before commencing the construction or alteration of any building, enclosure, fence, loading dock, parking facility, storage yard or any other structure or permanent improvement on any site or lot within SAN ANGELO BUSINESS AND INDUSTRIAL CENTER, the property owner shall first submit site plans and building plans and specifications therefor (hereinafter collectively referred to as the "Plans") and the Review Board's written approval shall be required before such construction or alteration is commenced. The Review Board shall have the right to approve the location of all utility Infrastructure, the location of streets and railroad trackage and shall also have the right to approve all facilities for the handling of surface waters, other storm drainage and clean industrial effluent. The Review Board hereby created shall consist of the persons appointed by the respective parties hereto from time to time. Such appointments shall be effective when written notice thereof shall have been mailed to the respective parties to this agreement with a copy of such notification being filed in the office of the Developer. Changes in the membership of the Review Board may be effected in like manner. No member of the Review Board shall be entitled to any compensation for performing his duties as a member of such Review Board. Except in the case of those items described herein where unanimous consent or unanimous action of the Review Board is required, action of the Review Board shall be by majority vote. All actions of the Review Board shall be in writing and filed in the office of the Developer and shall at all reasonable times be open to public inspection. In the event that the Review Board or its designated representatives shall fail to approve or disapprove any Plans or any other instruments or items requiring the Review Board's approval within thirty (30) days after they have been submitted to

the Review Board, such approval will not be required and the approval requirement in question shall be deemed to have been satisfied.

8. CONSTRUCTION MATERIALS: The outside walls of all buildings and structures in the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER shall be finished with painted metal, brick or masonry, or concrete on all sides or other construction materials of at least equal attractiveness in the sole discretion of the Review Board.

9. SIGNS: Plans and specifications for the construction, installation or alteration of all outdoor signs shall be first submitted to and have the written approval of the Review Board. No signs shall be permitted in the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER except (a) traffic control signs, (b) directory signs, and (c) signs identifying the occupants of respective buildings, all of such identifying signs being affixed to the building or being positioned so as not to be higher than ten feet above the roofs of the respective buildings. No flashing signs shall be allowed and all signs shall be in good taste and in keeping with the architecture and design integrity of SAN ANGELO BUSINESS AND INDUSTRIAL CENTER, all as determined by the Review Board in its sole discretion.

10. LAND USES: (a) No SAN ANGELO BUSINESS AND INDUSTRIAL CENTER lands shall be used for any of the purposes prohibited by the restrictions contained in the plat or any replat of the Property, such plat and replat having been filed as referenced above.

(b) None of the lands within the bounds of said SAN ANGELO BUSINESS AND INDUSTRIAL CENTER shall be used for any of the following purposes:

- i. The operation of a junk or salvage yard;
- ii. Uses constituting nuisance, public or private, by reason of emission of smoke, dust, gas, odor, fumes, noise, vibration, or refuse material of any kind;
- iii. Without limiting the generality of "ii" above, the manufacture of acid, cement, lime, gypsum, fireworks, glue; the manufacture, incineration or reduction of garbage, offal or dead animals, and the refining of petroleum, the smelting of zinc, copper, tin or iron ores, or the maintaining of stockyards and/or abattoirs;
- iv. No animal, livestock, or poultry of any kind shall be raised, bred, or kept with the exception of dogs, cats and other household pets, provided they are not kept or maintained for commercial purpose; or
- v. Maintenance of any unenclosed frame structure such as a tower used for the transmission or reception of television or radio messages, unless the erection and maintenance of such structure has been approved by the unanimous consent of the Review Board.

(c) The Property is subject to all other applicable restrictions of record including, but not limited to, those contained in the following:

- i. Deed from Mrs. Ruth J. Gordon, Mrs. Mary B. Johnson Hall and the Central National Bank of San Angelo, as Independent Executor and Trustee of the Estate of J. Willis Johnson, Deceased to Ethicon, Inc. filed of record in Vol. 441, Page 268, of the Deed

Records of Tom Green County, Texas.

- ii. Amendment of Restrictive Covenants filed of record in Volume 896, Page 817, of the Official Public Records of Tom Green County, Texas.
- iii. Restrictive Covenant and Notice filed of *record* in Volume 893, Page 364, of the Official Public Records of Real Property of Tom Green County, Texas.

11. VARIANCES AND INTERPRETATIONS: The Review Board may grant to any owner of land in the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER variances from any of the provisions contained in this Development Plan where such variances, in the sole discretion of the Review Board, are not detrimental to the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER; provided, however, that no variation of Minimum Frontage, Minimum Depth, Minimum Acreage or Minimum Set Back restrictions shall be permitted except by the unanimous consent of the Review Board. Any question of interpretation of any provision of this Development Plan shall be decided by the Review Board. All covenants are intended to comply with the City of San Angelo Ordinances, and it will be the intent of the review board to comply with all ordinances of the City of San Angelo, and the review board will not have any authority to change any intent of any ordinances of the City of San Angelo. However, the Review Board reserves the exclusive right to change, add and/or amend any provision in this document with the unanimous vote of the Board.

12. TIME LIMIT FOR IMPROVEMENTS: (a) The Purchaser of each tract in the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER shall, within two (2) years after the time of the conveyance of such tract by the Developer, commence in good faith the construction of permanent Improvements thereon in accordance with the Plans approved by the Review Board. The Review Board may extend the time within which such construction may be begun and any such extension shall be in writing.

(b) If within the two (2) year period hereinabove provided for, or any extension thereof granted by the Review Board, any such purchaser of any unimproved tract within the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER on which construction in accordance with the Plans has not in good faith been begun, desires to sell such unimproved tract, he shall first offer such tract to the Developer at the original purchase price thereof, with the usual proration of taxes, insurance premiums, title costs and closing costs being borne by such Purchaser as seller and the Developer as purchaser as is customary. Purchaser to sell such tract, shall have thirty (30) days thereafter within which to exercise its option to reacquire such tract on the above terms and conditions.

(c) If, within the two (2) year period hereinabove provided for, or any extension thereof, any such Purchaser of any unimproved tract within the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER on which construction in accordance with the Plans has been begun, but has not been completed, desires to sell such unimproved tract, the Developer shall have rights of first refusal to purchase the same and such Purchaser shall not sell such unimproved tract to any person, firm or corporation other than the Developer, unless and until the same shall first have been offered to Developer on the same terms and conditions available to such other person, firm or corporation. Developer, upon receipt of written notice of the intention and desire of such Purchaser to sell such tract, shall have thirty (30) days thereafter within which to exercise its right of first refusal to reacquire such tract on the terms and conditions specified in such written notice.

(d) If, after the expiration of the two (2) year period from the date of the conveyance of any

unimproved tract lying within the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER, or any extension thereof, any such Purchaser shall not In good faith have begun on such tract construction in accordance with the Plans, the Developer shall have the option for the full period of six (6) months after such expiration to reacquire said property from the Purchaser at the same price for which the tract was conveyed to said Purchaser with the usual prorations of taxes, insurance premiums, title costs and closing costs being borne by such Purchaser as seller and the Developer as purchaser as is customary In San Angelo at that time.

(e) In the event of any sale by such Purchaser to the Developer under subparagraphs (b), (c) or (d) above, Developer shall pay the consideration therefor to such Purchaser in cash and such Purchaser shall execute and deliver a general warranty deed conveying said tract to the Developer free and clear of all liens and encumbrances, save and except zoning ordinances, if any; taxes and assessments not yet due and payable, if any; and restrictions and limitations of record (not containing provisions of reverter of forfeiture), if any.

13. PARTIAL INVALIDITY: The Invalidation of anyone of the terms and conditions of this Development Plan or the failure to enforce any of said terms or conditions at the time of a Violation thereof shall in no event affect any of the other terms and conditions of this Development Plan nor be deemed a waiver of the right to enforce the same or any other of said terms or conditions thereafter.

14. UTILITY EASEMENTS: Developer shall provide free of cost all necessary easements and rights-of-way required to bring public utility service to each of the parcels in the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER, including but not limited to electric power, telephone, gas, water and sewer service. The location of easements are tentative locations only and may be changed if in the unanimous opinion of the Review Board a different location is found to be to the advantage of the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER development. Drainage easements for surface waters, other storm drainage and clean industrial effluent shall be provided by Developer where necessary to provide proper drainage of all lands within the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER.

15. TERMINATION OF DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS: Each term, condition and covenant herein contained shall terminate and be of no further effect on January 1, 2042. However, at any time prior to January 1, 2042, the then owners of a majority of the area in square feet within said SAN ANGELO BUSINESS AND INDUSTRIAL CENTER may by declaration, Signed, acknowledged by them, and duly recorded in the Deed Records of Tom Green County, Texas, extend such terms, restrictions, conditions and covenants for a period of ten (10) years. In like manner additional extensions for successive periods of ten (10) years may be provided for as long as the owners of a majority of the area in square feet within said SAN ANGELO BUSINESS AND INDUSTRIAL CENTER affirmatively vote to so extend them. During the term of any such extension, the rights reserved to the parties hereto and to the Review Board created hereby shall continue in full force and effect.

16. ENFORCEMENT OF DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS: The terms and conditions of this Declaration of Covenants, Conditions and Restrictions are made for the benefit of any and all persons who may now own, or who may hereafter own property In SAN ANGELO BUSINESS AND INDUSTRIAL CENTER. Such persons and the Review Board are hereby specifically given the right to enforce these terms and conditions by injunction or other lawful procedure, and to recover damages resulting from any violation thereof.

This Declaration of Covenants, Conditions and Restrictions of SAN ANGELO BUSINESS AND

INDUSTRIAL CENTER shall be Incorporated by reference in each and every contract of purchase and sale and every deed for conveyance of any character of land In the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER so that all owners, occupants or users of land in the SAN ANGELO BUSINESS AND INDUSTRIAL CENTER shall assume the obligation of, and be bound by, all of the provisions of this Declaration of Covenants, Conditions and Restrictions. All such transactions shall also have as one of the conditions of sale the undertaking by the purchaser to Incorporate by reference said Declaration of Covenants, Conditions and Restrictions of SAN ANGELO BUSINESS AND INDUSTRIAL CENTER as a condition of sale In the event of a resale of any of the lands In said SAN ANGELO BUSINESS AND INDUSTRIAL CENTER to a subsequent purchaser to the end that all such subsequent purchasers, occupants or users shall also assume the obligations of, and be bound by, all of the provisions of this Development Plan.

THIS DECLARATION Is executed at San Angelo, Texas, this _____ day of _____ 2022.

CITY OF SAN ANGELO DEVELOPMENT

CORPORATION

STATE OF TEXAS

Max Puello, President

COUNTY OF TOM GREEN

This Instrument was acknowledged before me on the _____ day of _____ • 2022,
by Max Puello, as President of the City of San Angelo Development Corporation, a Texas
corporation, on behalf of said corporation.

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Nora Nevarez, Executive Office Coordinator, COSADC, 325-653-7197

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider ratifying an agreement by and between the City of San Angelo Development Corporation and Quality Striping in the amount of \$4,100 for striping and sealcoating of the Business Resource Center parking lot and authorizing the Board President or their designee to execute all necessary documents (Guy Andrews)

Staff Recommendation:

Approve

Summary/History:

The parking lot at the Business Resource center is shared among COSADC Staff and Business Resource Center tenants (e.g., Angelo State University SBDC, Incubator Clients). Additionally, the BRC parking lot is the primary location where visitors to the BRC park for training events.

Staff noted that the lines in the parking lot have deteriorated over time. They are no longer clearly visible and are in need of restoration. Staff solicited pricing from three vendors and received one response, from Quality Striping.

The COSADC Board of Directors approved this item during their December 15, 2021 Regular Meeting.

Funding Source(s):

Financial Impact:

Funds for this project are budgeted in account 700-0700-411.04-31, Building and Grounds Maintenance.

Other Information/Recommendation:

Staff recommends ratifying an agreement by and between the City of San Angelo Development Corporation and Quality Striping in the amount of \$4,100 for striping and sealcoating of the Business Resource Center parking lot and authorizing the Board President or their designee to execute all necessary documents.

Attachments:

1. Est_2005_from_Quality_Striping_and_Sealcoat_LLC Est_2005_from_Quality_Striping_and_Sealcoat_LLC.pdf

Presentation:

Guy Andrews

Approvals/Reviews:

Nora Nevarez

Created/Initiated

Guy Andrews
Jeff Tomlinson
Tina Dierschke
Theresa James
Julia Antilley

Approved
Approved
Approved
Approved
Final Approval

Quality Striping and Sealcoat LLC

Box 61851
San Angelo, TX 76906

Estimate

Date	Estimate #
8/11/2021	2005

Name / Address
City of San Angelo box 1751 San Angelo,Tx 76902-1751

Description	Qty	Rate	Total
economic developement center			
1st coat Sealcoating. We prepare and apply Coaltar sealcoat according to manufacturers specs, fortified with sand and latex polymer	1	1,250.00	1,250.00
2nd coat Sealcoating. We prepare and apply Coaltar sealcoat according to manufacturers specs, fortified with sand and latex polymer	1	1,000.00	1,000.00
Striping	1	350.00	350.00
Crackfilling - We Use HOT CRACKSEALER NOT COLD. Similar To Material Used On State Highways.	1	1,500.00	1,500.00
i went by friday and saw you needed cracksealing so i had to change estimate also please note a section of the lots north west side needs to be repaved			
		Subtotal	\$4,100.00
		Sales Tax (8.25%)	\$0.00
		Total	\$4,100.00

Phone #	Fax #	E-mail	Web Site
325-650-8943	325-651-1200	qualitystriping@yahoo.com	qualitystripingandsealcoat.com

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Nora Nevarez, Executive Office Coordinator, COSADC, 325-653-7197

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider ratifying an agreement by and between the City of San Angelo Development Corporation and Angelo Paving in the amount of \$5,915 to repave the Business Resource Center parking lot and authorizing the Board President or their designee to execute all necessary documents (Guy Andrews)

Summary/History:

The parking lot at the Business Resource center is shared among COSADC Staff and Business Resource Center tenants (e.g., Angelo State University SBDC, Incubator Clients). Additionally, the BRC parking lot is the primary location where visitors to the BRC park for training events.

Staff noted sections of the parking lot have faults and require repaving before we can re-stripe and sealcoat. Staff solicited pricing from three vendors and received one response, from Angelo Paving.

The City of San Angelo Development Corporation Board of Directors approved this item during their December 15, 2021 Regular Meeting.

Financial Impact:

Funds for this project are budgeted in account 700-0700-411.04-31, Building and Grounds Maintenance.

Other Information/Recommendation:

Staff recommends ratifying an agreement by and between the City of San Angelo Development Corporation and Angelo Paving in the amount of \$5,915 to repave the Business Resource Center parking lot and authorizing the Board President or their designee to execute all necessary documents.

Attachments:

1. Estimate_1033_from_Angelo_Paving_LLC Estimate_1033_from_Angelo_Paving_LLC.pdf

Presentation:

Guy Andrews

Approvals/Reviews:

Nora Nevarez	Created/Initiated
Guy Andrews	Approved
Jeff Tomlinson	Approved
Tina Dierschke	Approved
Theresa James	Approved
Julia Antilley	Final Approval

Angelo Paving, LLC
3371 Knickerbocker Rd Ste 106
San Angelo, TX 76904 US
3252120035
angelopaving@gmail.com

Estimate

ADDRESS

Business Resource Center
105 N. Chadbourne
San Angelo, Tx 76901

ESTIMATE #	DATE	
1033	09/27/2021	

SERVICE	DESCRIPTION	QTY	RATE	AMOUNT
Paving/Overlay	Remove and replace drive lane on West side of parking lot. Sawcut area and remove old asphalt. Any necessary basework will be done after old asphalt is removed. When prep is done we will repave area using hotmix asphalt type d. Typical 1.5"-2" thickness	1,690	3.50	5,915.00

TOTAL

\$5,915.00

Accepted By

Accepted Date

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Nora Nevarez, Executive Office Coordinator, COSADC, 325-653-7197

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider ratifying an increase to the previously approved contract amount with Mammoth Roofing Services, LLC to include an additional \$19,688 to replace stucco located at the front of the Business Resource Center through TIPS contract #210205 for a total contract amount of \$208,376 and authorizing the Board President or their designee to execute all necessary documents (Guy Andrews)

Staff Recommendation:

Approve

Summary/History:

On several occasions, Staff noted water intrusion inside the Business Resource Center following rain events. We enlisted the support of both Harrison Roofing Company and Mammoth Roofing company to identify potential causes of this issue. Mammoth Roofing determined that cracks in the Stucco of the building currently allow water to enter the building, causing damage.

To mitigate the risk of further damage to the building or property stored inside by COSADC and its tenants, Staff recommends engaging a qualified provider to repair the stucco. Mammoth Roofing is qualified through The Interlocal Purchasing System cooperative purchasing program to provide these repair services.

Note that Staff has not executed an Agreement at this time since we are awaiting final input and document review from Liberty Mutual Insurance. Once Liberty Mutual determines the final amount to be paid from insurance proceeds, Staff plans to commence repairs as soon as practicable. This action would authorize staff to incorporate the earlier estimate for roof repairs and the current estimate for stucco rehabilitation into a single Agreement to achieve economies of scale and ensure that the Project is overseen by a single contractor.

The City of San Angelo Development Corporation Board of Directors approved item during their December 15, 2021 Regular Meeting.

Funding Source(s):

Financial Impact:

Following approval, Staff will allocate the total amount of this repair (\$19,688) from Future Projects to an appropriate operating account via an internal budget amendment.

Other Information/Recommendation:

Staff recommends ratifying an increase to the previously approved contract amount with Mammoth Roofing Services,

LLC to replace the stucco located at the front of the Business Resource Center through TIPS Contract 210205 in the total amount of \$208,376 (a \$19,688 increase) and authorizing the Board President or their designee to execute all necessary documents.

Attachments:

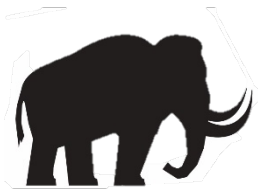
1. Business Resource Center Stucco Scope
- Bussiness Resource Center Stucco Scope.pdf

Presentation:

Guy Andrews

Approvals/Reviews:

Nora Nevarez	Created/Initiated
Guy Andrews	Approved
Jeff Tomlinson	Approved
Tina Dierschke	Approved
Theresa James	Approved
Julia Antilley	Final Approval



Mammoth Roofing Services

Prepared for:

Business Resource Center

69 N Chadbourne St, San Angelo TX 76903
(325) 653-7197

Prepared by:

Mammoth Services, LLC

4005 Christoval Rd, San Angelo, TX 76903 325.777.0149
(325) 218-4448

Having inspected the current conditions of the building stucco, we have determined that the following actions are necessary for a complete repair in your property's stucco area.

TIPS contract number: 210205

Scope of Work:

1. Prep the front side of the building stucco area. Repair all joints and penetrations.
2. Install a new expansion joint along the front large crack area from one side to the end of the building. This will keep the wall from cracking in the future and will allow it to expand as needed.
3. Apply 2 coat stucco system to match the existing stucco color in place.
3. Clean area and haul any debris.
5. Three-year warranty.

Total Job Price**\$19,688.00***Payment Terms: As agreed upon**(plus applicable taxes)*

Trisha Lira, Managing Member

Owner Signature

Date

Date

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Nora Nevarez, Executive Office Coordinator, COSADC, 325-653-7197

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider ratifying the expenditure of Sales and Use Tax Funds pursuant to Sec. 505.103 of the Texas Local Government Code to allocate prize awards and prize award agreements and authorizing the Board President or their designee to execute all necessary documents with the following winners of the 2021 Business Plan Competition:

1. First Prize (\$40,000) - Cowboy Up Chocolates
2. Second Prize (\$20,000) - Lonestar Cheeseburger
3. Third Prize (\$10,000) - Medical Arts Pharmacy (Guy Andrews)

Staff Recommendation:

Approve

Summary/History:

The City of San Angelo Development Corporation, in partnership with the Angelo State Small Business Development Center and the Norris-Vincent College of Business, hosted the 2021 Annual Business Plan Competition. We received 39 entries. The independent judging panel convened on November 13, 2021 and selected the following winners:

- First Prize (\$40,000) - Cowboy Up Chocolates
- Second Prize (\$20,000) - Lonestar Cheeseburger
- Third Prize (\$10,000) - Medical Arts Pharmacy

The City of San Angelo Development Corporation Board of Directors approved item during their December 15, 2021 Regular Meeting.

Funding Source(s):

Financial Impact:

The \$70,000 prize amounts are budgeted in account 700-0700-411.05-65 (Special Project "A").

Other Information/Recommendation:

Staff recommends ratifying the expenditure of sales and use tax funds pursuant to Sec. 505.103 of the Texas Local Government Code to award a total of \$70,000 in prizes to the aforementioned winners and authorizing the Board President to execute all necessary documents for such awards.

Attachments:

Presentation:

Guy Andrews

Approvals/Reviews:

Nora Nevarez

Guy Andrews

Tina Dierschke

Theresa James

Julia Antilley

Created/Initiated

Approved

Approved

Approved

Final Approval

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Nora Nevarez, Executive Office Coordinator, COSADC, 325-653-7197

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Consider ratifying an early termination of the Business Plan Competition Third Place Grant Award Agreement by and between the City of San Angelo Development Corporation and Netco Energy Products, Inc. d/b/a Netco Fire and Safety due to Netco having met all contract obligations, and authorizing the COSADC Board President or their designee to execute all related documents (Guy Andrews)

Staff Recommendation:

Approve

Summary/History:

The City of San Angelo Development Corporation and Netco Fire & Safety entered into a Grant Award Agreement pursuant to the Business Plan Competition coordinated in conjunction with Angelo State University.

Netco won third prize and was subsequently awarded \$10,000 to purchase a vehicle to perform service calls for fire extinguisher and kitchen vent inspections. Netco provided documentation that they purchased the vehicle and received their full grant amount on December 29, 2020.

Netco notified the Development Corporation that they intend to sell the fire and safety portion of their business and inquired whether any remaining obligations could be assigned to the acquiring entity. However, Staff review determined that all obligated prize funds were paid and Netco satisfied their reporting requirements for the most recent period. Thus, Staff recommends amending the term of the Agreement to end prior to their sale.

The City of San Angelo Development Corporation Board of Directors approved this early termination during their December 15, 2021 Regular Meeting.

Funding Source(s):

Financial Impact:

There is no fiscal impact for this Amendment. Prize funds in the amount of \$10,000 were paid after Netco verified compliance with their Prize Agreement.

Other Information/Recommendation:

Staff recommends ratifying an amendment to the Business Plan Competition Third Place Grant Award Agreement by and between the City of San Angelo Development Corporation and Netco Energy Products, Inc. d/b/a Netco Fire and Safety and authorizing the Board President or their designee to execute all related documents, subject to the approval of City Council.

Attachments:

Presentation:

Guy Andrews

Approvals/Reviews:

Nora Nevarez

Guy Andrews

Theresa James

Tina Dierschke

Julia Antilley

Created/Initiated

Approved

Approved

Approved

Final Approval

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Jon James, Director of Planning & Development Services, Planning and Development Services, x1180

Meeting Date: January 4, 2022

Item type: Consent Item

Caption:

Second reading of an ordinance extending the temporary changes to Chapter 12 "Planning and Development", Article 12.04 "Signs" of the San Angelo Code of Ordinances, to allow additional time for preparation of permanent amendments to the Sign Ordinance (Jon James)

Staff Recommendation:

Adopt

Summary/History:

On November 17, 2020, the Council adopted changes to the City's sign regulations to address a recent decision by the United States Court of Appeals for the Fifth Circuit in "Reagan National Advertising/Lamar Outdoor Advantage v. City of Austin", which resulted in portions of the City's ordinance regarding signs being deemed unconstitutional. This decision resulted in the inability to distinguish between on-site (business) signs and off-site (billboard) signs in the City's sign regulations.

Staff prepared the temporary fix to the sign ordinance with the intention of having a permanent revision in place by the end of 2021. However, subsequently the US Supreme Court agreed to hear an appeal of the court case, which was heard on November 10, 2021. **With a final decision on this case expected later in 2022, staff is recommending extending these temporary provisions for an additional year, through the end of 2022, to allow time to prepare final ordinance revisions after the Supreme Court decision is released.**

Funding Source(s):

Financial Impact:

N/A

Other Information/Recommendation:

Staff recommends approval of this ordinance extension.

Attachments:

1. Sign ordinance extension Sign ordinance extension.docx

Presentation:

Jon James

Approvals/Reviews:

Jon James
Zachary Rainbow
Jon James
Brandon Dyson
Jon James
Theresa James
Julia Antilley

Created/Initiated
Approved
Approved
Approved
Approved
Approved
Final Approval

AN ORDINANCE OF THE CITY OF SAN ANGELO, TEXAS, EXTENDING THE EXPIRATION DATE OF ORDINANCE NO. 202-108 PASSED NOVEMBER 17, 2020; CORRECTING THE VOLUME NUMBERING OF ORDINANCE NO. 202-108 AND PROVIDING FOR SEVERABILITY

WHEREAS, a recent decision by the United States Court of Appeals for the Fifth Circuit in “Reagan National Advertising/Lamar Outdoor Advantage v. City of Austin” resulted in the on-site and off-site sign designations of the City’s Sign Ordinance being deemed unenforceable; and

WHEREAS, Ordinance No. 202-108 was passed on November 17, 2020, to reflect the immediate changes in case law, but provided for an expiration date of December 31, 2021 to allow staff sufficient time to prepare a more comprehensive amendment to the City’s Sign Ordinance; and

WHEREAS, the United States Supreme Court has taken up the Reagan National Advertising case for review and heard oral arguments in the case on November 10, 2021; and

WHEREAS, staff recommends delaying further amendments to the City’s Sign Ordinance until such time that a decision is rendered by the Supreme Court, which is expected sometime in 2022; and

WHEREAS, Ordinance No. 202-108 was inadvertently numbered as “Volume 202” rather than “Volume 2020”.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANGELO, TEXAS:

SECTION 1. THAT the City Clerk is directed to correct the volume numbering of Ordinance No. 202-108 to Ordinance No. 2020-108.

SECTION 2. THAT Ordinance No. 202-108 (now No. 2020-108) passed on November 17, 2020, with an original expiration date of December 31, 2021, is hereby further extended in all respects until December 31, 2022, unless otherwise replaced or extended by the San Angelo City Council.

SECTION 3. THAT the terms and provisions of this Ordinance shall be deemed to be severable in that, if any portion of this Ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this Ordinance.

SECTION 4. This Ordinance shall take effect and be in full force and effect from and after the date of its passage.

INTRODUCED with public hearing on the 7th day of December, 2021 and finally PASSED, this ____ day of January, 2022.

THE CITY OF SAN ANGELO

ATTEST:

Brenda Gunter, Mayor

Julia Antilley, City Clerk

APPROVED AS TO FORM

Theresa James, City Attorney

The seal of the City of San Angelo, Texas, is a circular emblem. It features a central sun with rays rising over a green mountain range and a blue body of water. The words "THE CITY OF SAN ANGELO" are written in a circle around the top, and "TEXAS" is at the bottom, flanked by two stars.

Item type: Regular Item

1. Boundary Map Boundary Map.jpg

2. Downtown Historic Resources Survey San-Angelo-Downtown-Historic-Resources-Survey_FINAL_2021-08-27-1
(Summary) (Summary Only)_.pdf

Presentation:

Jon James

Approvals/Reviews:

Jeff Fisher	Created/Initiated
Zachary Rainbow	Approved
Jon James	Approved
Brandon Dyson	Approved
Jon James	Approved
Theresa James	Approved
Julia Antilley	Final Approval



Historic Resources Survey of Downtown San Angelo

Submitted to City of San Angelo
August 2021



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Historic Resources Survey of Downtown San Angelo

SUBMITTED TO THE CITY OF SAN ANGELO AND THE TEXAS HISTORICAL COMMISSION

August 2021

Prepared by HHM & Associates, Inc.

This project was funded in part through a Certified Local Government Grant from the National Park Service, U.S. Department of the Interior, as administered by the Texas Historical Commission.

The contents and opinions, however, do not necessarily reflect the views and policies of the Department of the Interior, nor does the mention of trade names or commercial products constitute endorsement or recommendation by the Department of the Interior.

This program receives Federal funds from the National Park Service. Regulations of the U.S. Department of the Interior strictly prohibit unlawful discrimination in departmental Federally Assisted Programs on the basis of race, color, national origin, age or handicap. Any person who believes he or she has been discriminated against in any program, activity, or facility operated by a recipient of Federal assistance should write to: Director, Equal Opportunity Program, U.S. Department of the Interior, National Park Service, P.O. Box 37127, Washington, D.C. 20013-7127.

Executive Summary

In September 2020, the City of San Angelo commissioned HHM & Associates, Inc. of Austin, Texas, to undertake a historic resources survey of downtown San Angelo. Survey boundaries are depicted in figure i (to follow). At the outset of the project, HHM & Associates completed a Research Design and Fieldwork Methodology for review and approval by the City of San Angelo and the Texas Historical Commission, which established shared expectations for the project's scope of work. The approved Research Design and Fieldwork Methodology is included as Appendix E herein. The project comprehensively identified, documented, and evaluated all buildings, structures, sites, landscapes, and objects within the survey boundaries, regardless of construction date. The project was made possible with a grant from the Certified Local Government (CLG) Grant Program administered by the Texas Historical Commission (THC).

Survey work, completed in November and December 2020, identified 390 above-ground cultural resources. The survey team gathered basic information for all resources but recorded more detailed information for those that are listed in or recommended eligible for inclusion in the National Register of Historic Places (NRHP, or National Register). In compliance with the THC's CLG program, each surveyed property also received a preservation priority ranking—high, medium, or low—that defines its relative significance and architectural integrity within the survey area and city. All evaluations were made by professionals meeting the *Secretary of the Interior's Professional Qualification Standards* (36 CFR 61), carefully following the National Register Criteria for Evaluation and the City's Unified Development Code. The recommendations resulting from HHM's evaluations are summarized in table i and table ii below. Prior historic designations are listed in Appendix E.

Besides assessing each identified property on an individual basis, the report also recommends a Downtown Historic District as eligible for both listing in the National Register and local City of San Angelo designation. Historic district recommendations are summarized in table iii. The boundaries of the proposed Downtown Historic District are presented in figure ii.

To provide additional detail, this survey report includes the following sections:

- Survey Purpose
- Historic Context
- Summary of Survey Findings
- Future Recommendations
- Bibliography
- Appendices
 - Appendix A – Maps of Surveyed Resources
 - Appendix B – Inventory of Surveyed Resources
 - Appendix C – Texas Historic Resources Survey Forms for High Priority Resources
 - Appendix D – Photo Contact Sheets
 - Appendix E – Approved Research Design

Overall, the survey report aims to provide the City of San Angelo with information to guide future planning and cultural resources management downtown, as well as to access grants and incentives for preservation.



Figure i. Map depicting the boundaries of the survey area in downtown San Angelo. Source: Data from HHM with ESRI base map, 2021.

Table i. Preservation priority ranking counts.

Preservation Priority Ranking	No. of Resources	% of Total
High	69	18%
Medium	210	54%
Low	110	28%
TOTAL	389	100%

Table ii. Individual eligibility recommendations, according to both National Register and City of San Angelo local landmark criteria.

Eligibility Recommendations	National Register		Local	
	Resources	% of Total	Resources	% of Total
Maintain prior individual designation	25	6%	42	11%
Recommend new individual designation	45	12%	32	8%
TOTAL	70	18%	74	19%

Table iii. Historic district recommendations, according to both National Register and City of San Angelo local landmark criteria.

Eligibility Recommendations	National Register		Local	
	Resources	% of District	Resources	% of District
Within recommend historic district	299	100%	279	100%
Contributing	243	81%	233	84%
Noncontributing	56	19%	47	17%

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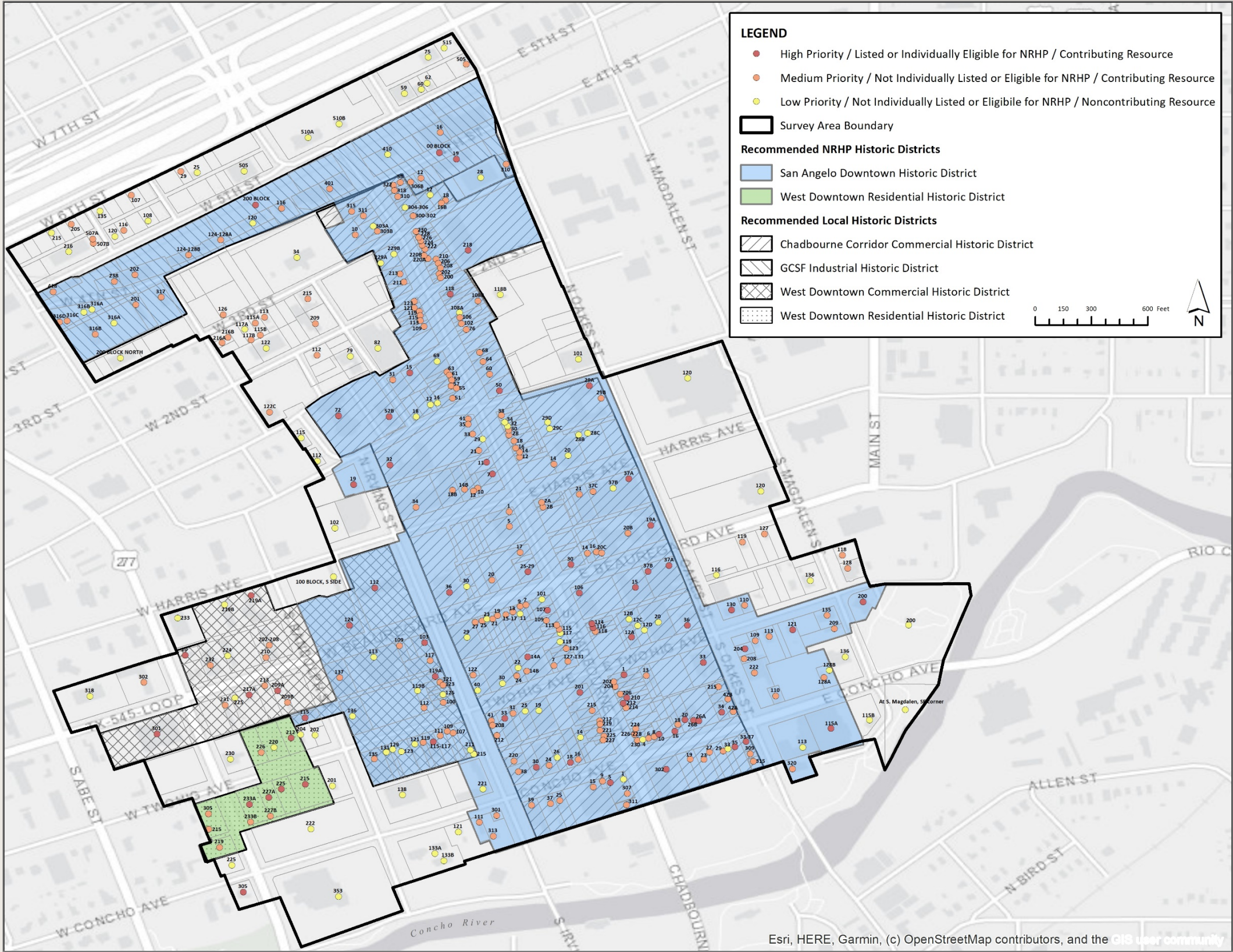


Figure ii. Map depicting the boundaries of the recommended historic districts within in the Downtown San Angelo survey area. Source: Data from HHM with ESRI base map, 2021.

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ACKNOWLEDGEMENTS

HHM would like to thank the following individuals for their help in preparing this report:

- Ms. Sherry Bailey, City of San Angelo
- Ms. Hillary Bueker, City of San Angelo
- San Angelo Public Library Staff

Finally, HHM appreciates the input and contributions of Ms. Leslie Wolfenden, THC Historic Resources Survey Coordinator, Ms. Lorelei Willett, THC CLG Coordinator, and Maria Mougridis, CLG Specialist, all of whom provided invaluable support for the project.

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- Appendix A – Maps of Surveyed Resources
- Appendix B – Inventory of Surveyed Resources
- Appendix C – Texas Historic Resources Survey Forms for High Priority Resources
- Appendix D – Photo Contact Sheets
- Appendix E – Approved Research Design

ACRONYMS

CAD	County Appraisal District
CLG	Certified Local Government
HHM	HHM & Associates, Inc.
HD	Historic District
HOT	Hotel Occupancy Tax
Ind	Individual (Individually Eligible)
LL	Local Landmark
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NPS	National Park Service
NR	National Register (of Historic Places)
NRHP	National Register of Historic Places
NTHP	National Trust for Historic Preservation
OTHM	Official Texas Historical Marker
PIDN	Property Identification Number
THC	Texas Historical Commission
TPTF	Texas Preservation Trust Fund
TxDOT	Texas Department of Transportation

1 | Survey Purpose

The purpose of this project was to complete a comprehensive historic resources survey of downtown San Angelo within the boundaries defined in figure i (see the Executive Summary). The project identified, documented, and provided eligibility recommendations for historic-age buildings, structures, sites, and objects within the defined survey boundary. Eligibility recommendations differed between National Register and local eligibility, based on the National Register criteria versus the criteria in the City of San Angelo's historic preservation ordinance. The objective for this project is information-gathering only. **No zoning changes or property tax changes will result from this project.** However, private property owners may use the information herein to seek historic designation or zoning changes in the future *if they so choose*. This project was made possible by a Certified Local Government (CLG) grant administered by the Texas Historical Commission (THC).

FIELDWORK PREPARATION

To ensure fieldwork is conducted efficiently and accurately, HHM conducted the following preparatory steps prior to survey work:

- Refined the fields and vocabulary in our custom database to ensure compliance with the THC's requirements for CLG surveys, as well as ensuring that they suited the anticipated property types within the survey area.
- Pre-populated HHM's web-based data management system with parcel data from the Tom Green County Appraisal District (CAD), so that Property Identification Numbers (PIDNs) would link with applicable resources in the field, ensuring GIS compatibility.
- Extracted information from previous survey efforts for import into HHM's database.
- Compiled data about previous designations within the survey area.

FIELD SURVEY

For the systematic documentation of the San Angelo downtown survey area, two highly qualified and experienced HHM architectural historians—who meet and exceed the *Secretary of the Interior's Professional Qualification Standards*—conducted the fieldwork in November and December of 2020. The survey team comprehensively identified and documented all buildings, structures, sites, landscapes, and objects within the survey boundary, regardless of construction date. For each documented resource, the team evaluated preservation priority ranking, as well as eligibility for listing in the National Register and/or local historic zoning. For every resource in the survey area, the crew recorded the resource's location information, preservation priority ranking, and eligibility recommendation. The pre-populated data was checked in the field for accuracy and updated accordingly. For resources constructed by 1971, the survey team gathered more detailed information:

- **Used electronic survey forms on HHM's wireless, portable tablets to record field data.** As the survey team identified each resource to be included in the survey, the crew plotted its location on a digital field map and selected the identified resource's parcel on the tablet from pre-populated survey data. This step opened the digital survey form, which displayed the following information imported from the Tom Green County Appraisal District and from the San Angelo 2006 survey:
 - Property Identification Number (PIDN)
 - Construction year
 - Prior designations
 - Prior eligibility recommendations

For resources evaluated in the field to be recommended as a potential local landmark, potentially contributing to a local historic overlay district, individually listed or eligible for listing in the National Register, contributing to an eligible or listed National Register historic district, or eligible for a THC historical marker, HHM recorded additional data required by the THC survey form, including the address, construction year, property type, stylistic influence, materials, features, and integrity (changes/alterations) of the resource. For resources recommended not eligible as individual local historic landmarks or NRHP listing status and resources recommended as noncontributing to a district, HHM recorded only the address, construction year, property type, and integrity of the resource.

- **Photographed each resource using a high-resolution digital camera.** The images were taken in a high-resolution format that meets the THC's requirements of a minimum of 2000 x 3000 pixels at 300 dpi in TIFF format. HHM took a minimum of two photographs to capture each resource's most significant architectural qualities and attributes, including oblique and façade views. All photographs taken include GPS location and data embedded in each image's metadata. The photographs were linked to HHM's tablet-based database in the field via a secure, wireless connection and attached to the appropriate record in the database.
- **Provided a preliminary on-site evaluation of preservation priority ranking and potential eligibility for historic designation(s)** based on age, architectural significance, known historical significance and associations, historic integrity, and any previous evaluations. HHM reviewed and updated preliminary evaluations as necessary throughout the project.

HISTORICAL RESEARCH

Upon completion of fieldwork, HHM conducted research to supplement understanding of the history and significance of documented historic resources. All research efforts complied with the approved Final Research Design, submitted to the City of San Angelo and the THC on November 25, 2020. As part of the City's in-kind match for the CLG grant, City staff helped to gather and scan materials from the San Angelo Public Library. Experienced architectural historians from HHM who meet the *Secretary of the Interior's Professional Qualifications Standards* compiled research materials and assured that they were thoroughly analyzed and synthesized to inform the survey recommendations and narrative historic context.

DATA ANALYSIS

Post-fieldwork processing involved reviewing the data collected using the database's analysis and visualization tools and updating any inaccurate or missing information. Another key task in the data analysis phase was assigning a preservation priority ranking of high, medium, or low to each resource on the basis of architectural significance, historical association(s), and integrity. In order for the survey data to remain useful over the long term, HHM developed a consistent, clearly comprehensible relationship between the "high/medium/low" rankings and the "individually eligible/contributing/neither eligible nor contributing" recommendation, as follows:

High Priority = Individually Eligible

Medium Priority = Contributing to a Historic District (if within a Potential District)

Low Priority = Neither Eligible nor Contributing

These priority recommendations then were mapped and analyzed to inform historic district recommendations. The analyzed fieldwork data then was compiled and summarized in a Fieldwork Letter Report, which was submitted to the City of San Angelo and the THC on January 19, 2021.

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Jeff Fisher, Sr. Planner, Planning and Development Services, 325-657-4210

Meeting Date: January 4, 2022

Item type: Regular Item

Caption:

First reading and public hearing of an ordinance for Z21-15, a request for approval of a zone change from Low Rise Multifamily Residence District to Zero Lot Line, Twinhome and Townhome Residence District, being approximately 20 acres, located at Valley View Blvd. and College Hills Blvd. (Presentation made by Planning & Development Services Director Jon James)

Staff Recommendation:

Adopt

Summary/History:

The applicant has submitted an application for a zone change from RM-1 to RS-3 for the parcel of land near the intersection of Valley View and College Hills. The current zoning district would allow multifamily apartments, whereas the proposed zoning would reduce the allowable density with zero lot line homes, twinhomes, or townhomes, all types of single-family housing.

Funding Source(s):

Financial Impact:

N/A

Other Information/Recommendation:

On October 18, 2021, the Planning Commission voted unanimously 6-0 to recommend APPROVAL.

Attachments:

- | | | |
|----|--------------------|-------------------------|
| 1. | Report (Z21-15) | Report (Z21-15).pdf |
| 2. | Ordinance (Z21-15) | Ordinance (Z21-15).docx |

Presentation:

Jon James

Approvals/Reviews:

Jeff Fisher	Created/Initiated
Zachary Rainbow	Approved
Jon James	Approved
Brandon Dyson	Approved
Jon James	Approved

Theresa James
Julia Antilley

Approved
Final Approval



STAFF REPORT: Z21-15

Planning Commission: November 15, 2021

City Council 1st reading: January 4, 2021

City Council 2nd reading: January 18, 2021

APPLICATION TYPE:		CASES	
Zone Change		Valley View & College Hills	
SUMMARY:			
The applicant has submitted an application for a zone change from RM-1 to RS-3 for the parcel of land as identified in the maps below. The reasoning for the zone change is unclear and as a result will reduce the number of housing types allowed to be built on the land.			
LOCATION:		LEGAL DESCRIPTION:	
Portion of Southland Hills Addition, San Angelo, Tom Green County, Texas		[A PORTION] Abst: A-0141 S-0180, Survey: C DAMMANN, 37.5060 ACRES	
SM DISTRICT / NEIGHBORHOOD:	ZONING:	FUTURE LAND USE:	SIZE:
District 1: Tommy Hiebert Neighborhood: Bonham	RM-1 to RS-3	Residential	~ 20 acres
NOTIFICATIONS:			
45 notifications for Z21-15 were mailed on October 28, 2021 to properties within a 200-foot radius of the subject property, 11 returned in opposition and 0 in favor.			
STAFF RECOMMENDATION:			
Staff recommends APPROVAL of a zone change from RM-1 (Low Rise Multifamily Residence) to RS-3 (Zero Lot Line, Twinhome and Residence) District for the lot located at Valley View Blvd. and College Hills Blvd			
PROPERTY OWNER/PETITIONER:			
<i>Property Owner:</i> Duncan Group Southland LLC <i>Applicant:</i> James A. Duncan			
STAFF CONTACT:			
Rafael Alvarado Planner (325) 657-4210, Extension 1533 rafael.alvarado@cosatx.us			

Comprehensive Plan Amendments and Zone Changes: Section 212(G) of the Zoning Ordinance requires that the Planning Commission and City Council consider, at minimum, seven (7) factors in determining the appropriateness of any rezoning request as outlined in #1 through #7 below.

1. **Compatible with Plans and Policies.** **Whether the proposed amendment is compatible with the Comprehensive Plan and any other land use policies adopted by the Planning Commission or City Council.**
The proposed zone change does not incur any comprehensive plan amendments since it adheres to the intended future residential land use in the Vision Plan.
2. **Consistent with Zoning Ordinance.** **Whether and the extent to which the proposed amendment would conflict with any portion of this Zoning Ordinance.** The proposed zone change would not vary from the intended residential use for the land. The zone change also does not relinquish from the land its right to multi-family housing. The change would simply establish it as a denser residential land use, as opposed to the possibility of multi-level and multi-family.
3. **Compatible with Surrounding Area.** **Whether and the extent to which the proposed amendment is compatible with existing and proposed uses surrounding the subject land and is the appropriate zoning district for the land.** The proposed zone change is compatible with the future planned use as well as the current development patterns in that part of the city. Only if the collector roadway facilities are built to connect Valley View Blvd will this area be adequately serviced. Otherwise, the denser development in this region will be further away from a collector to put them onto a higher classification roadway. The connection to Valley View is crucial in providing a further outlet to the East for this development to be viable.
4. **Changed Conditions.** **Whether and the extent to which there are changed conditions that require an amendment.** There only seems to be a community sentiment against multi-level multi-family developments. This zone change would protect the rights of the land to build multi-family developments while at the same time appeasing the request of the nearby property owners.
5. **Effect on Natural Environment.** **Whether and the extent to which the proposed amendment would result in significant adverse impacts on the natural environment, including but not limited to water and air quality, noise, storm water management, wildlife, vegetation, wetlands and the practical functioning of the natural environment.** Staff does not anticipate any negative environmental impacts. The area is well suited to support multi-family developments of the scope as allowed by the zoning ordinance.
6. **Community Need.** **Whether and the extent to which the proposed amendment addresses a demonstrated community need.** Increasing the residential density in this area will provide a higher proximity of affordable housing to the area of the city currently experiencing a commercial and residential boom. The proximity to Knickerbocker Rd is a major reason why this property of land is a.) Well suited for higher residential densities and b.) Necessary to provide the roadway connectivity via the Valley View Blvd. collector. This area has an expressed need for higher residential densities along adequate roadway facilities in its proximity to a commercial area.
7. **Development Patterns.** **Whether and the extent to which the proposed amendment would result in a**

logical and orderly pattern of urban development in the community. The development patterns in this part of the city are occurring in such a way that necessitates for higher residential areas in near proximity. The increasing sprawl along Knickerbocker Rd and Sherwood Way is creating a valley of residential land between to Major Arterials that should be developed according to proximity to roadways (among other factors). This type of development in the current zoning ordinance will be generally suitable. The City must be wary of this development pattern in the current zoning format, in the longer term, as it may continue to incentivize sprawl.

Recommendation:

Staff's recommendation is to recommend **APPROVAL** of a zone change from RM-1 (Low Rise Multifamily Residence) to RS-3 (Zero Lot Line, Twinhome and Residence) District for the lot located at Valley View Blvd. and College Hills Blvd

Attachments:

- Aerial Map
- Zoning Map
- Vision Plan Map (Future Land Use)
- Public Notice Map
- Site Visit photo
- Site Visit photo
- Site Visit photo
- Site Visit photo: Valley View Blvd
- Site Visit photo: College Hills Blvd



ZC21-15: Zone Districts

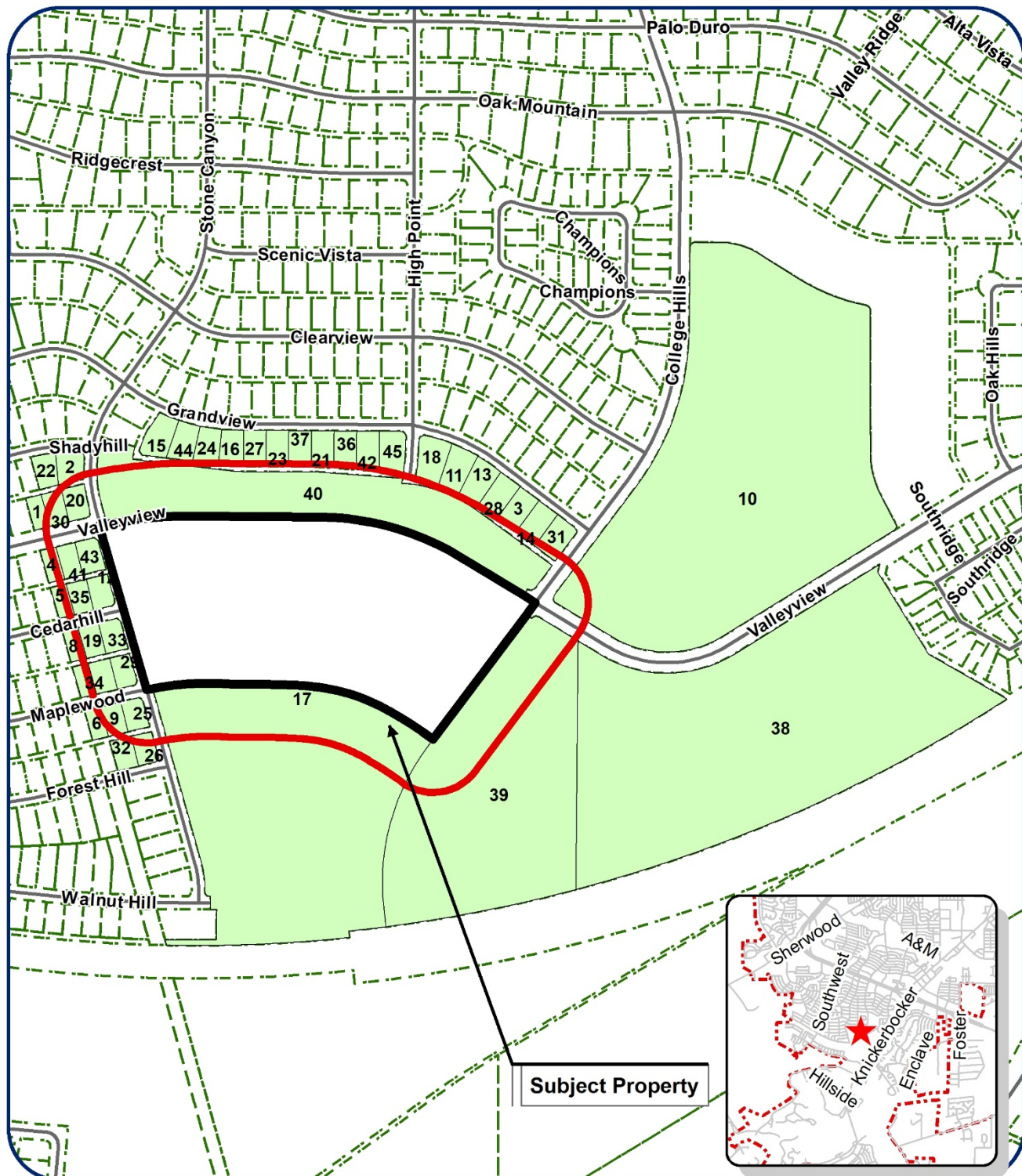
Valley View & College Hills

Council District #1 - Tommy Hiebert
 Neighborhood: Bonham
 Scale: 1" approx. = 417 ft

Legend

Subject Properties: 
 Current Zone District: **RM-1**
 Requested Zone District: **RS-3**
 Vision Plan: **Neighborhood**





ZC21-15: Zone Districts

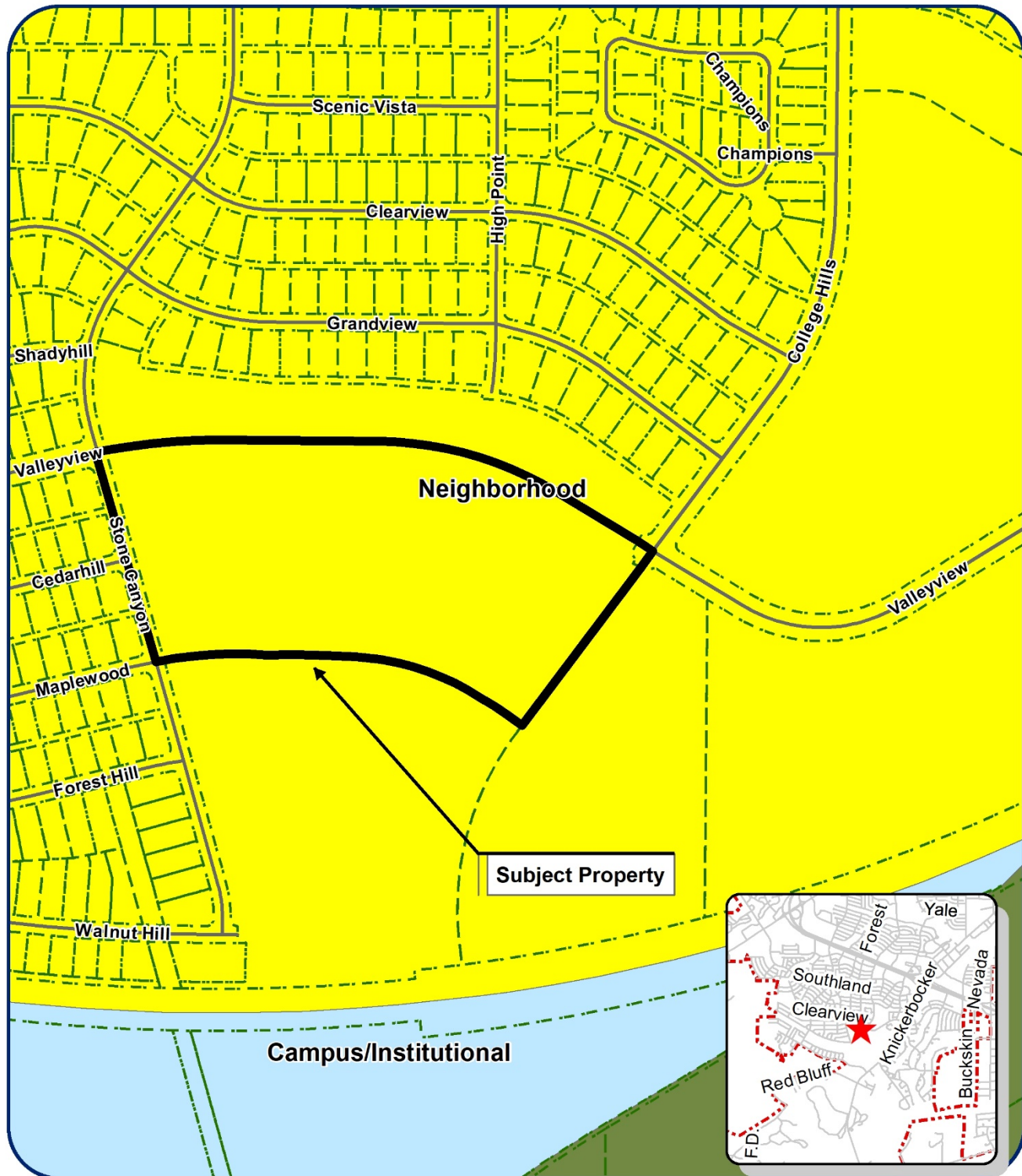
Valley View & College Hills

Council District #1 - Tommy Hiebert
 Neighborhood: Bonham
 Scale: 1" approx. = 479 ft

Legend

Subject Properties: —
 Current Zone District: RM-1
 Requested Zone District: RS-3
 Vision Plan: Neighborhood





ZC21-15: Zone Districts

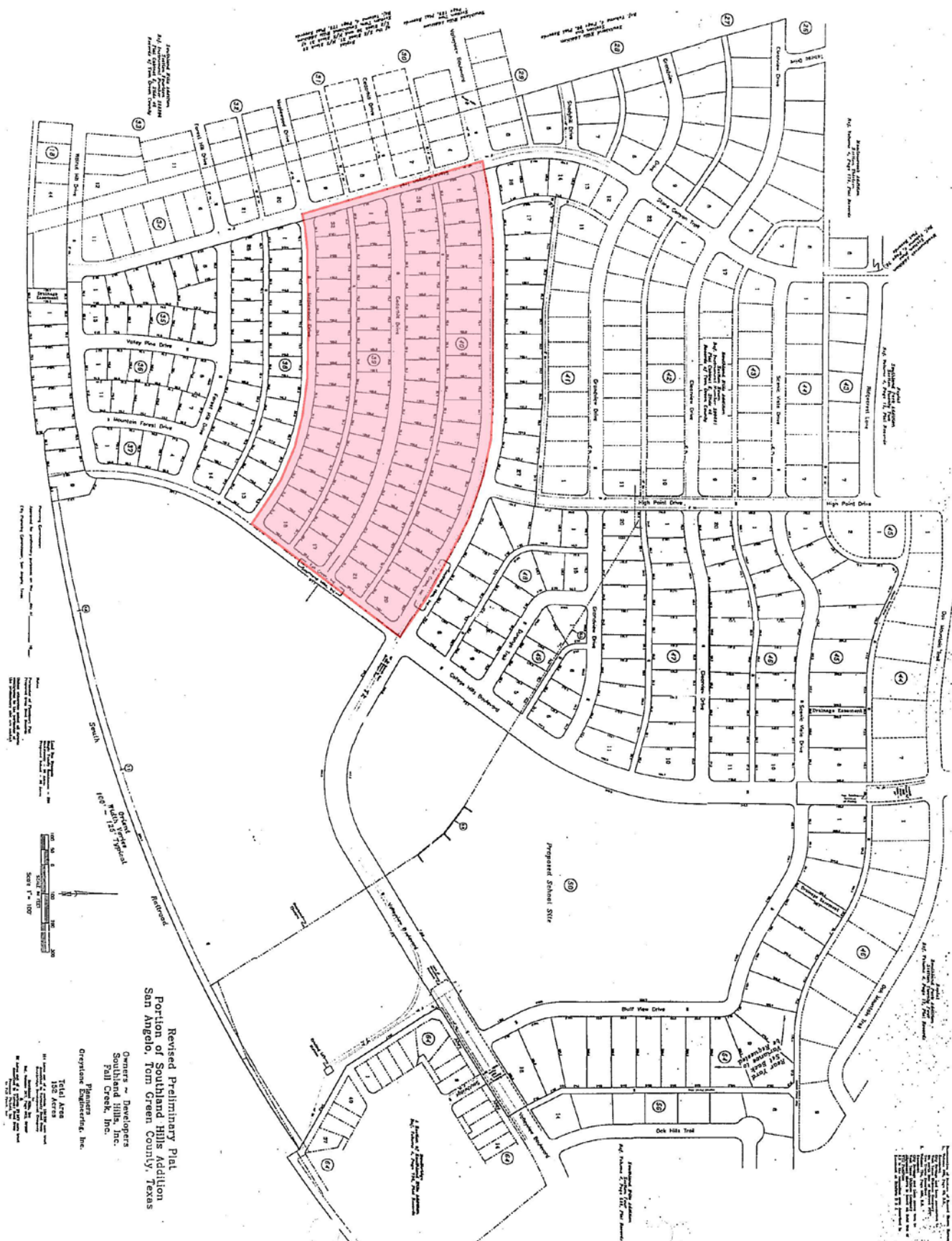
Valley View & College Hills

Council District #1 - Tommy Hiebert
Neighborhood: Bonham
Scale: 1" approx. = 375 ft

Legend

Subject Properties: —
Current Zone District: RM-1
Requested Zone District: RS-3
Vision Plan: Neighborhood





Effective January 3, 2017



City of San Angelo, Texas – Planning Division
52 West College Avenue



Application for Approval of a Zone Change

Section 1: Basic Information

Name of Applicant(s): Duncan Group Southland, LLC

☒ Owner

☐ Representative (Notarized Affidavit Required)

2901 Sherwood Way, Suite 104

San Angelo

Texas

76901

Mailing Address

City

State

Zip Code

512-789-3567

jadi2@sbcglobal.net

Contact Phone Number

Contact E-mail Address

Valley View and College Hills

San Angelo

Texas

76901

Subject Property Address

City

State

Zip Code

Legal Description (can be found on property tax statement or at www.tomgreencad.com)

Abst: A-0141 S-0180, Survey: C DAMMANN, LAND OUT OF 37.5060 ACRES; SEE ATTACHED

Existing Zoning: RM-1

Proposed Zoning: RS-3

Lot size: varies +/- 50'x110'

(Zoning Map available on [City Maps](#))

Section 2: Site Specific Details

Existing Use of Property: Vacant

*Proposed Use of Property: Residential

*Use separate attachment if necessary

Section 3: Applicant(s) Acknowledgement

(By checking the boxes you indicate that you understand below rules and regulations for the Planning Commissions case.)

☒ An application for a zone change on a property may only be made by the owner of that property, an authorized representative of the property owner, the Planning Director, the Planning Commission or City Council. An authorized representative shall present a notarized affidavit from the property owner;

☒ No application will be processed if a zoning violation exists on the property, unless such processing is authorized by City Council. Use of the subject property for any new activity (not allowed by present zoning) cannot occur before City Council's approval of the requested zone change. Any such unauthorized use of the subject property is subject to prosecution in Municipal Court.

☒ If approved, a zone change is applied to the property, not the property owner.

☒ The Planning Commission makes recommendations to City Council. If the Planning Commission recommends approval of a zone change request, the case must still go before City Council for final action.

☒ If a zone change request is granted by City Council, permits for building construction and/or utility connection may be obtained from the City's Permits and Inspections Department.

☒ Certain minimum building setbacks from some or all property lines must be maintained, and room for a minimum number of off-street parking spaces must be reserved on a subject property, based on that property's zoning classification and the nature of its proposed use. A privacy fence may also be required between more restrictive and less restrictive zoning districts. These requirements are outlined in San Angelo's Zoning Ordinance. It is to the applicant's benefit to make sure that any proposed development will fit onto the subject property, in compliance with these and other applicable requirements of the City's Code of Ordinances.

☒ One or more notice sign(s) will be placed on the subject property by the Planning Department. However, it is the applicant's responsibility to ensure that the notice sign(s) has/have been posted at least ten (10) days prior to the Planning Commission meeting. If notice sign(s) is/are not posted accordingly, City Council may delay a request. The Planning Department will also notify, in writing, owners of property within 200-feet of the subject property of the zone change request.

☒ If the Planning Commission recommends denial of a request, the applicant will have ten (10) days to appeal this decision, in writing, to the City Council. If an appeal is made within three (3) days from the Planning Commission meeting, no re-notification fee will be required. Otherwise, there will be a nonrefundable \$35 fee to re-notify owners of nearby property of City Council's public hearing date. If Planning Commission's recommendation of denial is not appealed, it will be the final action on a request.

Effective January 3, 2017

Section 3 continued : Applicant(s) Acknowledgement

☒ The applicant or an authorized representative should attend public hearing(s) pertaining to his/her request, prepared to present his/her case and to answer any relevant questions from Planning Commission or City Council members.

I/We the undersigned acknowledge that the information provided above is true and correct.

James A. Duncan, *[Signature]* Duncan Group Southland, LLC 10-15-2021
Owner Name (Print) Signature Company/Organization (If Applicable) Date

Representative Name (Print) Signature Company/Organization Date

FOR OFFICE USE ONLY:

☐ Verified Complete ☐ Verified Incomplete

Date of Application: ____/____/____

Case No.: Z ____ -- ____

Fully-dimensioned site plan: ☐

Nonrefundable fee: \$ ____

Receipt #: ____ Date paid: ____/____/____

Sign Deposit \$37.50

Receipt #: ____ Date paid: ____/____/____

Affidavit attached? ☐ Yes ☐ No ☐ N/A Applicant's signature on information sheet? ☐ Yes ☐ No

Previous Zone Change Inquiry? ☐ Yes ☐ No If yes, ZCI case no.: ____ -- ____

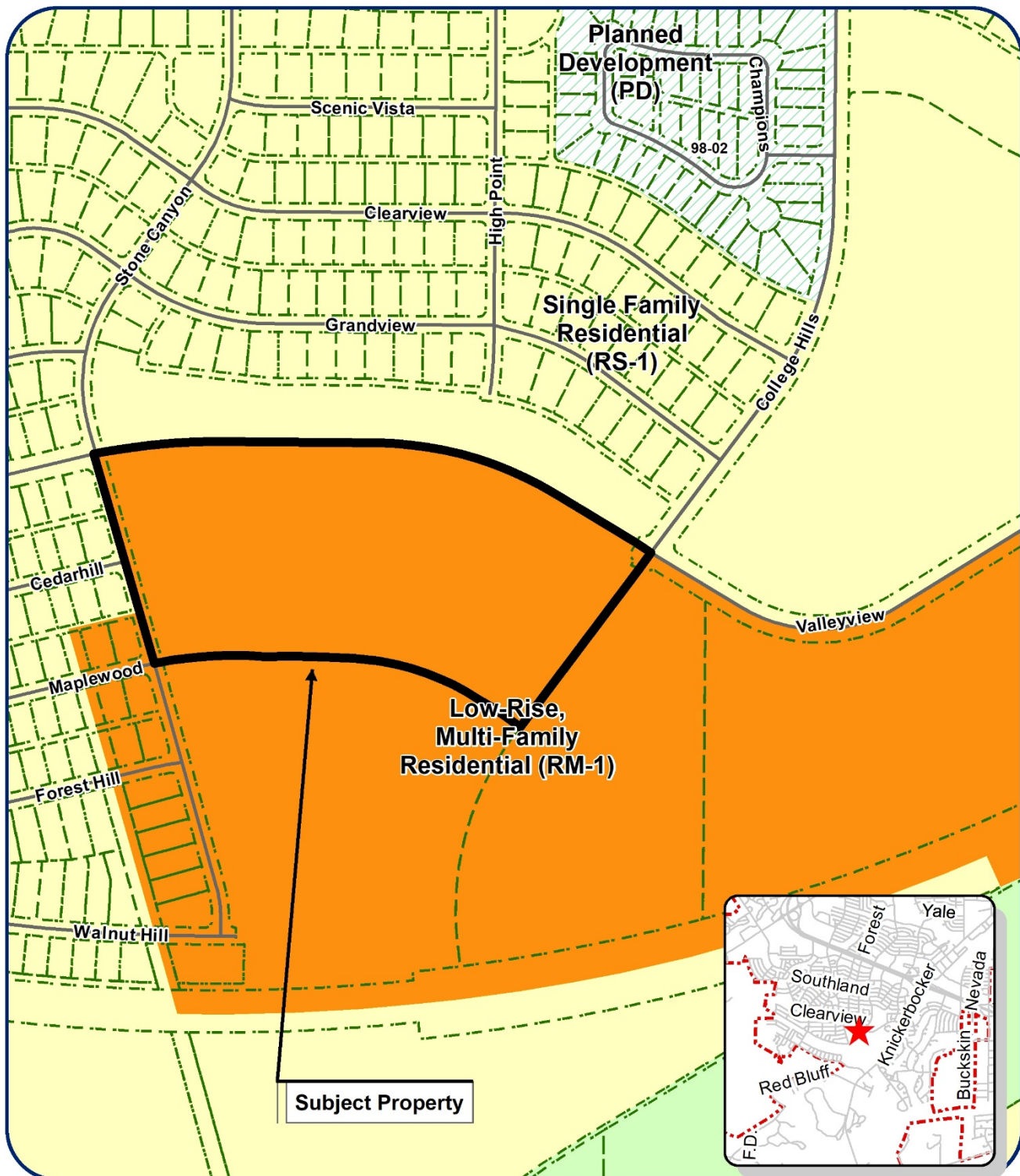
River Corridor Commission? ☐ Yes ☐ No If yes, RCC meeting date: ____/____/____

Planning Commission hearing date: ____/____/____ Date notifications due: ____/____/____

City Council hearing date: ____/____/____ Packets due date: ____/____/____

Publication date: ____/____/____

Reviewed/Accepted by: ____ Date: ____/____/____



ZC21-15: Zone Districts

Valley View & College Hills

Council District #1 - Tommy Hiebert
 Neighborhood: Bonham
 Scale: 1" approx. = 375 ft

Legend

Subject Properties: —
 Current Zone District: **RM-1**
 Requested Zone District: **RS-3**
 Vision Plan: **Neighborhood**



Photos of Site and Surrounding Area











AN ORDINANCE AMENDING CHAPTER 12, EXHIBIT "A" OF THE CODE OF ORDINANCES, CITY OF SAN ANGELO, TEXAS, WHICH ADOPTS ZONING REGULATIONS, USE DISTRICTS AND A ZONING MAP, IN ACCORDANCE WITH A COMPREHENSIVE PLAN, BY CHANGING THE ZONING AND CLASSIFICATION OF THE FOLLOWING PROPERTIES: **AN UNADDRESSED TRACT LOCATED SOUTHWEST OF VALLEY VIEW BLVD. AND COLLEGE HILLS BLVD INTERSECTION, BEING 37.5060 ACRES IN THE C DAMMANN SURVEY NO.180, ABSTRACT NO.141;** FROM THE RM-1 (LOW RISE MULTIFAMILY RESIDENCE) DISTRICT TO THE RS-3 (ZERO LOT LINE, TWINHOME AND RESIDENCE) DISTRICT; PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE DATE

Z21-15: 15 Valley View & College Hills

WHEREAS, on the 15th day of November, 2021, the Planning Commission for the City of San Angelo in compliance with the City Charter, City ordinance and state law, and after holding a public hearing thereon, caused to be prepared and delivered a report and recommendation to City Council to approve the proposed Multifamily Residential (RS-3) Zoning District; and,

WHEREAS, on the 4th day of January, 2021, City Council held a public hearing on Z21-15, pursuant to published notice, and has considered the application, comments, reports and recommendations of the Planning Commission and staff, public testimony, and other relevant support materials;

NOW THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO:

SECTION 1: The basic zoning ordinance for the City of San Angelo, as enacted by the governing body for the City of San Angelo effective January 4, 2000, and included within Exhibit "A" of Chapter 12 of the Code of Ordinances of the City of San Angelo, and zoning map be and the same are hereby amended to designate the following described properties permanently zoned ZERO LOT LINE, TWINHOME AND RESIDENCE (RS-3) Zoning District:

The real properties located at an unaddressed tract located Southwest of Valley View Blvd. and College Hills Blvd intersection, being 37.5060 acres in the C Dammann survey no.180, abstract no.141

SECTION 2: The Director of the Planning & Development Department, or his/her designee, is hereby directed to correct zoning district maps in the office of the Planning

& Development Department, to implement the zoning provision adopted herein, as further depicted in **EXHIBIT A** of this Ordinance.

SECTION 3: In all other respects, the use of the hereinabove described property shall be subject to all applicable regulations contained in Chapter 12 of the Code of Ordinances for the City of San Angelo, as amended.

SECTION 4. The remaining provisions of Chapter 12 of the Code of Ordinances of the City of San Angelo, Texas, not amended under Sections 1 and 2 of this Ordinance shall remain in full force and effect.

SECTION 5 The terms and provisions of this Ordinance shall be deemed to be severable in that, if any portion of this Ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this Ordinance.

SECTION 6: This Ordinance shall be effective on, from and after the date of adoption.

INTRODUCED with public hearing on the **4nd day of January, 2021**, and finally PASSED, on this the **18th day of January, 2021**.

THE CITY OF SAN ANGELO

Brenda Gunter, Mayor

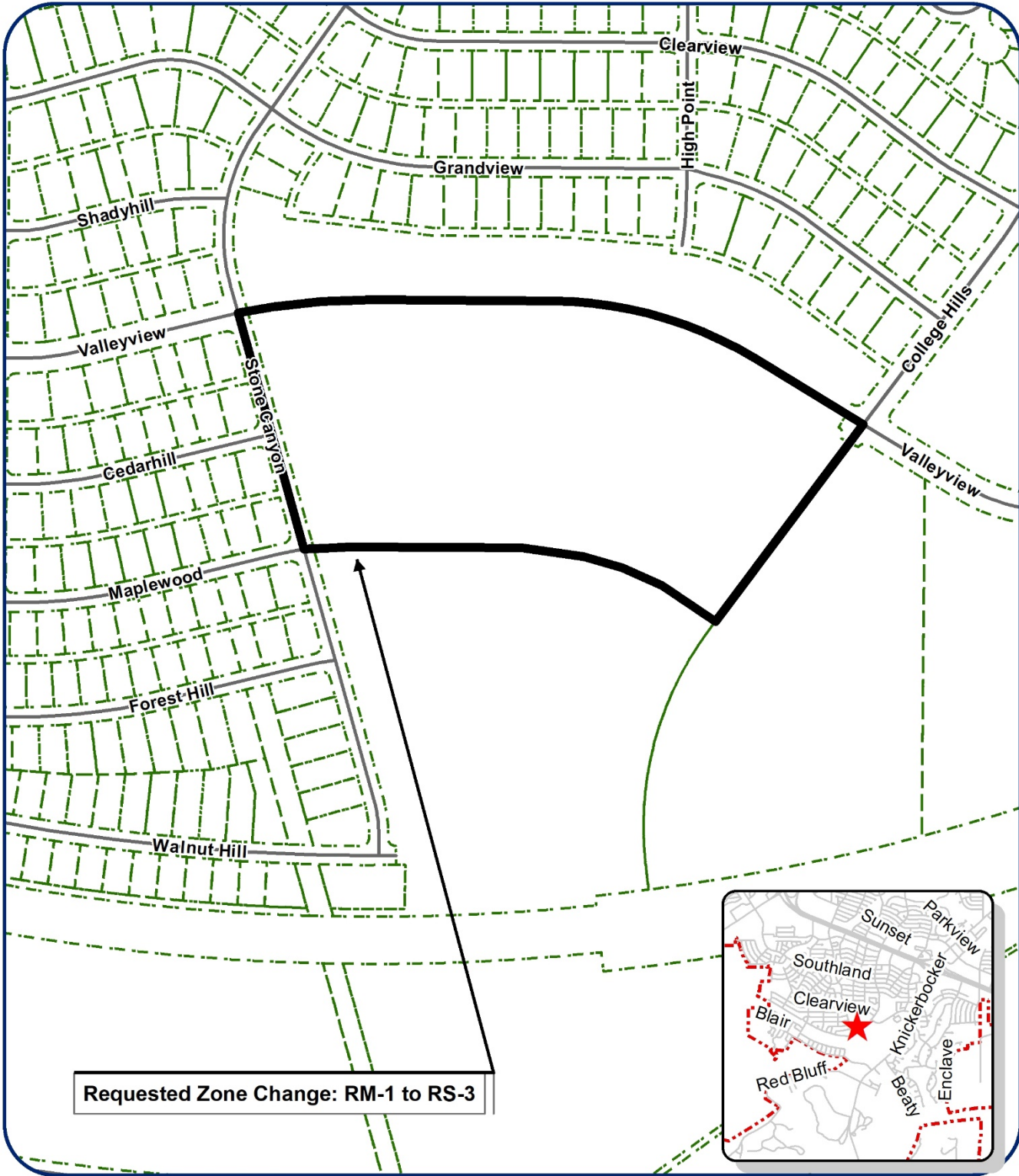
ATTEST:

APPROVED AS TO FORM:

Julia Antilley, City Clerk

Theresa James, City Attorney

EXHIBIT A



Zone Change Map

Valley View & College Hills

Council District #1 - Tommy Hiebert
Neighborhood: Bonham
Scale: 1 " approx. = 333 ft

Legend

Subject Properties: 
Current Zone District: **RM-1**
Requested Zone District: **RS-3**
Vision Plan: **Neighborhood**



REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Theresa James, City Attorney, Police, X1413

Meeting Date: January 4, 2022

Item type: Regular Item

Caption:

First reading and public hearing of an ordinance amending Chapter 8 "Offenses and Nuisances," Article 8.02 "Air Guns, Firearms, and Weapons" of the San Angelo Code of Ordinances to prohibit the firing of archery devices within the City of San Angelo and to bring the Article into compliance with Texas Statutes (Presentation made by Police Chief Frank Carter)

Staff Recommendation:

Approve

Summary/History:

A recent incident involving an archery device within a residential area of the city prompted a review of Article 8.02 of the Code of Ordinances. Due to public safety concerns with this activity, this amendment regulates the firing of archery devices within the city limits. Additionally, the current provisions are out of compliance with state statutes related to firearms. This amendment brings the code into compliance with those statutes.

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Attachments:

- | | | |
|----|---|--|
| 1. | Enacting Ordinance Article 8.02 Air Guns, Firearms, and Weapons | Enacting Ordinance Article 8.02 Air Guns, Firearms, and Weapons.docx |
| 2. | Ordinance Amending Article 8.02 Weapons Exhibit A | Ordinance Amending Article 8.02 Weapons Exhibit A.DOCX |

Presentation:

Frank Carter

Approvals/Reviews:

Theresa James
Frank Carter
Theresa James

Created/Initiated
Approved
Approved

Julia Antilley

Final Approval

AN ORDINANCE OF THE CITY OF SAN ANGELO, TEXAS, DELETING AND REPLACING CHAPTER 8 “OFFENSES AND NUISANCES”, ARTICLE 8.02 “AIR GUNS, FIREARMS AND WEAPONS”; PROVIDING FOR SEVERABILITY; PROVIDING FOR A PENALTY; AND CREATING AN EFFECTIVE DATE

WHEREAS, the City of San Angelo has an ordinance, Article 8.02, that regulates weapons in the City of San Angelo; and

WHEREAS, Article 8.02 does not address firing archery devices within the City limits; and

WHEREAS, Article 8.02 conflicts with state law in regards to carrying handguns within the City limits;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO, TEXAS:

SECTION 1. THAT Chapter 8, Article 8.02, is hereby deleted and replaced as depicted in “Exhibit A”.

SECTION 2. THAT the terms and provisions of this Ordinance shall be deemed to be severable in that, if any portion of this Ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this Ordinance.

SECTION 3. THAT this Ordinance shall take effect and be in full force and effect from and after the date of its publication as required by the City of San Angelo Charter unless otherwise replaced by the San Angelo City Council.

INTRODUCED with public hearing on the 4th day of January, 2022 and finally **PASSED, APPROVED AND ADOPTED** on this the 18th day of January, 2022.

THE CITY OF SAN ANGELO

ATTEST:

Brenda Gunter, Mayor

Julia Antilley, City Clerk

APPROVED AS TO FORM:

Theresa James, City Attorney

ARTICLE 8.02 WEAPONS

Sec. 8.02.001 Definitions

"Air powered weapon" means any BB rifle or BB gun, pellet gun, air gun, paint ball gun, spear gun, wrist rocket and/or slingshot of any description.

"Archery device" means any bow, compound bow, longbow, cross bow, cross bow pistol or any other device capable of firing an arrow or bolt.

"Firearm" means any pistol, handgun, rifle or shotgun that fires a projectile through the combustion of gunpowder or other propellant.

"Archery range" means a room, place, or enclosure equipped with targets for practice with a bow, compound bow, cross bow, cross bow pistol or any other device capable of firing an arrow or bolt.

"Shooting gallery" means a room, place or enclosure wherein the firing of firearms permitted to practice marksmanship. Each shooting gallery shall consist of only one target area.

"Weapon" means any air powered weapon, archery device, firearm or any combination thereof.

Sec. 8.02.002 Discharge of weapons prohibited.

Except as otherwise provided in Section 8.02.003, it is unlawful for any person to fire or discharge any air powered weapon, archery device, firearm or other weapon for any reason, including but not limited to hunting, sporting, target practice or competition within the City.

Sec.8.02.003 Exceptions.

Section 8.02.002 of this Chapter shall not apply to weapons discharged:

- A. As may be allowed by the laws of this State or the United States, or
- B. In the extraterritorial jurisdiction of the City or in an area annexed by the City after September 1, 1981, if the firearm or other weapon is:
 1. A shotgun, air rifle or pistol, BB gun, or bow and arrow discharged:
 - a. On a tract of land of ten acres or more and more than 150 feet from a residence or occupied building located on another property; and
 - b. In a manner not reasonably expected to cause a projectile to cross the boundary of the tract; or
 2. A center fire or rim fire rifle or pistol of any caliber discharged
 - a. On a tract of land of 50 acres or more and more than 300 feet from a residence or occupied building located on another property; and
 - b. In a manner not reasonably expected to cause a projectile to cross the boundary of the tract; or
- C. The discharge of firearms in an archery range, shooting gallery, or gunsmith's establishment

Sec. 8.02.004 Penalty

Any person convicted of violating any provision of this article shall be guilty of a misdemeanor and shall be subject to a fine in accordance with the general penalty provision found in section 1.01.009 of this code. Each incident of such violation shall constitute a separate offense.