

VERSION 1.0

November 19, 2025



BOARD OF DIRECTORS MEETING

November 19, 2025

SUPERSTITION FIRE & MEDICAL DISTRICT BOARD

KATHLEEN CHAMBERLAIN, BOARD CHAIRMAN

CONNIE VAN DRIEL, BOARD CLERK

JEFF CROSS, BOARD DIRECTOR

JASON MOELLER, BOARD DIRECTOR

SHAWN KURIAN, BOARD DIRECTOR



Superstition Fire & Medical District

Serving the Communities of Apache Junction and Gold Canyon since 1955

Phone | (480) 982-4440

Website | sfmd.az.gov

BOARD OF DIRECTORS MEETING AGENDA FOR November 19, 2025

Dial in Phone Number: 1-689-206-0397

Phone Conference ID: 575 587 553#

The Board will convene on Wednesday, November 19, 2025, at the Superstition Fire & Medical District's Administrative Office, located at 565 N. Idaho Road, Apache Junction, Arizona. The meeting room will open to the public at 5:00 p.m., with the meeting commencing at 5:30 p.m. local time.

- A. Call to Order
- B. Pledge of Allegiance
- C. Roll Call

The following agenda items are scheduled for discussion at the board meeting. The Governing Board may or may not decide to take action on any or all items. The order of the agenda items may or may not be taken in the order listed.

- 1. Review and approval of the October 2025 financial reports and bank reconciliations.**
- 2. Recognition of employee performance, achievements, and special recognition for community members.**

3. Call to the Public.

A.R.S. §38-431.01(I) A public body may make an open call to the public during a public meeting, subject to reasonable time, place, and manner restrictions, to all individuals to address the public body on any issue within the jurisdiction of the public body. At the conclusion of an open call to the public, individual members of the public body may respond to criticism made by those who have addressed the public body, may ask staff to review a matter, or may ask that a matter be put on a future agenda. However, members of the public body shall not discuss or take legal action on matters raised during an open call to the public unless the matters are properly noticed for discussion and legal action.

4. Consideration and possible approval of all consent agenda items listed below:

- A. Board Meeting Minutes from October 15, 2025
- B. 2026 Dutchman Youth Rodeo Medical Staffing Agreement
- C. Purchase of Replacement Firefighter Turnout Gear
- D. Construction Administration Supervisor Agreement

5. Discussion, review and status update on Bond Proposition 494.

6. Discussion and possible adoption of Resolution #2025-11-19-02, Canvassing Special Bond Election.

Administration Office
565 North Idaho Road
Apache Junction, AZ 85119

Regional Training Center
3700 East 16th Avenue
Apache Junction, AZ 85119

Fleet Services
1455 East 18th Avenue
Apache Junction, AZ 85119

7. Discussion and possible action regarding an official release statement re: Special Election SFMD Proposition 494.
8. Approval of commitment and Purchase Order for one 2027 Pierce 100' platform ladder truck by approving a Purchase Order creation.
9. Approval of an addendum to the lease purchase agreement, Board Resolution #2025-11-19-03, approval of certificate of authority, approval of consent and waiver, approval of addendum to escrow agreement from Zions Bancorporation, N.A. for a 2025 Horton 623 Ambulance with warranty, power loader, and cot.
10. Discussion and possible adoption of Resolution #2025-11-19-04, declaring for purposes of section 1.150-2 of the federal treasury regulations official attempt to be reimbursed in connection with certain capital expenditures.

11. Reports.

Senior Leadership Team (SLT):

Fire Chief John Whitney
Assistant Chief Brian Read
Deputy Chief David Pohlmann
Battalion Chief Ryan Ledbetter
Battalion Chief Tanner Fox
Transportation Services Director Billy Warren
Assistant Chief Richard Mooney
Deputy Chief Jeff Cranmer
Administrative Services Director Anna Butel

12. Possible vote to go into Executive Session for personnel matters pursuant to A.R.S. § 38-431.03(A)(1) and legal advice pursuant to A.R.S. § 38-431.03(A)(3) and possible instructions to legal counsel pursuant to A.R.S. § 38-431.03(A)(4) re: Fire Chief John Whitney's Annual Evaluation.

13. Public Session. Discussion regarding the Fire Chief's Annual Evaluation

14. New Business / Future Agenda Items.

15. Announcements and Document Signing.

16. Adjourn

NOTICE: The Governing Board may go into executive session for the purpose of obtaining legal advice from the Fire District's attorney(s) on any of the above agenda items pursuant to A.R.S. 38-431.03(A)(3).

One or more members of the Governing Board may attend the meeting telephonically.

Governing Board meeting agenda dated and posted (at least 24-hours before the scheduled meeting date and time).

Posted on: November 17, 2025

At: 1600 Hours

By: Tanya Anderson

The Superstition Fire & Medical District (SFMD) Administrative Office Board Meeting Room is accessible to the handicapped. In compliance with the American with Disabilities Act (ADA), those with special needs, such as large-type face print or other reasonable accommodations may request those through the SFMD Administration Office (480-982-4440) at least 24-hours before the Board Meeting.

Agenda Item Title

Review and approval of the October 2025 financial reports and bank reconciliations.

Submitted By

James Vincent Group

Background/Discussion

The James Vincent Group prepares the monthly financial reports. The District’s annual budget, which is adopted by the Board each June for the following fiscal year (July 1 – June 30), is formatted to mirror the monthly financial statements. The financial reports provide the Board with a monthly recap of expenditures and revenues, along with year-to-date account balance information.

In compliance with A.R.S. §48-807(O), the following reports have been added to the monthly financial statements packet:

1. Cash Flow – All Governmental Funds.
 - a. The Cash Flow report consists of the combined cash balances of all District Funds. These balances include the General (100), Transport Services (150), Capital Projects (200), Special Revenue (400), Debt Principal (500), Debt Interest (600) and Certificates of Participation (700) Funds. The Cash Flow report is updated monthly with the actual revenues deposited into and actual expenditures disbursed from the District’s cash accounts. It is important to note the revenues and expenditures are reported on a Cash Basis. This report is generated to demonstrate that the fire District maintains sufficient cash available to satisfy the projected expenditures budgeted over the course of the fiscal year.

2. Fund Account Bank Reconciliations.

The reconciliation of each of the District’s Fund Cash Accounts (General (100), Transport Services (150), Capital Projects (200), Special Revenue (400), Debt Principal (500), and Debt Interest (600) Funds) between the Pinal County Treasurer’s monthly bank statement and the District’s Fund balance sheet report is provided. To signify Board approval of the monthly financial statements and bank reconciliations, the Board Chairman is requested to sign the attached Letter of Acceptance which will be kept on file at the District.

Financial Impact(s)/Budget Line Item

N/A

Enclosure(s)

*Monthly Financials provided under separate cover

Recommended Motion
“Motion to approve the October 2025 financial reports and bank reconciliations.”



Superstition Fire & Medical District
Governing Board Acceptance of Fire District's
Financial Statements and Bank Reconciliations

Pursuant to A.R.S. §48-807, by the signature(s) below, the Governing Board of the Superstition Fire & Medical District attests to the review and approval of the following financial report(s) of the fire district for the month of **October 2025**:

1. Financial Statement
2. Bank Reconciliations
 - a. General (100) Fund
 - b. Transport Services (150) Fund
 - c. Capital Projects (200) Fund
 - d. Special Projects (400) Fund
 - e. Debt Principle (500) Fund
 - f. Debt Interest (600) Fund
 - g. Certificates of Participation (700) Fund

Kathleen Chamberlain, Board Chair

Date



October 2025

Governing Board Meeting – Novembre 19, 2025

Agenda Item: 2

Agenda Item Title

Recognition of employee performance, achievements, and special recognition for community members.

Submitted By

Fire Chief John Whitney

Assistant Chief Brian Read

Assistant Chief Richard Mooney

Background/Discussion

This is a recurring monthly item to provide the Board with information concerning superior employee performance, achievements, and special recognition for community members.

November Service Anniversaries

25 Years of Service

Engineer/Paramedic **July Ritschel**

19 Years of Service

Information Systems Manager **Lauren Daniel**

12 Years of Service

Fleet & Facilities Support Specialist **Jennifer Burke**

10 Years of Service

Transport EMT **Ron DeMarzo**

Transport Paramedic **Jim Tucci**



Go to Item 3

Go to Agenda

8 Years of Service

Firefighter **Lucas Martinez**

Transport Paramedic **Jake Millan**

Engineer **Mark Nelson**

5 Years of Service

Engineer **Ben Young**

4 Years of Service

Human Resource Manager **Alena Sampson**



[Go to Item 3](#)

[Go to Agenda](#)

Governing Board Meeting – November 19, 2025

Agenda Item: 3

Agenda Item Title

Call to the Public

A.R.S. §38-431.01(I)

A public body may make an open call to the public during a public meeting, subject to reasonable time, place and manner restrictions, to allow individuals to address the public body on any issue within the jurisdiction of the public body.

At the conclusion of an open call to the public, individual members of the public body may respond to criticism made by those who have addressed the public body, may ask staff to review a matter or may ask that a matter be put on a future agenda.

However, members of the public body shall not discuss or take legal action on matters raised during an open call to the public unless the matters are properly noticed for discussion and legal action.

Background / Discussion

Call to the Public is provided so citizens may address the public body (Governing Board) with matters concerning the fire district. Arizona public meeting law provides that the public body may discuss, consider, or decide only matters listed on the agenda and other matters related thereto. Since the public body will generally not know what specific matters may be raised at call to the public, they will be unable to act until the matter is placed on a subsequent meeting agenda (at the Board's discretion). The Board may also direct staff to follow up on the issue with the citizen.

Scheduled

None



[Go to Item 4](#)

[Go to Agenda](#)

Governing Board Meeting – November 19, 2025

Agenda Item: 4

Agenda Item Title

Consideration and possible approval of all consent agenda items as listed below:

- A. Board Meeting Minutes from October 15, 2025 – **Appendix A**
- B. 2026 Dutchman Youth Rodeo Medical Staffing Agreement - **Appendix B**
- C. Purchase of Replacement Firefighter Turnout Gear- **Appendix C**
- D. Construction Administration Supervisor- **Appendix D**

Background/Discussion

The consent agenda allows the Board of Directors (BOD) to consider contracts, purchases, and other routine administrative matters having authorized funding within the current fiscal year budget as a single decision. Items may be withdrawn from the consent agenda and discussed separately upon request by any member of the BOD or staff. Information for each consent agenda item and corresponding supporting document is within the packet.

Recommended Motion

“Motion to approve the consent agenda items for November 19, 2025.”



[Go to Item 5](#)

[Go to Appendices](#)

[Go to Agenda](#)

Governing Board Meeting – November 19, 2025

Agenda Item: 5

Agenda Item Title

2025 Bond Election Update

Submitted By

Anna Butel, Administrative Services Director

Background/Discussion

The Superstition Fire & Medical District (SFMD) is committed to providing the highest level of fire protection, emergency services, and community support. To continue this mission and meet the growing needs of our community, we are proposing a bond measure that will allow us to invest in essential infrastructure, equipment, and services.

This is an update regarding the progress that has occurred thus far.

Financial Impact(s)/Budget Line Item

n/a

Enclosure(s)

n/a

Recommended Motion

N/A



Go To Item 6

Go to Agenda

Governing Board Meeting – November 19, 2025

Agenda Item: 6

Agenda Item Title

Resolution Canvassing Special Bond Election

Submitted By

Anna Butel, Administrative Services Director

Background/Discussion

The District Board of the Superstition Fire & Medical District will consider a resolution canvassing and certifying the results of the November 4, 2025, special bond election held in Pinal and Maricopa Counties. The resolution formally accepts the certified election results, authorizing the issuance of general obligation bonds to finance capital needs and directs the Clerk to transmit the resolution to the respective Boards of Supervisors.

State statute requires that this resolution be adopted by the District Board within 20 days of the election (i.e., November 24, 2025), but a postponement is allowed if the election returns are not provided timely.

Financial Impact(s)/Budget Line Item

n/a

Enclosure(s)

Resolution

Recommended Motion

Motion to approve resolution 2025-11-19-02 canvassing special bond election.



Go To Item 7

Go to Agenda

RESOLUTION OF THE DISTRICT BOARD OF SUPERSTITION
FIRE & MEDICAL DISTRICT OF PINAL AND MARICOPA
COUNTIES, ARIZONA, CANVASSING THE RESULTS OF A
SPECIAL BOND ELECTION HELD ON NOVEMBER 4, 2025,
IN AND FOR THE DISTRICT

WHEREAS, the District Board of Superstition Fire & Medical District of Pinal and Maricopa Counties, Arizona (the “District”), called a special bond election that was held on November 4, 2025 (the “Election”), for the purpose of authorizing the sale and issuance of general obligation bonds of the District to finance a portion of the capital needs of the District; and

WHEREAS, the Pinal County Elections Department provided the District with the final results of the Election on November 4, 2025, and a copy of such Election results is attached as Exhibit A; and

WHEREAS, the Maricopa County Elections Department provided the District with the final results of the Election on November 4, 2025, and a copy of such Election results is attached as the Exhibit B;

NOW, THEREFORE, BE IT RESOLVED BY THE DISTRICT BOARD OF SUPERSTITION FIRE & MEDICAL DISTRICT OF PINAL AND MARICOPA COUNTIES, ARIZONA:

Section 1. The District Board hereby accepts and certifies the results of the Election as reflected in Exhibit A and Exhibit B attached hereto. Pursuant to Section 16-642, Arizona Revised Statutes, the Clerk of the District Board is directed to present a certified copy of this resolution to the Board of Supervisors of Pinal County, Arizona and the Board of Supervisors of Maricopa County, Arizona.

PASSED, ADOPTED AND APPROVED by the District Board of Superstition Fire & Medical District of Pinal and Maricopa Counties, Arizona, on November 19, 2025.

.....
Chair, District Board, Superstition Fire and Medical
District of Pinal and Maricopa Counties, Arizona

ATTEST:

.....
Clerk, District Board, Superstition Fire and Medical
District of Pinal and Maricopa Counties, Arizona

EXHIBIT A

EXHIBIT B

Governing Board Meeting – November 19, 2025

Agenda Item: 7

Agenda Item Title

Discussion and possible action regarding an official release statement re: Special Election SFMD Proposition 494.

Submitted By

Anna Butel, Administrative Services

Background/Discussion

The Superstition Fire & Medical District (SFMD) is proud to announce the successful passage of Proposition 494, a bond measure approved by voters to strengthen public safety across the region. This community-backed initiative will fund critical upgrades to emergency response infrastructure, enhance firefighter safety, and support modernized equipment and facilities. The approval of Proposition 494 reflects a shared commitment to protecting lives, property, and the future of public safety in our growing community.

Financial Impact(s)/Budget Line Item

N/a

Enclosure(s)

Letter

Recommended Motion

“Motion to approve the Proposition 494 passage letter ”



Go To Item 8

Go to Agenda



Superstition Fire & Medical District

565 North Idaho Road, Apache Junction, AZ 85119
480-982-4440 www.sfmd.gov

November 20, 2025

On behalf of the entire Superstition Fire & Medical District, we extend our deepest gratitude to our community for your incredible support in our recent bond election. Your engagement and encouragement mark a meaningful step forward in shaping the future of our organization and enhancing the services we provide to the residents we are honored to serve.

We also want to acknowledge and respect those who held differing views throughout this process. Your voices matter, and we remain steadfast in our commitment to listening, learning, and serving with transparency and accountability. It is through open dialogue and shared purpose that we grow stronger together.

This community continues to inspire us with its resilience, unity, and dedication to public safety. We are excited for what lies ahead and look forward to continuing this journey with you. With sincere appreciation,

The SFMD Board of Directors

Kathleen Chamberlain
Board Chairman

Connie Van Driel
Board Clerk

Jeff Cross
Board Director

Jason Moeller
Board Director

Shawn Kurian
Board Director

Governing Board Meeting – November 19, 2025

Agenda Item: 8

Agenda Item Title

Approval of commitment and Purchase Order for one 2027 Pierce 100' platform ladder truck.

Submitted By

Assistant Chief Richard Mooney & Fleet Superintendent Vaughn Croshaw

Background/Discussion

The ladder committee has researched and developed a 100-foot ladder truck that meets the response needs of the Superstition Fire & Medical District. The new ladder will replace the current 2013 ladder truck at Station 264. The 2013 ladder truck will be moved into reserve status when the new ladder truck arrives and is put into service. The expected building time is three years.

SFMD is utilizing the Sourcewell Contract No. 113021-OKC-1.

An additional \$20,000 was added to the quote to cover potential changes, needs, or increases that may arise during the building process.

The plan is to purchase the new ladder with a 7-year lease agreement that includes the option to pay off the lease after 2 years.

The purchase order enables SFMD to secure the quoted price before the rate increase takes effect in January 2026. The lease agreement creation will begin after the purchase order is approved.

Financial Impact(s)/Budget Line Item

The total cost of the Pierce 100-foot platform ladder truck is \$2,119,720.79

Enclosure(s)

Purchase Quote, Proposal Option List & Proposal Details

Recommended Motion

"Motion to approve a commitment and Purchase Order for one 2027 Pierce 100' platform ladder truck"



Go To Item 9

Go to Agenda



October 29, 2025

Superstition Fire & Medical District, AZ
One (1) Velocity PUC 100' Platform EM800
Build Location: Appleton, WI

Proposal Price	\$2,186,736.00	
Arizona State Sales Tax @ 5.60%		122,457.22
Phoenix Sales Tax @ 2.70%		59,041.87
PHX Transportation Plan Tax @ 0.8% of \$13,886.00		111.09
Total Bid Price Including Sales Tax		\$2,368,346.18
Less chassis progress payment discount	(21,451.00)	
Less aerial device progress payment discount	(9,933.00)	
Less payment upon completion @ factory discount	(21,937.00)	
Less 100% pre-payment discount	(176,250.00)	
Subtotal including all pre-pay discounts	\$1,957,165.00	
Arizona State Sales Tax @ 5.60%		109,601.24
Phoenix Sales Tax @ 2.70%		52,843.46
PHX Transportation Plan Tax @ 0.8% of \$13,886.00		111.09
Total Bid Price Including Pre-Pay Discounts & Sales Tax		\$2,119,720.79

Terms:

Price Expiration: The above pricing is valid until January 23, 2026.

Future Changes: Various state or federal regulatory agencies (e.g. NFPA, DOT, EPA) may require changes to the Specifications and in any such event any resulting cost increases incurred to comply will be added to the Purchase Price to be paid by the Customer and documented on a Change Order.

Component Price Volatility: Company shall not be responsible for any unforeseen price increase enacted by the suppliers of major components of the Product (including but not limited to engine, transmission, and fire pump) after the execution of contract or purchase order. Any price increase major components of the product will be passed through to the Customer and will be documented on a Change Order. Due to the uncertainty of the current Tariff situation, an adjustment to the above quoted price may be required prior to the listed expiration date.

Delivery: As currently configured, the unit qualifies for the Build My Pierce (BMP) program. The BMP program offers expedited delivery. As long as the unit stays within the BMP program, the expected delivery is 39 to 44 months. All changes to the apparatus will be communicated to the customer. If the changes made disqualify the unit for the BMP program, delivery will be extended and a price increase will be required. The current standard delivery time is 49 to 54 months.

Payment Terms:

a. If pre-payment discount options are elected, the following terms will apply:

i. Chassis Progress Payment Discount: The chassis progress payment in the amount of **\$715,027.00** will be due **three (3)** months prior to the ready for pick up from the factory date. If elected, an invoice will be provided 30 days prior to the chassis payment due date. If payment is not made when due the discount total will be added back to the final invoice.

ii. Aerial Device Progress Payment Discount: The aerial device payment in the amount of **\$496,625.97** will be due **two (2)** months prior to the ready for pick up from the factory date. If elected, an invoice will be provided 30 days prior to the aerial device due date. If payment is not made when due the discount total will be added back to the final invoice.

iii. Payment Upon Completion at Factory Discount: If elected, final payment is due prior to apparatus leaving the factory for delivery. If payment is not processed upon receipt of invoice the discount total will be required in addition to the invoice amount.

iv. 100% Pre-Payment Discount: If elected, an invoice will be provided upon order processing for the 100% pre-payment. Upon receipt of invoice, payment must be made within thirty (30) days. If this option is elected, the discount is in addition to the chassis progress payment discount, aerial device progress payment discount, and the payment upon completion at the factory discount. If payment is not made when due, the above mentioned pre-payment discounts or a portion thereof, will be added back to the final invoice. Final payment, including any changes made during manufacturing, is due upon completion of the Product at the factory and prior to delivery from the factory.

b. If pre-payment discount options are not elected standard payment terms will apply: Final payment will be due 30 days after the apparatus leaves the factory for delivery. If payment is not made at that time a late fee will be applicable.

c. Payments made for apparatus using a credit card will be applicable to a credit card convenience fee.

Change Orders: Changes processed after order placement will be processed per the following structure; deductions will be based on the option price at time of order placement, additions will be based on current pricing levels at time of change request.

Consortium Purchase: The proposal is based on the apparatus being purchased through Sourcewell utilizing Contract No. 113021-OKC-1 valid until 2/10/2026. It is the purchaser's responsibility to determine if the use of consortiums meets their purchasing requirements.

Performance Bond: A performance bond is included in the above price and will be provided after order placement. If customer elects to remove the performance bond **\$6,900.00** may be deducted from the purchase price. All purchase orders must include the following verbiage if a performance bond is elected, **"Due to global supply chain constraints, any delivery date contained herein is a good faith estimate as of the date of this order/contract, and merely an approximation based on current information. Delivery updates will be made available, and a final firm delivery date will be provided as soon as possible."**

Transportation: Transportation of the apparatus to be driven from the factory to the customers location is included in the above pricing. However, if permits are not obtainable, due to the weight of the apparatus, and the apparatus must be transported on a flat bed, additional Transportation charges will be the responsibility of the customer. We will provide pricing at that time if necessary. If customer elects to drive the apparatus from the factory, **\$11,000.00** may be deducted from the purchase price. if this option is elected payment in full and proof of insurance must be provided prior to leaving the factory and the customer is responsible for compliance with all state, local and federal DOT requirements including the driver possessing a valid CDL license.

Inspection Trips: **Two (2)** factory inspection trips for **four (4)** customer representatives is included in the above pricing. The inspection trips will be scheduled at times mutually agreed upon between the manufacture's representative and the customer, during the window provided by the manufacturer. Airfare, lodging and meals while at the factory are included. In the event the customer is unable to travel to the factory or the factory is unable to accept customers due to the restrictions caused by a national disaster or pandemic then the Dealership reserves the right to use forms of electronic media to accomplish the intention of the inspection trips. Every effort will be made to make the digital media as thorough as possible to satisfy the expectations of the of the customer. If the customer elects to forgo an inspection trip **\$2,400.00** per traveler (per trip) will be deducted from the final invoice.

Cancellation: Cancellation requests after order submission may be subject to cancellation fees.

Acceptance of Proposal:

- a. If the customer wishes to purchase the proposed apparatus Hughes Fire Equipment will provide the Customer its form of Purchase Agreement for the Customer's review and signature.
- b. If the Customer desires to use its standard form of purchase order as the Purchase Agreement, the purchase order is subject to review for any required revisions prior to acceptance.
 - i. Purchase orders must be addressed to Hughes Fire Equipment, Inc., 910 Shelley Street, Springfield, Oregon 97477.
 - ii. Purchase order must reference **"One (1) Velocity PUC 100' Platform EM800 dated 10/29/2025."**
 - iii. Purchase order must include the following verbiage if a performance bond is elected, **"Due to global supply chain constraints, any delivery date contained herein is a good faith estimate as of the date of this order/contract, and merely an approximation based on current information. Delivery updates will be made available, and a final firm delivery date will be provided as soon as possible."**
 - iv. Purchased order should reference, **"Purchased utilizing Sourcewell Contract No. 113021-OKC-1."**
 - v. Purchase orders must be signed and dated by authorized personnel.

By signing below you agree to purchase the above apparatus.

Customer Signature: _____

Date: _____

PO # (if applicable): _____

Proudly serving you, while you serve your communities since 1987



Option List

10/29/2025

Customer: Superstition Fire & Medical District
Representative McDonald, Ed
Organization: Hughes Fire Equipment, Inc
Requirements Manager:
Description: Superstition 100' PUC Platform
Body: Aerial, Platform 100', PUC, Alum Body
Chassis: Velocity Chassis, PAP, PUC-NG (Big Block)

Bid Number: 800
Job Number:
Number of Units: 1
Bid Date: 09/30/2024
Stock Number:
Price Level: 53 (Current: 53)
Lane: Lane 1

Line	Option	Type	Option Description	Qty
1	0766656		Boiler Plates, Aerial 100' Platform Fire Department/Customer - Superstition Fire and Medical Operating/In conjunction W-Service Center - Operating Miles - 25 Miles Number of Fire Dept/Municipalities - 5 Bidder/Sales Organization - Hughes Fire Equipment Delivery - Delivery representative Dealership/Sales Organization, Service - Hughes fire equipment	1
2	0018180		Single Source Compliance, Aerials	1
3	0584456		Manufacture Location, Appleton, Wisconsin	1
4	0584452		RFP Location: Appleton, Wisconsin	1
5	0588609		Vehicle Destination, US	1
6	0764706	SP	BMP Truck - Pre-Approval at Bid - Approved Option Will Be Required at Booking	1
7	0816491		Comply NFPA 1900 Changes Effective Jan 1, 2024, With Exceptions	1
8	0533351		Quint Fire Apparatus	1
9	0588612		Vehicle Certification, Aerial w/Pump	1
10	0681278		Agency, Apparatus Certification, Aerial w/Pump, U.L.	1
11	0816495		Certification, Vehicle Inspection Program, NFPA 1900	1
12	0000114		Inspection Trip(s) Qty, - 02 Fill in Blank - Approval and final 4 department travelers	2
13	0825116		Customer Service Website	1
14	0766110		Consortium, Sourcewell	1
15	0537375		Unit of Measure, US Gallons	1
16	0030006		Bid Bond Not Requested	1
17	0816574		Performance Bond, 100% with Warranty Bond, 1 Yr, and Payment Bond, PPI Terms Percentage, Contract - 100	1
18	0000007		Approval Drawing	1
19	0002928		Electrical Diagrams	1
20	0888811		Velocity Chassis, PAP, PUC-NG (Big Block)	1
21	0000110		Wheelbase Wheelbase - 260.5	1
22	0000070		GVW Rating GVW rating - 84,000	1
23	0000203		Frame Rails, 13.38 x 3.50 x .375, Qtm/AXT/Imp/Vel	1
24	0889469		Frame Liner, "C/Inv L" 12.50" x 3.00" x .25", AXT/Vel/Imp/Enf, 56" QVal	1
25	0508846		Axle, Front, Oshkosh TAK-4, Non Drive, 24,000 lb, Velocity	1
26	0090914		Suspension, Front TAK-4, 24,000 lb, Qtm/AXT/Vel/Enf/SFR	1
27	0087572		Shock Absorbers, KONI, TAK-4, Qtm/AXT/Imp/Vel/Enf	1
28	0000322		Oil Seals, Front Axle	1
29	0802640		Tires, Front, Goodyear, Armor Max MSA, 445/65R22.50, 20 ply	1
30	0019618		Wheels, Front, Alcoa, 22.50" x 13.00", Aluminum, Hub Pilot	1
31	0000310		Request for Turning Radius Report	1
32	0648166	SP	Axle, Rear, Meritor RT58-185, 62,000 lb, Velocity	1
33	0544244		Top Speed of Vehicle, 60 MPH/96 KPH	1
34	0555355		Suspen, Rear, Hendrickson FMX 622 EX, Air Ride, 62,000 lb	1
35	0000485		Oil Seals, Rear Axle	1
36	0627528		Tires, Rear, Goodyear, G751 MSA, 315/80R22.50, LRL, Tandem	1
37	0890548		Wheels, Rear, Alcoa, 22.50" x 9.00", Aluminum, Hub Pilot, Tandem, 315 GY Tire	1
38	0568081		Tire Balancing, Counteract Beads	1

Line	Option	Type	Option Description	Qty
39	0620569		Tire Pressure Monitoring, RealWheels, AirSecure, Valve Cap, Tandem Axle Qty, Tire Pressure Ind - 10	1
40	0801909		Lug Nut, Covers, Chrome	1
41	0003245		Axle Hub Covers w/center hole, S/S, Front Axle	1
42	0013241		Axle Hub Covers, Rear, S/S High Hat (Tandem)	1
43	0002045		Mud Flap, Front and Rear, Pierce Logo	1
44	0601010		Chocks, Wheel, SAC-44-E, Folding, Aerials Qty, Pair - 01	1
45	0601009		Mounting Brackets, Chocks, SAC-44-E, Folding, Horizontal, Aerials Qty, Pair - 01 Location, Wheel Chocks - Left Side Rear Tire, Forward	1
46	0593759		ESC/ABS/ATC Wabco Brake System, Tandem Rear Axle	1
47	0030185		Brakes, Knorr/Bendix 17", Disc, Front, TAK-4	1
48	0000730		Brakes, Meritor, Cam, Rear, 16.50 x 7.00"	1
49	0020784		Air Compressor, Brake, Cummins/Wabco 18.7 CFM	1
50	0000794		Brake Reservoirs, Six Paint Color, Air Tanks - Black #98	1
51	0568012		Air Dryer, Wabco System Saver 1200, Heater, 2010	1
52	0000790		Brake Lines, Nylon	1
53	0000854		Air Inlet, w/Disconnect Coupling Location, Air Coupling(s) - DS Step Well, Forward Qty, Air Coupling (s) - 1	1
54	0070810		All Wheel Lockup (Aerial/Tanker Chassis)	1
55	0812269		Engine, Cummins X15, 605 hp, 1850 lb-ft, W/OBD, EPA 2027, Velocity, PUC-NG	1
56	0811409		Not Required, Engine Contingency Adjustment	1
57	0730808		Filters, Remote Mounted, Oil, Fuel, X15, VEL/AXT/Enf	1
58	0001244		High Idle w/Electronic Engine, Custom	1
59	0687994		Engine Brake, Jacobs Compression Brake, Cummins Engine Switch, Engine Brake - e) Cummins Hi Med Lo	1
60	0552334		Clutch, Fan, Air Actuated, Horton Drive Master	1
61	0123135		Air Intake, w/Ember separator, Imp/Vel	1
62	0814375		Exhaust System, Horizontal, Right Side Exhaust, Diffuser - Aluminized Steel (Standard) Exhaust, Material/Finish - Aluminized Steel (Standard) Location, Diffuser Termination - 2.00" Past Rub Rail (Standard) Tip, Exhaust - Straight Tip (Standard)	1
63	0787999		Radiator, Impel/Velocity	1
64	0722487		Cooling Hoses, Gates Silicone and Rubber Combination, Velocity	1
65	0674793		Fuel Tank, 65 Gallon, Left Side Fill, Rear Air Suspension, PUC	1
66	0001128		Lines, Fuel, Wire Braided, Reusable Fittings	1
67	0618791		DEF Tank, 4.5 Gallon, LS Fill, Forward of Axle, Common Air Bottle Door	1
68	0723716		Fuel Priming Pump, Electronic, Automatic, Cummins, No Swt Req'd	1
69	0582243		Shutoff Valves, Fuel Line @ Primary Filter, Cummins	1
70	0699437		Cooler, Chassis Fuel, Not Req'd.	1
71	0578959		Fuel/Water Separator, Racor Inline	1
72	0887546		Trans, Allison 6th Gen, 4000 EVS P, w/Prognostics, Imp/Vel/SFR/Enf	1
73	0625331		Transmission, Shifter, 6-Spd, Push Button, 4000 EVS	1
74	0517604		Transmission Programming, Park to Neutral, PUC	1
75	0684459		Transmission Oil Cooler, Modine, External	1
76	0001375		Driveline, Spicer 1810	1
77	0669988		Steering, Sheppard M110 w/Tilt, TAK-4, Eaton Pump, w/Cooler	1
78	0001544		Not Required, Steering Assist Cylinder on Front Axle	1
79	0509230		Steering Wheel, 4 Spoke without Controls	1
80	0690274		Logo/Emblem, on Dash Text, Row (1) One - Superstition Text, Row (2) Two - Fire Text, Row (3) Three - Medical	1
81	0123625		Bumper, 19" Extended, S/S, Polished, Imp/Vel	1
82	0616492		Tray, Hose, Center, 19" Bumper, Outside Air Horns, Imp/Vel Grating, Bumper extension - Grating, Rubber Capacity, Bumper Tray - 21) 150' of 1.75"	1

Line	Option	Type	Option Description	Qty
83	0633479		Hose Restraint, Bumper Tray, Velcro Straps, Pair Qty, Pair - 01	1
84	0510226		Lift & Tow Package, Imp/Vel, AXT	1
85	0522573		Tow Hooks Not Required, Due to Lift and Tow Package	1
86	0647239		Cab, Velocity FR, 7000, PUC	1
87	0724207		Engine Tunnel, X12-15, MX13, Foil Insulation w/Mech Fasteners, Velocity FR	1
88	0818272		Cab Insulation, Extreme Climate, Foil Insulation, Impel/Velocity	1
89	0677478		Rear Wall, Exterior, Cab, Aluminum Treadplate	1
90	0122466		Cab Lift, Elec/Hyd, w/Manual Override, Imp/Vel	1
91	0123176		Grille, Bright Finished, Front of Cab, Velocity	1
92	0002224		Scuffplates, S/S At Cab Door Jambs, 4-Door Cab Material Trim/Scuffplate - c) S/S, Polished	1
93	0527032		Trim, S/S Band, Across Cab Face, Rect Lights, Velocity Material Trim/Scuffplate - c) S/S, Polished Turnsignal Covers - Polished S/S Covers	1
94	0087357		Molding, Chrome on Side of Cab	1
95	0775379	SP	Mirrors, Ramco, 8015FFHR-750HR DS, 8001 PS, Bolt-on Cnvx,All Htd/Rmt,Cab Mnt,Vel Riser, Ramco Mirror - 6.00", Pair, Ramco	1
96	0680149		Riser, Ramco Mirror, 6.00", Pair	1
97	0651313		Door, Half-Height, Velocity FR 4-Door Cab, Level Roof Key Model, Cab Doors - 751 Cab, Exterior Door Handle, Finish - 4-Door, Chrome/Black	1
98	0655511		Door Panel, Brushed Stainless Steel, Impel/Velocity 4-Door Cab	1
99	0667905		Storage Pockets w/ Elastic Cover, Recessed, Overhead, Impel/Velocity FR	1
100	0667902		Controls, Electric Windows, All Cab Doors, Impel/Velocity FR	1
101	0746365	SP	Steps, 4-Door Cab, Dual, 2" Shorter Bottom Spacing, Imp/Vel Light, Step, Additional - P25 LED	1
102	0770194		Handrail, Exterior, Knurled, Alum, 4-Door Cab	1
103	0892637		Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 1Lt Per Step Color, Trim - Chrome Housing	1
104	0002140		Fenders, S/S on Cab	1
105	0199227		Window, Side of C/C, Fixed, PS Only, Imp/Vel	1
106	0552936		Trim, Cab Side Window, PS, Velocity	1
107	0509286		Not Required, Windows Rear of Crew Cab, Imp/Vel	1
108	0558334		Not Required, Trim, Cab Rear Windows, No Rear Windows	1
109	0663375		Mounting Provisions, 1/4" Alum, Full Engine Tunnel, Vel/Imp Mounting Provision Spacing - 1.00" Material Finish, Cab Interior - Painted	1
110	0653790		Motion Device Only, Havis, C-MD-301 Slide Rail for Computer Docking Station Location - Mounted center of officers side recessed dash area. Same as 38899. Picture in Stage 7 job folder.	1
111	0748671		Cab Interior, Vinyl, Velocity FR, CARE Color, Cab Interior Vinyl/Fabric - Endure Vinyl - Silver/Gray	1
112	0667943		Cab Interior, Paint Color, Impel/Velocity FR Color, Cab Interior Paint - i) fire smoke gray	1
113	0509532		Floor, Rubber Padded Cab & Crew Cab, Imp/Vel	1
114	0819169		HVAC, Extreme-Duty, Impel/Velocity FR, CARE Paint Color, A/C Condenser - Painted White #10 HVAC System, Filter Access - Removable Panel Auxiliary Cab Heater - None	1
115	0745178		A/C Unit, Danhard, 120 Volt AC, 13500 BTU, Location, Painted Cover, Pwr Fet PUC Color, Paint - job color AC Power Source - Shoreline Location, AC Evaporator - Forward Facing, Left Side Cabinet	1
116	0639675		Sun Visor, Smoked Lexan, AXT, Imp/Vel, SFR/Enf Sun Visor Retention - No Retention	1
117	0543257		Grab Handles, Driver Door Post & Passenger Dash Panel, Imp/Vel	1
118	0583938		Lights, Engine Compt, Custom, Auto Sw, WIn 3SCOCD CR, 3" LED, Trim Qty, - 01	1
119	0122516		Fluid Check Access, Imp/Vel Latch, Door, Storage - Lift and Turn Latch, Flush	1

Line	Option	Type	Option Description	Qty
120	0621454	SP	Map Box, Open Back, Top Tray, iPad Slots Location - centered between rear forward facing seats, see photo in Stage 7 Job E-Folder of previous 35111	1
121	0583042		Side Roll and Frontal Impact Protection	1
122	0622618		Seating Capacity, 5 Belted Seats	1
123	0697005		Seat, Driver, Pierce PS6, Premium, Air Ride, High Back, Safety, PRIMARY	1
124	0696994		Seat, Officer, Pierce PS6, Premium, Air Ride, SCBA, Safety, PRIMARY	1
125	0002517		Not Required, Radio Compartment	1
126	0771857		Cabinet, Rear Facing, LS, 21 W x 40.5 H x 30.5 D, Roll, Imp/Vel Light, Short Cabinet - Amdor H2O, Interior, Left Side Material Finish, Shelf - Painted - Cab Interior Shelf/Tray, Cabinet - (1) Shelf, Adjustable, 0.75" Flange Down Door, Cab Interior Cabinet - Rollup, Amdor, Anodized, Locking #1250 Louvers, Cabinet - 0-No Louvers	1
127	0102783		Not Required, Seat, Rr Facing C/C, Center	1
128	0122186		Seat, Rr Fcng C/C, RS Otbrd, Pierce PS6, Premium, SCBA, Safety, PRIMARY	1
129	0108189		Not Required, Seat, Forward Facing C/C, LS Outboard	1
130	0821019		Seat, Fwd Fcng C/C, Ctr, (2) Pierce PS6, Premium, SCBA, Safety, PRIMARY	1
131	0108190		Not Required, Seat, Forward Facing C/C, RS Outboard	1
132	0766467		Upholstery, Seats In Cab, All Vinyl, Seats Inc, CARE Color, Cab Interior Vinyl/Fabric - Endure Vinyl - Silver/Gray Qty, - 05	5
133	0543991		Bracket, Air Bottle, Hands-Free II, Cab Seats Qty, - 05	5
134	0603867		Seat Belt, ReadyReach Seat Belt Color - Red	1
135	0604863		Seat Belt Height Adjustment, 6 Seats, Imp/Vel	1
136	0817557		Helmet Storage, Provided by Fire Department, NFPA/ULC 2024	1
137	0647647		Lights, Dome, FRP Dual LED 4 Lts 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	1
138	0896451		Enhanced Software for Cab and Crew Cab Dome Lts	1
139	0631776		Not Required, Overhead Map Lights	1
140	0727913		Spotlight, Golight/RadioRay, Model 20**4GT, LED, 2 Lts Location - Driver and Passenger side Behind the light bar Color, GoLt - White Bracket, Spotlight - Z Bracket - 2 Lts	1
141	0650030		Controller, Spotlight, Golight, Wired Dash Mt, 2 Lts	1
142	0649967		Location, Spotlight Controller, Driver and Officer, 2 Lts	1
143	0816997		Portable Hand Light, Provided by Fire Dept, NFPA/ULC 2024	1
144	0568369		Cab Instruments, Ivory Gauges, Chrome Bezels, Impel/Velocity 2010	1
145	0509511		Air Restriction Indicator, Imp/Vel, AXT, Enf MUX	1
146	0543751		Light, Do Not Move Apparatus Alarm, Do Not Move Truck - Pulsing Alarm	1
147	0509042		Messages, Open Dr/DNMT, Color Dsply,	1
148	0611681		Switching, Cab, Membrane, Impel/Velocity, AXT WiFi MUX Location, Emerg Sw Pnls - Driver's Side Overhead	1
149	0555915		Wiper Control, 2-Speed with Intermittent, MUX, Impel/Velocity	1
150	0002565		Hourmeter, Aerial Inside Cab	1
151	0002615		Switch, Aerial 12V Master	1
152	0002617		PTO switch, w/light - aerial	1
153	0834413		USB, Cab, 4, 12V DC, Dual USB Termination, Batt Dir. NFPA1900/ULC USB, Type - USB Combo A & C	1
154	0830360		Wiring, Spare, (1) 15A 12V DC, Multi Loc, Cab, B+, 2nd, NFPA1900/ULC 12vdc power from - Battery direct Wire Termination 1 - Dual USB Type-A & Type-C Wire Termination 2 - Dual USB Type-A & Type-C Wire Termination 3 - Dual USB Type-A & Type-C Wire Termination 4 - Not Required Wire Termination 5 - Not Required Wire Termination 6 - Not Required	1

Line	Option	Type	Option Description	Qty
154			Termination Location 1 - RS side of crew cab iPad map box Termination Location 2 - LS side of crew cab iPad map box Termination Location 3 - front PS dash as per Instrument Panel drawing Termination Location 4 - Not Required Termination Location 5 - Not Required Termination Location 6 - Not Required	
155	0820894		Wiring, Spare, 15 A 12V DC, Batt Dir, 1st NFPA1900/ULC Location, Wiring - Officer Dash 12vdc power from - Battery direct Wire termination - 15 amp power point plug	1
156	0821312		Wiring, Spare, 30 A 12V DC Batt Dir 1st NFPA1900/ULC Location, Wiring - D/S and P/S rear of crew cab doors above side storage compartments 12vdc power from - Battery direct Wire termination - Butt Splice	1
157	0821192		Wiring, Spare, 20 A 12V DC 1st NFPA1900/ULC Qty, - 02 12vdc power from - Battery switched Wire termination - Butt Splice	2
158	0821474		Wiring, Spare, 40 A 12V DC, 6 Ckt Fuse Blk, Blue Sea 5025 1st NFPA1900/ULC Qty, - 01 12vdc power from - Battery switched Location - Cab Electrical Distribution Box	1
159	0680969	SP	Wiring, Spare, 60A 12V DC, 12 Circuit Fuse Block, Blue Sea 5026, Sw Feature Qty, - 01 12vdc power from - Battery direct Location - Mounted to the forward edge of the radio console on top of the engine Tunnel. Switch, Lt Control 1 DC - ds) DS Switch Panel Switch, Lt Control 2 DC - n) No Control	1
160	0547347		Wiring, Spare, 30 A 12V DC, Switch Feature 1st Qty, - 01 12vdc power from - Battery direct Wire termination - Butt Splice Location - LS1 Driver side #1 Switch, Lt Control 1 DC - ds) DS Switch Panel Switch, Lt Control 2 DC - n) No Control	1
161	0889297		Radio, APTIV, AM/FM/USB/WB, Integrated SiriusXM Satellite, Bluetooth Speakers, AM/FM Radio - Two (2) pairs of speakers, Cab/Crew Antenna, AM/FM Radio - c) Roof-mounted rubber antenna Location, AM/FM Radio - e) switch panel	1
162	0044166		Swivel Mount, Heavy Duty, Fill in Blank Feature Location - centered overhead Qty, - 01 Fill in Blank - electric siren head	1
163	0814201		Vehicle Information Center, 7" Color Display, Touchscreen, MUX, CL714 System Of Measurement - US Customary	1
164	0816633		Collision Mitigation, HAAS Alert (R2V), HA7 Subscription, HAAS R2V - R2V - 5 Year Data Plan Subscription	1
165	0606249		Vehicle Data Recorder w/CZ and Overhead Display Seat Belt Monitor	1
166	0819255		Hangers For Headsets, NFPA/ULC 2024, Each Qty, - 05 Location, Headset Hangers - Driver Seat, Officer Seat, DS Inbrd, Fwr Fcng Seat, PS Inbrd, Fwr Fcng Seat and PS Outbrd, Rear Fcng Seat	5
167	0003757		Antenna, Std and Add'l Mts Only, 2-way Radio,Cust,Spl Cable Routing Location - Terminate at forward edge of engine tunnel plate with 3' service loop. Qty, - 02 Location 1 - Terminate at forward edge of engine tunnel plate with 3' service loop.	2
168	0817058		Camera, Pierce, LS Mux, R Camera, SD, CL714 Camera System Audio - Speaker Near Drivers Knee (VEL/IMP/Dash CF ONLY)	1
169	0814831		Not Required, Camera Switcher	1

Line	Option	Type	Option Description	Qty
170	0511071		Guard, 4-Way, Rear Vision Camera Qty, - 01 Location - rear of truck	1
171	0896458		Pierce Command Zone, Advanced Electronics & Control System, Vel WiFi CZT Color, Antenna - White Antenna Module Housings - Black Housing with Power and Status Ind	1
172	0896456		Prognostics, Electrical System	1
173	0816093		ClearSky Telematics, Remote Fleet & On-scene Management, AT&T Commercial Subscription, Telematics - 3 Year Subscription	1
174	0730603		Electrical System, Velocity ESP, Cummins, Paccar	1
175	0079211		Batteries, (6) Stryten/Exide Grp 31, 950 CCA each, Threaded Stud	1
176	0008621		Battery System, Single Start, All Custom Chassis	1
177	0123174		Battery Compartment, Imp/Vel	1
178	0834489		Battery Charger/Converter, Progressive Dynamics PD9380, 80A	1
179	0814893		Location, Body, Charger, Front Side Compartment, LS Location, Comp Body - High On Left Wall	1
180	0836815		Lights, Charger Indicator for IRT	1
181	0814971		Not Required, Location Ind/Remote	1
182	0811952		Not Required, Indicator/Remote Status	1
183	0016857		Shoreline, 20A 120V, Kussmaul Auto Eject, 091-55-20-120, Super Qty, - 01 Color, Kussmaul Cover - b) red Shoreline Connection - Battery Charger	1
184	0026800		Shoreline Location Location, Shoreline(s) - DS Cab, Frt Corner	1
185	0669846		Shoreline Inlet, 30A 120V, Kussmaul Auto Eject, "Super", Additional Location - Forward cab door DS corner above shoreline Color, Kussmaul Cover - e) blue Connection, Shoreline - RV 110v AC	1
186	0647728		Alternator, 430 amp, Delco Remy 55SI	1
187	0533575	SP	Programming, Command Zone, Spl Programming, No Light Sequencing, Mesa	1
188	0092582		Load Manager/Sequencer, MUX Enable/Disable Hi-Idle - e)High Idle enable	1
189	0783153		Headlights, Rect LED, JW Spkr Evo 2, AXT/Enf/Imp/Sab/Vel Color, Headlight Bez - Chrome Bezel	1
190	0648425		Light, Directional, Wln 600 Cmb, Cab Crn, Wrp Bzl Out HD Lts, Imp/Vel/AXT/Qtm Color, Lens, LED's - m)match LED's	1
191	0620054		Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts	1
192	0648074		Lights, Clearance/Marker/ID, Front, P25 LED 7 Lts	1
193	0647993		Lights, Clearance/Marker/ID, Platform, P25 LED, 5 Lts Light Guard - With Guard	1
194	0511569		Lights, Clearance/Marker/ID, Rear, P25 LED 7Lts Light Guard - Without Guard	1
195	0602938		Light, Marker End Outline, Rubber Arm, LED Marker Lamp, Rear Body Qty, Lights, Pair - 1	1
196	0804514		Lights, Tail, Wln M62BTT* Red Stop/Tail & M62T* Amber Dir Arw For Hsg Color, Lens, LED's - Clear Flash Pattern, Directional Lts - Steady On (Arrow)	1
197	0806466		Lights, Backup, Wln M62BU, LED, For Tail Lt Housing	1
198	0889577		Bracket, License Plate & Light, P25 LED, Stainless Brkt Color, Trim - Chrome Housing	1
199	0556842		Bezels, Wln, (2) M6 Chrome Pierce, For mtg (4) Wln M6 lights	1
200	0589905		Alarm, Back-up Warning, PRECO 1040	1
201	0614309		Synchronize, Wln Warning Lights, 1st Location - Front zone warning lights Qty, - 02 Location 1 - Right front, passenger side upper light, synced with left front, driver side lower light. 4 front lights flash in X pattern Location 2 - Right front, passenger side upper light, synced with left front, driver side lower light	2
202	0613892		Synchronize, Wln Warning Lights, 2nd Location - Front zone warning lights Qty, - 02	2

Line	Option	Type	Option Description	Qty
202			Location 1 - Left front driver side upper light synced with Right front passenger side lower light 4 front lights flash in X pattern Location 2 - Left front driver side upper light synced with Right front passenger side lower light	
203	0006024		Switch, Second Emergency Light Master, Officer's Side	1
204	0817254		Lights, Perimeter Cab, Amdor AY-LB-12HW0** LED 4Dr	1
205	0769572		Lights, Perimeter Pump House, Amdor AY-LB-12HW020 LED 2lts	1
206	0768765		Lights, Perimeter Body, Amdor AY-LB-12HW020 LED 2lts, Turntable Access	1
207	0896454		Control, Perimeter Lts - Parking Brake Applied Enhanced Software for Perimeter Lts	1
208	0740249		Lights, HiViz FT-MB-18-TR-*-, 25.2", 1st Location - Left and Right side of cab over center window on roof Qty, - 02 Control, Scene Lts - Cab Sw Panel DS, Pump Panel Sw LS and Cab Sw Panel PS Color, Lt Housing HiViz - White Scene Light Optics - combination	2
209	0757722		Lights, HiViz FT-B-65-* LED, 1st Location - centered over LS3 compartment Qty, - 01 Control, Scene Lts - DS Scene Lts Color, Lt Housing HiViz - White	1
210	0757717		Lights, HiViz FT-B-65-* LED, 2nd Location - centered over RS3 compartment Qty, - 01 Control, Scene Lts - PS Scene Lts Color, Lt Housing HiViz - White	1
211	0898617		Lights, Hose Bed, Sides, Dual Strips, 45 Ends Control, Hose Bed Lts - Parking Brake	1
212	0893125	SP	Lights, Rear Scene, HiViz, FT-MB-2.6-*-* 7.90" 2Lts Control, Rear Scene Lts - Cab Switch Panel DS, Cab Switch Panel PS and Body Switch, DS Rear Bulkhead Color, Lt Housing HiViz - White Scene Light Optics - combination	1
213	0709438		Lights, Walk Surf, FRP Flood, LED	1
214	0553741		Aerial, Platform 100', PUC, Alum Body	1
215	0554269		Body Skirt Height, 18"	1
216	0563186		Tank, Water, 300 Gallon, Poly, Ascendant Tandem, PAL, PAP, Notched, PUC	1
217	0552049		Overflow, 4.00" Water Tank, Poly, Special Routing	1
218	0028104		Foam Cell Required	1
219	0090721	SP	Drain Plug, Brass IPO Galvanized	1
220	0003429		Not Required, Direct Tank Fill	1
221	0751577		Hose Bed, Aluminum, Trough Style, 2G Aerial Location, driver's/passenger's/center - Right Side Door, Material & Finish, Access - Smooth Aluminum Latch, Door, Access - lift and turn latch	1
222	0723547		Painted Hose Bed/Cargo Area Paint Color, Hose Bed Interior - Match Lower Body	1
223	0003491		Hose Bed Capacity 1000' of 5.00", Ascendant, PAP, PAL	1
224	0591017		Hose Restraint, Hose Bed, Aerial, Front Velcro Strap, Top	1
225	0515525		Not Required, Running Boards, PUC	1
226	0735733		Turntable Steps-Morton Cass, Swing Down,LS/RS,Ascend TA,PAL,PAP,Handhld Cut Outs Step, Flip - No Flip Step	1
227	0892656		Lights, Step (6), P25 LED, Each Side Control, Scene Lts - Park Brake Color, Trim - Chrome Housing	1
228	0690023		Wall, Rear, Smooth Aluminum	1
229	0029503		Tow Eyes (2), Painted Lower Job Color, Aerial	1
230	0013639		Construction, Compt, Alum, PAP	1
231	0008938		Compt, LS F/H F/D, Lap Drs, w/o Chute, 100' PAP Hinge Location - Rear of Body Door, Material & Finish, Stabilizer - Polished Stainless Steel Latch, Door, Access - lift and turn latch, flush	1

Line	Option	Type	Option Description	Qty
232	0001810		Compt, LS Turntable, F/H F/D, Lap Drs, 100' PAP	1
233	0023672		Compt, IPO Stairs, Not Required, LS	1
234	0000539		Compt, RS F/H, Lap Drs, 100' PAP	1
			Hinge Location - Rear of Body	
			Door, Material & Finish, Stabilizer - Polished Stainless Steel	
			Latch, Door, Access - lift and turn latch, flush	
235	0000701		Compt, RS Turntable, F/H, Lap Drs, 100' PAP	1
236	0023673		Compt, IPO Stairs, Not Required, RS	1
237	0666673		Doors, Lap with Amdor Rollup Pump Operator's Compt, Aluminum, Side Compts, PUC	1
			Color, Roll-up Door - AMDOR Painted to Match Lower Body	
			Latch, Roll-up Door - Non-Locking Liftbar	
238	0552955		Blister, Compts in Front of Rear Axle, To Clear Firemaax Suspension	1
239	0084028		Bumper, Rear, 8" Counterweight, w/Treadplate Cover, Ascendant Tandem, PAP, PAL	1
240	0603711		Guard, Drip Pan, S/S, Rollup Door, Aerial	4
			Qty, Door Accessory - 04	
			Location, Door Guard/Drip Pan - LS5, LS6, RS5 and RS6	
241	0603083		Lights, Compt,Pierce LED,Dual Light Strips,Each Side Dr,Ascend TA,75'HAL,PAP,HDL	9
			Qty, - 09	
			Location, Compartment Lights - All Body Compts	
242	0603420		Shelf Tracks, Painted, Aerial	6
			Qty, Shelf Track - 06	
			Location, Shelf Track - LS1, LS3, LS4, RS1, RS3 and RS4	
243	0600289		Shelves, Adj, 500 lb Capacity, Full Width/Depth, Predefined Locations, Aerial	8
			Qty, Shelf - 08	
			Material Finish, Shelf - Painted - Spatter Gray	
			Location, Shelves/Trays, Predefined - * Locations To Be Determined At A Later Date	
244	0709692		Tray, 215 lb, Tilt/Slide-Out, 30 Deg, Adj, Predefined Locations	2
			Qty, Tray (slide-out) - 02	
			Location, Shelves/Trays, Predefined - RS3-Centered and LS3-Centered	
			Material Finish, Tray - Painted - Spatter Gray	
245	0603763		Tray, Floor Mounted, Slide-Out, 500lb, 2.00" Sides, 2G Aerial	1
			Qty, - 01	
			Location, Tray Slide-Out, Floor Mounted - RS4	
			Material Finish, Tray - Painted - Spatter Gray	
246	0709346		Toolboard, Slide-out, Alum, .188", Peg Board, Predefined Locations	2
			Qty, - 02	
			Mounting, Toolboard - Stationary	
			Hole Diameter, Pegboard/Toolboard - .203" diameter	
			Finish, Pegboard/Toolboard - Painted - Spatter Gray	
			Location, Partition/Toolboard, Predefined - LS1 - Centered and RS5 - Centered	
247	0004047		Aluminum, .188" Smooth Aluminum, "DA", on Compartment Floor	9
			Location - R-1,2,3,5 and L- 1,2,3,4,5	
			Qty, Comp. Accessory - 09	
248	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 - LS4	
249	0062238		Pegboard, Side Wall Mounted, 3/16" Alum	4
			Location - RS and LS of LS-1 and RS-5	
			Qty, Comp. Accessory - 04	
			Configuration - Full Height and width	
			Hole Diameter, Pegboard/Toolboard - .203" diameter	
			Finish, Pegboard/Toolboard - Painted - Spatter Gray	
250	0004016		Rub Rail, Aluminum Extruded, Side of Body	1
251	0802979		Fender Crowns, Rear, S/S,Removable Fender Liner,Aerial,2G,Two Pair,Wider Than St	1
			Material Finish, Fender Liner - Painted Aluminum Lower Body	
252	0519849		Not Required, Hose, Hard Suction	1
253	0527021		Handrails Located @ Front Body	1

Line	Option	Type	Option Description	Qty
254	0806235		Compt, Air Bottle, Single, Round, Fender, Tri Door w/DEF, Bolt-In, Tandem Aerials Qty, Air Bottle Comp - 1 Door Finish, Fender Compt - Polished Location, Fender Compt - Single - LS Fwd - DEF Combo - Triangular Dr Latch, Air Bottle Compt - Southco C2 Chrome Raised Insert, Air Bottle Compt - Rubber Matting	1
255	0804426		Compt, Air Bottle, Single, Round, Fender, Bolt-In, Tandem Aerials Qty, Air Bottle Comp - 7 Door Finish, Fender Compt - Polished Location, Fender Compt - Single (2) - LS Tandem, Single (2) - RS Tandem, Single - LS Rear, Single - RS Fwd and Single - RS Rear Latch, Air Bottle Compt - Southco C2 Chrome Raised Insert, Air Bottle Compt - Rubber Matting	7
256	0004218		Ladder, 35' Duo-Safety 1200A 2-Sect Qty, - 1	1
257	0004222		Ladder, 24' Duo-Safety 900A 2-Section Qty, - 01 Location, Extension Ladder - torque box	1
258	0004232		Ladder, (2) 16' Duo-Safety 875A Roof	1
259	0004233		Ladder, 14' Duo-Safety Fresno 701 Qty, - 1	1
260	0004246		Ladder, 10' Duo-Safety Folding, 585A Qty, - 01 Location, Folding Ladder Aerial - torque box	1
261	0592248		Ladders Stored in Torque Box, Amdor Roll, Ascendant TA, PAL, PAP Color, Roll-up Door - AMDOR Painted to Match Lower Body Latch, Roll-up Door - Non-Locking Liftbar	1
262	0602108		Lights, Torque Box Ladder Storage, Truck-Lite 40227C 2lts, Incd, Round 4"	1
263	0773055		Pike Pole, 8' Fire Hooks Unlimited, Fiberglass, DWHS-8, D-Handle Location - Ladder storage area Qty, Pike Poles - 2	2
264	0775907		Pike Pole, 12' DUO Safety, Fiberglass Qty, - 02	2
265	0789564		Pike Pole, 8' DUO Safety, Fiberglass, Aerial Qty, - 02	2
266	0789566		Pike Pole, 6' DUO Safety, Fiberglass, Aerial Qty, - 01	1
267	0759174		Pike Pole, 4' Fire Hooks Unlimited, New York Roof Hook, RH-4, Pry End Qty, - 02	2
268	0068135		Trash Hook, 10' Fire Hooks Unlimited, TRH-10, w/D Handle Qty, - 03	3
269	0770464		Trough, S/S, Torque Box/Ladder Storage, D-Handled Pike Pole/Trash Hooks Qty, - 03 Pike Pole Make/Model Predefined - Fire Hooks Unlimited 8' Arson Trash Hook D Handle	3
270	0770577		Pike Pole Tubes, in Torque Box/Ladder Storage, Aluminum Qty, - 06	6
271	0024388		No Steps Required, Front Of Body	1
272	0553873		Pump Operators Panel & Module, Aluminum, Control Zone, Ascendant/PAL/PAP PUC	1
273	0520016		Not Required, Pumphouse Structure, PUC	1
274	0889383		Pump, Pierce, 2000 GPM, Single Stage, PUC-NG	1
275	0515822		Seal, Mechanical, Silicon Carbide, PUC Pump	1
276	0802234		Gear Case, Integrated Pump Transmission, PUC-NG, Cummins	1
277	0721196		Pumping Mode, Pump and Roll/Stationary, Basic, MUX, PUC	1
278	0515829		Pump Shift, Sure-Shift	1
279	0515833		Transmission Lock-up, Not Req'd, Park to Neutral, Pump, PUC	1
280	0515835		Auxiliary Cooling System, PUC	1
281	0014486		Not Required, Transfer Valve, Single Stage Pump	1
282	0746501		Valve, Relief Intake, Elkhart Qty - 1 Pressure Setting - 125 psig Intake Relief Valve Control - Behind Right Side Pump Panel	1

Line	Option	Type	Option Description	Qty
283	0724463		Controller, Pressure, Pierce LCD , PUC Pressure Governor Throttle Control - Clockwise Pressure Governor Default Mode - No Mode/Default Press Setting	1
284	0621185		Primer, Trident, Air Prime, Air Operated, Auto w/Gauge	1
285	0552076	SP	Primer, Trident, Special Instructions Fill in Blank - Primer body to be located behind PS pump panel removable section for ease of maintenance.	1
286	0780359		Manuals, Pump, (2) Total, Electronic Copies, Pierce PUC Pump	1
287	0602496		Plumbing, Stainless Steel and Hose, Single Stage Pump, PUC	1
288	0795135		Plumbing, Stainless Steel, w/Foam System	1
289	0517852		Inlets, 6.00" - 1250-2000 GPM, Pierce PUC Pump	1
290	0014650		Pump Suction Tube(s), Short, All	1
291	0004646		Cap, Main Pump Inlet, Long Handle, NST, VLH	1
292	0084610		Valves, Akron 8000 series- All	1
293	0520002		Valve, Inlet(s) Recessed, Side Cntrl, PUC Qty, Inlets - 1	1
294	0004700		Control, Inlet, at Valve	1
295	0004660		Inlet (1), Left Side, 2.50"	1
296	0029147		Not Required, Inlet, Right Side	1
297	0521137		Anode, Zinc, Pair, Pump Inlets, PUC	1
298	0092569		No Rear Inlet (Large Dia) Requested	1
299	0064116		No Rear Inlet Actuation Required	1
300	0092696		Not Required, Cap, Rear Inlet	1
301	0009648		No Rear Intake Relief Valve Required on Rear Inlet	1
302	0092568		No Rear Auxiliary Inlet Requested	1
303	0723049		Valve, .75" Bleeder, Aux. Side Inlet, "T" Swing Handle	1
304	0687424		Tank to Pump, (1) 3.00" Valve, 4.00" Plumbing, 3.00" Tank Outlet, Aerial PUC	1
305	0595508		Outlet, Tank Fill, 1.50", PUC	1
306	0766941		Control, Outlets, Swing Handle, Elec Right Outlets Akron 9335 w/Press Disp, PUC	1
307	0516755		Outlet, Left Side, 2.50" (2), PUC	1
308	0055095		Not Required, Elbow, Left Side Outlets, 2.50"	1
309	0092570		Not Required, Outlets, Left Side Additional	1
310	0035094		Not Required, Elbow, Left Side Outlets, Additional	1
311	0766761		Outlet, Right Side, 2.50", (1), Electric Akron 9335 Controller, PUC Qty, Discharges - 01	1
312	0021134		Not Required, Elbow, Right Side Outlets, 2.50"	1
313	0092571		Not Required, Outlets, Right Side Additional	1
314	0089584		Not Required, Elbow, Right Side Outlets, Additional	1
315	0818640		Outlet, Large Diameter, Right Side, Akron Valve, PUC Outlet, Large Diameter, Plumbing - 4.00" Outlet, Large Diameter, NST Adapter - 4.00" MNST Outlet, Large Diameter, Valve Actuation - PUC Akron 9335 w/PSI	1
316	0527969		Cap, Large Dia Outlet, 4.00", IPO Elbow	1
317	0649939		Outlet, Front, 1.50" w/2" Plumbing Fitting, Outlet - 1.50" NST with 90 degree swivel Drain, Front Outlet - Automatic Location, Front, Single - in center bumper tray	1
318	0092575		Not Required, Outlet, Rear	1
319	0045099		Not Required, Elbow, Rear Outlets	1
320	0092574		Not Required, Outlet, Rear, Additional	1
321	0085695		Not Required, Elbow, Rear Outlets, Large, Additional	1
322	0092573		Not Required, Outlet, Hose Bed/Running Board Tray	1
323	0752097		Caps/Plugs for 1.00" to 3.00" Discharges/Inlets, Chain	1
324	0723042		Valve, 0.75" Bleeder, Discharges, "T" Swing Handle	1
325	0029106		Not Required, Deluge Outlet	1
326	0029302		No Monitor Requested	1
327	0029304		No Nozzle Req'd	1
328	0029107		No Deluge Mount	1
329	0826319		Waterway Outlet & Control, Akron Valve, PUC Outlet, Waterway (Aerial), Valve Actuation - Pierce large handwheel	1
330	0739945		Crosslay Module, Full Width, Boom Compartment, Roll Up Doors, Aerial, PUC	1

Line	Option	Type	Option Description	Qty
331	0749510		Doors, Crosslay, Roll-up Gortite, Each End, Full Height, PUC Color, Roll-up Door, Gortite - Painted to Match Lower Body Latch, Roll-up Door, Gortite - Non-Locking Liftbar Drip Pan - Drip Pan Not Required	1
332	0750916		Crosslays, (2) 1.50", W/Poly Trays, PUC Crosslay/Deadlay/Speedlay Capacity 1 - 200' of 1.75" double jacket hose	1
333	0750900		Crosslay, (1) 2.50", W/Poly Trays, PUC Crosslay/Deadlay/Speedlay Capacity 1 - 200' of 2.50" double jacket hose	1
334	0822465		Foam Sys, Husky 12, Single Agent, PUC NG, PTO, Multi Select Feature Discharge, Foam Locations - Front Bumper Center, Crosslay Lower Center, Crosslay Upper Center, Aerial Foam Bypass, Rear Outlet Inboard Left Side and Right Side Outlet PUC (additional)	1
335	0012126		Not Required, CAF Compressor	1
336	0552481		Refill, Foam Tank, Single Tank, Husky 12, Class A Foam	1
337	0031896		Demonstration, Foam System, Dealer Provided	1
338	0540224		Foam Cell, 25 Gallon, Reduce Water, PUC Type of Foam - Class "A"	1
339	0505016		Drain, 1.00", Foam Tank #1, Husky 12 Foam System	1
340	0091079		Not Required, Foam Tank #2	1
341	0091112		Not Required, Foam Tank #2 Drain	1
342	0738072		Approval Dwg, Pump Panel(s), Not Required	1
343	0032479		Pump Panel Configuration, Control Zone	1
344	0579545		Step, Slide-Out/Fold-Out, Pump Operator Platform, Aerial PUC	1
345	0667186		Light, Slide-Out Pump Operator Step, OSS Access LED, Short Step	1
346	0831515		Material/Finish, Pump Panels, PUC Material/Finish, Pump Panels, Operator Panels, PUC - Brushed Stainless Steel Material/Finish, Pump Panels, Side Panels, PUC - Brushed Stainless Steel	1
347	0516978		Pump and Plumbing Access, Simple Tilt Service, PUC	1
348	0618458		Light, Pump Compt, WIn 3SC0CDCR LED White, PUC Qty, - 01	1
349	0516983		Gauges, Engine, Included With Pressure Controller, PUC	1
350	0005601		Throttle, Engine, Incl'd w/Press Controller	1
351	0739224		Indicator Light @ Pump Panel, Throttle Ready, Incl w/Pressure Gov/Throttle,Green	1
352	0549333		Indicators, Engine, Included with Pressure Controller	1
353	0511078		Gauges, 4.00" Master, Class 1, 30"-0-600psi	1
354	0511100		Gauge, 2.00" Pressure, Class 1, 30"-0-400psi	1
355	0756688		Gauge, Water Level, Pierce, In pressure Controller, w/Mini Slave, PUC, Lt Driver Activation, Water Level G - pb) parking brake is applied	1
356	0750438		Water Level Gauge, WIn PSTANK2, LED 1-Light, 4-Level Qty, - 02 Activation, Water Level G - pg) pump in gear Location, Water Level Gauge, Multi-Select - Each Side Custom Cab Color, Trim - Chrome Trim	2
357	0062992		Gauge, Foam Level, (1) Tank, Class 1, GAAAR 5lt	1
358	0653081		Light, Pump Operator & Panel, Side Ctrl, PUC, 60354C LED Cab & LED OH Chr Cvr	1
359	0606694		Air Horns, (2) Hadley, 6" Round, eTone, In Bumper	1
360	0606835		Location, Air Horns, Bumper, Each Side, Outside Frame, Outboard (Pos #1 & #7)	1
361	0757092		Control, Air Horn, Multi Select	1
362	0757081		Control, Air Horn, Ft Sw, LS	1
363	0757078		Control, Air Horn, Push Button Sw, RS	1
364	0533071		Siren, WIn 295SLSC1, 100 or 200 Watt, w/Plug-in/Detachable Microphone Cord	1
365	0016133		Location, Electronic Siren, Swivel Mount Centered Overhead	1
366	0076157		Control, Elec Siren, Horn Ring	1
367	0601306		Speaker, (1) WIn, SA315P, w/Pierce Polished Stainless Steel Grille, 100 watt Connection, Speaker - siren head	1
368	0601565		Location, Speaker, Frt Bumper, Recessed, Center (Pos 4)	1
369	0835540		Siren, Aux, Federal PF400Q, Control Head and Amplifier, Loc Fet Location - TBD	1
370	0688031		Control, Aux Electric Siren, Driver's Side Foot Sw	1
371	0686830		Location, Aux Elect Siren, Behind PS Seat	1

Line	Option	Type	Option Description	Qty
372	0688013		Speaker, Aux, Siren, Federal BP200-EF	1
373	0687949		Location, Aux Siren Speaker, Frt Bumper, Recess, LS, Outside Frame,Inbrd (Pos 6)	1
374	0746353		Not Required, Warning Lights Intensity	1
375	0600732		Lightbar, WIn, Freedom IV-Q, 2-21.5", RBRBR RBRBR, 30 Deg Filter, Whl Freedom Ltbrs - No Filters	1
376	0056848		Lights, Frnt Zn Up, Pltform, WIn, 50R03ZRR Super 500 LED, Red 3lts	1
377	0669501		Light, Tomar 3065-CHROME Emitter, Traffic Preemption Location - Forward aerial basket. Opticom Priority - b) High Opticom Activation - Cab Switch & E-Master	1
378	0898734		Light, Front Zone, WIn M6** M6** M6** M6** Q Bzl Color, Lens, LED's - Clear Color, Lt DS Frnt Outside - Left Red Color, Lt PS Frnt Outside - Right Blue Color, Lt DS Front Inside - Left Blue Color, Lt PS Front Inside - Right Red Color, Q Bezel and Trim - Polished Chrome	1
379	0653937		Flasher, Headlight Alternating Headlt flash deactivation - a)w/high beam	1
380	0540692		Lights, Side Zone Lower, WIn M6*C LED, Clear Lens, 3pr, Ovr 25 Location, Lights Front Side - b)each side bumper Color, Lt Side Front - Red Color, Lt Side Middle - Red Color, Lt Side Rear - Red Location, Lights Mid Side - Rearward of Crew Cab Doors Location, Lights Rear Side - Between Tandem	1
381	0564655		Lights, Rear Zn Lwr, WIn M6*C LED, Clear Lens, For Tail Lt Housing Color, Lt DS Rear - r) DS Rear Lt Red Color, Lt PS Rear - r) PS Rear Lt Red	1
382	0088745		Light, Rear Zone Up, WIn L31H*F LED Beacon, Red LED Color, Dome, Rear Warning - j) both domes clear	1
383	0006551		Not Required, Lights, Rear Upper Zone Blocking	1
384	0791501		Light, Traffic Directing, WIn TAL65, 36" Long LED, Aerials Activation, Traffic Dir L - Not Connected	1
385	0530074		Location, TDL, On Top of Body Below Turntable w/Treadplate Box	1
386	0530282		Location, Traf Dir Lt Controller, Overhead Switch Panel DS Right End	1
387	0519934		Not Required, Brand, Hydraulic Tool System	1
388	0649753		Not Required, PTO Driven Hydraulic Tool System	1
389	0749705	SP	Tool Mount, Zico QM-MEH-1, 4-place Tool Holder, Mtd to Tray, Turntable Location - Mounted on slide out tray in P4 Qty, - 1 Brand, Model, Age of Tool - Hurst E-Draulics New Gen 3	1
390	0784643		Aerial, 100' Pierce Platform, 35 MPH Wind Rating, 400lb Tip Load Allowance	1
391	0000042		Boom Support, Rear of the Chassis Cab	1
392	0762413		Light, Boom Support, Amdor AY-LB-12HW012, 12" LED	1
393	0799573		Boom Support Compt Included w/PUC Xlay Module Picked Separately, PUC	1
394	0680821		Boom Panel, Pair Paint Color, Predefined - #10 white	1
395	0526890		Not Required, Indicator, Extension	1
396	0688232		Rung Covers, Aerial Device Rung Cover Color - Safety Yellow	1
397	0623645		Aerial Stability Test, Maximum Tip Options	1
398	0728981		Box, Stokes, w/Cover, Base Section, Adjacent to Boom Panel, w/Door Open Sw Qty, - 01 Finish - Painted, Aerial Device Color Latch, Door, Storage - Butterfly Latch, Pair Location, Aerial Device - left side Louvers - no louvers Size, Stokes Basket, Predefined - 88"L x 26"W x 9"H	1
399	0600934		Basket, PAP, Wide Aerial Basket Latch - Eberhard 206	1
400	0677439		Box, Hose Storage, Platform Qty, - 01	1

Line	Option	Type	Option Description	Qty
400			Latch, Door, Storage - Southco 97 Draw Latch Stainless Steel Location, Aerial Basket - left Cover - cover Hose Size, Hosebox - 100' of 1.75"	
401	0677446		Box, Air Mask Storage, At Platform, Additional Latch, Door, Storage - Southco 97 Draw Latch Stainless Steel Quantity - 01	1
402	0601972		Lights, Turntable Walkway, P25, LED	1
403	0601949		Light, Turntable Console, TecNiq T-10, LED Strip Light	1
404	0682164		Cover, Around Aerial Rotation Bearing Material - treadplate	1
405	0732760		Basket Heat Shields, 100' PAP	1
406	0508717		Control Stations, 100' PAP, Color Display	1
407	0680909		Stabilizers, Two Sets, PAP, Split Pan Material, Stabilizer Pad - Aluminum	1
408	0728961		Stabilizer Pan Material Stabilizer Panels - polished stainless steel	1
409	0530819		Not Required, Aerial Stabilizer Pins	1
410	0809974		Door, Stabilizer Control Box, MUX Aerials Latch, Door, Storage - Southco C2 Chrome Raised Hinge Location - Outboard Door, Material & Finish, Stabilizer - Smooth aluminum	1
411	0596621		Hydraulic System, 100' PAP	1
412	0061893		Swivels, w/Encoder, PAL/PAP, 36 Collector Rings	1
413	0784656		Electrical System, D Series, 100' PAP	1
414	0804781		Aerial Scene Lts Separated into Aerial Tip Category and Aerial Tracking Category	1
415	0783178		Lights, Tip, WIn MPB* LED, Front of Basket 2lts Color, WIn Lt Housing - White Paint	1
416	0802753		Lights, Tracking, WIn MP** LED, 2lts Location, Sw, Arl DC Lts - m) 2 locations Color, WIn Lt Housing - White Paint Scene Lt Optics LH Base - Left Narrow Flood Scene Lt Optics RH Base - Right Narrow Flood Mount, WIn II - Universal Bail MP**	1
417	0653737		Lighting, Rung, LED, TecNiq, 3 Section, Base, Mid, Fly Control, Aerial Rung Lighting - Aerial Master, Turntable Sw w/Aerial Mstr and Turntable Sw w/Master Batt Sw Color, Lt Aerial Fly Sect - Blue Color, Lt Aerial Base Sect - Red Color, Lt Aerial Mid Sect - White	1
418	0540743		Lights, Stabilizer Warn (2) Sets, WIn M6*C LED, Clear Lens Color, Lt Rr Stabilzr Pan - r) Pan Light Red Color, Lt Fr Stabilzr Pan - r) Pan Light Red	1
419	0068701		Lights, Grote Supernova LED, Stabilizer Beam, (2) Sets	1
420	0601977		Lights, Stabilizer Scene, (2) sets, Truck-Lite 40227C, Incandescent	1
421	0750301		DC Power to Basket 13.92 Amps @ 12 Volts DC, 100'PAP, RMAP	1
422	0753023	SP	Light, WIn P*H1P1**, 12 Volt LED, Top Raise, Rear Basket, 2nd Qty, - 02 Location, Sw, Arl AC Lts - M)2 Pos Location, Plat/Tip AC Lts - C) Drvr and Pass Color, WIn Lt Housing - White Paint Scene Light Optics - combination Mount, WIn II - Pull Up Sd Mnt 12" & Sensor	2
423	0760583		Light, FRC, Spectra, SPA900 LED, 12 Volt, Under Basket Mount, PAP Qty, - 01 Location, Sw, Arl AC Lts - M)2 Pos Location, Plat/Tip AC Lts - P) Under center facing down Color, FRC/Rom Lt Housing - FRC, White Bezel	1
424	0737181		Intercom, 2-Way Fire Research ICA910 Hands Free	1
425	0590098		Breathing Air to Tip, (1) 4500 PSI, 100' PAP Refill Hose - 50' Breathing Air Fitting - Hansen Breathing Air Mask Box - mask box platform rubber draw latch	1
426	0024742		Not Required, Mask, Breathing Air To Tip	1

Line	Option	Type	Option Description	Qty
427	0126600		Raised Pedestal, 3.00", Rear Mount Aerials, Velocity, Impel, Enf	1
428	0540605		Lyfe Brackets, 3-In-1, Used w/Duo-Safety 875 Ladders ONLY, Wide Basket Width - 19.00"	1
429	0530826		Turntable Access, ManSaver Bars, Yellow	1
430	0016950		Waterway, 100' PAP	1
431	0016951		(2) Preconnects At Platform, PAP	1
432	0540474		Monitor, TFT Monsoon Y4-E21A-P Electric Nozzle, Monitor 1, PAP - TFT M-ERP2000 Electric 2000 gpm	1
433	0086971		Flowmeter, Waterway, MUX, PAP	1
434	0004836		Inlet, 5.00" at Rear w/ Pump, Ascendant Tandem, PAP, PAL	1
435	0047897		Tools, Aerial	1
436	0559491		Manuals and Training, 3 Consecutive Days, Platform, English	1
437	0007150		Bag of Nuts and Bolts Qty, Bag Nuts and Bolts - 1	1
438	0687290		Nozzle, TFT YST-4NN, Stacked Tips w/ Built in Stream Straightener	1
439	0816502		NFPA Required Loose Equipment, Quint, NFPA/ULC 2024, Provided by Fire Dept	1
440	0067022		Hose, 6.00" Soft Suction - 15 Ft. Long	1
441	0027023		No Strainer Required	1
442	0816939		Extinguisher, Dry Chemical, NFPA 2024, Provided by Fire Department	1
443	0816937		Extinguisher, 2.5 Gal. Pressurized Water, NFPA/ULC 2024, Provided by Fire Dept	1
444	0765595		Ladder Belts, Aerial Safety Belt, Large/XL - (2) two Large/XL (34"-42" waist) Safety Belt, Small/Medium - 0 small/medium (26"-34" waist) Safety Belt, XXL - (1) one XXL (42"-50" waist)	1
445	0007482		Not Required, Crowbars	1
446	0007484		Not Required, Claw Tools	1
447	0816998		Axe, Flathead, Provided by Fire Department	1
448	0817000		Axe, Pickhead, Provided by Fire Department	1
449	0007494		Not Required, Sledgehammers	1
450	0741569		Paint Process / Environmental Requirements, Appleton	1
451	0709763		Paint, Single Color, Velocity/Impel Paint Color, Cab - 100 Red	1
452	0709845		Paint, Single Color, Body Paint, Body - Match Cab	1
453	0646901		Paint Chassis Frame Assy, With Liner, E-Coat, Standard Paint Color, Frame Assembly, Predefined - Standard Black	1
454	0693797		No Paint Required, Aluminum Front Wheels	1
455	0693792		No Paint Required, Aluminum Rear Wheels	1
456	0733739		Paint, Axle Hubs Paint, Axle Hub - Black #101	1
457	0007230		Compartment, Painted, Spatter Gray	1
458	0792638		Aerial Platform Paint Paint Color, Aerial Device - White 10 Paint Color, Turntable - White 10 Paint Color, Boom Support - gloss black primer Paint Color, Cylinders - white 10 Paint Color, Aerial Torque Box - gloss black primer Paint Color, Aerial Stabilizers - black 101 Paint Color, Aerial Basket - white 10 Paint Color, Aerial Rotation Motor - Black Paint Color, Aerial Control Console - white 10	1
459	0544099		Reflective Band, 8" Color, Reflect Band - A - a) white	1
460	0510041		Reflective across Cab Face, Imp/Vel	1
461	0583454		Stripe, Chevron, Rear, Diamond Grade, Aerial Color, Rear Chevron DG - yellow	1
462	0598754		Stripe, Reflective/Diamond Grade, 4.00" on Stabilizers Color, Reflect Band - A - p) fluorescent yellow green diamond grade	1
463	0017359		Stripe, Black Outline, Vinyl on Reflective Band Qty, - 01	1
464	0669643		Stripe, Reflective, Inside Aluminum Rub Rail Color, Reflect Band - A - a) white Qty, - 08	8

Line	Option	Type	Option Description	Qty
465	0552453		Stripe, Reflective, Chevron, Cab and Crew Cab Doors Interior, Diamond Grade Color, Reflect Band - A - q) yellow diamond grade Size, Chevron Striping - 04 Color, Reflect Chev - A - r) red diamond grade	1
466	0033179		Lettering Specifications, Reflective	1
467	0686138		Lettering, Reflective, 6.00", Each Qty, Lettering - 30	30
468	0684022		Outline, Lettering - Outline and Shade Lettering, Vinyl, 8.00", Each Qty, Lettering - 04	4
469	0686007		Outline, Lettering - No Outline or Shade Lettering, Reflective, 7.00", Each Qty, Lettering - 06	6
470	0685998		Outline, Lettering - Outline and Shade Lettering, Reflective, 9.00", Each Qty, Lettering - 04	4
471	0686084		Outline, Lettering - Outline and Shade Lettering, Reflective, 3.00", Each Qty, Lettering - 12	12
472	0017268		Outline, Lettering - Outline and Shade Decals, Customer furnished, Pierce installed, Per Pair Qty, - 1	1
473	0766127		Emblem, Arizona Flag Painted on Cab Grille, All Custom Chassis	1
474	0772003		Manual, Fire Apparatus Parts, USB Flash Drive, Custom Qty, - 01	1
475	0772037		Manual, Chassis Service, USB Flash Drive, Custom Qty, - 01	1
476	0773381		Manual, Chassis Operation, (1) USB Flash Drive, Custom, English	1
477	0030008		Warranty, Basic, 1 Year, Apparatus, WA0008	1
478	0611136		Warranty, Chassis, 3 Year, Velocity/Impel, WA0284	1
479	0696698		Warranty, Engine, Cummins, 5 Year, WA0181	1
480	0684953		Warranty, Steering Gear, Sheppard M110, 3 Year WA0201	1
481	0595767		Warranty, Frame, 50 Year, Velocity/Impel, WA0038	1
482	0595698		Warranty, Axle, 3 Year, TAK-4, WA0050	1
483	0733305		Warranty, Tandem Axle, 5 Year, Meritor, General Service, WA0384	1
484	0652758		Warranty, ABS Brake System, 3 Year, Meritor Wabco, WA0232	1
485	0019914		Warranty, Structure, 10 Year, Custom Cab, WA0012	1
486	0744240		Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	1
487	0524627		Warranty, Electronics, 5 Year, MUX, WA0014	1
488	0695416		Warranty, Pierce Camera System, WA0188	1
489	0647720		Warranty, Pierce LED Strip Lights, WA0203	1
490	0046369		Warranty, 5-year EVS Transmission, Standard Custom, WA0187	1
491	0685945		Warranty, Transmission Cooler, WA0216	1
492	0688798		Warranty, Water Tank, Lifetime, UPF, Poly Tank, WA0195	1
493	0596025		Warranty, Structure, 10 Year, Body, WA0009	1
494	0693126		Warranty, AMDOR, Roll-up Door, 10 Year/5 Year Painted, WA0185	1
495	0889364		Warranty, Pump, Pierce, PUC-NG, 7 Year Parts, 1 Year Labor, WA0390	1
496	0648675		Warranty, 10 Year S/S Pumbing, WA0035	1
497	0657846		Warranty, Foam System, Husky 12, WA0231	1
498	0006999		Warranty, Structure, 20 Year, Aerial Device, WA0052	1
499	0687388		Warranty, Swivels, 5 Year, Aerial Device, WA0197	1
500	0685727		Warranty, Hydraulic System and Components, 3 Year/5 Year, WA0200	1
501	0687327		Warranty, Waterway, 10 Year, Aerial Device, WA0198	1
502	0595860		Warranty, Paint, 4 Year, Aerial Device, Pro-Rated, WA0047	1
503	0553455		Warranty, Electronics, 5 Year, MUX, WA0014	1
504	0595820		Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	1
505	0595412		Warranty, Graphics Lamination, 1 Year, Apparatus, WA0168	1
506	0596326		Warranty, Extended, 2 Year, Custom Chassis, Class H, WA0069	1
507	0595446		Warranty, Extended, 2 Year, Aerial Body and Device, Platform, WA0114	1
508	0819254		Certification, Vehicle Stability, CD0196	1
509	0808577		Certification, Engine Installation, Velocity, Cummins X15, 2027	1
510	0686786		Certification, Power Steering, CD0098	1

Line	Option	Type	Option Description	Qty
511	0892701		Certification, Cab Integrity, Impel/Velocity FR, CD0190	1
512	0548950		Certification, Cab Door Durability, Velocity/Impel, CD0001	1
513	0548967		Certification, Windshield Wiper Durability, Impel/Velocity, CD0005	1
514	0667411		Certification, Electric Window Durability, Velocity/Impel FR, CD0004	1
515	0549273		Certification, Seat Belt Anchors and Mounting, Imp/Vel/Vel SLT, CD0018	1
516	0735950		Certification, Cab HVAC System Perf, Vel/Imp FR, CD0166/CD0168/CD0176/CD0177	1
517	0545073		Amp Draw Report, NFPA Current Edition	1
518	0002758		Amp Draw, NFPA/ULC Radio Allowance	1
519	0799248		Appleton/Florida BTO	1
520	0000033		PAP BODY	1
521	0000012		PIERCE CHASSIS	1
522	0004713		ENGINE, OTHER	1
523	0046396		EVS 4000 Series TRANSMISSION	1
524	0520324		PIERCE PUMP, PUC	1
525	0020009		POLY TANK	1
526	0028048		FOAM SYSTEM	1
527	0020006		SIDE CONTROL	1
528	0020007		AKRON VALVES	1
529	0020015		ABS SYSTEM	1
530	0755454		AERIAL MEDIUM	1



Proposal Details Report

10/29/2025

Customer: Superstition Fire & Medical District
Representative: McDonald, Ed
Requirements Manager:
Description: Superstition 100' PUC Platform
Chassis: Velocity Chassis, PAP, PUC-NG (Big Block)
Body: Aerial, Platform 100', PUC, Alum Body
Bid Number: 800
Job Number:
Organization: Hughes Fire Equipment, Inc

OptionCode	Type	Option	ProposalText
0766656		Boiler Plates, Aerial 100' Platform	<p>Hughes Fire Equipment is pleased to submit a proposal to Superstition Fire and Medical for a Pierce® 100' Aerial Platform 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.</p> <p>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.</p> <p>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.</p> <p>Pierce has only one brand of fire apparatus "Pierce", ensuring you are receiving top of the line product that meets your specification.</p> <p>In accordance with the current edition of applicable NFPA standards, this proposal will specify whether the fire department, manufacturer, or apparatus dealership will provide required loose equipment.</p> <p>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.</p> <p>GENERAL DESIGN AND CONSTRUCTION</p> <p>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.</p> <p>QUALITY AND WORKMANSHIP</p> <p>Pierce has set the pace for quality and workmanship in the fire apparatus field. Our tradition of building the highest quality units with craftsmen second to none has been the rule right from the beginning and we demonstrate that ongoing commitment by: Ensuring all steel welding follows American Welding Society D1.1-2004 recommendations for structural steel welding. All aluminum welding follows American Welding Society and ANSI D1.2-2003 requirements for structural welding of aluminum. All sheet metal welding follows American Welding Society B2.1-2000 requirements for structural welding of sheet metal. Our flux core arc welding uses alloy rods, type 7000 and is performed to American Welding Society standards A5.20-E70T1. Furthermore, all employees classified as welders are tested and certified to meet the American Welding Society codes upon hire and every three (3) years thereafter. Pierce also employs and American Welding Society certified welding inspector in plant during working hours to monitor weld quality.</p> <p>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.</p> <p>To demonstrate the quality of our products and services, a list of at least five (5) fire departments/municipalities that have purchased vehicles for a second time is provided.</p> <p>DELIVERY</p> <p>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.</p> <p>MANUAL AND SERVICE INFORMATION</p> <p>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.</p> <p>SAFETY VIDEO</p> <p>At the time of delivery Pierce will also provide one (1) 39-minute, professionally produced apparatus safety video, in DVD format. A link to the video is also available on the Pierce Training website. 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.</p> <p>PERFORMANCE TESTS</p>

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 the current edition of applicable NFPA standards acceleration and braking requirements.

SERVICE AND WARRANTY SUPPORT

Pierce dealership support will be provided by **Hughes fire equipment** 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 **twenty five (25) 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 operator's 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 EVT's, 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.

0018180	Single Source Compliance, Aerials	<p>SINGLE SOURCE MANUFACTURER</p> <p>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, pump house (including the sheet metal enclosure, valve controls, piping and operators panel) body and aerial device 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.</p>
0584456	Manufacture Location, Appleton, Wisconsin	Your apparatus will be manufactured in Appleton, Wisconsin.
0584452	RFP Location: Appleton, Wisconsin	
0588609	Vehicle Destination, US	
0764706	SP BMP Truck - Pre-Approval at Bid - Approved Option Will Be Required at Booking	
0816491	Comply NFPA 1900 Changes Effective Jan 1, 2024, With Exceptions	<p>NFPA 2024 STANDARDS</p> <p>This unit will comply with the NFPA standards effective January 1, 2024, except for fire department directed exceptions. These exceptions will be set forth in the Statement of Exceptions.</p> <p>Certification of slip resistance of all stepping, standing and walking surfaces will be supplied with delivery of the apparatus.</p> <p>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.</p> <p>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.</p> <p>The manufacturer will have programs in place for training, proficiency testing and performance for any staff involved with certifications.</p> <p>An official of the company will designate, in writing, who is qualified to witness and certify test results.</p>
0533351	Quint Fire Apparatus	
0588612	Vehicle Certification, Aerial w/Pump	

0681278

Agency, Apparatus Certification,
Aerial w/Pump, U.L.

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".

INSPECTION CERTIFICATE

A third party inspection certificate for the aerial device will be furnished upon delivery of the aerial device. The certificate will be Underwriters Laboratories Inc. Type 1 and will indicate that the aerial device has been inspected on the production line and after final assembly.

Visual structural inspections will be performed on all welds on both aluminum and steel ladders. On critical weld areas, or on any suspected defective area, the following tests will be conducted: Magnetic particle inspection will be conducted on steel aerials to assure the integrity of the weldments and to detect any flaws or weaknesses. Magnets will be placed on each side of the weld while iron powder is placed on the weld itself. The powder will detect any crack that may exist. This test will conform to ASTM E709 and be performed prior to assembly of the aerial device.

A liquid penetrant test will be conducted on aluminum aerials to assure the integrity of the weldments and to detect any flaws or weaknesses. This test will conform to ASTM E165 and be performed prior to assembly of the aerial device.

Ultrasonic inspection will be conducted on all aerials to detect any flaws in pins, bolts and other critical mounting components.

In addition to the tests above, functional tests, load tests, and stability tests will be performed on all aerials. These tests will determine any unusual deflection, noise, vibration, or instability characteristics of the unit.

PUMP TEST

The pump will be tested, approved and certified by Underwriter's Laboratory at the manufacturer's expense. The test results and the pump manufacturer's certification of hydrostatic test; the engine manufacturer's certified brake horsepower curve; and the manufacturer's record of pump construction details will be forwarded to the Fire Department.

GENERATOR TEST

If the unit has a generator, the generator will be tested, approved, and certified by Underwriters Laboratories at the manufacturer's expense. 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 certify that the air quality meets the requirements of NFPA 1989, *Standard on Breathing Air Quality for Fire and Emergency Services Respiratory Protection*.

0816495

Certification, Vehicle Inspection
Program, NFPA 1900

VEHICLE INSPECTION PROGRAM CERTIFICATION

To assure the vehicle is built to current NFPA 1900 standards, the apparatus, in its entirety, will be third-party, independent, audit-certified through Underwriters Laboratory (UL) that it is built and complies to all applicable standards in the current edition. The certification includes: 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.

0000114

Inspection Trip(s)

INSPECTION TRIP(S)

The bidder will provide **two (2)** factory inspection trip(s) for **Approval and final 4 department travelers** customer representative(s). The inspection trip(s) will be scheduled at times mutually agreed upon between the manufacturer's representative and the customer. All costs such as travel, lodging and meals will be the responsibility of the bidder.

AFTERMARKET SUPPORT WEBSITE

Pierceparts.com will provide Pierce authorized dealer access to comprehensive information pertaining to the maintenance and service of their customer's apparatus. This tool will provide the Pierce authorized dealer the ability to service and support their customers to the best of their ability with factory support at their fingertips.

Pierceparts.com is also accessible to the end user through registration. Limited access is available and vehicle specific parts information accessible by entering a specific VIN number. All end users should see their local authorized Pierce dealer for additional support and service.

The website will consist of the following:

Pierce Fleet

The My Fleet screen will provide access to truck detail information on the major components of the vehicle, warranty information, available vehicle photographs, vehicle drawings, sales options, applicable vehicle software downloads, etc.

Parts

The Parts screens will provide parts look-up capability of Pierce Manufacturing sourced items, with the aid of digital photographs, part drawings and assembly drawings.

Your authorized dealer will have the ability to submit electronic parts orders, parts quotes, or parts return requests directly to Pierce Manufacturing for processing.

Warranty

The Warranty screens will provide your authorized dealer the ability to submit warranty claims electronically direct to Pierce Manufacturing.

Resources

The Technical Support screens will provide access to all currently published Operation and Maintenance and Service Publications. Access to Pierce Manufacturing Service Bulletins and Work Instructions, containing information on current service topics and recommendations will be provided.

Training

The Training screens will provide access to upcoming training classes offered by Pierce Manufacturing along with interactive electronic learning modules (Operators Guides) covering the operation of major vehicle components. Access to training manuals used in Pierce Manufacturing training classes will be provided.

0766110 Consortium, Sourcewell

0537375 Unit of Measure, US Gallons

0030006 Bid Bond Not Requested

BID BOND NOT REQUESTED

A bid bond will not be included. If requested, the following will apply:

All bidders will provide a bid bond as security for the bid in the form of a 5 percent bid bond to accompany their bid. 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.

0816574	Performance Bond, 100% with Warranty Bond, 1 Yr, and Payment Bond, PPI Terms	<p>PERFORMANCE BOND, 1 YEAR</p> <p>The successful bidder will furnish a Performance and Payment bond (Bond) equal to 100 percent of the total contract amount within 30 days of the notice of award. Such Bond will be in a form acceptable to the Owner and issued by a surety company included within the Department of Treasury's Listing of Approved Sureties (Department Circular 570) with a minimum A.M. Best Financial Strength Rating of A and Size Category of XV. In the event of a bond issued by a surety of a lesser Size Category, a minimum Financial Strength rating of A+ is required.</p> <p>Bidder and Bidder's surety agree that the Bond issued hereunder, whether expressly stated or not, also includes the surety's guarantee of the vehicle manufacturer's Basic One (1) Year Limited Warranty period included within this proposal. Owner agrees that the penal amount of this bond will be simultaneously amended to 100 percent of the total contract amount upon satisfactory acceptance and delivery of the vehicle(s) included herein. Notwithstanding anything contained within this contract to the contrary, the surety's liability for any warranties of any type will not exceed one (1) year from the date of such satisfactory acceptance and delivery, or the actual Basic One (1) Year Limited Warranty period, whichever is shorter.</p> <p>Due to global supply chain constraints, any delivery date contained herein is a good faith estimate as of the date of this order/contract, and merely an approximation based on current information. Delivery updates will be made available, and a final firm delivery date will be provided as soon as possible.</p> <p>If the Producer Price Index of Components for Manufacturing [www.bls.gov Series ID: WPUID6112] ("PPI") has increased at a compounded annual growth rate of 5.0% or more between the month Pierce accepts the order ("Order Month") and a month 14 months prior to the then predicted Ready For Pickup date ("Evaluation Month"), then pricing may be updated in an amount equal to the increase in PPI over 5.0% for each year or fractional year between the Order Month and the Evaluation Month.</p> <p>The seller will document any such updated price for the customer's approval before proceeding and provide an option to cancel the order.</p>
0000007	Approval Drawing	<p>APPROVAL DRAWING</p> <p>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.</p> <p>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.</p>
0002928	Electrical Diagrams	<p>ELECTRICAL WIRING DIAGRAMS</p> <p>Two (2) electrical wiring diagrams, prepared for the model of chassis and body, will be provided.</p>
0888811	Velocity Chassis, PAP, PUC-NG (Big Block)	<p>VELOCITY CHASSIS</p> <p>The Pierce Velocity® 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 and 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.</p>
0000110	Wheelbase	<p>WHEELBASE</p> <p>The wheelbase of the vehicle will be 260.5.</p>
0000070	GVW Rating	<p>GVW RATING</p> <p>The gross vehicle weight rating will be 84,000.</p>
0000203	Frame Rails, 13.38 x 3.50 x .375, Qtm/AXT/Imp/Vel	<p>FRAME</p> <p>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.</p>
0889469	Frame Liner, "C/Inv L" 12.50" x 3.00" x .25", AXT/Vel/Imp/Enf, 56" QVal	<p>FRAME REINFORCEMENT</p> <p>In addition, a mainframe internal liner will be provided. The liner will be an internal "C" design that steps to an internal "L" design over the rear axle. It will be heat-treated steel measuring 12.50" x 3.00" x 0.25" through the front portion of the liner, stepping to 9.38" x 3.00" x 0.25" through the rear 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 1,494,042 in-lb. Total rbm at wheelbase center will be 4,391,869 in-lb.</p> <p>The frame liner will be mounted inside of the chassis frame rail and extend the full length of the frame.</p>

0508846	Axle, Front, Oshkosh TAK-4, Non Drive, 24,000 lb, Velocity	<p>FRONT NON DRIVE AXLE</p> <p>The Oshkosh TAK-4® front axle will be of the independent suspension design with a ground rating of 24,000 lb.</p> <p>Upper and lower control arms will be used on each side of the axle. Upper control arm castings will be made of 100,000-psi yield strength 8630 steel and the lower control arm casting will be made of 55,000-psi yield ductile iron.</p> <p>The center cross members and side plates will be constructed out of 80,000-psi yield strength steel.</p> <p>Each control arm will be mounted to the center section using elastomer bushings. These rubber bushings will rotate on low friction plain bearings and be lubricated for life. Each bushing will also have a flange end to absorb longitudinal impact loads, reducing noise and vibrations.</p> <p>There will be nine (9) grease fittings supplied, one (1) on each control arm pivot and one (1) on the steering gear extension.</p> <p>The upper control arm will be shorter than the lower arm so that wheel end geometry provides positive camber when deflected below rated load and negative camber above rated load. Camber at load will be 0 degrees for optimum tire life.</p> <p>The ball joint bearing will be of low friction design and be maintenance free.</p> <p>Toe links that are adjustable for alignment of the wheel to the center of the chassis will be provided.</p> <p>The wheel ends must have little to no bump steer when the chassis encounters a hole or obstacle.</p> <p>The steering linkage will provide proper steering angles for the inside and outside wheel, based on the vehicle wheelbase.</p> <p>The axle will have a turning angle of up to 45 degrees.</p>
0090914	Suspension, Front TAK-4, 24,000 lb, Qtm/AXT/Vel/Enf/SFR	<p>FRONT SUSPENSION</p> <p>Front Oshkosh TAK-4™ independent suspension will be provided with a minimum ground rating of 24,000 lb.</p> <p>The independent suspension system has been designed to provide maximum ride comfort. The design will allow the vehicle to travel at highway speeds over improved road surfaces and at moderate speeds over rough terrain with minimal transfer of road shock and vibration to the vehicle's crew compartment.</p> <p>Each wheel will have a torsion bar type spring. In addition, each front wheel end will also have energy absorbing jounce bumpers to prevent bottoming of the suspension.</p> <p>The suspension design will be such that there is at least 10.00" of total wheel travel and a minimum of 3.75" before suspension bottoms.</p> <p>The torsion bar anchor lock system allows for simple lean adjustments, without the use of shims. One can adjust for a lean within 15 minutes per side. Anchor adjustment design is such that it allows for ride height adjustment on each side.</p> <p>The independent suspension was put through a durability test that simulated 140,000 miles of inner city driving.</p>
0087572	Shock Absorbers, KONI, TAK-4, Qtm/AXT/Imp/Vel/Enf	<p>FRONT SHOCK ABSORBERS</p> <p>KONI heavy-duty telescoping shock absorbers will be provided on the front suspension.</p>
0000322	Oil Seals, Front Axle	<p>FRONT OIL SEALS</p> <p>Oil seals with viewing window will be provided on the front axle.</p>
0802640	Tires, Front, Goodyear, Armor Max MSA, 445/65R22.50, 20 ply	<p>FRONT TIRES</p> <p>Front tires will be Goodyear radials 445/65R22.50, 20 ply all-position Armor Max MSA tread, rated for 24,600 lb maximum axle load and 68 mph maximum speed.</p>
0019618	Wheels, Front, Alcoa, 22.50" x 13.00", Aluminum, Hub Pilot	<p>The tires will be mounted on Alcoa 22.50" x 13.00" polished aluminum disc type wheels with a ten (10) stud, 11.25" bolt circle.</p>
0000310	Request for Turning Radius Report	<p>TURNING RADIUS REPORT</p> <p>A turning radius analysis of the custom Pierce chassis that we are proposing will be included with this proposal. This analysis will provide information on the inside turning radius, the outside turning radius, the curb to curb turning radius, and the wall to wall turning radius.</p>
0648166	SP Axle, Rear, Meritor RT58-185, 62,000 lb, Velocity	<p>REAR AXLE</p> <p>The rear axle will be a Meritor™, Model RT58-185, tandem axle assembly with a capacity of 62,000 lb.</p> <p>An inter-axle differential, which divides torque evenly between axles, will be provided on the rear axle with an indicator light mounted on the cab instrument panel.</p>
0544244	Top Speed of Vehicle, 60 MPH/96 KPH	<p>TOP SPEED OF VEHICLE</p> <p>A rear axle ratio will be furnished to allow the vehicle to reach a top speed of 60 mph/96KPH.</p>

0555355	Suspen, Rear, Hendrickson FMX 622 EX, Air Ride, 62,000 lb	<p>REAR SUSPENSION</p> <p>Rear suspension will be a Hendrickson Model FMX 622 EX, air ride with a ground rating of 62,000 lb. The suspension will have the following features:</p> <ul style="list-style-type: none"> Outboard vertical mounted heavy-duty shock absorbers Utilizes track bars and torque rods to restrict lateral axle movement and maintain constant pinion angles Super heavy-duty transverse beam to help reduce axle stress while increasing roll stability or resistance to lean Low spring rate air springs for excellent ride quality Dual height control valves to maintain level vehicle from side to side
0000485	Oil Seals, Rear Axle	<p>REAR OIL SEALS</p> <p>Oil seals will be provided on the rear axle(s).</p>
0627528	Tires, Rear, Goodyear, G751 MSA, 315/80R22.50, LRL, Tandem	<p>REAR TIRES</p> <p>Rear tires will be eight (8) Goodyear 315/80R22.5 radials, load range L, all position G751 tread, rated for 66,160 lb maximum axle load and 68 mph maximum speed.</p>
0890548	Wheels, Rear, Alcoa, 22.50" x 9.00", Aluminum, Hub Pilot, Tandem, 315 GY Tire	<p>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.</p>
0568081	Tire Balancing, Counteract Beads	<p>TIRE BALANCE</p> <p>All tires will be balanced with Counteract balancing beads. The beads will be inserted into the tire and eliminate the need for wheel weights.</p>
0620569	Tire Pressure Monitoring, RealWheels, AirSecure, Valve Cap, Tandem Axle	<p>TIRE PRESSURE MANAGEMENT</p> <p>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 10 tires.</p> <p>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.</p> <p>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.</p>
0801909	Lug Nut, Covers, Chrome	<p>CHROME LUG NUT COVERS</p> <p>Chrome lug nut covers will be supplied on front and rear wheels.</p>
0003245	Axle Hub Covers w/center hole, S/S, Front Axle	<p>FRONT HUB COVERS</p> <p>Stainless steel hub covers will be provided on the front axle. An oil level viewing window will be provided.</p>
0013241	Axle Hub Covers, Rear, S/S High Hat (Tandem)	<p>REAR HUB COVERS</p> <p>Stainless steel, high hat, hub covers will be provided on the rear axle hubs.</p>
0002045	Mud Flap, Front and Rear, Pierce Logo	<p>MUD FLAPS</p> <p>Mud flaps with a Pierce logo will be installed behind the front and rear wheels.</p>
0601010	Chocks, Wheel, SAC-44-E, Folding, Aerials	<p>WHEEL CHOCKS</p> <p>There will be one (1) pair of folding Ziamatic, Model SAC-44-E, aluminum alloy, Quick-Choc wheel blocks, with easy-grip handle provided.</p>
0601009	Mounting Brackets, Chocks, SAC-44-E, Folding, Horizontal, Aerials	<p>Wheel Chock Brackets</p> <p>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 forward of the left side rear tire.</p>

0593759	ESC/ABS/ATC Wabco Brake System, Tandem Rear Axle	<p>ELECTRONIC STABILITY CONTROL A vehicle control system will be provided as an integral part of the ABS brake system from Meritor Wabco.</p> <p>The system will monitor and update the lateral acceleration of the vehicle and compare it to a critical threshold where a side roll event may occur. If the critical threshold is met, the vehicle control system will automatically reduce engine RPM, engage the engine retarder (if equipped), and selectively apply brakes to the individual wheel ends of the front and rear axles to reduce the possibility of a side roll event.</p> <p>The system will monitor directional stability through a lateral accelerometer, steer angle sensor and yaw rate sensor. If spinout or drift out is detected, the vehicle control system will selectively apply brakes to the individual wheel ends of the front and rear axles to bring the vehicle back to its intended direction.</p> <p>ANTI-LOCK BRAKE SYSTEM The vehicle will be equipped with a Wabco 6S6M, anti-lock braking system. The ABS will provide a six (6) 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 wheel begins to lockup, a signal will be sent to the control unit. This control unit will then 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.</p> <p>AUTOMATIC TRACTION CONTROL An anti-slip feature will be included with the ABS. The Automatic Traction Control will be used for traction in poor road and weather conditions. The Automatic Traction Control will act as an electronic differential lock that will not allow a driving wheel to spin, thereby supplying traction at all times. The ABS electronic control unit (ECU) will work with the engine ECU, sharing information concerning wheel slip. Engine ECU will use information to control engine speed, allowing only as much throttle application as required for the available traction, regardless of how much the driver is asking for. An "off road traction" switch will be provided on the instrument panel. Activation of the switch will allow additional tire slip to let the truck climb out and get on top of deep snow or mud.</p>
0030185	Brakes, Knorr/Bendix 17", Disc, Front, TAK-4	<p>BRAKES The service brake system will be full air type. The front brakes will be Knorr/Bendix disc type with a 17.00" ventilated rotor for improved stopping distance. The brake system will be certified, third party inspected, for improved stopping distance.</p>
0000730	Brakes, Meritor, Cam, Rear, 16.50 x 7.00"	The rear brakes will be Meritor™ 16.50" x 7.00" cam operated with automatic slack adjusters. Dust shields will be provided.
0020784	Air Compressor, Brake, Cummins/Wabco 18.7 CFM	<p>BRAKE SYSTEM AIR COMPRESSOR The air compressor will be a Cummins/WABCO with 18.7 cubic feet per minute output.</p>
0000794	Brake Reservoirs, Six	<p>BRAKE SYSTEM The brake system will include: Bendix dual brake treadle valve Heated automatic moisture ejector on air dryer Total air system capacity of 8,108 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, will be provided with an automatic spring brake application at 40 psi A pressure protection valve will be provided 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 valve on each air tank The air tank will be primed and painted to meet a minimum 750 hour salt spray test. The air tanks will be painted black #98. To reduce the effects of corrosion, the air tank will be mounted with stainless steel brackets.</p>
0568012	Air Dryer, Wabco System Saver 1200, Heater, 2010	<p>BRAKE SYSTEM AIR DRYER The air dryer will be WABCO System Saver 1200 with spin-on coalescing filter cartridge and 100 watt heater.</p>
0000790	Brake Lines, Nylon	<p>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.</p>

0000854	Air Inlet, w/Disconnect Coupling	<p>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.</p>
0070810	All Wheel Lockup (Aerial/Tanker Chassis)	<p>ALL WHEEL LOCK-UP An additional all wheel lock-up system will be installed which applies air to the front brakes only. The standard spring brake control valve system will be used for the rear.</p>
0812269	Engine, Cummins X15, 605 hp, 1850 lb-ft, W/OBD, EPA 2027, Velocity, PUC-NG	<p>ENGINE The chassis will be powered by an electronically controlled engine as described below: Make: Cummins® Model: X15 Power: 605 hp at 1700 rpm Torque: 1850 lb-ft at 1150 rpm Governed Speed: 2100 rpm Emissions Level: EPA 2027 Fuel: Diesel Cylinders: Six (6) Displacement: 912 cubic inches (14.9L) Starter: Delco 39MT+™ Fuel Filters: Frame mounted spin-on style filter from Cummins®. 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. The engine will be filled with FA-4 10W30 oil as required by Cummins.</p>
0811409	Not Required, Engine Contingency Adjustment	
0730808	Filters, Remote Mounted, Oil, Fuel, X15, VEL/AXT/Enf	<p>REMOTE MOUNTED ENGINE FILTERS The engine fuel and oil filters will be remote mounted for ease of maintenance.</p>
0001244	High Idle w/Electronic Engine, Custom	<p>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."</p>
0687994	Engine Brake, Jacobs Compression Brake, Cummins Engine	<p>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.</p>
0552334	Clutch, Fan, Air Actuated, Horton Drive Master	<p>CLUTCH FAN A Horton® fan clutch will be provided. The fan clutch will be automatic when the pump transmission is in "Road" position, and fully engaged in "Pump" position.</p>

0123135	Air Intake, w/Ember separator, Imp/Vel	<p>ENGINE AIR INTAKE</p> <p>An air intake with an ember separator (to prevent road dirt, burning embers, and recirculating hot air from entering the engine) will be mounted at the front of the apparatus, on the passenger side of the engine. The ember separator will be mounted in the air intake with flame retardant, rotomolded polyethylene housing. It will be easily accessible by the hinged access panel at the front of the vehicle.</p>
0814375	Exhaust System, Horizontal, Right Side	<p>EXHAUST SYSTEM</p> <p>The exhaust system will be stainless steel from the turbo to the engine's aftertreatment device. The exhaust system will include an aftertreatment device to meet current EPA standards. An insulation wrap will be provided on all exhaust pipe between the turbo and the aftertreatment device to minimize the transfer of heat to the cab.</p> <p>The exhaust will terminate horizontally ahead of the right side rear wheels and will extend 2.00" past the body rub rail. The exhaust pipes will be aluminized steel. There will be an aluminized steel exhaust diffuser with a standard straight tip on the end 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.</p>
0787999	Radiator, Impel/Velocity	<p>RADIATOR</p> <p>The radiator and the complete cooling system will meet or exceed the current edition of applicable NFPA and engine manufacturer cooling system standards.</p> <p>For maximum corrosion resistance and cooling performance, the entire radiator core will be constructed using long life aluminum alloy. The core will be made of aluminum fins, having a serpentine design, brazed to aluminum tubes. The tubes will be brazed to aluminum headers. The radiator core will have a minimum frontal area of 1434 square inches. Supply tank made of glass-reinforced nylon and a return tank of cast aluminum alloy will be crimped on to the core assembly using header tabs and a compression gasket to complete the radiator core assembly. The radiator will be compatible with commercial antifreeze solutions.</p> <p>There will be a full steel frame around the entire radiator core assembly. The radiator core assembly will be isolated within the steel frame by rubber inserts to enhance cooling system durability and reliability. The radiator will be mounted in such a manner as to prevent the development of leaks caused by twisting or straining when the apparatus operates over uneven ground. The radiator assembly will be isolated from the chassis frame rails with rubber isolators. The radiator assembly will include an integral de-aeration tank permanently mounted to the top of the radiator framework, with a readily accessible remote-mounted overflow 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.</p> <p>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.</p> <p>A heavy-duty fan will draw in fresh, cool air through the radiator. Shields or baffles will be provided to prevent recirculation of hot air to the inlet side of the radiator.</p>
0722487	Cooling Hoses, Gates Silicone and Rubber Combination, Velocity	<p>COOLANT LINES</p> <p>Gates® silicone or a combination of silicone and rubber hoses will be used for the radiator and cab heater hoses installed by the chassis manufacturer.</p> <p>The chassis manufacturer will also use Gates® brand hose on other heater and auxiliary coolant circuits. There will be some areas in which an appropriate Gates product is not available. In those instances a comparable silicone hose from another manufacturer will be used.</p> <p>Rubber hoses will be used for the overhead defrost/heater system only in the drain tubes of the cab.</p> <p>Hose clamps will be stainless steel constant torque type to prevent coolant leakage. They will react to temperature changes in the cooling system and expand or contract accordingly while maintaining a constant clamping pressure on the hose.</p>
0674793	Fuel Tank, 65 Gallon, Left Side Fill, Rear Air Suspension, PUC	<p>FUEL TANK</p> <p>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 reduce the effects of corrosion, the fuel tank will be mounted with stainless steel straps.</p> <p>A 0.75" drain plug will be provided in a low point of the tank for drainage.</p> <p>A fill inlet will be located on the left hand side of the body and be covered with a hinged, spring loaded, stainless steel door that is marked "Ultra Low Sulfur - Diesel Fuel Only".</p> <p>A 0.50" diameter vent will be provided running from top of tank to just below fuel fill inlet.</p> <p>The tank will meet all FHWA 393.67 requirements, including a fill capacity of 95 percent of tank volume.</p>
0001128	Lines, Fuel, Wire Braided, Reusable Fittings	<p>All fuel lines will be of the wire braided type. Reusable fittings will be provided.</p>
0618791	DEF Tank, 4.5 Gallon, LS Fill, Forward of Axle, Common Air Bottle Door	<p>DIESEL EXHAUST FLUID TANK</p> <p>A 4.5 gallon diesel exhaust fluid (DEF) tank will be provided and mounted in the left side body forward of the rear axle.</p> <p>A 0.50" drain plug will be provided in a low point of the tank for drainage.</p> <p>A fill inlet will be provided and marked "Diesel Exhaust Fluid Only". The fill inlet will be located below the air bottle storage behind a common door on the left side of the vehicle.</p> <p>The tank will meet the engine manufacturers requirement for 10 percent expansion space in the event of tank freezing.</p> <p>The tank will include an integrated heater unit that utilizes engine coolant to thaw the DEF in the event of freezing.</p>

0723716	Fuel Priming Pump, Electronic, Automatic, Cummins, No Swt Req'd	FUEL PRIMING PUMP A Cummins automatic electronic fuel priming pump will be integrated as part of the engine.
0582243	Shutoff Valves, Fuel Line @ Primary Filter, Cummins	FUEL SHUTOFF A fuel line shutoff valve will be installed on both the inlet and outlet of the primary fuel filter.
0699437	Cooler, Chassis Fuel, Not Req'd.	
0578959	Fuel/Water Separator, Racor Inline	FUEL SEPARATOR The engine will be equipped with a Racor in-line spin-on fuel and water separator in addition to the engine fuel filters.
0887546	Trans, Allison 6th Gen, 4000 EVS P, w/Prognostics, Imp/Vel/SFR/Enf	TRANSMISSION An Allison 6th generation, Model EVS 4000P, electronic, torque converting, automatic transmission will be provided. The transmission will be equipped with prognostics to monitor oil life, filter life, and transmission health. A wrench icon on the shift selector's digital display will indicate when service is due. Two (2) PTO openings will be located on left side and top of converter housing (positions 8 o'clock and 1 o'clock). A transmission temperature gauge with an amber light and buzzer will be installed on the cab instrument panel.
0625331	Transmission, Shifter, 6-Spd, Push Button, 4000 EVS	TRANSMISSION SHIFTER A six (6)-speed push button shift module will be mounted to right of driver on console. Shift position indicator will be indirectly lit for after dark operation. The transmission ratio will be: 1st 3.51 to 1.00 2nd 1.91 to 1.00 3rd 1.43 to 1.00 4th 1.00 to 1.00 5th 0.75 to 1.00 6th 0.64 to 1.00 R 4.80 to 1.00
0517604	Transmission Programming, Park to Neutral, PUC	TRANSMISSION PROGRAMMING The transmission will be programmed to automatically shift the transmission to neutral when the parking brake is set to simplify operation and increase operational safety.
0684459	Transmission Oil Cooler, Modine, External	TRANSMISSION COOLER A Modine plate and fin transmission oil cooler will be provided using engine coolant to control the transmission oil temperature.
0001375	Driveline, Spicer 1810	DRIVELINE Drivelines will be a heavy-duty metal tube and be equipped with Spicer® 1810 universal joints. The shafts will be dynamically balanced before installation. A splined slip joint will be provided in each driveshaft where the driveline design requires it. The slip joint will be coated with Glidecoat® or equivalent.
0669988	Steering, Sheppard M110 w/Tilt, TAK-4, Eaton Pump, w/Cooler	STEERING Dual Sheppard, Model M110, steering gears, with integral heavy-duty power steering, will be provided. For reduced system temperatures, the power steering will incorporate an air to oil cooler and an Eaton, Model VN20, hydraulic pump with integral pressure and flow control. All power steering lines will have wire braded lines with crimped fittings. A tilt and telescopic steering column will be provided to improve fit for a broader range of driver configurations.
0001544	Not Required, Steering Assist Cylinder on Front Axle	

0509230	Steering Wheel, 4 Spoke without Controls	<p>STEERING WHEEL The steering wheel will be 18.00" in diameter, have tilting and telescoping capabilities, and a 4-spoke design.</p>
0690274	Logo/Emblem, on Dash	<p>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: Superstition The second row of text will be: Fire The third row of text will be: Medical</p>
0123625	Bumper, 19" Extended, S/S, Polished, Imp/Vel	<p>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.</p>
0616492	Tray, Hose, Center, 19" Bumper, Outside Air Horns, Imp/Vel	<p>CENTER HOSE TRAY A hose tray, constructed of aluminum, will be placed in the center of the bumper extension. The tray will have a capacity of 150' of 1.75" double jacket cotton-polyester hose. Black rubber grating will be provided at the bottom of the tray. Drain holes are also provided.</p>
0633479	Hose Restraint, Bumper Tray, Velcro Straps, Pair	<p>Center Hose Tray Restraint There will be one (1) pair of hose tray restraint straps located over the center mounted tray. The restraints will be a pair of 2.00" wide black nylon straps with Velcro® fasteners provided. The strap(s) will be used to secure the hose in the tray.</p>
0510226	Lift & Tow Package, Imp/Vel, AXT	<p>LIFT AND TOW MOUNTS Mounted to the frame extension will be lift and tow mounts. The lift and tow mounts will be designed and positioned to adapt to certain tow truck lift systems. The lift and tow mounts with eyes will be painted the same color as the frame.</p>
0522573	Tow Hooks Not Required, Due to Lift and Tow Package	<p>TOW HOOKS No tow hooks are to be provided. This truck will be equipped with a lift and tow package with integral tow eyes.</p>

CAB

The Velocity cab will be designed specifically for the fire service and will be manufactured by Pierce Manufacturing.

To provide quality at the source and single source customer support, 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 of 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 0.25" heavy wall extrusions joined by a solid A356-T6 aluminum joint casting. The B-pillar and C-pillar will also be constructed from 0.25" heavy wall extrusions. The rear wall will be constructed of two (2) 4.00" x 2.00" outer aluminum extrusions and two (2) 3.00" x 2.00" inner aluminum extrusions. All main vertical structural members will run from the floor to 7.50" x 3.50" x 0.125" thick roof extrusions to provide a cage-like structure with the A-pillar and roof extrusions being welded into a 0.75" thick corner casting at each of the front corners of the roof assembly.

The front of the cab will be constructed of a 0.25" thick firewall, covered with a 0.125" front skin (for a total thickness of 0.38"), and reinforced with 24.50" wide x 10.00" deep x 0.50" thick supports on each side of the engine tunnel. The cross-cab support will be welded to the A-pillar, 0.25" firewall, and engine tunnel, on the left and right sides.

The cab floors will be constructed of 0.1875" thick aluminum plate and reinforced at the firewall with an additional 0.25" thick cross-floor support providing a total thickness of 0.44" of structural material at the front floor area. The front floor area will also be supported with three (3) 0.50" plates bolted together that also provides the mounting point for the cab lift. This tubing will run from the front of the cab to the 0.1875" thick engine tunnel, creating the structure to support the forces created when lifting the cab.

The cab will be a full-tilt style. A 3-point cab mount system with rubber isolators will improve ride quality by isolating chassis vibrations from the cab.

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 centerline of front axle to the rear of the cab will be 70.00" long.

The overall height (from the cab roof to the ground) will be approximately 102.00". The overall height listed will be calculated based on a truck configuration with the lowest suspension weight ratings, 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 cab will have an interior width of not less than 93.50". The driver and passenger seating positions will have a minimum 24.00" clear width at knee level.

To reduce injuries to occupants in the seated positions, proper head clearance will be provided.

The floor-to-ceiling height inside the forward cab will be no less than 60.25". The floor-to-ceiling height inside the crew cab will be no less than 52.95" in the center position and 58.75" in the outboard positions.

The crew cab will measure a minimum of 57.50" from the rear wall to the backside of the engine tunnel (knee level) for optimal occupant legroom.

CAB PUMP ENCLOSURE

The rear of the cab will be made to house the fire pump below the forward facing crew cab seats.

The cab side panels will be notched to accommodate the pump panel.

FENDER LINERS

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

PANORAMIC WINDSHIELD

A one (1)-piece, safety glass windshield with more than 2,802 square inches of clear viewing area will be provided. The windshield will be full width and will provide the occupants with a panoramic view. The windshield will consist of three (3) layers: the outer light, the middle safety laminate, and the inner light. The 0.114" thick 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 a washer, in conformance with FMVSS and SAE requirements, will be provided. The wiper blades will be 21.65" long and together will clear a minimum of 1,783 square inches of the windshield for maximum visibility in inclement weather.

The windshield washer fluid reservoir will be located at the front of the vehicle and be accessible through the access hood for simple maintenance.

FAST SERVICE ACCESS FRONT TILT HOOD

A full-width access hood will be provided for convenient access to engine coolant, steering fluid, wiper fluid, cab lift controls, headlight power modules, and ember separator. The hood will also provide complete access to the windshield wiper motor and components. The hood will be contoured to provide a sleek, automotive appearance. The hood will be constructed of two (2) fiberglass panels bonded together and will include reinforcing ribs for structural integrity. The hood will include air cylinders to hold the hood in open and closed positions, and a heavy duty latch system that will meet FMVSS 113 (Hood Latch System). The spring-loaded hood latch will be located at the center of the hood with a double-action release lever located behind the Pierce logo. The two (2)-step release requires the lever first be pulled to the driver side until the hood releases from the first latch (primary latch) then to the passenger side to fully release the hood (secondary latch).

0724207	Engine Tunnel, X12-15, MX13, Foil Insulation w/Mech Fasteners, Velocity FR	<p>ENGINE TUNNEL To provide structural strength, the engine tunnel sidewalls will be constructed of 0.50" aluminum plate that is welded to both the 0.25" firewall and 0.38" heavy wall extrusion under the crew cab floor. To maximize occupant space, the top edges will be tapered. The engine tunnel will be insulated for protection from heat and sound. Perforated foil faced insulation will be over a 1.00" thick closed cell foam affixed with pressure sensitive adhesive and further secured with mechanical fasteners. Thermal rating for this insulation will be -40 degrees Fahrenheit to 300 degrees Fahrenheit. The noise insulation keeps the dBA level within the limits stated in the current edition of applicable NFPA standards.</p>
0818272	Cab Insulation, Extreme Climate, Foil Insulation, Impel/Veloccity	<p>INSULATION PACKAGE All insulation utilized in the cab construction will be provided for extreme climate temperatures. The insulation will be provided in the following areas: Engine tunnel Cab and crew cab floors Cab and crew cab step wells Cab and crew cab doors Cab roof Cab and crew cab walls</p>
0677478	Rear Wall, Exterior, Cab, Aluminum Treadplate	<p>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.</p>
0122466	Cab Lift, Elec/Hyd, w/Manual Override, Imp/Vel	<p>CAB LIFT A hydraulic cab lift system will be provided, consisting of an electric-powered hydraulic pump, fluid reservoir, dual lift cylinders, remote cab lift controls and all necessary hoses and valves. The hydraulic pump will have a backup manual override, for use in the event of an electrical failure. The cab lift controls will be located at the driver side front of the cab, easily accessible under the full width front access hood. The controls will include a permanently mounted raise/lower switch. For enhanced visibility during cab tilt operations, a remote control tether with on/off switch will be supplied on a coiled cord that will extend from 2.00' (coiled) to 6.00' (extended). The cab will be capable of tilting 42 degrees and 80 degrees with crane assist to accommodate engine maintenance and removal. The cab pivots will be located 46.00" apart to provide stability while tilting the cab. The rear of the cab will be locked down by a two (2)-point, automatic, hydraulic, double hook mechanism that fully engages after the cab has been lowered (self-locking). The dual 2.25" diameter hydraulic cylinders will be equipped with a velocity fuse that protects the cab from accidentally descending when the cab is in the tilt position. For increased safety, a redundant mechanical stay arm will be provided that must be manually put in place on the driver side between the chassis and cab frame when 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 safety 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.</p>
0123176	Grille, Bright Finished, Front of Cab, Velocity	<p>GRILLE A bright finished aluminum mesh grille screen, inserted behind a formed bright finished grille surround, will be provided on the front center of the cab, and will serve as an air intake to the radiator.</p>
0002224	Scuffplates, S/S At Cab Door Jambs, 4-Door Cab	<p>DOOR JAMB SCUFFPLATES All cab door jambs will be furnished with a 1.00" polished stainless steel scuffplate, mounted on the striker side of the jamb.</p>
0527032	Trim, S/S Band, Across Cab Face, Rect Lights, Velocity	<p>FRONT CAB TRIM A band of 22 gauge polished stainless steel trim will be installed across the front of the cab, from door hinge to door hinge. The trim band will be centered on the head lights and applied with two (2)-sided tape. A 0.625" self adhesive trim strip will be applied around the perimeter of the trim band. There will be polished stainless steel corner covers provided over the painted cab corner where the cab turn signals are located.</p>
0087357	Molding, Chrome on Side of Cab	<p>SIDE OF CAB MOLDING Chrome molding will be provided on both sides of cab.</p>

0775379	SP	Mirrors, Ramco, 8015FFHR-750HR DS, 8001 PS, Bolt-on Convx,All Htd/Rmt,Cab Mnt,Vel	<p>MIRRORS Ramco, Model 8015FFHR-750HR, polished aluminum 9.25" wide x 13.50" high mirror, with full flat glass section and 15.00" mounting arm, will be mounted on the driver side of the front cab corner. Ramco, Model 8001FFHR-750HR, polished aluminum 9.25" wide x 13.50" high mirror, with full flat glass section, will be mounted on the passenger side of the front cab corner. A convex section will be bolted to the top of each mirror. The flat glass in each mirror will be heated and adjustable with remote controls that are convenient to the driver. The convex section in each mirror will be heated and adjustable with remote controls. There will be a pair of 6.00" risers, one for each mirror, mounted between the mirror body and mirror arm.</p>
0680149		Riser, Ramco Mirror, 6.00", Pair	A 6.00" riser will be provided between the mirror body and support arm on each side.
0651313		Door, Half-Height, Velocity FR 4-Door Cab, Level Roof	<p>CAB DOORS The forward cab and crew cab doors will be the half-height style door. To enhance entry and egress to the cab, the forward cab doors will be a minimum of 43.59" wide x 64.71" high. The crew cab doors will measure a minimum of 37.87" wide x 64.71" high. The forward cab and crew cab doors will be constructed of extruded aluminum with a nominal material thickness of 0.125". The exterior door skins will be constructed from 0.090" aluminum. The forward cab door windows will include a 7.50" high x 10.00" wide drop area at the front to enhance visibility. A customized, vertical, pull-down type door handle will be provided on the exterior of each cab door. The finish of the door handle will 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 and crew cab door. A red webbed grab handle will be installed on the crew cab door stop strap. The grab handles will be securely mounted. The cab steps at each cab door location will be located below the cab doors and will be exposed to the exterior of the cab.</p>
0655511		Door Panel, Brushed Stainless Steel, Impel/Velocity 4-Door Cab	<p>Door Panels The inner cab door panels will be constructed out of brushed stainless steel. The cab door panels will be removable.</p>
0667905		Storage Pockets w/ Elastic Cover, Recessed, Overhead, Impel/Velocity FR	<p>RECESSED POCKET WITH ELASTIC COVER To provide organized storage (clutter control) in the cab for miscellaneous equipment, the cab interior will be provided with recessed storage pockets. The pockets will be 5.63" wide x 2.00" high x 4.00" deep. The pockets will be provided with a perforated elastic material cover to secure the equipment in the pocket. The pockets will be installed in all available mounting locations of the overhead console.</p>
0667902		Controls, Electric Windows, All Cab Doors, Impel/Velocity FR	<p>ELECTRIC WINDOW CONTROLS Each cab entry door will be equipped with an electrically operated tempered glass window. A window control panel will be located on the door panel within easy reach of the respective occupant. Each switch will allow intermittent or auto down operation for ease of use. Auto down operation will be actuated by holding the window down switch for approximately 1 second. The driver control panel will contain a control switch for each cab door's window. All other door control panels will contain a single switch to operate the window within that door. The window switches will be connected directly to the battery power. This allows the windows to be raised and lowered when the battery switch is in the off position.</p>
0746365	SP	Steps, 4-Door Cab, Dual, 2" Shorter Bottom Spacing, Imp/Vel	<p>DUAL STEPS A dual step will be provided below each cab and crew cab door. The steps will be designed with a grip pattern punched into bright aluminum treadplate material providing support, slip resistance, and drainage. The steps will be a bolt-on design and provide a 24.00" wide x 7.00" deep stepping surface. The step design raises the middle step higher and closer to the cab floor, resulting in a 12.00" distance from the step to cab floor in the cab and a 13.50" distance from the step to cab floor in the crew cab. Stepping distances from the ground to first step will be 19.50" and from first step to middle step will be 10.00". The first step will be lit by a white 12 volt DC LED light provided on the step.</p>

0770194	Handrail, Exterior, Knurled, Alum, 4-Door Cab	<p>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.</p>
0892637	Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 1Lt Per Step	<p>STEP LIGHTS There will be four (4) white P25 LED step lights provided. The lights will be installed at each cab and crew cab door, one (1) per step. The lights will be located in the driver side front doorstep, driver side crew cab doorstep, passenger side front doorstep and passenger side crew cab doorstep. 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. The light(s) will have a chrome housing. The lights will be activated when the adjacent door is opened.</p>
0002140	Fenders, S/S on Cab	<p>FENDER CROWNS Stainless steel fender crowns will be installed at the cab wheel openings.</p>
0199227	Window, Side of C/C, Fixed, PS Only, Imp/Vel	<p>CREW CAB WINDOWS One (1) fixed window will be provided on the passenger side of the cab, to the rear of the front cab door. The window will be sized to enhance light penetration into the cab interior. The passenger side window will measure 20.00" wide x 20.50" high. There will not be a window provided on the driver side of the cab.</p>
0552936	Trim, Cab Side Window, PS, Velocity	<p>WINDOW INTERIOR TRIM For improved aesthetics, the passenger side cab window will include a vacuum formed ABS interior trim panel.</p>
0509286	Not Required, Windows Rear of Crew Cab, Imp/Vel	
0558334	Not Required, Trim, Cab Rear Windows, No Rear Windows	
0663375	Mounting Provisions, 1/4" Alum, Full Engine Tunnel, Vel/Imp	<p>MOUNTING PLATE ON ENGINE TUNNEL Equipment installation provisions will be installed on the engine tunnel. A 0.25" smooth aluminum plate will be bolted to the top surface of the engine tunnel. The plate will be located to the left of the officer and on the rear of the tunnel. It 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 1.00" to allow for wire routing below the plate. The mounting surface will be painted to match the cab interior.</p>
0653790	Motion Device Only, Havis, C-MD-301 Slide Rail for Computer Docking Station	<p>DOCKING STATION MOTION DEVICE A Havis, Model C-MD-301 slide rail motion device with lock for computer docking station (not included) will be provided on a flat, horizontal surface located Mounted center of officers side recessed dash area. Same as 38899. Picture in Stage 7 job folder.</p>

0748671	Cab Interior, Vinyl, Velocity FR, CARE	<p>CAB INTERIOR</p> <p>With safety as the primary objective, the wrap-around style cab instrument panel will be designed with unobstructed visibility to instrumentation. The dash layout will provide the driver with a quick reference to gauges that allows more time to focus on the road.</p> <p>The center console will be a high impact ABS polymer and will be easily removable.</p> <p>The passenger side dashboard will be constructed of painted aluminum for durability and low maintenance. For enhanced versatility, the passenger side dash will include a flat working surface.</p> <p>To provide optional (service friendly) control panels, switches and storage modules, a painted aluminum overhead console will also be provided.</p> <p>To complete the cab front interior design, painted aluminum modesty panels will be provided under the dash on both sides of the cab. The driver side modesty panel will provide mounting for the battery switch and diagnostic connectors, while the passenger side modesty panel provides a glove box, and ground access to the main electrical distribution panel via quick quarter turn fasteners.</p> <p>To provide a deluxe automotive interior, the engine tunnel, side walls and rear wall will be covered by a leather grain vinyl that is resistant to oil, grease, and mildew.</p> <p>The headliner will be installed in both forward and rear cab sections. The headliner panel will be a composition of an aluminum panel covered with a sound barrier and upholstery.</p> <p>The cab structure will include designated raceways for electrical harness routing from the front of the cab to the rear upper portion of the cab. Raceways will be extruded in the forward door frame, floor, walls and overhead in the area where the walls meet the ceiling. The raceways located in the floor will be covered by aluminum extrusion, while the vertical and overhead raceways will be covered by painted aluminum covers. The raceways will improve harness integrity by providing a continuous harness path that eliminates wire chafing and abrasion associated with exposed wiring or routing through drilled metal holes. Harnesses will be laid in place.</p> <p>CAB INTERIOR UPHOLSTERY</p> <p>The cab interior upholstery will be 36 oz dark silver gray vinyl. All cab interior materials will meet FMVSS 302 (flammability of interior materials).</p>
0667943	Cab Interior, Paint Color, Impel/Velocity FR	<p>CAB INTERIOR PAINT</p> <p>The following metal surfaces will be painted black, vinyl textured paint:</p> <ul style="list-style-type: none"> Modesty panel in front of driver Vertical surface of dash in front of the officer (not applicable for recessed dash) Glove box in front of the officer (if applicable) Power distribution in front of the officer Rear heater vent panels <p>The remaining cab interior metal surfaces will be painted fire smoke gray, vinyl texture paint.</p>
0509532	Floor, Rubber Padded Cab & Crew Cab, Imp/Vel	<p>CAB FLOOR</p> <p>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.</p> <p>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.</p>

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 **no auxiliary heater provided in the rear facing seat risers.**

Air Conditioning

A 19.10 cubic inch compressor will be installed on the engine.

A roof-mounted condenser with a 78,000 BTU output at 2,400 SCFM that meets and exceeds the performance specification will be installed on the cab roof. The condenser **cover to be painted #10 white.**

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 evaporator unit will have a 80,000 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 evaporator cover per the following:

14 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.

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.

The drain tubes will terminate under the cab, on the inboard side of the front wheelwells.

0745178

A/C Unit, Danhard, 120 Volt AC,
13500 BTU, Location, Painted Cover,
Pwr Fet PUC

AUXILIARY AIR CONDITIONER

A Danhard, Inc, Model 70-2030, 120 volt AC air conditioning system will be provided in the crew cab. The air conditioning evaporator will be rated at 13,500 BTU. The system will be powered through the **shoreline inlet.** The evaporator and control unit will be located within an enclosure inside the crew cab **on top of the forward facing left side cabinet.** The condenser and compressor will be located on the crew cab roof and enclosed with an aluminum cover, painted **job color.**

0639675

Sun Visor, Smoked Lexan, AXT,
Imp/Vel, SFR/Enf

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 **no retention bracket** provided to help secure each sun visor in the stowed position.

0543257

Grab Handles, Driver Door Post &
Passenger Dash Panel, Imp/Vel

GRAB HANDLE

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

A long rubber grab handle will be mounted on the dash board in front of the officer.

0583938

Lights, Engine Compt, Custom, Auto
Sw, WIn 3SC0CDCR, 3" LED, Trim

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.

0122516	Fluid Check Access, Imp/Vel	<p>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 door will be flush with the wall of the engine tunnel. The engine oil dipstick will allow for checking only. The transmission dipstick will allow for both checking and filling. An additional port will be provided for filling the engine oil. The door will have a rubber seal for thermal and acoustic insulation. One (1) flush lift and turn latch will be provided on the access door.</p>
0621454	SP Map Box, Open Back, Top Tray, iPad Slots	<p>MAP BOX There will be a map box provided. The map box will be located centered between rear forward facing seats, see photo in Stage 7 Job E-Folder of previous 35111. The map box will be 22.00" wide x 8.00" high x 14.00" deep at the bottom. The back of the compartment will be open with a 1.00" retaining lip at the bottom. The clear opening will be approximately 21.75" wide x 6.00" high. The rear face will taper back at a 15 degree angle above the 1.00" bottom lip. The top of the box will be provided with a 1.00" lip around the entire top surface. There will be storage for an iPad and an iPad mini on each side of the box. There will be two (2) slots provided toward the front of the box with openings at the top. The inside bin for the iPad will be 8.00" wide x 8.00" high x 1.25" deep. The outside bin will be 6.75" wide x 6.00" high x 1.25" deep. Both bins will be flush at the bottom and the outside bin centered side to side on the inside bin. The map box will be constructed of .125" aluminum and will be painted to match the cab interior.</p>
0583042	Side Roll and Frontal Impact Protection	<p>CAB SAFETY SYSTEM The cab will be provided with a safety system designed to protect occupants in the event of a side roll or frontal impact, and will include the following: A supplemental restraint system (SRS) sensor will be installed on a structural cab member behind the instrument panel. The SRS sensor will perform real time diagnostics of all critical subsystems and will record sensory inputs immediately before and during a side roll or frontal impact event. A slave SRS sensor will be installed in the cab to provide capacity for eight (8) crew cab seating positions. A fault-indicating light will be provided on the vehicle's instrument panel allowing the driver to monitor the operational status of the SRS system. A driver side front air bag will be mounted in the steering wheel and will be designed to protect the head and upper torso of the occupant, when used in combination with the 3-point seat belt. A passenger side knee bolster air bag will be mounted in the modesty panel below the dash panel and will be designed to protect the legs of the occupant, when used in combination with the 3-point seat belt. Air curtains will be provided in the outboard bolster of outboard seat backs to provide a cushion between occupant and the cab wall. Suspension seats will be provided with devices to retract them to the lowest travel position during a side roll or frontal impact event. Seat belts will be provided with pre-tensioners to remove slack from the seat belt during a side roll or frontal impact event.</p> <p>Frontal Impact Protection The SRS system will provide protection during a frontal or oblique impact event. The system will activate when the vehicle decelerates at a predetermined G force known to cause injury to the occupants. The cab and chassis will have been subjected, via third party test facility, to a crash impact during frontal and oblique impact testing. Testing included all major chassis and cab components such as mounting straps for fuel and air tanks, suspension mounts, front suspension components, rear suspensions components, frame rail cross members, engine and transmission and their mounts, pump house and mounts, frame extensions and body mounts. The testing provided configuration specific information used to optimize the timing for firing the safety restraint system. The sensor will activate the pyrotechnic devices when the correct crash algorithm, wave form, is detected. The SRS system will deploy the following components in the event of a frontal or oblique impact event: Driver side front air bag Passenger side knee bolster air bag Air curtains mounted in the outboard bolster of outboard seat backs Suspension seats will be retracted to the lowest travel position Seat belts will be pre-tensioned to firmly hold the occupant in place</p> <p>Side Roll Protection The SRS system will provide protection during a fast or slow 90 degree roll to the side, in which the vehicle comes to rest on its side. The system will analyze the vehicle's angle and rate of roll to determine the optimal activation of the advanced occupant restraints. The SRS system will deploy the following components in the event of a side roll: Air curtains mounted in the outboard bolster of outboard seat backs Suspension seats will be retracted to the lowest travel position Seat belts will be pre-tensioned to firmly hold the occupant in place</p>
0622618	Seating Capacity, 5 Belted Seats	<p>SEATING CAPACITY The seating capacity of the vehicle (including tiller cab and belted seat positions in the rescue body) will be five (5).</p>

0697005 Seat, Driver, Pierce PS6, Premium, Air Ride, High Back, Safety, PRIMARY

DRIVER SEAT
 A Pierce PS6® seat will be provided in the cab for the driver. The seat design will be a cam action type with air suspension. For increased convenience, the seat will include electric controls to adjust the rake (15 degrees), height (1.75" travel) and horizontal (7.00" travel) position. Electric controls will be located below the forward part of the seat cushion. To provide flexibility for multiple driver configurations, the seat will have a reclining back, adjustable from 20 degrees back to 45 degrees forward. Providing for maximum comfort, the seat back will be a high back style with manual lumbar adjustment lever, for lower back support, and will include minimum 7.50" deep side bolster pads for maximum support. The lumbar adjustment lever will be easily located at the lower outboard position of the seat cushion. For optimal comfort, the seat will be provided with 17.00" deep dual density foam cushions designed with EVC (elastomeric vibration control).
 The seat will include the following features incorporated into the side roll protection system: Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
 A suspension seat safety system will be included. When activated in the event of a side roll, this system will pretension the seat belt and retract the seat to its lowest travel position.
 The seat will be furnished with a 3-point, shoulder type seat belt. The seat belt will be furnished with dual automatic retractors that will provide ease of operation in the normal seating position.

0696994 Seat, Officer, Pierce PS6, Premium, Air Ride, SCBA, Safety, PRIMARY

OFFICER SEAT
 A Pierce PS6® seat will be provided in the cab for the passenger. The seat will be a cam action type with air suspension. For increased convenience, the seat will include a manual control to adjust the horizontal position (6.00" travel). The manual horizontal control will be a towel-bar style located below the forward part of the seat cushion. For optimal comfort, the seat will be provided with 17.00" deep dual density foam cushions designed with EVC (elastomeric vibration control). To ensure safe operation, the seat 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 belted.
 The seat back will be an SCBA back style with 7.5 degree fixed recline angle, and will include minimum 4.50" wide x 7.50" deep side bolster pads for maximum support. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.
 The seat will include the following features incorporated into the side roll protection system: Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.
 A suspension seat safety system will be included. When activated, this system will pretension the seat belt and then retract the seat to its lowest travel position.
 The seat will be furnished with a 3-point, shoulder type seat belt. The seat belt will be furnished with dual automatic retractors that will provide ease of operation in the normal seating position.

0002517 Not Required, Radio Compartment

0771857 Cabinet, Rear Facing, LS, 21 W x 40.5 H x 30.5 D, Roll, Imp/Vel

REAR FACING LEFT SIDE CABINET
 A rear facing cabinet will be provided in the crew cab at the left side outboard position. The cabinet will be 21.00" wide x 40.50" high x 30.50" deep with **one (1) Amdor rollup door with anodized finish, locking with #1250 key**. The frame to frame opening will be 18.50" wide x 35.25" high. The minimum clear door opening will be 15.75" wide x 29.37" high.
 The cabinet will include **one (1) infinitely adjustable shelf with a 0.75" flanged down lippainted to match the cab interior**.
 The cabinet will include **no louvers**.
 The cabinet will be constructed of smooth aluminum, and painted to match the cab interior.
Cabinet Light
 There will be **one (1) Amdor H2O LED strip light installed on the left side of the interior cabinet door opening**. The lights will be controlled by an automatic door switch.



0102783 Not Required, Seat, Rr Facing C/C, Center

0122186	Seat, Rr Fcng C/C, RS Otbrd, Pierce PS6, Premium, SCBA, Safety, PRIMARY	<p>REAR FACING PASSENGER SIDE OUTBOARD SEAT</p> <p>There will be one (1) rear facing, Pierce PS6® seat provided at the passenger side outboard position in the crew cab. For optimal comfort, the seat will be provided with 17.00" deep dual density foam cushions designed with EVC (elastomeric vibration control). To ensure safe operation, the seat 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. The seat back will be an SCBA back style with 7.5 degree fixed recline angle, and will include minimum 4.50" wide x 7.50" deep side bolster pads for maximum support. The SCBA cavity will be adjustable from front to rear in 1.00" increments to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location. The seat will include the following features incorporated into the side roll protection system: Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position. A seat safety system will be included. When activated, this system will pretension the seat belt and firmly hold the occupant in the event of a side roll. The seat will be furnished with a 3-point, shoulder type seat belt. The seat belt will be furnished with dual automatic retractors that will provide ease of operation in the normal seating position.</p>
0108189	Not Required, Seat, Forward Facing C/C, LS Outboard	
0821019	Seat, Fwd Fcng C/C, Ctr, (2) Pierce PS6, Premium, SCBA, Safety, PRIMARY	<p>FORWARD FACING CENTER SEATS</p> <p>There will be two (2) forward facing, Pierce PS6®, seats provided at the center position in the crew cab. For optimal comfort, the seats will be provided with 17.00" deep dual density foam cushions designed with EVC (elastomeric vibration control). 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. The seat backs will be an SCBA back style with 97.50 degree fixed recline angle, and will include minimum 4.50" wide x 7.50" deep side bolster pads for maximum support. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location. The seats will include the following feature incorporated into the side roll protection system: A seat safety system will be included. When activated, this system will pretension the seat belts around the occupants to firmly hold them in place in the event of a side roll. The seats will be furnished with 3-point, shoulder type seat belts. The seat belts will be furnished with dual automatic retractors that will provide ease of operation in the normal seating position.</p>
0108190	Not Required, Seat, Forward Facing C/C, RS Outboard	
0766467	Upholstery, Seats In Cab, All Vinyl, Seats Inc, CARE	<p>SEAT UPHOLSTERY</p> <p>All seat upholstery will be leather grain 36 oz dark silver gray vinyl resistant to oil, grease and mildew. The cab and tiller cab (if applicable) will have five (5) seating positions.</p>
0543991	Bracket, Air Bottle, Hands-Free II, Cab Seats	<p>AIR BOTTLE HOLDERS</p> <p>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.</p>
0603867	Seat Belt, ReadyReach	<p>SEAT BELTS</p> <p>All seating positions in the cab, crew cab and tiller cab (if applicable) 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 applicable NFPA and CAN/ULC - S515 standards. The 3-point shoulder type seat 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.</p>
0604863	Seat Belt Height Adjustment, 6 Seats, Imp/Vel	<p>SHOULDER HARNESS HEIGHT ADJUSTMENT</p> <p>All seating positions furnished with 3-point shoulder type seat belts will include a height adjustment. This adjustment will optimize the belts effectiveness and comfort for the seated firefighter. A total of six (6) seating positions will have the adjustable shoulder harness.</p>
0817557	Helmet Storage, Provided by Fire Department, NFPA/ULC 2024	<p>HELMET STORAGE PROVIDED BY FIRE DEPARTMENT</p> <p>NFPA 1900, 2024 edition, section 11.1.8.4.1 and CAN/ULC 515:2024 edition, section 5.2, 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.</p>

0647647	Lights, Dome, FRP Dual LED 4 Lts	<p>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. All dome lights on the apparatus will be illuminated per the current edition of applicable NFPA standards per seating position.</p>
0896451	Enhanced Software for Cab and Crew Cab Dome Lts	<p>ENHANCED SOFTWARE FOR CAB AND CREW CAB DOME LIGHTS The cab and crew cab dome lights will remain on for 10 seconds for improved visibility after the doors are closed. The dome lights will dim after 10 seconds or immediately if the vehicle's transmission is put into gear.</p>
0631776	Not Required, Overhead Map Lights	
0727913	Spotlight, Golight/RadioRay, Model 20**4GT, LED, 2 Lts	<p>CAB SPOTLIGHT There will be two (2) Golight, Model 20**4GT, white LED spotlights located on the cab roof, Driver and Passenger side Behind the light bar. The spotlights will be mounted on painted Z brackets. These lights may be load managed when the parking brake is applied.</p>
0650030	Controller, Spotlight, Golight, Wired Dash Mt, 2 Lts	<p>Spotlight Controller There will be one (1) wired dash mounted remote provided for each spotlight.</p>
0649967	Location, Spotlight Controller, Driver and Officer, 2 Lts	<p>Spotlight Controller Locations The remotes to control the spotlights will be located one (1) within reach of the driver and one (1) within reach of the officer.</p>
0816997	Portable Hand Light, Provided by Fire Dept, NFPA/ULC 2024	<p>PORTABLE HAND LIGHTS PROVIDED BY FIRE DEPARTMENT The hand lights are not on the apparatus as manufactured. The fire department will provide and mount these hand lights.</p>
0568369	Cab Instruments, Ivory Gauges, Chrome Bezels, Impel/Veloccity 2010	<p>CAB INSTRUMENTATION The cab instrument panel will consist of gauges, an LCD display, telltale indicator lights, alarms, control switches, and a diagnostic panel. The function of 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 directly forward of the driver. Gauge and switch panels will be designed to be removable for ease of service and low cost of ownership.</p> <p>Gauges The gauge panel will include the following ten (10) ivory gauges with chrome bezels to monitor vehicle performance:</p> <ul style="list-style-type: none"> Voltmeter gauge (Volts) Low volts (11.8 VDC) Amber indicator on gauge assembly with alarm High volts (15 VDC) Amber indicator on gauge assembly with alarm Very low volts (11.3 VDC) Amber indicator on gauge assembly with alarm Very high volts (16 VDC) Amber indicator on gauge assembly with alarm Tachometer (RPM) Speedometer (Primary (outside) MPH, Secondary (inside) Km/H) Fuel level gauge (Empty - Full in fractions) Low fuel (1/8 full) Amber indicator on gauge assembly with alarm Very low fuel (1/32) fuel Amber indicator on gauge assembly with alarm Engine oil pressure gauge (PSI) Low oil pressure to activate engine warning lights and alarms Red indicator on gauge assembly with alarm Front air pressure gauge (PSI) Low air pressure to activate warning lights and alarm Red indicator on gauge assembly with alarm Rear air pressure gauge (PSI) Low air pressure to activate warning lights and alarm Red indicator on gauge assembly with alarm Transmission oil temperature gauge (Fahrenheit) High transmission oil temperature activates warning lights and alarm Amber indicator on gauge assembly with alarm Engine coolant temperature gauge (Fahrenheit)

High engine temperature activates an engine warning light and alarm

Red indicator on gauge assembly with alarm

Diesel Exhaust Fluid Level Gauge (Empty - Full in fractions)

Low fluid (1/8 full)

Amber indicator on gauge assembly with alarm

All gauges and gauge indicators will perform prove out at initial power-up to ensure proper performance.

Indicator Lamps

To promote safety, the following telltale indicator lamps will be integral to the gauge assembly and are located above and below the center gauges. 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)

Aux brake overheat (Auxiliary brake overheat)

Air rest (air restriction)

Caution (triangle symbol)

Water in fuel

DPF (engine diesel particulate filter regeneration)

Trailer ABS (where applicable)

Wait to start (where applicable)

HET (engine high exhaust temperature) (where applicable)

ABS (antilock brake system)

MIL (engine emissions system malfunction indicator lamp) (where applicable)

SRS (supplemental restraint system) fault (where applicable)

DEF (low diesel exhaust fluid level)

The following red telltale lamps will be present:

Warning (stop sign symbol)

Seat belt

Parking brake

Stop engine

Rack down

The following green telltale lamps will be provided:

Left turn

Right turn

Battery on

The following blue telltale lamp will be provided:

High beam

Alarms

Audible steady tone warning alarm: A steady audible tone alarm will be provided whenever a warning message is present.

Audible pulsing tone caution alarm: A pulsing audible tone alarm (chime/chirp) will be provided whenever a caution message is present without a warning message being present.

Alarm silence: Any active audible alarm will be able to be silenced by holding the ignition switch at the top position for 3 to 5 seconds. For improved safety, silenced audible alarms will intermittently chirp every 30 seconds until the alarm condition no longer exists. The intermittent chirp will act as a reminder to the operator that a caution or warning condition still exists. Any new warning or caution condition will enable the steady or pulsing tones respectively.

Indicator Lamp and Alarm Prove-Out

Telltale indicators and alarms will perform prove-out at initial power-up to ensure proper performance.

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.

Emergency master switch: A molded plastic push button switch with integral indicator lamp will be provided. Pressing the switch will activate emergency response lights and siren control. A green lamp on the switch provides indication that the emergency master mode is active. Pressing the switch again disables the emergency master mode.

Headlight / Parking light switch: A three (3)-position maintained rocker switch will be provided. The first switch position will deactivate all parking lights and the headlights. The second switch position will activate the parking lights. The third switch position will activate the headlights.

Panel backlighting intensity control switch: A three (3)-position momentary rocker switch will be provided. The first switch position decreases the panel backlighting intensity to a minimum level as the switch is held. The second switch position is the default position that does not affect the backlighting intensity. The third switch position increases the panel backlighting intensity to a maximum level as the switch is held.

The following standard controls will be integral to the gauge assembly and are located below the right hand gauges. All switches have backlit labels for low light applications.

High idle engagement switch: A two (2)-position momentary rocker switch with integral indicator lamp will be provided. The first switch position is the default switch position.

The second switch position will activate and deactivate the high idle function when pressed and released. 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.

The following standard controls will be provided adjacent to the cab gauge assembly within easy reach of the driver. All switches will have backlit labels for low light applications.

Ignition switch: A three (3)-position maintained/momentary rocker switch will be provided. The first switch position will deactivate vehicle ignition. The second switch position will

activate vehicle ignition. The third momentary position will disable the Command Zone audible alarm if held for 3 to 5 seconds. A green indicator lamp will be activated with vehicle ignition.

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.

4-way hazard switch: A two (2)-position maintained rocker switch will be provided. The first switch position will deactivate the 4-way hazard switch function. The second switch position will activate the 4-way hazard function. The switch actuator will be red and includes the international 4-way hazard symbol.

Heater, defroster, and air conditioning control panel.

Turn signal arm: A self-canceling turn signal with high beam headlight and windshield wiper/washer controls will be provided. The windshield wiper control will have high, low, and intermittent modes.

Parking brake control: An air actuated push/pull park brake control valve will be provided.

Chassis horn control: Activation of the chassis horn control will be provided through the center of the steering wheel.

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 overhead console on the driver's side, up to four (4) switch panels in the engine tunnel console facing the driver, up to four (4) switch panels in the overhead console on the officer's side and up to two (2) switch panels in the engine tunnel console facing the officer. All switches will have backlit labels for low light applications.

Diagnostic Panel

A diagnostic panel will be accessible while standing on the ground and 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 diagnostic port

Transmission diagnostic port

ABS diagnostic port

SRS diagnostic port (where applicable)

Command Zone USB diagnostic port

ABS diagnostic switch (blink codes flashed on ABS telltale indicator)

Diesel particulate filter regeneration switch (where applicable)

Diesel particulate filter regeneration inhibit switch (where applicable)

Cab LCD Display

A digital four (4)-row by 20-character dot matrix display will be integral to the gauge panel.

The display will be capable of showing simple graphical images as well as text. The display will be split into three (3) sections. Each section will have a dedicated function.

The upper left section will display the outside ambient temperature.

The upper right section will display, along with other configuration specific information:

Odometer

Trip mileage

PTO hours

Fuel consumption

Engine hours

The bottom section will display INFO, CAUTION, and WARNING messages. Text messages will automatically activate to describe the cause of an audible caution or warning alarm.

The LCD will be capable of displaying multiple text messages should more than one caution or warning condition exist.

0509511 Air Restriction Indicator, Imp/Vel, AXT, Enf MUX

AIR RESTRICTION INDICATOR

A high air restriction warning indicator light LCD message with amber warning indicator and audible alarm will be provided.

0543751 Light, Do Not Move Apparatus

"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.

0509042	Messages, Open Dr/DNMT, Color Dsply,	<p>DO NOT MOVE TRUCK MESSAGES</p> <p>Messages will be displayed on the Command Zone™, color display located within sight of the driver whenever the Do Not Move Truck light is active. The messages will designate the item or items not in the stowed for vehicle travel position (parking brake disengaged). The following messages will be displayed (where applicable):</p> <ul style="list-style-type: none"> Do Not Move Truck DS Cab Door Open (Driver Side Cab Door Open) PS Cab Door Open (Passenger's Side Cab Door Open) DS Crew Cab Door Open (Driver Side Crew Cab Door Open) PS Crew Cab Door Open (Passenger's Side Crew Cab Door Open) DS Body Door Open (Driver Side Body Door Open) PS Body Door Open (Passenger's Side Body Door Open) Rear Body Door Open DS Ladder Rack Down (Driver Side Ladder Rack Down) PS Ladder Rack Down (Passenger Side Ladder Rack Down) Deck Gun Not Stowed Lt Tower Not Stowed (Light Tower Not Stowed) Fold Tank Not Stowed (Fold-A-Tank Not Stowed) Aerial Not Stowed (Aerial Device Not Stowed) Stabilizer Not Stowed Steps Not Stowed Handrail Not Stowed <p>Any other device that is opened, extended, or deployed that creates a hazard or is likely to cause major damage to the apparatus if the apparatus is moved will be displayed as a caution message after the parking brake is disengaged.</p>
0611681	Switching, Cab, Membrane, Impel/Velocity, AXT WiFi MUX	<p>SWITCH PANELS</p> <p>The emergency light switch panel will have a master switch for ease of use plus individual switches for selective control. Each switch panel will contain eight (8) membrane-type switches each rated for one million (1,000,000) cycles. Panels containing less than eight (8) switch assignments will include non-functioning black appliques. Documentation will be provided by the manufacturer indicating the rated cycle life of the switches. The switch panel(s) will be located in the overhead position above the windshield on the driver side overhead to allow for easy access.</p> <p>Additional switch panel(s) will be located in the overhead position(s) above the windshield or in designated locations on the lower instrument panel layout.</p> <p>The switches will be membrane-type and also act as an integral indicator light. For quick, visual indication the entire surface of the switch will be illuminated white whenever back lighting is activated and illuminated green whenever the switch is active. An active illuminated switch will flash when interlock requirements are not met or device is actively being load managed. For ease of use, a two (2)-ply, scratch resistant laser engraved Gravoply label indicating the use of each switch will be placed in the center of the switch. The label will allow light to pass through the letters for ease of use in low light conditions.</p>
0555915	Wiper Control, 2-Speed with Intermittent, MUX, Impel/Velocity	<p>WIPER CONTROL</p> <p>For simple operation and easy reach, the windshield wiper control will be an integral part of the directional light lever located on the steering column. The wiper control will include high and low wiper speed settings, a one (1)-speed intermittent wiper control and windshield washer switch. The control will have a "return to park" provision, which allows the wipers to return to the stored position when the wipers are not in use.</p>
0002565	Hourmeter, Aerial Inside Cab	<p>HOURLMETER - AERIAL DEVICE</p> <p>An hourmeter for the aerial device will be provided and located within the cab display or instrument panel.</p>
0002615	Switch, Aerial 12V Master	<p>AERIAL MASTER</p> <p>There will be a master switch for the aerial operating electrical system provided.</p>
0002617	PTO switch, w/light - aerial	<p>AERIAL PTO SWITCH</p> <p>A PTO switch for the aerial with indicator light will be provided.</p>
0834413	USB, Cab, 4, 12V DC, Dual USB Termination, Batt Dir. NFPA1900/ULC	<p>CAB USB</p> <p>There will be four (4) USB terminations with a combination USB type A & C, wired to battery direct power, and provided per the following:</p> <ul style="list-style-type: none"> One (1) within reach of the driver One (1) within reach of the passenger Two (2) on the rear of the engine tunnel, one (1) each side. <p>Battery direct loads cannot be load managed.</p>

0821192	Wiring, Spare, 20 A 12V DC 1st NFPA1900/ULC	<p>SPARE CIRCUIT There will be two (2) pair of wires, including a positive and a negative, installed on the apparatus. The wires will have the following features: The positive wire will be connected directly to the battery switched power The negative wire will be connected to ground Wires will be capable of carrying 20 amps Power and ground will terminate Forward edge tunnel mounting plate PS Termination will be with heat shrinkable butt splicing Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. The circuit(s) may be load managed when the parking brake is set.</p>
0821312	Wiring, Spare, 30 A 12V DC Batt Dir 1st NFPA1900/ULC	<p>SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The 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 capable of carrying 30 amps Power and ground will terminate D/S and P/S rear of crew cab doors above side storage compartments Termination will be with heat shrinkable butt splicing Wires will be protected to meet the NFPA Automotive Fire Apparatus standard Battery direct loads cannot be Load Managed</p>
0821474	Wiring, Spare, 40 A 12V DC, 6 Ckt Fuse Blk, Blue Sea 5025 1st NFPA1900/ULC	<p>SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The wires will have the following features: The positive wire will be connected directly to the battery switched power. The negative wire will be connected to ground. Wires will be capable of carrying 40 amps. Power and ground will terminate Cab Electrical Distribution Box. 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 protected to meet the NFPA Automotive Fire Apparatus standard. This circuit(s) may be load managed when the parking brake is set.</p>
0830360	Wiring, Spare, (1) 15A 12V DC, Multi Loc, Cab, B+, 2nd, NFPA1900/ULC	<p>SPARE CIRCUITS There will be one (1) shared 15 amp circuit, including a positive and a negative wire, dropped out in multiple locations on the apparatus. All dropout locations will be wired in a parallel configuration. The 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 capable of carrying 10 amps. The spare wiring circuit will be located and terminated as follows: Spare circuit drop #1 will RS side of crew cab iPad map box and termination with a panel mount style Type-A & Type-C dual USB socket with cover at the wire end Spare circuit drop #2 will LS side of crew cab iPad map box and termination with a panel mount style Type-A & Type-C dual USB socket with cover at the wire end Spare circuit drop #3 will front PS dash as per Instrument Panel drawing and termination with a panel mount style Type-A & Type-C dual USB socket with cover at the wire end Spare circuit drop #4 will not be required and termination is not required with no location Spare circuit drop #5 will not be required and termination is not required with no location Spare circuit drop #6 will not be required and termination is not required with no location Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. Battery Direct loads cannot be Load Managed.</p>
0820894	Wiring, Spare, 15 A 12V DC, Batt Dir, 1st NFPA1900/ULC	<p>SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The 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 capable of carrying 15 amps. Power and ground will terminate officer side dash area. Termination will be with 15 amp, power point plug with rubber cover. Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. Battery direct loads cannot be Load Managed.</p>

0680969	SP Wiring, Spare, 60A 12V DC, 12 Circuit Fuse Block, Blue Sea 5026, Sw Feature	<p>SPARE CIRCUIT</p> <p>There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The 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 capable of carrying 60 amps. Power and ground will terminate Mounted to the forward edge of the radio console on top of the engine Tunnel.. Termination will be to a Blue Sea System, model 5026, 12 circuit with negative bus bar with a straight blade fuse block. The terminal block will include a cover with circuit labels. The circuits selected above will be controlled by a switch in the following locations: a switch in the driver's side switch panel. no additional switch location. Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. This circuit(s) may be load managed when the parking brake is set.</p>
0547347	Wiring, Spare, 30 A 12V DC, Switch Feature 1st	<p>SPARE CIRCUIT</p> <p>There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The 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 capable of carrying 30 amps. Power and ground will terminate LS1 Driver side #1. Termination will be with heat shrinkable butt splicing. The circuits selected above will be controlled by a switch in the following locations: a switch in the driver's side switch panel no additional switch location Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. This circuit(s) may be load managed when the parking brake is set.</p>
0889297	Radio, APTIV, AM/FM/USB/WB, Integrated SiriusXM Satellite, Bluetooth	<p>RADIO, AM/FM/WB/USB/BT /XM SAT</p> <p>A APTIV HEAVY-DUTY AM/FM/USB/WB, Integrated SiriusXM Satellite, Bluetooth® and Bluetooth® mic will be installed per switch panel layout. There will be one (1) pair of 5.25" speakers in the cab and one (1) pair of 5.25" speakers in the crew cab. The Radio Antenna a roof-mounted rubber antenna located in an open space, on the cab roof. FEATURES: Integrated SiriusXM Satellite Radio Tuner - offers 100+ channels of digital quality audio programming heard uninterrupted across the United States and Canada; a subscription is required to receive SAT broadcasts* - SiriusXM 'Instant Replay' feature enabled - allows user to pause, rewind and replay audio content from the currently active channel - Built-in Bluetooth® profile is selectable between Audio Streaming and/or Hands-free phone operation (utilizing the vehicle's audio system and a remote mic** - up to 10 devices can be easily stored in the radio memory for fast pairing) - FRONT PANEL USB PORT- gives a direct connect location for memory devices with USB interface, to play stored music and/or charge the device and have iPod® control through the radio - iPad® charging capability up to 2.1A - Back-lit Display Lighting - Switchable between RED or BLUE.</p>
0044166	Swivel Mount, Heavy Duty, Fill in Blank Feature	<p>SWIVEL MOUNT</p> <p>There will be one (1) Johnny Ray, Model JR-300 heavy duty swivel mount bracket(s), rated for a maximum of seven (7) lbs, provided for the fire department's electric siren head equipment. The swivel mount bracket(s) will be located centered overhead.</p>
0814201	Vehicle Information Center, 7" Color Display, Touchscreen, MUX, CL714	<p>INFORMATION CENTER</p> <p>An information center employing a 7.00" diagonal touch screen color LCD display will be encased in an ABS plastic housing. The information center will have the following specifications: Operate in temperatures from -40 to 158 degrees Fahrenheit LCD optically bonded to hardened AR glass lens Five weather resistant user interface switches Grey with black accents Sunlight Readable Linux operating system Minimum of 1000nits rated display Display can be changed to an available foreign language A LCD display integral to the cab gauge panel will be included as outlined in the cab instrumentation area. Programmed to read US Customary</p> <p>General Screen Design</p> <p>Where possible, background colors will be used to provide "At a Glance" vehicle information. If information provided on a screen is within acceptable limits, a green background will be used. If a caution or warning situation arises the following will occur: An amber background/text color will indicate a caution condition A red background/text color will indicate a warning condition The information center will utilize an "Alert Center" to display text messages for audible alarm tones. The text messages will be written to identify the item(s) causing the audible alarm to sound. If more than one (1) text message occurs, the messages will cycle every second until the problem(s) have been resolved. The background color for the "Alert Center" will change to indicate the severity of the "warning" message. If a warning and a caution condition occur simultaneously, the red background color will be shown for all alert center messages. A label for each button will exist. The label will indicate the function for each active button for each screen. Buttons that are not utilized on specific screens will have a button label with no text</p>

or symbol.

Home/Transit Screen

This screen will display the following:

Vehicle Mitigation (if equipped)

Water Level (if the water level system includes compatible communications to the information center)

Foam Level (if the foam level system includes compatible communications to the information center)

Seat Belt Monitoring Screen

Tire Pressure Monitoring (if equipped)

Digital Speedometer

Active Alarms

On Scene Screen

This screen will display the following and will be auto activated with pump engaged (if equipped):

Battery Voltage

Fuel

Oil Pressure

Coolant Temperature

RPM

Water Level (if equipped)

Foam Level (if equipped)

Foam Concentration (if equipped)

Water Flow Rate (if equipped)

Water Used (if equipped)

Active Alarms

Virtual Buttons

There will be four (4) virtual switch panel screens that match the overhead and lower lighting and HVAC switch panels.

Page Screen

The page screen will display the following and allow the user to progress into other screens for further functionality:

Diagnostics

Faults

Listed by order of occurrence

Allows to sort by system

Interlock

Throttle Interlocks

Pump Interlocks (if equipped)

Aerial Interlocks (if equipped)

PTO Interlocks (if equipped)

Load Manager

A list of items to be load managed will be provided. The list will provide a description of the load. The lower the priority numbers the earlier the device will be shed should a low voltage condition occur.

The screen will indicate if a load has been shed (disabled) or not shed.

"At a glance" color features are utilized on this screen.

Systems

Command Zone

Module type and ID number

Module Version

Input or output number

Circuit number connected to that input or output

Status of the input or output

Power and Constant Current module diagnostic information

Foam (if equipped)

Pressure Controller (if equipped)

Generator Frequency (if equipped)

Live Data

General Truck Data

Maintenance

Engine oil and filter

Transmission oil and filter

Pump oil (if equipped)

Foam (if equipped)

Aerial (if equipped)

Setup

Clock Setup

Date & Time

12 or 24 hour format

Set time and date

Backlight

Daytime

Night time

Sensitivity

Unit Selection

Home Screen

Virtual Button Setup

On Scene Screen Setup

Configure Video Mode

Set Video Contrast

Set Video Color

Set Video Tint

Do Not Move

The screen will indicate the approximate location and type of item that is open or is not stowed for travel. The actual status of the following devices will be indicated

Driver Side Cab Door

Passenger's Side Cab Door

Driver Side Crew Cab Door

Passenger's Side Crew Cab Door
 Driver Side Body Doors
 Passenger's Side Body Doors
 Rear Body Door(s)
 Ladder Rack (if applicable)
 Deck Gun (if applicable)
 Light Tower (if applicable)
 Hatch Door (if applicable)
 Stabilizers (if applicable)
 Steps (if applicable)
 Notifications
 View Active Alarms
 Shows a list of all active alarms including date and time of the occurrence is shown with each alarm
 Silence Alarms - All alarms are silenced
 Timer Screen
 HVAC (if equipped)
 Tire Information (if equipped)
 Ascendant Set Up Confirmation (if equipped)
 Button functions and button labels may change with each screen.

0816633 Collision Mitigation, HAAS Alert (R2V), HA7

COLLISION MITIGATION

There will be a HAAS Alert®, Model HA7 Responder-to-Vehicle (R2V) collision avoidance system provided on the apparatus. The HA7 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 degrees Celsius to 85 degrees Celsius.
 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 HA7 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 HA7 transponder sends road hazard alerts to motorists in the vicinity of the truck that are equipped with the WAZE app.
 The HA7 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.

0606249 Vehicle Data Recorder w/CZ and Overhead Display Seat Belt Monitor

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
 Internal clock syncs the time and date when a laptop is connected

Seat Belt Monitoring System

A seat belt monitoring system (SBMS) will be provided on the Command Zone™ color display and in the center overhead of the cab instrument panel. 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
 FAULT = Blue LED indicator illuminated
 The seat belt monitoring screen will become active on the Command Zone color display when:
 The home screen is active:
 and there is any occupant seated but not buckled or any belt buckled with an occupant.
 and there are no other Do Not Move Apparatus conditions present. As soon as all Do Not Move Apparatus conditions are cleared, the SBMS will be activated.
 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.

0819255 Hangers For Headsets, NFPA/ULC 2024, Each

HEADSET HANGERS

There will be **five (5)** headset hanger(s) installed **driver's seat, officer's seat, driver's side inboard forward facing seat, passenger's side inboard forward facing seat and passenger's side outboard rear facing seat**. The hanger(s) will meet the current edition of applicable NFPA and ULC standards for equipment mounting.

0003757	Antenna, Std and Add'l Mts Only, 2-way Radio,Cust,Spl Cable Routing	RADIO ANTENNA MOUNT	There will be two (2) standard antenna-mounting base(s), Model MATM, with 17 feet of coax cable and weatherproof cap provided for a two (2)-way radio installation. The standard mount will be located on the cab roof, just to the rear of the officer seat and the additional mount(s) will be located Terminate at forward edge of engine tunnel plate with 3' service loop.. The cable(s) will be routed Terminate at forward edge of engine tunnel plate with 3' service loop. .
0817058	Camera, Pierce, LS Mux, R Camera, SD, CL714	VEHICLE CAMERA SYSTEM	There will be a color vehicle camera system provided with the following: One (1) Standard Definition (SD) camera located at the rear of the apparatus, pointing rearward, displayed automatically with the vehicle in reverse. The camera images will be displayed on the left side vehicle information center display. Audio from the microphone on the rear camera will be emitted by an amplified speaker with volume control in the blank panel to the right of the steering column. The following components will be included: One (1) SV-CW134639CAI Camera All necessary cables
0814831	Not Required, Camera Switcher	Camera Switcher	A camera switcher is not required.
0511071	Guard, 4-Way, Rear Vision Camera	VEHICLE CAMERA GUARD	There will be one (1) aluminum treadplate guard(s) fastened over the vehicle camera(s) located rear of truck.
0896458	Pierce Command Zone, Advanced Electronics & Control System, Vel WiFi CZT	ELECTRICAL POWER CONTROL SYSTEM	<p>The primary power distribution will be located forward of the officer's seating position and be easily accessible while standing on the ground for simplified maintenance and troubleshooting. Additional electrical distribution centers will be provided throughout the vehicle to house the vehicle's electrical power, circuit protection, and control components. The electrical distribution centers will be located strategically throughout the vehicle to minimize wire length. For ease of maintenance, all electrical distribution centers will be easily accessible. All distribution centers containing fuses, circuit breakers and/or relays will be easily accessible. Distribution centers located throughout the vehicle will contain battery powered studs for supplying customer installed equipment thus providing a lower cost of ownership. Circuit protection devices, which conform to SAE standards, will be utilized to protect electrical circuits. All circuit protection devices will be rated per NFPA requirements to prevent wire and component damage when subjected to extreme current overload. General protection circuit breakers will be Type-I automatic reset (continuously resetting). When required, automotive type fuses will be utilized to protect electronic equipment. Control relays and solenoid will have a direct current rating of 125 percent of the maximum current for which the circuit is protected per NFPA.</p> <p>Solid-State Control System</p> <p>A solid-state electronics based control system will be utilized to achieve advanced operation and control of the vehicle components. A fully computerized vehicle network will consist of electronic modules, electronic control modules to include black housings, a power indicator and status indicator located near their point of use to reduce harness lengths and improve reliability. The control system will comply with SAE J1939-11 recommended practices. The control system will operate as a master-slave system whereas the main control module instructs all other system components. The system will contain patented Mission Critical software that maintains critical vehicle operations in the unlikely event of a main controller error. The system will utilize a Real Time Operating System (RTOS) fully compliant with OSEK/VDX™ specifications providing a lower cost of ownership. For increased reliability and simplified use the control system modules will include the following attributes:</p> <ul style="list-style-type: none"> Green LED indicator light for module power Red LED indicator light for network communication stability status Control system self test at activation and continually throughout vehicle operation No moving parts due to transistor logic Software logic control for NFPA mandated safety interlocks and indicators Integrated electrical system load management without additional components Integrated electrical load sequencing system without additional components Customized control software to the vehicle's configuration Factory and field programmable to accommodate changes to the vehicle's operating parameters <p>To assure long life and operation in a broad range of environmental conditions, the solid-state control system modules will meet the following specifications:</p> <ul style="list-style-type: none"> Module circuit board will meet SAE J771 specifications Operating temperature from -40C to +70C Storage temperature from -40C to +70C Vibration to 50g IP67 rated enclosure (Totally protected against dust and also protected against the effect of temporary immersion between 15 centimeters and one (1) meter) Operating voltage from eight (8) volts to 32 volts DC <p>The main controller will activate status indicators and audible alarms designed to provide warning of problems before they become critical.</p> <p>Circuit Protection and Control Diagram</p> <p>Copies of all job-specific, computer network input and output (I/O) connections will be provided with each chassis. The sheets will indicate the function of each module connection point, circuit protection information (where applicable), wire numbers, wire colors and load management information.</p> <p>On-Board Electrical System Diagnostics</p> <p>The on-board information center will include the following diagnostic information:</p>

Text description of active warning or caution alarms

Simplified warning indicators

Amber caution indication with intermittent alarm

Red warning indication with steady tone alarm

Advanced diagnostic feature will be provided in this control system. From the Command Zone display or connected wireless device, these features allow the user to monitor the real-time status of every input or output on the vehicle. It also allows users logged in as an administrator to force on inputs or outputs to assist the troubleshooting process.

TCU Module with WiFi

An in cab module will provide WiFi wireless interface and data logging capability. The WiFi interface will comply with IEEE 802.11 b/g/n capabilities while communicating at 2.4 Gigahertz. The module will communicate through a **white WiFi antenna** allowing a line of site communication range of up to 300 feet with a roof mounted antenna.

The module will transmit a password protected web page to a WiFi enabled device (i.e. most smart phones, tablets or laptops) allowing two levels of user interaction. The firefighter level will allow vehicle monitoring of the vehicle and firefighting systems on the apparatus. The technician level will allow diagnostic access to inputs and outputs installed on the Command Zone™, control and information system.

The TCU capability will record faults from the engine, transmission, ABS and Command Zone™, control and information systems as they occur. No other data will be recorded at the time the fault occurs. The data TCU will provide up to 2 Gigabytes of data storage.

The TCU will provide a means to download the TCU information and update software in the device.

Indicator Light and Alarm Prove-Out System

A system will be provided which automatically tests basic indicator lights and alarms located on the cab instrument panel.

Voltage Monitor System

A voltage monitoring system will be provided to indicate the status of the battery system connected to the vehicle's electrical load. The system will provide visual and audible warning when the system voltage is below or above optimum levels.

The alarm will activate if the system falls below 11.8 volts DC for more than two (2) minutes.

Dedicated Radio Equipment Connection Points

There will be three (3) studs provided in the primary power distribution center located in front of the officer for two-way radio equipment. The studs will consist of the following:

12-volt 40-amp battery switched power

12-volt 60-amp ignition switched power

12-volt 60-amp direct battery power

There will also be a 12-volt 100-amp ground stud located in or adjacent to the power distribution center.

EMI/RFI Protection

To prevent erroneous signals from crosstalk contamination and interference, the electrical system will meet, at a minimum, SAE J551/2, thus reducing undesired electromagnetic and radio frequency emissions. An advanced electrical system will be used to ensure radiated and conducted electromagnetic interference (EMI) or radio frequency interference (RFI) emissions are suppressed at their source.

The apparatus will have the ability to operate in the electromagnetic environment typically found in fire ground operations to ensure clean operations. The electrical system will meet, without exceptions, electromagnetic susceptibility conforming to SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter. The vehicle OEM, upon request, will provide EMC testing reports from testing conducted on an entire apparatus and will certify that the vehicle meets SAE J551/2 and SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter requirements. Component and partial (incomplete) vehicle testing is not adequate as overall vehicle design can impact test results and thus is not acceptable by itself.

EMI/RFI susceptibility will be controlled by applying appropriate circuit designs and shielding. 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.

0896456

Prognostics, Electrical System

ELECTRICAL SYSTEM PROGNOSTICS

There will be a software based vehicle tool provided to predict remaining life of the vehicles critical fluid and events.

The system will send automatic indications to the Command Zone™ information center and/or wireless enabled devices to proactively alert of upcoming service intervals.

Prognostics will include the following:

Engine oil and filter

Transmission oil and filter

0816093 ClearSky Telematics, Remote Fleet & **TELEMATICS SYSTEM**
 On-scene Management, AT&T
 Commercial

Your vehicle will include a cellular-based vehicle telematics system including a telematic control unit with external cellular Wi-Fi and GPS antenna. Pierce will provide access to a web-based user interface portal that will allow users to access vehicle data collected as part of the system, allow users to configure monitoring tools, provide a global view of the location of each vehicle that has the system, provide a summary of fleet data, etc. The web-based user interface portal or certain features thereof may be provided on a subscription basis.

The telematic control unit will be fully integrated into the electrical system of the vehicle, will monitor the vehicle through the CAN data bus, and will transmit data through a secure AT&T 4G LTE cellular connection, and be provided with a **3 year subscription**.

The web-based user interface portal will provide, among other features:

- User defined interval notifications
- User defined fault alerts
- Remote access to Command Zone™ diagnostics
- Vehicle analytics and activity monitoring
- Vehicle system status

The system is activated while building your vehicle and thereafter remains active for a 60-day grace period starting when your vehicle ships from the factory. This means that the system is active at the time of factory acceptance and during the 60-day grace period. By selecting this option, it is agreed that use of the system and the web-based user interface portal will be subject to the terms set forth in the Data Systems Agreement referenced at <https://www.piercemfg.com/privacy-statement>. Customers will be provided with an initial login at the time of factory acceptance to verify performance of the system and the web-based user interface portal. The term of the subscription, if any, will begin when the vehicle ships from the factory. If customers do not log into the web-based user interface portal and confirm acceptance of the terms before the 60-day grace period ends, the system will be deactivated, and no new data will be collected or retained Pierce. Reactivation can be coordinated through the customer's authorized Pierce Dealer.

0730603 Electrical System, Velocity ESP,
 Cummins, Paccar

ELECTRICAL

All 12-volt electrical equipment installed by the apparatus manufacturer 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:

- 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.
- 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.
- 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.
- Corrosion preventative compound will be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections will require this compound in the plug to prevent corrosion and for easy separation (of the plug).
- All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area.
- All electrical terminals in exposed areas will have silicon 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.

0079211 Batteries, (6) Stryten/Exide Grp 31,
 950 CCA each, Threaded Stud

BATTERY SYSTEM

There will be six (6) 12 volt Stryten/Exide®, Model 31S950X3W, batteries that include the following features will be provided:

- 950 CCA, cold cranking amps
- 190 amp reserve capacity
- High cycle
- Group 31
- Rating of 5700 CCA at 0 degrees Fahrenheit
- 1140 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.

0008621	Battery System, Single Start, All Custom Chassis	<p>BATTERY SYSTEM There will be a single starting system with an ignition switch and starter button provided and located on the cab instrument panel.</p> <p>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.</p>
0123174	Battery Compartment, Imp/Vel	<p>BATTERY COMPARTMENTS The batteries will be stored in well-ventilated compartments that are located under the cab and bolted directly to the chassis frame. The battery compartments will be constructed of 3/16" steel plate and be designed to accommodate a maximum of three (3) group 31 batteries in each compartment. The compartments will include formed fit heavy-duty roto-molded polyethylene battery tray inserts with drains on each side of the frame rails. The batteries will be mounted inside of the roto-molded trays.</p> <p>JUMPER STUDS One (1) set of battery jumper studs with plastic color-coded covers will be installed on the battery box on the driver's side. This will allow enough room for easy jumper cable access.</p>
0834489	Battery Charger/Converter, Progressive Dynamics PD9380, 80A	<p>POWER CONVERTER / BATTERY CHARGER There will be one (1) Progressive Dynamics, Inc., Model PD9380, power converter/battery charger provided. The battery charger will be wired to the AC shoreline inlet through an AC receptacle adjacent to this battery charger.</p>
0814893	Location, Body, Charger, Front Side Compartment, LS	The battery charger will be located in the left front body compartment mounted on the left wall as high as practical.
0836815	Lights, Charger Indicator for IRT	<p>PD2180 BATTERY CHARGERS INDICATOR LIGHTS Two (2) amber LED indicator lights will be installed near the 30A shoreline inlet for the IRT system. One (1) indicator will be connected to charger 1, and labeled "BATTERY CHARGER 1". One (1) indicator will be connected to charger 2, and labeled "BATTERY CHARGER 2". These indicators will individually indicate when the chargers are powered from the 30A shoreline inlet for the IRT system.</p>
0814971	Not Required, Location Ind/Remote	
0811952	Not Required, Indicator/Remote Status	
0016857	Shoreline, 20A 120V, Kussmaul Auto Eject, 091-55-20-120, Super	<p>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</p>
0026800	Shoreline Location	The shoreline receptacle will be located on the driver side of cab, to the front of cab door.
0669846	Shoreline Inlet, 30A 120V, Kussmaul Auto Eject, "Super", Additional	<p>ADDITIONAL AUTO EJECT SHORELINE There will be one (1) Kussmaul Super auto eject, Model #091-159-30-120 with a 120 volt, 30 amp, 3 pin plug provided Forward cab door DS corner above shoreline and include a blue weatherproof cover. The cover is spring loaded to close, preventing water from entering when the shoreline is not connected. The shoreline will be connected to RV 110v AC. A solenoid wired to the vehicle's starter is energized when the engine is started. This instantaneously drives the plug from the receptacle. A novel plug detector closes and opens the 120 volt A.C. circuit after the mating connector is inserted and before the connector is ejected. A mating connector body will also be supplied with the loose equipment. The shoreline will be provided to operate the dedicated 120-volt circuits on the truck without the use of the generator.</p>

0647728	Alternator, 430 amp, Delco Remy 55SI	<p>ALTERNATOR A Delco Remy®, Model 55SI, alternator will be provided. It will have a rated output current of 430 amps, as measured by SAE method J56. The alternator will feature an integral regulator and rectifier system that has been tested and qualified to an ambient temperature of 257 degrees Fahrenheit (125 degrees Celsius). The alternator will be connected to the power and ground distribution system with heavy-duty cables sized to carry the full rated alternator output.</p>
0533575	SP Programming, Command Zone, Spl Programming, No Light Sequencing, Mesa	<p>SPECIAL PROGRAMING Configure the apparatus with programming to avoid any light sequencing when "E"-Master is activated, as the customers require all activated lighting options to turn "on" at the same time frame.</p>
0092582	Load Manager/Sequencer, MUX	<p>ELECTRONIC LOAD MANAGER An electronic load management (ELM) system will be provided that monitors the vehicles 12-volt electrical system, automatically reducing the electrical load in the event of a low voltage condition, and automatically restoring the shed electrical loads when a low voltage condition expires. This ensures the integrity of the electrical system. For improved reliability and ease of use, the load manager system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load management tasks. Load management systems which require additional components will not be allowed. The system will include the following features: System voltage monitoring. A shed load will remain inactive for a minimum of five minutes to prevent the load from cycling on and off. Sixteen available electronic load shedding levels. Priority levels can be set for individual outputs. High Idle to activate before any electric loads are shed and deactivate with the service brake. If enabled: "Load Man Hi-Idle On" will display on the information center. Hi-Idle will not activate until 30 seconds after engine start up. Individual switch "on" indicator to flash when the particular load has been shed. The information center indicates system voltage. The information center, where applicable, includes a "Load Manager" screen indicating the following: Load managed items list, with priority levels and item condition. Individual load managed item condition: ON = not shed SHED = shed</p> <p>SEQUENCER A sequencer will be provided that automatically activates and deactivates vehicle loads in a preset sequence thereby protecting the alternator from power surges. This sequencer operation will allow a gradual increase or decrease in alternator output, rather than loading or dumping the entire 12 volt load to prolong the life of the alternator. For improved reliability and ease of use, the load sequencing system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load sequencing tasks. Load sequencing systems which require additional components will not be allowed. Emergency light sequencing will operate in conjunction with the emergency master light switch. When the emergency master switch is activated, the emergency lights will be activated one by one at half-second intervals. Sequenced emergency light switch indicators will flash while waiting for activation. When the emergency master switch is deactivated, the sequencer will deactivate the warning light loads in the reverse order. Sequencing of the following items will also occur, in conjunction with the ignition switch, at half-second intervals: Cab Heater and Air Conditioning Crew Cab Heater (if applicable) Crew Cab Air Conditioning (if applicable) Exhaust Fans (if applicable) Third Evaporator (if applicable)</p>
0783153	Headlights, Rect LED, JW Spkr Evo 2, AXT/Enf/Imp/Sab/Vel	<p>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.</p>
0648425	Light, Directional, W/in 600 Cmb, Cab Crn, Wrp Bzl Out HD Lts, Imp/Vel/AXT/Qtm	<p>DIRECTIONAL LIGHTS There will be two (2) Whelen 600® series, LED combination directional/marker lights provided. The lights will be located on the outside cab corners, next to the headlights. The color of the lenses will be the same color as the LED's.</p>

0620054	Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts	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.
0648074	Lights, Clearance/Marker/ID, Front, P25 LED 7 Lts	CAB CLEARANCE/MARKER/ID LIGHTS There will be seven (7) amber LED lights provided to indicate the presence and overall width of the vehicle in the following locations: Three (3) amber LED identification lights will be installed in the center of the cab above the windshield. Two (2) amber LED clearance lights will be installed, one (1) on each outboard side of the cab above the windshield. Two (2) amber LED marker lights will be installed, one (1) on each side above the cab doors.
0647993	Lights, Clearance/Marker/ID, Platform, P25 LED, 5 Lts	PLATFORM CLEARANCE/MARKER/ID LIGHTS There will be five (5) amber LED lights provided to indicate the presence and overall width of the vehicle in the following locations: Three (3) amber LED identification lights will be installed on the front of the aerial basket, centered. Two (2) amber LED clearance/marker lights will be installed, one (1) on each corner of the aerial basket visible from the side and the front of the vehicle. The lights will be mounted with an aluminum guard .
0511569	Lights, Clearance/Marker/ID, Rear, P25 LED 7Lts	REAR CLEARANCE/MARKER/ID LIGHTING There will be three (3) LED identification lights located at the rear installed 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 The lights will be mounted with no guard . 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.
0602938	Light, Marker End Outline, Rubber Arm, LED Marker Lamp, Rear Body	MARKER LIGHTS There will be one (1) pair of amber and red LED marker lights with rubber arm, located at the rear most lower corner of the body. The amber lens will face the front and the red lens will face the rear of the truck. These lights will be activated with the running lights of the vehicle.
0804514	Lights, Tail, WIn M62BTT* Red Stop/Tail & M62T* Amber Dir Arw For Hsg	REAR FMVSS LIGHTING The rear stop/tail and directional lighting included in the rear tail light housing will include the following: Two (2) Whelen®, Model M62BTT, 4.30" high x 6.70" wide x 1.40" deep brake/tail lights with red LEDs Two (2) Whelen, Model M62T, 4.30" high x 6.70" wide x 1.40" deep directional lights with amber LEDs. The directional lights will be set to Steady On (Arrow) flash pattern. The lens color(s) to be clear .
0806466	Lights, Backup, WIn M62BU, LED, For Tail Lt Housing	There will be two (2) Whelen Model M62BU, LED backup lights provided in the tail light housing.

0889577	Bracket, License Plate & Light, P25 LED, Stainless Brkt	<p>LICENSE PLATE BRACKET</p> <p>One (1) license plate bracket constructed of stainless steel will be provided at the rear of the apparatus.</p> <p>One (1) white LED light with chrome housing will be provided to 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.</p>
0556842	Bezels, Wln, (2) M6 Chrome Pierce, For mtg (4) Wln M6 lights	<p>LIGHTING BEZEL</p> <p>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.</p>
0589905	Alarm, Back-up Warning, PRECO 1040	<p>BACK-UP ALARM</p> <p>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.</p>
0613892	Synchronize, Wln Warning Lights, 2nd	<p>SYNCHRONIZE WARNING LIGHTS</p> <p>The sync wires to the following two (2) lights located Front zone warning lights on the apparatus will be connected together to maintain the flash patterns of the lights.</p> <p>The lights located Left front driver side upper light synced with Right front passenger side lower light 4 front lights flash in X pattern will remain on phase 1 or flash together.</p> <p>The lights located Left front driver side upper light synced with Right front passenger side lower light will be changed to phase 2 or flash opposite the lights selected above.</p>
0614309	Synchronize, Wln Warning Lights, 1st	<p>SYNCHRONIZE WARNING LIGHTS</p> <p>The sync wires to the following two (2) lights located Front zone warning lights on the apparatus will be connected together to maintain the flash patterns of the lights.</p> <p>The lights located Right front, passenger side upper light, synced with left front, driver side lower light. 4 front lights flash in X pattern will remain on phase 1 or flash together.</p> <p>The lights located Right front, passenger side upper light, synced with left front, driver side lower light will be changed to phase 2 or flash opposite the lights selected above.</p>
0006024	Switch, Second Emergency Light Master, Officer's Side	<p>ADDITIONAL EMERGENCY LIGHT MASTER SWITCH</p> <p>A second master switch, for the emergency lights, will be provided. This switch will be located in the overhead position within easy reach of the officer.</p>
0817254	Lights, Perimeter Cab, Amdor AY-LB-12HW0** LED 4Dr	<p>CAB PERIMETER SCENE LIGHTS</p> <p>There will be four (4) Amdor, Model AY-LB-12HW0**, white LED strip lights provided, one (1) for each cab door that will meet NFPA ground lighting requirements.</p> <p>These lights will be activated automatically when the battery switch is on and the exit doors are opened or by the same means as the body perimeter scene lights.</p>
0769572	Lights, Perimeter Pump House, Amdor AY-LB-12HW020 LED 2lts	<p>PUMP HOUSE PERIMETER LIGHTS</p> <p>There will be two (2) Amdor, Model AY-LB-12HW020, 350 lumens each, 20.00" LED weatherproof strip lights with brackets provided under the pump panel running boards, one (1) each side.</p> <p>If the combination of options in the vehicle does not permit clearance for a 20.00" light, a 12.00" version of the Amdor light will be installed.</p> <p>The lights will be controlled by the same means as the body perimeter lights.</p>
0768765	Lights, Perimeter Body, Amdor AY-LB-12HW020 LED 2lts, Turntable Access	<p>BODY PERIMETER SCENE LIGHTS</p> <p>There will be two (2) Amdor, Model AY-LB-12HW020, 350 lumens, 20.00" long, with white LED's, 12 volt lights provided.</p> <p>The lights will be mounted in the following locations:</p> <ul style="list-style-type: none"> One (1) light under the driver's side turntable access steps One (1) light under the passenger's side turntable access steps <p>The perimeter scene lights will be activated when the battery switch is on and the parking brake is applied.</p>
0896454	Enhanced Software for Perimeter Lts	<p>ENHANCED SOFTWARE FOR PERIMETER LIGHTS</p> <p>All perimeter lights will be deactivated when the parking brake is released unless alternate control is selected.</p> <p>The cab and crew cab perimeter lights will remain on for ten (10) seconds for improved visibility after the doors closed.</p>

0740249	Lights, HiViz FT-MB-18-TR-*-* , 25.2", 1st	<p>12 VOLT LIGHTING</p> <p>There will be two (2) HiViz Model FT-MB-18-TR-*-* , 2.06" high x 25.20" long x 2.45" deep, 9,504 raw lumens 12 volt DC light(s) with a combination of flood and spot optics and Trunnion adjustable mounting bracket(s) installed on the cab Left and Right side of cab over center window on roof.</p> <p>The Painted parts of the light housing and brackets to be white.</p> <p>The light(s) will be activated by a switch at the driver's side switch panel, by a switch at the left side pump panel and by a switch at the passenger's side switch panel.</p> <p>The light(s) may be load managed when the parking brake is applied.</p>
0757717	Lights, HiViz FT-B-65-* LED, 2nd	<p>12 VOLT LIGHTING</p> <p>There will one (1) HiViz Model FT-B-65-* , 18,849.6 effective lumens 2.06" high x 65.23" long x 2.45" deep 12 volt DC light(s) with white LEDs and a combination of spot, and flood optics installed on the apparatus located, centered over RS3 compartment.</p> <p>The Painted parts of the light housing and brackets to be white.</p> <p>The light(s) will be controlled by the same control that has been selected for the passenger's side scene light(s).</p> <p>The light(s) may be load managed when the parking brake is applied.</p>
0757722	Lights, HiViz FT-B-65-* LED, 1st	<p>12 VOLT LIGHTING</p> <p>There will one (1) HiViz Model FT-B-65-* , 18,849.6 effective lumens 2.06" high x 65.23" long x 2.45" deep 12 volt DC light(s) with white LEDs and a combination of spot, and flood optics installed on the apparatus located, centered over LS3 compartment.</p> <p>The Painted parts of the light housing and brackets to be white.</p> <p>The light(s) will be controlled by the same control that has been selected for the driver's side scene light(s).</p> <p>The light(s) may be load managed when the parking brake is applied.</p>
0898617	Lights, Hose Bed, Sides, Dual Strips, 45 Ends	<p>HOSE BED LIGHTS</p> <p>There will be two (2) sets of 12 volt DC light strips with white LEDs provided to illuminate the hose bed and under the turntable per the following:</p> <p>One (1) set of lights installed on the left side of the hose bed.</p> <p>One (1) set of lights installed on the right side of the hose bed.</p> <p>There will be a 16 gauge bright stainless steel overhead cover with 45 degree ends provided over the lights to protect the lights from the hose and the hose from damaging snags.</p> <p>The lights will be activated when the parking brake is applied.</p>
0893125	SP Lights, Rear Scene, HiViz, FT-MB-2.6-*-* 7.90" 2Lts	<p>REAR SCENE LIGHTS</p> <p>There will be two (2) HiViz®, Model FT-MB-2.6-*-* , 4,435.2 effective lumens 2.82" high x 7.9" long x 3.31" deep 12 volt DC light(s) with white LEDs and a combination of flood and spot optics provided on the rear of the apparatus. These lights will be installed 99.00 above the ground.</p> <p>The Painted parts of the light housing and brackets to be white.</p> <p>The lights will be controlled by a switch at the driver's side switch panel, by a switch at the passenger's side switch panel and by a cup switch at the driver's side rear bulkhead.</p> <p>The light(s) may be load managed when the parking brake is applied.</p>
0709438	Lights, Walk Surf, FRP Flood, LED	<p>WALKING SURFACE LIGHT</p> <p>There will be Model FRP, 4.00" round black 12 volt DC LED floodlight(s) with bolt mount provided to illuminate the entire designated walking surface on top of the body.</p> <p>The light(s) will be activated when the body step lights are on.</p>
0553741	Aerial, Platform 100', PUC, Alum Body	
0554269	Body Skirt Height, 18"	

0563186	Tank, Water, 300 Gallon, Poly, Ascendant Tandem, PAL, PAP, Notched, PUC	WATER TANK It will have a capacity of 300 gallons and will be constructed of polypropylene plastic in an L-shape with a notch for hose storage. The joints and seams will be nitrogen welded inside and out. The tank will be baffled in accordance with the current edition of applicable NFPA standards. The baffles will have vent openings at both the top and bottom of each baffle to permit movement of air and water between compartments. The longitudinal partitions will be constructed of .38" polypropylene plastic and extend from the bottom of the tank through the top cover to allow positive welding. The transverse partitions extend from 4" off the bottom to the underside of the top cover. All partitions interlock and will be welded to the tank bottom and sides. The 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. It will be 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 of the dowels will be drilled and tapped (.50" diameter, 13.00" deep) to accommodate lifting eyes. A sump will be provided at the bottom of the water tank. The 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 are provided to properly support bottom of tank. Crossmembers are constructed of steel bar channel or rectangular tubing. Tank "floats" 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 are provided to prevent an empty tank from bouncing excessively while moving vehicle. Tank mounting system is approved by the manufacturer.
0552049	Overflow, 4.00" Water Tank, Poly, Special Routing	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. The overflow will be routed using a section of 4.00" PVC at the hose end and secured to the tank strap on the right side pointing straight to ground so it does not dump water on any chassis component.
0028104	Foam Cell Required	
0090721	SP Drain Plug, Brass IPO Galvanized	TANK DRAIN PLUG The tank drain plug will be brass in place of the standard galvanized.
0003429	Not Required, Direct Tank Fill	
0751577	Hose Bed, Aluminum, Trough Style, 2G Aerial	HOSE BED The hose bed will be fabricated of 0.125" thick 5052-H32 aluminum with a tensile strength of 31,000. The sides of the hose bed will not form any portion of the fender compartments. The hose bed will be located ahead of the ladder turntable between the tank and side body compartments. Hose removal will be at the rear of the body via "chutes" under the turntable on the right side . Each chute will be enclosed with a full height smooth aluminum door. There will be a lift and turn latch and a pneumatic cylinder at the top of the door (if applicable). The hose bed flooring will consist of removable aluminum grating with a top surface that is corrugated to aid in hose aeration. The grating slats will be 0.50" wide x 4.50" long with spacing between the slats for hose ventilation.
0723547	Painted Hose Bed/Cargo Area	The hose bed/cargo area interior will be painted to match the lower body color .
0003491	Hose Bed Capacity 1000' of 5.00", Ascendant, PAP, PAL	Hose capacity will be a minimum of 1000' of 5.00" large diameter hose.
0591017	Hose Restraint, Hose Bed, Aerial, Front Velcro Strap, Top	AERIAL HOSE BED HOSE RESTRAINT The hose in the hose bed will be restrained by one (1) black nylon Velcro® strap at the top of the hose bed. The strap will be installed to the top of the hose bed side sheets.
0515525	Not Required, Running Boards, PUC	RUNNING BOARDS Design of the vehicle will be such that running boards will not be required to reach pre connects or other items on the side of the vehicle.

0735733	Turntable Steps-Morton Cass, Swing Down,LS/RS,Ascend TA,PAL,PAP,Handhd Cut Outs	<p>TURNTABLE STEPS Steps to access the turntable from the left and right side will be provided just behind the compartmentation. No bottom flip step to be provided. The bottom step will have a step height not exceeding 24.00" from the ground to the top surface of the step at any time. All steps will have a height no greater than 14.00" from top surface to top surface. The steps will be a swing-down design, with the stepping area made of Morton Tread-Grip® channel. The stepwell will be lined with bright aluminum treadplate to act as scuffplates. The steps will be connected to the "Do Not Move Truck" indicator. A knurled aluminum handrail will be provided on each side of the access steps. A hand hold will be provided in the left and right side of each set of access steps.</p>
0892656	Lights, Step (6), P25 LED, Each Side	<p>STEP LIGHTS There will be three (3) white LED step lights with chrome housing provided for each set of aerial turntable access steps. 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 step lights will be activated when the parking brake is applied.</p>
0690023	Wall, Rear, Smooth Aluminum	<p>SMOOTH ALUMINUM REAR WALL The rear wall will be smooth aluminum.</p>
0029503	Tow Eyes (2), Painted Lower Job Color, Aerial	<p>TOW EYES Two (2) rear painted tow eyes will be located at the rear of the apparatus and will be mounted directly to the torque box. The inner and outer edges of the tow eyes will be radiused. Each tow eye will be rated for 9000lb and painted to match the lower job color.</p>
0013639	Construction, Compt, Alum, PAP	<p>COMPARTMENTATION Compartmentation will be fabricated of 0.125" 5052 aluminum. The side compartments are an integral assembly with the rear fenders. Fully enclosed rear wheel housings will be provided to prevent rust pockets and for ease of maintenance. Due to the severe loading requirements of this aerial, a method of compartment body support suitable for the intended load will be provided. The backbone of the support system will be the chassis frame rail, which is the strongest component of the chassis and is designed for sustaining maximum loads. A support system will be used which will incorporate a floating substructure by using Neoprene Elastomer isolators to allow the body to remain rigid while the chassis goes through its natural flex. The isolators will have a broad range of proven viability in vehicular applications, be of a fail safe design, and allow for all necessary movement in three (3) transitional and rotational modes. This will result in a 500 lb equipment rating for each lower compartment of the body. The compartmentation in front of the rear axle will include a 3.00" steel support assemblies which are bolted to the chassis frame rails. A steel framework will be mounted to the body above these support assemblies connected to the support assemblies with isolators. There will be one (1) support assembly mounted to each chassis frame rail. The compartmentation behind the rear axle will include 3.00" steel support assemblies which are bolted to the chassis frame rails and extend underneath to the outside edge of the body. The support assembly will be coated to isolate the dissimilar metals before it is bolted to the body. There will be one (1) support assembly mounted to each chassis frame rail. Compartment flooring will be of the sweep out design with the floor higher than the compartment door lip. The compartment door openings are framed by flanging the edges in 1.75" and bending out again 0.75" to form an angle. Drip protection is provided over all door openings by means of bright aluminum extrusion or formed bright aluminum treadplate. Side compartment tops will be covered with bright aluminum treadplate with a 1.00" rolled over edge on the front, rear and outward side. The covers are fabricated in one (1) piece and have the corners welded. A bright aluminum treadplate cover will be provided on the front wall of each side compartment. All screws and bolts which protrude into a compartment will have acorn nuts at the ends to prevent injury. The body design has been fully tested. Proven engineering and test techniques such as finite element analysis, model analysis, stress coating and strain gauging have been performed with special attention given to fatigue life and structural integrity of the compartment body and substructure.</p> <p>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.</p> <p>LOUVERS All body compartments will have a minimum of one (1) set of louvers stamped into a wall to provide the proper airflow inside the compartment and to prevent water from dripping into the compartment. These louvers will be formed into the metal and not added to the compartment as a separate plate.</p>
0008938	Compt, LS F/H F/D, Lap Drs, w/o Chute, 100' PAP	<p>LEFT SIDE COMPARTMENTATION A full height double door compartment ahead of the rear wheels will be 41.75" wide x 64.00" high x 24.25" deep with a door opening of 40.00" wide x 60.50" high. One (1) lift-up door compartment will be located above the fender compartments and over the rear axles. The compartment will be 72.13" wide x 33.25" high x 24.25" deep inside with a door opening of 65.00" wide x 29.62" high. A compartment will be located above the front stabilizer. The compartment will be approximately 24.25" wide x 15.50" high x 24.25" deep with a door opening of approximately 18.50" wide x 12.75" high. A single pan polished stainless steel door, hinged on the rear body side with a flush lift and turn latch will be provided.</p>

0001810	Compt, LS Turntable, F/H F/D, Lap Drs, 100' PAP	A full height double door compartment behind the rear wheels will be 43.75" wide x 49.25" high x 21.25" deep inside with a door opening of 42.00" wide x 45.75" high. One (1) compartment will be located below the turntable with a lift-up door. The compartment will be 39.38" wide x 18.38" high x 21.25" deep inside with a door opening of 35.00" wide x 14.88" high.
0023672	Compt, IPO Stairs, Not Required, LS	
0000539	Compt, RS F/H, Lap Drs, 100' PAP	<p>RIGHT SIDE COMPARTMENTATION</p> <p>A full height double door compartment ahead of the rear wheels will be 41.75" wide x 64.00" high x 24.25" deep inside the lower 29.75" and 12.00" in the upper portion with a door opening of 40.00" wide x 60.50" high.</p> <p>One (1) lift-up door compartment will be located above the fender compartments and over the rear axles. The compartment will be 72.13" wide x 33.25" high x 12.00" deep inside with a door opening of 65.00" wide x 29.62" high.</p> <p>A compartment will be located above the front stabilizer. The compartment will be approximately 24.25" wide x 15.50" high x 12.00" deep with a door opening of approximately 18.50" wide x 12.75" high. A single pan polished stainless steel door, hinged on the rear body side with a flush lift and turn latch will be provided.</p>
0000701	Compt, RS Turntable, F/H, Lap Drs, 100' PAP	A full height double door compartment behind the rear wheels will be 43.75" wide x 49.25" high x 21.25" deep inside the lower 29.75" and 12.00" in the upper portion with a door opening of 42.00" wide x 45.75" high. One (1) compartment below the turntable with a lift-up door will be 39.38" wide x 18.38" high x 12.00" deep inside with a door opening of 35.00" wide x 14.88" high.
0023673	Compt, IPO Stairs, Not Required, RS	
0666673	Doors, Lap with Amdor Rollup Pump Operator's Compt, Aluminum, Side Compts, PUC	<p>SIDE COMPARTMENT DOORS</p> <p>All hinged compartment doors will be lap style with double panel construction and fabricated of .09" 5052H32 aluminum. Doors will be a minimum of 1.50" thick. To provide additional door strength, a "C" section reinforcement will be installed between the outer and interior panels. Doors will be provided with a closed cell rubber gasket around the surface that laps onto the body. A second heavy-duty automotive rubber molding with a hollow core will be installed on the door framing that seals onto the interior panel, to ensure a weather resisting compartment. All compartment doors will have polished stainless steel continuous hinge with a pin diameter of .25", that is bolted or screwed on with stainless steel fasteners. A dielectric substance will be applied to each hinge fastener.</p> <p>All door lock mechanisms will be fully enclosed within the door panels to prevent fouling of the lock in the event equipment inside shifts into the lock area.</p> <p>Doors will be latched with recessed, polished stainless steel "D" ring handles and Eberhard 106 locks.</p> <p>To prevent corrosion caused by dissimilar metals, compartment door handles will not be attached to outer door panel with screws. A rubber gasket will be provided between the "D" ring handle and the door.</p> <p>ROLL-UP DOOR</p> <p>A roll-up door will be installed on the compartment housing the pump operator's panel. The door will be double faced, aluminum construction, painted one (1) color to match the lower portion of the body and manufactured by AMDOR™.</p> <p>Door will be constructed using 1.00" extruded double wall aluminum slats which will feature a flat smooth interior surface to provide maximum protection against equipment hang-up. The slats will be connected with a structural driven ball and socket hinge designed to provide maximum curtain diaphragm strength. Mounting and adjusting the curtain will be done with a clip system that connects the curtain to the balancer drum allowing for easy tension adjustment without tools. The slats will be mounted in reusable slat shoes with positive snap-lock securement.</p> <p>Each slat will incorporate weather tight recessed dual durometer seals. One (1) fin will be designed to locate the seal within the extrusion. The second will serve as a wiping seal which will also allow for compression to prevent water ingress.</p> <p>The door will be mounted in a one (1)-piece aluminum side frame with recessed side seals to minimize seal damage during equipment deployment. All seals including side frames, top gutters and bottom panel are to be manufactured utilizing non-marring materials.</p> <p>Bottom panel flange of roll-up door will be equipped with two (2) cut-outs to allow for easier access with gloved hands.</p> <p>A stainless steel lift bar to be provided for opening the door and located at the bottom of each door with latches on the outer extrusion of the door frame. A ledge to be supplied over lift bar for additional area to aid in closing the door. The lift bar will be located at the bottom of door with striker latches installed at the base of the side frames. Side frame mounted door strikers will include support beneath the stainless steel lift bar to prevent door curtain bounce, improve bottom seal life expectancy and to avoid false door ajar signals.</p> <p>All injection molded roll-up door wear components will be constructed of Type 6 nylon.</p> <p>The roll-up door will have a 3.00" diameter balancer/tensioner drum to assist in lifting the door. The header for the roll-up door assembly will not exceed 4.00".</p> <p>A heavy-duty magnetic switch will be used for control of open compartment door warning lights.</p>

0552955	Blister, Compts in Front of Rear Axle, To Clear Firemaax Suspension	<p>COMPARTMENT BLISTER A blister in the compartment ahead of the rear wheels will be provided to clear the front bracket of the Firemaax suspension. This blister will take away some of the interior area of the compartment.</p>
0084028	Bumper, Rear, 8" Counterweight, w/Treadplate Cover, Ascendant Tandem, PAP, PAL	<p>REAR BUMPER An 8.00" rear bumper will be furnished. The bumper will be constructed of steel framework and will be covered with polished aluminum treadplate. The bumper will be 7.00" deep x 4.50" high and will be spaced away from the body approximately 1.00". It will extend the full width of the body.</p>
0603711	Guard, Drip Pan, S/S, Rollup Door, Aerial	<p>DOOR GUARD There will be four (4) 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 on the left side forward compartment, left side forward compartment, right side forward compartment and right side forward compartment.</p>
0603083	Lights, Compt,Pierce LED,Dual Light Strips,Each Side Dr,Ascend TA,75'HAL,PAP,HDL	<p>COMPARTMENT LIGHTING There will be nine (9) compartment(s) with two (2) white 12 volt DC LED compartment light strips. The dual light strips will be centered vertically along each side of the door framing. There will be two (2) light strips per compartment. The dual light strips will be in all body compartment(s). Any remaining compartments without light strips will have a 6.00" diameter Truck-Lite, Model: 79384 light. Each light will have a number 1076 one filament, two wire bulb. Opening the compartment door will automatically turn the compartment lighting on.</p>
0603420	Shelf Tracks, Painted, Aerial	<p>MOUNTING TRACKS There will be six (6) sets of tracks for mounting shelf(s) in LS1, LS3, LS4, RS1, RS3 and RS4. 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.</p>
0600289	Shelves, Adj, 500 lb Capacity, Full Width/Depth, Predefined Locations, Aerial	<p>ADJUSTABLE SHELVES There will be eight (8) 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 determined at a later date.</p>
0709692	Tray, 215 lb, Tilt/Slide-Out, 30 Deg, Adj, Predefined Locations	<p>SLIDE-OUT/TILT-DOWN TRAY There will be two (2) slide-out trays provided. The bottom of each tray will be constructed of 0.188" thick aluminum painted spatter gray while special aluminum extrusions will be utilized for the tray sides, ends, and tracks. The corners will be welded to form a rigid unit. A spring loaded lock will be provided on each side at the front of the tray. Releasing the locks will allow the tray to slide out approximately two-thirds (2/3) of its length from the stowed position and tip 30 degrees down from horizontal. The tray will be equipped with ball bearing rollers for smooth operation. Rubber padded stops will be provided for the tray in the extended position. The capacity rating of the tray will be a minimum of 215 lb in the extended position. The vertical position of the tray within the compartment will be adjustable. The location(s) will be in RS3 centered between the floor and the ceiling and in LS3 centered between the floor and ceiling.</p>
0603763	Tray, Floor Mounted, Slide-Out, 500lb, 2.00" Sides, 2G Aerial	<p>SLIDE-OUT FLOOR MOUNTED TRAY There will be one (1) 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 250 lb 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 50 lb 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 RS4.</p>

0709346	Toolboard, Slide-out, Alum, .188", Peg Board, Predefined Locations	<p>SLIDE-OUT TOOLBOARD There will be two (2) slide-out toolboard(s) provided. The toolboard will be a minimum of 0.188" 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. A handhold cutout will be provided on the outboard edge of the toolboard. The board will be mounted on an under-mount roller bearing type slide rated at 250 lb with a factor of safety 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 50 lb 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. The slide will be mounted stationary within the compartment. The board will have positive lock in the stowed and extended position. The toolboard(s) will be spatter gray painted and installed in LS1, centered from left to right in the door frame and in RS5, centered from left to right in the door frame.</p>
0004047	Aluminum, .188" Smooth Aluminum, "DA", on Compartment Floor	<p>COMPARTMENT FLOOR SCUFFPLATE Smooth aluminum will be provided on the floor of nine (9) compartments. The scuffplate(s) will be .188" thick with a "DA" finish. The locations will be R-1,2,3,5 and L- 1,2,3,4,5. The edges of the aluminum scuffplate will be completely caulked before installation to prevent corrosion.</p>
0062238	Pegboard, Side Wall Mounted, 3/16" Alum	<p>PEGBOARD There will be 3/16" thick aluminum pegboard installed on the four (4) side wall(s) of compartments RS and LS of LS-1 and RS-5. The pegboard will be mounted using two (2) horizontal tracks. Retainers will be used to mount the pegboard to the tracks. The holes will be .203" diameter, punched 1.00" on center. The pegboard will be spatter gray painted. The pegboard will be mounted Full Height and width within the compartment(s).</p>
0755638	Pegboard, Back Wall Mounted, 3/16" Alum, Full Height Compt	<p>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 will 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: LS4.</p>
0004016	Rub Rail, Aluminum Extruded, Side of Body	<p>RUB RAIL Bottom edge of the side 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.</p>
0802979	Fender Crowns, Rear, S/S,Removable Fender Liner,Aerial,2G,Two Pair,Wider Than St	<p>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 fasteners (screws) and the fender sheet metal to prevent corrosion. These fender crowns must be wide enough to prevent splashing onto the body from the specified tires. 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 wetting will be provided between the body and crown. BODY FENDER LINER A aluminum painted to match the lower body color fender liner will be provided. The liners will be removable to aid in the maintenance of rear suspension components.</p>
0519849	Not Required, Hose, Hard Suction	<p>HARD SUCTION HOSE Hard suction hose will not be required.</p>
0527021	Handrails Located @ Front Body	<p>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 located on the front of the body in positions needed to meet NFPA requirements.</p>

0804426	Compt, Air Bottle, Single, Round, Fender, Bolt-In, Tandem Aerials	<p>SINGLE AIR BOTTLE STORAGE COMPARTMENT</p> <p>A quantity of seven (7) air bottle compartments, 7.75" in diameter x 26.00" deep, will be provided on the left side, two single compartments between the tandem rear wheels, on the right side, two single compartments between the tandem rear wheels, on the left side rearward of the rear wheels, on the right side forward of the rear wheels and on the right side rearward of the rear wheels. A polished stainless steel door with a Southco raised trigger C2 chrome lever latch will be provided to contain the air bottle. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal. Inside the compartment, black rubber matting will be provided.</p>
0806235	Compt, Air Bottle, Single, Round, Fender, Tri Door w/DEF, Bolt-In, Tandem Aerials	<p>SINGLE AIR BOTTLE STORAGE COMPARTMENT</p> <p>A quantity of one (1) air bottle compartment, 7.75" in diameter x 26.00" deep, will be provided on the left side forward of the rear wheels. The triangular door to cover the air bottle opening and the DEF tank access. 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.</p>
0004218	Ladder, 35' Duo-Safety 1200A 2-Sect	<p>EXTENSION LADDER</p> <p>There will be one (1) 35' two (2) section aluminum Duo-Safety Series 1200-A extension ladder(s) provided.</p>
0004222	Ladder, 24' Duo-Safety 900A 2-Section	<p>AERIAL EXTENSION LADDER</p> <p>There will be one (1) 24' two (2) section aluminum Series 900-A extension ladder(s) provided and located in the aerial torque box.</p>
0004232	Ladder, (2) 16' Duo-Safety 875A Roof	<p>ROOF LADDERS</p> <p>There will be two (2) 16' aluminum Duo-Safety Series 875-A roof ladders provided.</p>
0004233	Ladder, 14' Duo-Safety Fresno 701	<p>AERIAL ATTIC EXTENSION LADDER</p> <p>There will be one (1) 14' Fresno aluminum Duo-Safety Series 701 attic extension ladder(s) provided.</p>
0004246	Ladder, 10' Duo-Safety Folding, 585A	<p>AERIAL FOLDING LADDER</p> <p>There will be one (1) 10' aluminum Duo-Safety Series 585-A folding ladder(s) provided and located in the aerial torque box.</p>
0592248	Ladders Stored in Torque Box, Amdor Roll, Ascendant TA, PAL, PAP	<p>GROUND LADDER STORAGE</p> <p>The ground ladders are stored within the torque box and are removable from the rear. Ladders will be enclosed to prevent road dirt and debris from fouling or damaging the ladders. The ladders rest in full length stainless steel slides and are arranged in such a manner that any one ladder can be removed without having to move or remove any other ladder. An AMDOR rollup door will be provided at the rear, double faced, aluminum construction, painted one (1) color to match the lower portion of the body and manufactured by AMDOR manufacturing. A polished stainless steel lift bar to be provided for each roll-up door. The latching mechanism will consist of a full length lift bar lock with latches on the outer extrusion of the door frame. A stainless plate with a two bend flange and a stainless steel hinge will be provided to secure the aerial ladder complement. The plate assembly will be mounted to the bottom of the entrance of the torque box ladder storage area. When the plate is vertical, it will secure the ladders and prevent them from migrating to the rear of the apparatus. When the plate is down and not securing the ladders, the roll-up door can not close, which will activate the "Open Door Indicator Light" within the cab. The roll-up door together with hinge friction will secure the plate in place during driving operations. A door guard will be provided to prevent tools inside the torque box from damaging the roll-up door.</p>
0602108	Lights, Torque Box Ladder Storage, Truck-Lite 40227C 2lts, Incd, Round 4"	<p>LADDER STORAGE LIGHTING</p> <p>There will be two (2) Truck Lite Model 40227C, 4.00" white incandescent lights with Model 40700, grommets used to illuminate the torque box ladder storage compartment. One (1) each side will be located on the side wall of the torque box near the ladder storage entry area. The lights will be activated when the ladder storage compartment door is opened.</p>
0773055	Pike Pole, 8' Fire Hooks Unlimited, Fiberglass, DWHS-8, D-Handle	<p>DRYWALL HOOK(S)</p> <p>Two (2) pike poles, Fire Hooks Unlimited, DWHS-8, 8' pike pole with a fiberglass shaft and D-handle will be provided and located Ladder storage area.</p>
0775907	Pike Pole, 12' DUO Safety, Fiberglass	<p>PIKE POLES</p> <p>There will be two (2) 12' Duo Safety pike pole(s) with fiberglass handles provided. The pike pole (s) will be stored in tubular holders located in the ground ladder storage compartment.</p>

0789564	Pike Pole, 8' DUO Safety, Fiberglass, Aerial	8' PIKE POLE There will be two (2) 8' Duo Safety pike pole(s) with fiberglass handle provided. The pike pole(s) will be stored in tubular holders located in the ground ladder storage compartment.
0789566	Pike Pole, 6' DUO Safety, Fiberglass, Aerial	6' PIKE POLE There will be one (1) 6' Duo Safety pike pole(s) with fiberglass handle provided. The pike pole(s) will be stored in tubular holders located in the ground ladder storage compartment.
0759174	Pike Pole, 4' Fire Hooks Unlimited, New York Roof Hook, RH-4, Pry End	4' PIKE POLE There will be two (2) Fire Hooks Unlimited Model RH-4, 4' long roof hook with a steel handle and pry end provided.
0068135	Trash Hook, 10' Fire Hooks Unlimited, TRH-10, w/D Handle	ADDITIONAL PIKE POLE(S) There will be three (3) 10' long trash hook(s), Fire Hooks Unlimited Model TRH-10, with fiberglass shaft and "D" handle end provided.
0770464	Trough, S/S, Torque Box/Ladder Storage, D-Handled Pike Pole/Trash Hooks	PIKE POLE STORAGE IN TORQUE BOX/LADDER STORAGE There will be a total of three (3) stainless steel trough(s) provided in the torque box/ladder storage area. The trough(s) will accommodate a Fire Hooks Unlimited 8' arson trash hook with D handle.
0770577	Pike Pole Tubes, in Torque Box/Ladder Storage, Aluminum	PIKE POLE STORAGE IN TORQUE BOX/LADDER STORAGE There will be aluminum tubing provided in the torque box/ladder storage area for a total of six (6) pike poles. If the head of a pike pole can come into contact with a painted surface, a stainless steel scuffplate will be provided.
0024388	No Steps Required, Front Of Body	

0553873

Pump Operators Panel & Module,
Aluminum, Control Zone,
Ascendant/PAL/PAP PUC

PUC MODULE

The pump module 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 aluminum tubing, angles and channels which supports both the plumbing and the side running boards.

The pump module will be mounted on the chassis frame rails with standard body angles in four places to allow for chassis frame twist.

Pump module, plumbing and gauge panels will be removable from the chassis in a single assembly.

PUMP CONTROL PANELS (Left Side Control)

Pump controls and gauges will be located midship at the left side of the apparatus and properly identified.

The main pump operator's control panel will be completely enclosed and located in the forward section of the body compartment. There will be a roll up door to protect against road debris and weather elements. This roll-up door compartment will include a drip pan below the roll of the door.

The pump operator's panels will be no more than 31.00" wide, and made in four (4) sections with the center section easily removable with simple hand tools. For the safety of the pump operator, there will be no discharge outlets or pump inlets located on the main pump operators panel.

Layout of the pump control panel will be ergonomically efficient and systematically organized.

The upper section will contain the master gauges. This section will be angled down for easy visibility. The center section will contain the pump controls aligned in two horizontal rows. The pressure control device, engine monitoring gauges, electrical switches, and foam controls (if applicable) will be located on or adjacent to the center panel, on the side walls for easy operation and visibility. The lower section will contain the outlet drains.

Manual controls will be easy moving 8" long lever style controls that operate in a vertical, up and down swing motion. These handles will have a 2.25" diameter knob and be able to lock in place to prevent valve creep under any pressure. Bright finish bezels will encompass the opening, be securely mounted to the pump operator's panel, and will incorporate the discharge gauge bezel. Bezels will be bolted to the panel for easy removal and gauge service. The driver's side discharges will be controlled directly at the valve. There will be no push-pull style control handles. Identification tags for the discharge controls will be recessed within the same bezel. The discharge identification tags will be color coded, with each discharge having its own unique color. All remaining identification tags will be mounted on the pump panel in chrome-plated bezels. All discharge outlets will be color coded and labeled to correspond with the discharge identification tag.

The pump panels for the discharge and intake ports will be located ahead of the pump module with no side discharge or intake higher than the frame rail. The pump panels will be easily removable with simple hand tools.

A recessed cargo area will be provided at the front of the body, ahead of the water tank above the plumbing.

PASSENGER SIDE PUC MODULE COMPARTMENT

A full height compartment with a roll-up door ahead of the front stabilizer will be provided, as convenient large storage compartment for often used items for the crew. The interior dimensions of this compartment will be 30.25" wide x 52.00" high x 25.13" deep. The depth of the compartment will be calculated with the compartment door closed. The compartment interior will be fully open from the compartment ceiling to the compartment floor and designed so that no permanent dividers are required between the upper and lower sections. The clear door opening of this compartment will be 28.00" wide x 52.00 high.

Closing of the door will not require releasing, unlocking, or unlatching any mechanism and will easily be accomplished with one hand.

This roll-up door compartment will include a drip pan below the roll of the door.



0520016

Not Required, Pumhouse Structure,
PUC

PUMP

Pump will be a Pierce, low profile, 2000 gpm single stage midship mounted centrifugal type, mounted below the cab. The pump will have a 15 percent reserve capacity to allow for extended time between pump rebuild. To ensure efficient pump/vehicle design the capacity to weight ratio will not be less than 1.5:1.

The pump casing will consist of three (3) discharge outlets, one (1) to each side in line with the impeller and one (1) to the rear. The pump casing will incorporate two (2) water strippers to maintain radial balance.

Pump will be the Class A type.

Pump will be certified to deliver the percentage of rated discharge from draft at pressure indicated below:

100 percent of rated capacity at 150 psi net pump pressure

70 percent of rated capacity at 200 psi net pump pressure

50 percent of rated capacity at 250 psi net pump pressure

The pump will have the capacity to deliver the percentage of rated discharge from a pressurized source as indicated below:

135 percent of rated capacity at 100 psi net pump pressure from a 5 psi source

Pump body will be fine-grained gray iron. Pump will incorporate a heater/cooling jacket integral to the pump housing.

The impeller will be high strength vacuum cast bronze alloy accurately machine balanced and splined to a ten (10) spline stainless steel pump shaft for precision fit, exceptional durability, and efficiency. Double replaceable reverse flow labyrinth type bronze wear ring design will help to minimize end thrust. The impeller will be a twisted vane design to create higher lift. No keyed shafts will be acceptable.

The pump will include o-ring gaskets throughout the pump.

Deep groove radial type oversize ball bearings will be provided. The bearings will be protected at the openings from road dirt and water with an oil seal and water slinger.

The pump will have a flat, patterned area on the top of the pump intake wye to allow standing for plumbing maintenance. The main inlet manifold will be 6.00" in diameter and will have a low profile design to facilitate low crosslays and high flows.

For ease of service, the pump housing, intake wye, impeller, mechanical seal, and gear case will be accessible from above the chassis frame by tilting the cab. Removal of the main inlet wyes will provide access to the impeller, mechanical seal, and wear ring.

The tank to pump line and the primary discharge line will be the only piping required to be removed for overhaul.

For ease of service and overhaul there will be no piping or manifolding located directly over the pump.

PUMP MOUNTING

Pump will be mounted to the chassis frame rails directly below the crew cab, to minimize wheelbase and facilitate service, using rubber isolators in a modified V pattern that include one (1) central mounted isolator located between the frame rails and one (1) on each side outside the frame rails. The mounting will allow chassis frame rails to flex independently without damage to the fire pump. Each isolator will be 2.55" in total outside diameter and will be rated at 490 lb. The pump will be completely accessible by tilting the cab with no piping located directly above the pump.

MECHANICAL SEALS

Silicon carbide mechanical seals will be provided. The seals will be spring loaded and self-adjusting. The seals will have a minimum thermal conductivity of 126 W/m*K to run cooler. Seals will have a minimum hardness of 2800 kg/mm² to be more resistant to wear, and have thermal expansion characteristics of no more than 4.0 X106mm/mm*K to be more resistant to thermal shock.

PUMP GEAR CASE

The integrated pump transmission gear case will use a pressure-lubricated system to cool, lubricate, and filter the oil. The gear case will be constructed of lightweight aluminum, and impregnated with resin in accordance to MIL Spec MIL-I-17563. A sight glass, accessible by tilting the cab, will be provided for easy fluid level checks.

The gear case will consist of three (3) gears to drive the pump.

CLUTCH

There will be a heavy-duty hydraulic clutch mounted directly to the integrated pump transmission to engage and disengage the pump without gear clash. The clutch will be a multiple disc design for maximum torque. The clutch will be fully self-adjusting to provide automatic wear compensation, and consistent torque throughout the life of the clutch. Positive engagement and disengagement will be provided through a high efficient and dependable hydraulic system to assure superior performance.

LOW PRESSURE/HIGH TEMPERATURE LIGHTS

Lights will be provided to indicate when a high temperature or low pressure situation occurs. Lights will be provided next to the master gauges at the pump panel as well as on the control panel in the cab. A pair of lights will be provided in each location. One (1) light will be provided to indicate high temperature. The second light will be provided to indicate a low pressure. All lights will be labeled accordingly.

0721196	Pumping Mode, Pump and Roll/Stationary, Basic, MUX, PUC	<p>PUMPING MODE</p> <p>Pump will provide for both pump and roll mode and stationary pumping mode. Stationary pumping mode will be accomplished by stopping the vehicle, setting the parking brake and engaging the water pump switch on the cab switch panel. The transmission will shift to "Neutral" range automatically when the parking brake is set. The "OK to Stationary Pump" indicator will also illuminate when the parking brake is set. If the vehicle is equipped with a suitable Husky foam system or Hercules CAFS system, these systems will be engaged from the cab switch panel as well. pump and roll mode will be accomplished by the use of the main pump and will not require the use of a secondary pump. pump and roll mode will use the same operation sequence as stationary pumping mode with a few additional steps. After the vehicle is setup for stationary pumping, the operator will leave the cab and setup the pump panel to discharge at the desired outlet(s). Upon returning to the cab, the operator will disengage the parking brake. An "OK to pump and roll" indicator will illuminate on the cab switch panel. First gear on the transmission gear selector will be selected by the operator for pump and roll operations. The operator as needed will apply the foot throttle. pump and roll mode will be maintained unless the transmission shifts out of first gear. Stopping either stationary pumping mode or pump and roll mode will be accomplished by pressing the "Water Pump" switch down to disengage the pump. A pump pressure reading will be displayed in view of the driver.</p>
0515829	Pump Shift, Sure-Shift	<p>PUMP SHIFT</p> <p>Pump will be engaged in not more than two steps, by simply setting the parking brake, which will automatically put the transmission into neutral, and activating a rocker switch in the cab. Switches in the cab will also allow for water, foam, or CAFS if equipped, and activate the appropriate system to preset parameters. The engagement will provide simple two-step operation, enhance reliability, and completely eliminate gear clash. The shift will include the indicator lights as mandated by NFPA. A direct override switch will be located behind a door in the pump operator's panel. The switch will automatically disengage when the door is closed. As the parking brake is applied, the pump panel throttle will be activated and deactivate the chassis foot throttle for stationary operation.</p>
0515833	Transmission Lock-up, Not Req'd, Park to Neutral, Pump, PUC	<p>TRANSMISSION LOCK UP</p> <p>Transmission lock up is not required as transmission will automatically shift to neutral as soon as the parking brake is set.</p>
0515835	Auxiliary Cooling System, PUC	<p>AUXILIARY COOLING SYSTEM</p> <p>A supplementary heat exchange cooling system will be provided to allow the use of water from the discharge side of the pump for cooling the engine water. A water-to-coolant heat exchanger will be used.</p>
0014486	Not Required, Transfer Valve, Single Stage Pump	
0746501	Valve, Relief Intake, Elkhart	<p>INTAKE RELIEF VALVE - PUMP</p> <p>One (1) Elkhart Style 40 relief valve(s) will be installed on the suction side of the pump preset at 125 psig.</p> <p>The relief valve(s) will have a working range of 75 psi to 250 psi.</p> <p>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.</p> <p>The relief valve pressure control will be located behind the right side pump panel with a stainless steel access door.</p>

PIERCE PRESSURE CONTROLLER

A Pierce electronic pressure controller will be provided.

A pressure transducer will be installed in the discharge side of the water pump. The transducer continuously monitors pump pressure sending a signal to the electronic pressure controller.

The pressure controller can be used in two (2) modes of operation, RPM mode and pressure modes. The controller will be programmed to turn on/default to **No Mode/Default Press Setting** mode.

In the RPM mode, the controller can be activated after vehicle parking brake has been set. When in this mode, the controller will maintain the set engine speed, regardless of engine load (within engine operation capabilities).

In the pressure mode, the controller can be activated after vehicle parking brake has been set. When in this mode, the controller will automatically maintain the discharge pressure set by the operator (within the discharge capabilities of the pump and water supply) regardless of flow.

A 2.00" diameter throttle control knob with no mechanical stops, a serrated grip, and a red idle push button in the center will be a integrated/part of the pressure controller. The throttle control knob will be programmed for **Clockwise** rotation to increase engine speed.

Individual LED indicators for ok to pump, throttle ready, pressure mode and rpm mode will be located on the pressure controller for easy viewing.

A pump cavitation protection feature will also be provided which will return the engine to idle should the pump cavitate. Cavitation is sensed by the combination of pump pressure below 30 psi and engine speed above 2000 rpm for more than five (5) seconds.

Other safety features include recognition of low water and no water conditions with an automatic programmed response and a push button to return the engine to idle.

The pressure controller LCD screen will be 4.20" in size with a minimum brightness of 750 nits.

The LCD screen and LED intensity will automatically adjust for day and nighttime operation. The LCD screen intensity can also be manually adjusted if needed.

The following information will be provided/displayed on the LCD screen:

Engine RPM

Check engine and stop engine warning indicators

Engine oil pressure

Engine coolant temperature

Water pump transmission temperature

Fuel Level

Water tank level

Battery voltage

Operating mode (RPM or pressure)

Pressure or RPM setting

On screen messaging show diagnostic and warning messages as they occur. It will show apparatus information, stored data, and program options when selected by the operator. It will monitor inputs outputs and support audible and visual warning alarms for the following conditions:

High battery voltage

Low battery voltage/engine off

Low battery voltage/engine running

High water pump temperature

Low fuel

Low engine oil pressure

High engine coolant temperature

Water tank out of water (visual alarm only)

No engine response (visual alarm only)

The pressure controller will store the accumulated operating hours for the pump and engine.

These items are to be displayed within the pressure controller menu.

The pressure controller will include a USB port on the back of the controller for easy software upgrades if needed.

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 applicable NFPA standards.

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. The control will have a three position switch for automatic, off or test. In the sentry mode (automatic) the primer will sense when the pump losses discharge pressure and start the pump primer. The primer will automatically stop once the pump has pressure.


A vacuum gauge will indicate the vertical elevation of water in feet during priming operation.

PRIMER - SPECIAL INSTRUCTIONS

Primer body to be located behind PS pump panel removable section for ease of maintenance..

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.

0602496	Plumbing, Stainless Steel and Hose, Single Stage Pump, PUC	<p>PLUMBING, STAINLESS STEEL AND HOSE</p> <p>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.</p> <p>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.</p> <p>Plumbing manifold bodies will be ductile cast iron or stainless steel.</p> <p>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.</p> <p>All water carrying gauge lines will be of flexible polypropylene tubing.</p> <p>All piping, hose and fittings will have a minimum of a 500 PSI hydrodynamic pressure rating.</p>
0795135	Plumbing, Stainless Steel, w/Foam System	<p>FOAM SYSTEM PLUMBING</p> <p>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.</p>
0517852	Inlets, 6.00" - 1250-2000 GPM, Pierce PUC Pump	<p>MAIN PUMP INLETS</p> <p>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.</p> <p>Main pump inlets will not be located on the main operator's panel and will maintain a low connection height by terminating below the top of the chassis frame rail.</p>
0014650	Pump Suction Tube(s), Short, All	<p>SHORT SUCTION TUBE(S)</p> <p>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.</p>
0004646	Cap, Main Pump Inlet, Long Handle, NST, VLH	<p>MAIN PUMP INLET CAP</p> <p>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.</p>
		
0084610	Valves, Akron 8000 series- All	<p>VALVES</p> <p>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.</p> <p>Valves will have a ten (10) year warranty.</p>
0520002	Valve, Inlet(s) Recessed, Side Cntrl, PUC	The location of the valve for the one (1) inlet will be recessed behind the pump panel.
0004700	Control, Inlet, at Valve	<p>INLET CONTROL</p> <p>The side auxiliary inlet(s) will incorporate a quarter-turn ball valve with the control located at the inlet valve. The valve operating mechanism will indicate the position of the valve.</p>
0004660	Inlet (1), Left Side, 2.50"	<p>LEFT SIDE INLET</p> <p>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.</p> <p>The auxiliary inlet will be provided with a strainer, chrome swivel and plug.</p>
0029147	Not Required, Inlet, Right Side	
0521137	Anode, Zinc, Pair, Pump Inlets, PUC	<p>ANODE, INLET</p> <p>A pair of sacrificial zinc anodes will be provided in the water pump inlets to protect the pump from corrosion.</p>

0092569	No Rear Inlet (Large Dia) Requested	
0064116	No Rear Inlet Actuation Required	
0092696	Not Required, Cap, Rear Inlet	
0009648	No Rear Intake Relief Valve Required on Rear Inlet	
0092568	No Rear Auxiliary Inlet Requested	
0723049	Valve, .75" Bleeder, Aux. Side Inlet, "T" Swing Handle	<p>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 "T" 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.</p>
0687424	Tank to Pump, (1) 3.00" Valve, 4.00" Plumbing, 3.00" Tank Outlet, Aerial PUC	<p>TANK TO PUMP The booster tank will have a 3.00" outlet and be connected to the intake side of the pump with heavy duty 4.00" piping and a quarter turn 3.00" full flow line valve with the control located at the operator's panel. A rubber coupling will be included in this line to prevent damage from vibration or chassis flexing. A check valve will be provided in the tank to pump supply line to prevent the possibility of "back filling" the water tank.</p>
0595508	Outlet, Tank Fill, 1.50", PUC	<p>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.</p>
0766941	Control, Outlets, Swing Handle, Elec Right Outlets Akron 9335 w/Press Disp, PUC	<p>DISCHARGE OUTLET CONTROLS The right side discharges will incorporate a quarter-turn ball valve and be controlled by Akron 9335 electric valve controllers provided on the pump operators panel. The electric controls must be of a true position feedback design, requiring no clutches in the motor or current limiting. The units must be completely sealed with momentary open, close as well and an optional one touch full open feature to operate their corresponding valve actuator. The controllers will provide position indication on a full color, backlit LCD display. They will have manual adjustment of the brightness as well as an auto dimming option. In addition to the valve controls, the electric valve controllers will include a pressure display. All other outlets will have manual swing handles that operate in a vertical up and down motion. These handles will be able to lock in place to prevent valve creep under pressure.</p>
0516755	Outlet, Left Side, 2.50" (2), PUC	<p>LEFT SIDE DISCHARGE OUTLETS There will be two (2) discharges with a 2.50" valves on the left side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter. Discharges will be located below the cab, and will be no higher than the top of the chassis frame rail. Discharges will not be located on the pump operator's panel. Lever controls will be provided at the valve.</p>
0055095	Not Required, Elbow, Left Side Outlets, 2.50"	
0092570	Not Required, Outlets, Left Side Additional	
0035094	Not Required, Elbow, Left Side Outlets, Additional	

0766761	Outlet, Right Side, 2.50", (1), Electric Akron 9335 Controller, PUC	<p>RIGHT SIDE DISCHARGE OUTLETS One (1) discharge outlet with a 2.50" valve will be provided on the right side of the apparatus, terminating with a 2.50" MNST adapter. The discharge(s) will be located below the crew cab and will be no higher than the top of the chassis frame rail. There will be Akron 9335 electric valve controller(s) provided on the pump operators panel. The electric control(s) must be of a true position feedback design, requiring no clutches in the motor or current limiting. The unit(s) must be completely sealed with momentary open, close as well and an optional one touch full open feature to operate the valve actuator. The controller(s) will provide position indication on a full color, backlit LCD display. They will have manual adjustment of the brightness as well as an auto dimming option. In addition to valve position, each controller will include a pressure display.</p>
0021134	Not Required, Elbow, Right Side Outlets, 2.50"	
0092571	Not Required, Outlets, Right Side Additional	
0089584	Not Required, Elbow, Right Side Outlets, Additional	
0818640	Outlet, Large Diameter, Right Side, Akron Valve, PUC	<p>LARGE DIAMETER DISCHARGE OUTLET There will be an Akron 8800 4.00" flat ball valve with 4.00" plumbing terminating with a 4.00" MNST chrome adapter on the right side pump panel. The valve will be controlled with a(n) Akron 9335 with pressure located at the pump operator's panel.</p>
0527969	Cap, Large Dia Outlet, 4.00", IPO Elbow	<p>LARGE DIAMETER OUTLET CAP The large diameter outlet will have a National Standard hose thread adapter with a 4.00" rocker lug chrome plated cap and chain. The cap will be the Pierce VLH, which incorporates a patent pending thread design to automatically relieve stored pressure in the line when disconnected.</p>
0649939	Outlet, Front, 1.50" w/2" Plumbing	<p>FRONT DISCHARGE OUTLET There will be one (1) 1.50" discharge outlet piped to the front of the apparatus and located in the center bumper tray. 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.</p>
0092575	Not Required, Outlet, Rear	
0045099	Not Required, Elbow, Rear Outlets	
0092574	Not Required, Outlet, Rear, Additional	
0085695	Not Required, Elbow, Rear Outlets, Large, Additional	
0092573	Not Required, Outlet, Hose Bed/Running Board Tray	
0752097	Caps/Plugs for 1.00" to 3.00" Discharges/Inlets, Chain	<p>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.</p>

0723042	Valve, 0.75" Bleeder, Discharges, "T" Swing Handle	<p>OUTLET BLEEDER VALVE</p> <p>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.</p> <p>The valves will be located behind the panel with a T swing style handle control extended to the outside of the side pump panel.</p> <p>The handles will be chrome plated and provide a visual indication of valve position.</p> <p>The T swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage.</p> <p>Bleeders will be located at the bottom of the pump panel. They will be properly labeled identifying the discharge they are plumbed in to.</p> <p>The water discharged by the bleeders will be routed below the chassis frame rails.</p>
0029106	Not Required, Deluge Outlet	
0029302	No Monitor Requested	
0029304	No Nozzle Req'd	
0029107	No Deluge Mount	
0826319	Waterway Outlet & Control, Akron Valve, PUC	<p>AERIAL WATERWAY OUTLET</p> <p>The aerial waterway will be plumbed from the water pump to the aerial device waterway with 4.00" pipe and a 4.00" Akron valve.</p> <p>The valve will be controlled with a Pierce large handwheel with indicator located at the pump operator's panel.</p>
0739945	Crosslay Module, Full Width, Boom Compartment, Roll Up Doors, Aerial, PUC	<p>CROSSLAY MODULE</p> <p>The crosslay module will be full width of the rear body.</p> <p>The crosslay module will include a boom support compartment. The interior of the boom support compartment will be a DA finish.</p> <p>The forward, upper corners of the module will have full body corners.</p> <p>The crosslay module will be manufactured for installation of roll up doors on each side to include the boom support compartment with on common roll up door.</p>
0749510	Doors, Crosslay, Roll-up Gortite, Each End, Full Height, PUC	<p>ROLLUP DOOR, CROSSLAY ENDS</p> <p>The compartment doors will be rollup style, double faced aluminum construction painting one (1) color to match the lower portion of the body and manufactured by Gortite®.</p> <p>Lath sections will be an interlocking rib design and will be individually replaceable without complete disassembly of door.</p> <p>Between each slat at the pivoting joint will be a PVC inner seal to prevent metal to metal contact and prevent dirt or moisture from entering the compartments. Seals will allow door to operate in extreme temperatures ranging from 180 to -40 degrees Fahrenheit. Side, top and bottom seals will be provided to resist ingress of dirt and weather and be made of Santoprene.</p> <p>All hinges, barrel clips and end pieces will be nylon 66. All nylon components will withstand temperatures from 300 to -40 degrees Fahrenheit. Hardened plastic will not be acceptable.</p> <p>A polished stainless steel lift bar to be provided for each roll-up door. Lift bar will be located at the bottom of door and have latches on the outer extrusion of the doors frame. A ledge will be supplied over lift bar for additional area to aid in closing the door.</p> <p>Doors will be constructed from an aluminum box section. The exterior surface of each slat will be flat. The interior surfaces will be concave to provide strength and prevent loose equipment from jamming the door from inside.</p> <p>To conserve space in the compartments, the spring roller assembly will not exceed 3.00" in diameter. A garage style roll door will not be acceptable.</p> <p>The header for the rollup door assembly will not exceed 4.00".</p> <p>A heavy-duty magnetic switch will be used for control of open compartment door warning lights.</p> <p>The crosslays will not have a drip pan below the roll of the door.</p>

0750916	Crosslays, (2) 1.50", W/Poly Trays, PUC	<p>LOWER CROSSLAY There will be two (2) lower crosslays provided.</p> <p>1.50" Crosslay There will be two (2) 1.50" crosslays plumbed with 2.00" welded or formed schedule 10 304L stainless steel pipe. The crosslays will be low mounted with the bottom of both crosslay trays no more than 11.00" above the frame rails for simple, safe reloading and deployment. There will be a 1.50" National Standard hose thread 90-degree swivel provided in each hose bed, so that the hose may be removed from either side of apparatus. The swivel will be as far outbound as possible for ease of changing hose. Each crosslay will be gated with a 2.00" quarter turn ball valve with the controls located at the pump operator's panel. Each hose bed will be capable of carrying 200' of 1.75" double jacket hose.</p> <p>Crosslay Hose Tray A removable tray will be provided for each crosslay hose bed. The crosslay tray will be constructed of black poly to provide a lightweight sturdy tray. Two (2) hand holes will be in the floor and additional hand holes will be provided in the sides for easy removal and installation from the compartment. The floor of the trays will be perforated to allow for drainage and hose drying. Trays will be held in place by a mechanical spring-loaded stainless-steel latch that automatically deploys upon loading the trays to hold the trays in place during transit.</p>
0750900	Crosslay, (1) 2.50", W/Poly Trays, PUC	<p>UPPER CROSSLAY There will be one (1) upper crosslay provided.</p> <p>2.50" Crosslay There will be one (1) 2.50" crosslay plumbed with 2.50" welded or formed schedule 10 304L stainless steel pipe. There will be a 2.50" National Standard hose thread 90-degree swivel provided in each hose bed, so that hose may be removed from either side of apparatus. The swivel will be as far outbound as possible for ease of changing hose. Each crosslay will be gated with a 2.50" quarter turn ball valve with the controls located at the pump operator's panel. Each hose bed will be capable of carrying 200' of 2.50" double jacket hose.</p> <p>Crosslay Hose Trays A removable tray will be provided for each crosslay hose bed. The crosslay tray will be constructed of black poly to provide a lightweight sturdy tray. Two (2) hand holes will be in the floor and additional hand holes will be provided in the sides for easy removal and installation from the compartment. The floor of the trays will be perforated to allow for drainage and hose drying. Trays will be held in place by a mechanical spring-loaded stainless-steel latch that automatically deploys upon loading the trays to hold the trays in place during transit.</p>
0822465	Foam Sys, Husky 12, Single Agent, PUC NG, PTO, Multi Select Feature	<p>FOAM PROPORTIONER A foam proportioning system will be provided that is an on demand, automatic proportioning, single point, direct injection system suitable for all types of Class A and B foam concentrates, including the high viscosity (6000 cps), alcohol resistant Class B foams. Operation will be based on direct measurement of water flow, and remain consistent within the specified flows and pressures. The system will automatically balance and proportion foam solution at rates from .1 percent to 9.9 percent regardless of variations in water pressure and flow, up to the maximum rated capacity of the foam concentrate pump. The design of the system will allow operation from draft, hydrant, or relay operation. This will provide a versatile system to meet the demands at a fire scene.</p> <p>System Capacity The system will have the ability to deliver the following minimum foam solution flow rates that meet or exceed NFPA requirements at a pump rating of 250 psi. 200 gpm @ 6 percent 400 gpm @ 3 percent 1200 gpm @ 1 percent The foam concentrate setting may be adjusted in 0.1 percent increments from 0.1 percent to 9.9 percent. Typical settings are 0.3 percent, 0.5 percent and 1.0 percent (The maximum capacity will be limited to the plumbing and water pump capacity).</p> <p>Control System The system will be equipped with a digital electronic control display located on the pump operators panel. Push button controls will be integrated into the panel to turn the system on/off, control the foam percentage, direct which foam to use on a multi-tank system, and to set the operation modes (automatic, manual, draft, calibration, or flush). The percent of injection will have presets for Class A or Class B foam. These presets can be changed at the fire department as desired. The percent of injection will be able to be easily changed at the scene to adjust to changing demands. In order to minimize the use of abbreviations and interpretations, system information will be displayed on the panel by way of 0.50" tall LEDs that total 14 characters (two (2) lines of seven (7) each). System on and foam pump on indicator lights will also be included. Information displayed will include mode of operation (automatic, manual, draft, calibration, or flush), foam supply selected (Class A or Class B), water total, foam total, foam percentage, remaining gallons, and time remaining. The control display will direct a microprocessor, which receives input from the systems water flow meter while also monitoring the position of the foam concentrate pump. The microprocessor will compare the values of the water flow versus the position/rate of the foam pump, to ensure the proportion rate is accurate. One (1) check valve will be installed in the plumbing to prevent foam from contaminating the water pump.</p> <p>Low Level, Foam Tank The control head will display a warning message when the foam tank in use is below a quarter tank.</p> <p>Hydraulic Drive System The foam concentrate pump will be powered by a hydraulic drive system, which is automatically activated, whenever the vehicle water pump is engaged. A large parasitic electric load used to</p>

power the foam pump can cause an overload of the chassis electrical system. Hydraulic oil cooler will be provided to automatically prevent overheating of the hydraulic oil, which is detrimental to system components. The oil/water cooler will be designed to allow continuous system operation without allowing hydraulic oil temperature to exceed the oil specifications.

The hydraulic oil reservoir will be of four (4) gallons minimum capacity and will also be of sufficient size to minimize foaming and be located to facilitate checking oil level or adding oil without spillage or the need to remove access panels.

Foam Concentrate Pump

The foam concentrate pump will be of positive displacement, self-priming; linear actuated design, driven by the hydraulic motor. The pump will be constructed of brass body; chrome plated stainless steel shaft, with a stainless steel piston. In order to increase longevity of the pump, no aluminum will be present in its construction.

A relief system will be provided which is designed to protect the drive system components and prevent over pressuring the foam concentrate pump.

The foam concentrate pump will have minimum capacity for 12 gpm with all types of foam concentrates with a viscosity at or below 6000 cps including protein, fluoroprotein, AFFF, FFFP, or AR-AFFF. The system will deliver only the amount of foam concentrate flow required, without recirculating foam back to the storage tank. Recirculating foam concentrate back to the storage tank can cause agitation and premature foaming of the concentrate, which can result in system failure. The foam concentrate pump will be self-priming and have the ability to draw foam concentrate from external supplies such as drums or pails.

External Foam Concentrate Connection

An external foam pick-up will be provided to enable use of a foam agent that is not stored on the vehicle. The external foam pick-up will be designed to allow continued operation after the on-board foam tank is empty. The external foam pick-up will be designed to allow use with training foam or colored water for training purposes.

Panel Mounted Strainer/External Pick-Up Connection

A bronze body strainer/connector unit will be provided. The unit will be mounted to the pump panel. The external foam pick-up will be one (1) 1.00" male connection with chrome-plated cap integrated to a 2.00" strainer cleanout cap. A check valve will be installed in the pick-up portion of the cleanout cap. A basket style stainless steel screen will be installed in the body of the strainer/connector unit. Removal of the 2.00" cleanout cap will be all that is required to gain access to and remove the stainless steel basket screen. The strainer/connector unit will be ahead of the foam concentrate pump inlet port to insure that all agent reaching the foam pump has been strained.

Pick-Up Hose

A 1.00" flexible hose with an end for insertion into foam containers will be provided. The hose will be supplied with a 1.00" female swivel NST thread swivel connector. The hose will be shipped loose.

Discharges

The foam system will be plumbed to the **center of front bumper, lower center crosslay, upper center crosslay, aerial foam bypass, left rear outlet inboard and right side outlet PUC (additional right side outlet).**

System Electrical Load

The foam proportioning will not impose an electrical load on the vehicle electrical system any greater than five (5) amps at 12VDC.

Foam Supply Valve

An electric valve will be used for the foam supply valve. The foam supply valve will be controlled at the foam system control head for ease of operation. The supply valve will be electric, remote controlled, to eliminate air pockets in the foam tank supply hose.

Maintenance Message

A message will be displayed on the control head to advise when system maintenance needs to be performed. The message will display interval for cleaning the foam strainer, cleaning for the water strainers, and changing the hydraulic oil.

Flush System

The system will be designed such that a flush mode will be provided to allow the system to flush all foam concentrate with clear water. The flush circuit control logic will ensure the foam tank supply valve is closed prior to opening the flush valve. The flush valve will be operated at the foam system control head for ease of operation. The valve will be electrically controlled and located as close to the foam tank supply valve as possible. A manual flush drain valve will be labeled and conveniently located.

0012126 Not Required, CAF Compressor

0552481 Refill, Foam Tank, Single Tank, Husky 12, Class A Foam

SINGLE FOAM TANK REFILL

The foam system's proportioning pump will be used to fill the Class A foam tank. This will allow use of the auxiliary foam pick-up to pump the foam from pails or a drum on the ground into the foam tank. A foam shut-off switch will be installed in the fill dome of the tank to shut the system down when the tank is full. The fill operation will be controlled by a mode in the foam system controller stating TANK FILL. While the proportioner pump is filling the tank, the controller will display FILL TANK. When the tank is full, as determined by the float switch in the tank dome, the pump will stop and the controller will display TANK FULL.

0031896 Demonstration, Foam System, Dealer Provided

0540224	Foam Cell, 25 Gallon, Reduce Water, PUC	<p>FOAM TANK The foam tank will be an integral portion of the polypropylene water tank. The cell will have a capacity of 25 gallons of foam with the intended use of Class A foam. The foam cell will reduce the capacity of the water tank. The foam cell will have a screen in the fill dome and a breather in the lid.</p>
0505016	Drain, 1.00", Foam Tank #1, Husky 12 Foam System	<p>FOAM TANK DRAIN A system of 1.00" foam tank drains will be provided, integrated into the foam systems strainer and tank to foam pump valve management system. The tank to pump hoses running from the tank(s) to the panel mounted strainer will 1.00" diameter. The foam system controller will have a mode that allows for a given foam valve to be opened at will. Flow of foam from the tank valve to the strainer will be usable as a tank drain mode. An adaptor will be supplied, that allows the 1.00" foam intake screen to assembly to be used as a drain outlet. The standard supplied 1.00" foam pick up hose will be attached to the screen assembly by way of the adapter. The drain mode will allow the operator to open and close the tank valve as required from the control head, to drain foam and re-fill foam containers through the connected hose, without foam spillage beneath the vehicle.</p>
0091079	Not Required, Foam Tank #2	
0091112	Not Required, Foam Tank #2 Drain	
0738072	Approval Dwg, Pump Panel(s), Not Required	
0032479	Pump Panel Configuration, Control Zone	<p>PUMP PANEL CONFIGURATION The pump panel configuration will be arranged and installed in an organized manner that will provide user-friendly operation.</p>
0579545	Step, Slide-Out/Fold-Out, Pump Operator Platform, Aerial PUC	<p>PUMP OPERATOR'S PLATFORM A pull out, flip down platform will be provided at the pump operator's control panel. The front edge and the top surface of the platform will be made of DA finished aluminum with a Morton Cass insert. The platform will be approximately 13.75" deep when in the stowed position and approximately 22.00" deep when extended. The platform will be as wide as possible. The platform will lock in the retracted and the extended position. The sides, bottom and rear portions of the support assembly will be painted to match lower job color. The platform will be wired to the "step not stowed" indicator in the cab.</p>
0667186	Light, Slide-Out Pump Operator Step, OSS Access LED, Short Step	<p>PUMP OPERATOR'S PLATFORM PERIMETER LIGHT There will be an On Scene Solutions, Model Night Stick Access, 20.00" white 12 volt DC LED strip light provided to illuminate the ground area.</p>
0831515	Material/Finish, Pump Panels, PUC	<p>PUMP AND GAUGE PANEL The pump operator's panel and gauge panels will be brushed stainless steel finish. The side panels will be brushed stainless steel finish.</p>
0516978	Pump and Plumbing Access, Simple Tilt Service, PUC	<p>PUMP AND PLUMBING ACCESS Simple access to the plumbing will be provided through the front of the body area by raising the cab for complete plumbing service and valve maintenance. Access to valves will not require removal of operator panels or pump panels. Access for rebuilding of the pump will not require removal of more than the tank to pump line and a single discharge line. This access will allow for fast, easy valve or pump rebuilding, making for reduced out of service times. Steps will be provided for access to the top of the pump. Access to the pump will be provided by raising the cab. The pump will be positioned such that all maintenance and overhaul work can be performed above the frame and under the tilted cab. The service and overhaul work on the pump will not require the removal of operator panels or pump panels. Complete pump casing and gear case removal will require no more than removal of the intake and discharge manifolds, driveline, coolers and a single discharge line. The pump case and gear case will be able to be removed by lifting upward without interference from piping and be removable in less than 3 hours.</p>



0618458	Light, Pump Compt, WIn 3SC0CDCR LED White, PUC	PUMP COMPARTMENT LIGHT There will be one (1) Whelen®, Model 3SC0CDCR, 3.00" white 12 volt DC LED light(s) with Whelen, Model 3FLANGEC, flange(s) installed in the plumbing area. The light(s) will be activated by a toggle switch located in the pump compartment area.
0516983	Gauges, Engine, Included With Pressure Controller, PUC	Engine monitoring graduated LED indicators will be incorporated with the pressure controller.
0005601	Throttle, Engine, Incl'd w/Press Controller	
0739224	Indicator Light @ Pump Panel, Throttle Ready, Incl w/Pressure Gov/Throttle,Green	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.
0549333	Indicators, Engine, Included with Pressure Controller	
0511078	Gauges, 4.00" Master, Class 1, 30"-0-600psi	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 (1) 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.
0511100	Gauge, 2.00" Pressure, Class 1, 30"-0-400psi	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.
0756688	Gauge, Water Level, Pierce, In pressure Controller, w/Mini Slave, PUC, Lt Driver	WATER LEVEL GAUGE An electric water level gauge will be incorporated in the pressure controller that registers water level by means of nine (9) LEDs. They will be at 1/8 level increments with a tank empty LED. The LEDs will be a bright type that is readable in sunlight, and have a full 180-degree of clear viewing. To further alert the pump operator, the gauge will have a warning flash when the tank volume is less than 25 percent. The gauge will have down chasing LEDs when the tank is almost empty. The level measurement will be ascertained by sensing the head pressure of the fluid in the tank or cell. MINI SLAVE UNIT An electric water level gauge will be provided in the cab that registers water level by means of five (5) LEDs. They will be at 1/4 level increments with a tank empty LED. The LEDs will be a bright type that are readable in sunlight and have a full 180-degree of clear viewing. The water level gauge in the cab will be activated when the parking brake is applied .

0750438	Water Level Gauge, WIn PSTANK2, LED 1-Light, 4-Level	<p>WATER LEVEL GAUGE There will be two (2) additional water level indicator(s), Whelen®, Model PSTANK2, LED module with chrome trim, installed one (1) each side rearward of crew cab doors. This light module(s) will include four (4) colored levels, and function similar to the water level indicator located at the operators panel: First green module indicates a full water level Second blue module indicates a water level above 3/4 full Third amber module indicates a water level above 1/2 full Last red module indicates a water level above 1/4 full and empty Above 1/4 this light will be steady burning At empty this light will be flashing The flash rate will be determined by the main water level tank sensor. This module will be activated when the pump is in gear.</p>
0062992	Gauge, Foam Level, (1) Tank, Class 1, GAAAR 5lt	<p>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.</p>
0653081	Light, Pump Operator & Panel, Side Ctrl, PUC, 60354C LED Cab & LED OH Chr Cvr	<p>SIDE CONTROL PUMP OPERATOR'S/PUMP PANEL LIGHTING Illumination will be provided for controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus and the equipment provided on it. Internal and external lights on the apparatus will be illuminated per the current edition of applicable NFPA standards. The pump panels will be illuminated by two (2) Truck-Lite, Model 60354C, 6.00" x 2.00" oval white LED lights with Model 60700, grommets and chrome covers installed on the back of the cab, one (1) on the driver's side and one (1) on the passenger's side. The pump operator's panel will utilize the same LED strip lighting at the forward doorframe as all other compartment lighting. There will be a small white LED pump engaged indicator light installed overhead.</p>
0606694	Air Horns, (2) Hadley, 6" Round, eTone, In Bumper	<p>AIR HORN SYSTEM Two (2) Hadley®, eTone, chrome air horns will be recessed in the front bumper. The air horn system will be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve will be installed to prevent the loss of air in the brake system.</p>
0606835	Location, Air Horns, Bumper, Each Side, Outside Frame, Outboard (Pos #1 & #7)	<p>Air Horn Location The air horns will be located on each side of the bumper, towards the outside.</p>
0757092	Control, Air Horn, Multi Select	<p>Air Horn Control The air horn(s) will be activated by the following:</p>
0757078	Control, Air Horn, Push Button Sw, RS	Right side push button switch
0757081	Control, Air Horn, Ft Sw, LS	Left side foot switch
0533071	Siren, WIn 295SLSC1, 100 or 200 Watt, w/Plug-in/Detachable Microphone Cord	<p>ELECTRONIC SIREN A Whelen, Model: 295SLSC1, electronic siren with a plug-in, detachable noise canceling microphone will be provided. This siren to be active when the battery switch is on and that emergency master switch is on.</p>
0016133	Location, Electronic Siren, Swivel Mount Centered Overhead	Siren head will be located on a swivel bracket mounted on the headliner so that it is accessible to both the driver and officer. The swivel bracket will be capable of rotating a minimum of 180 degrees.

0076157	Control, Elec Siren, Horn Ring	<p>SIREN CONTROL</p> <p>The electronic siren will be controllable on the siren head and horn ring only. No foot switches will be required.</p> <p>The driver will have the option to control the siren or the chassis horns from the horn button by means of a selector switch located on the instrument panel.</p>
0601306	Speaker, (1) WIn, SA315P, w/Pierce Polished Stainless Steel Grille, 100 watt	<p>SPEAKER</p> <p>There will be one (1) Whelen®, Model SA315P, black nylon composite, 100-watt, speaker with through bumper mounting brackets and polished stainless steel grille provided. The speaker will be connected to the siren amplifier.</p>
0601565	Location, Speaker, Frt Bumper, Recessed, Center (Pos 4)	The speaker(s) will be recessed in the center of the front bumper.
0835540	Siren, Aux, Federal PF400Q, Control Head and Amplifier, Loc Fet	<p>AUXILIARY SIREN</p> <p>There will be a Federal, Model PF400Q, electronic siren with noise canceling microphone provided.</p> <p>The amplifier will be installed TBD.</p> <p>This siren will be controlled by the siren head or as defined elsewhere in this specification.</p>
0688031	Control, Aux Electric Siren, Driver's Side Foot Sw	a foot switch located on the driver's side
0686830	Location, Aux Elect Siren, Behind PS Seat	<p>Auxiliary Electronic Siren Location</p> <p>The auxiliary electric siren will be located behind the passenger's side seat.</p>
0688013	Speaker, Aux, Siren, Federal BP200-EF	<p>AUXILIARY SIREN SPEAKER</p> <p>There will be a Federal Signal Model BP200-EF 200 watt recess mount speaker furnished.</p>
0687949	Location, Aux Siren Speaker, Frt Bumper, Recess, LS, Outside Frame,Inbrd (Pos 6)	<p>AUXILIARY SPEAKER LOCATION</p> <p>The auxiliary electric siren speaker will be installed in the face of the front bumper on the left side in the inside position.</p>
0746353	Not Required, Warning Lights Intensity	
0600732	Lightbar, WIn, Freedom IV-Q, 2-21.5", RBRBR RBRBR, 30 Deg	<p>FRONT ZONE UPPER WARNING LIGHTS</p> <p>There will be two (2) 21.50" Whelen® Freedom™ IV lightbars mounted on the cab roof, one (1) on each side, above the driver's and passenger's door, at a 30 degree angle.</p> <p>The driver's side lightbar will include the following:</p> <ul style="list-style-type: none"> One (1) red flashing LED module in the outside end position. One (1) blue flashing LED module in the outside front corner position. One (1) red flashing LED module in the outside front position. One (1) blue flashing LED module in the inside front position. One (1) red flashing LED module in the inside front corner position. <p>The passenger's side lightbar will include the following:</p> <ul style="list-style-type: none"> One (1) red flashing LED module in the inside front corner position. One (1) blue flashing LED module in the inside front position. One (1) red flashing LED module in the outside front position. One (1) blue flashing LED module in the outside front corner position. One (1) red flashing LED module in the outside end position. <p>There will be clear lenses included on the lightbar.</p> <p>There will be a switch in the cab on the switch panel to control the lightbars.</p> <p>The four (4) red and two (2) blue flashing LED modules in the front positions may be load managed when the parking brake is applied.</p>
0056848	Lights, Frnt Zn Upr, Pltform, WIn, 50R03ZRR Super 500 LED, Red 3lts	<p>FRONT ZONE UPPER LIGHTING, PLATFORM</p> <p>Three (3) Whelen, Model: 50R03ZRR red flashing Super LED lights will be located at the front of the platform basket.</p> <p>These lights are required to meet the front upper level optical warning and optical power requirements of NFPA.</p> <p>The lights will be controlled by the same switch as the lightbars.</p> <p>These lights will be deactivated when the boom is lifted out of the cradle.</p>

0669501	Light, Tomar 3065-CHROME Emitter, Traffic Preemption	<p>TRAFFIC LIGHT CONTROLLER</p> <p>There will be a Tomar, Model 3065-CHROME, traffic light controller mounted Forward aerial basket..</p> <p>The traffic light controller system will consist of a 3065 strobe emitter head and integrated power supply housed in a chrome ABS housing with tilt mount base. The system will be provided with national standard high priority.</p> <p>The traffic light controller will be activated by a cab switch with emergency master control.</p> <p>The traffic light controller will be disabled when the parking brake is applied.</p>
0898734	Light, Front Zone, WIn M6** M6** M6** M6** Q Bzl	<p>CAB FACE WARNING LIGHTS</p> <p>There will be four (4) Whelen®, Model M6**, 4.31" high x 6.75" wide x 1.37" deep flashing LED warning lights installed on the cab face, above the headlights in a housing that matches the headlights per the following:</p> <p>The left side outside warning light to include red LEDs.</p> <p>The left side inside warning light to include blue LEDs.</p> <p>The right side inside warning light to include red LEDs.</p> <p>The right side outside warning light to include blue LEDs.</p> <p>The warning light lens color(s) to be clear.</p> <p>The housing to be polished and the trim shall be chrome.</p> <p>The lights will be controlled per the following:</p> <p>A switch in the cab, on the switch panel will control the lights.</p> <p>White LEDs will be deactivated when the parking brake is applied.</p> <p>Amber LEDs will be deactivated when the parking brake is released.</p> <p>Amber, blue, green or red LEDs in the inside positions may be load managed when the parking brake is applied.</p>
0653937	Flasher, Headlight Alternating	<p>HEADLIGHT FLASHER</p> <p>The high beam headlights will flash alternately between the left and right side.</p> <p>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.</p> <p>The flashing will automatically cancel when the hi-beam headlight switch is activated or when the parking brake is set.</p>
0540692	Lights, Side Zone Lower, WIn M6*C LED, Clear Lens, 3pr, Ovr 25	<p>SIDE ZONE LOWER LIGHTING</p> <p>There will be six (6) Whelen®, Model M6*C, flashing LED warning lights with chrome trim installed per the following:</p> <p>Two (2) lights, one (1) each side on the bumper extension. The side front lights to be red.</p> <p>Two (2) lights, one (1) each side of cab rearward of crew cab doors. The side middle lights to be red.</p> <p>Two (2) lights, one (1) each side located between the tandems. The side rear lights to be red.</p> <p>The lights will include clear lenses.</p> <p>There will be a switch in the cab on the switch panel to control the lights.</p>
0564655	Lights, Rear Zn Lwr, WIn M6*C LED, Clear Lens, For Tail Lt Housing	<p>REAR ZONE LOWER LIGHTING</p> <p>There will be two (2) Whelen®, Model M6*C, LED flashing warning lights located at the rear of the apparatus.</p> <p>The driver's side rear light to be red</p> <p>The passenger's side rear light to be red</p> <p>Both lights will include a lens that is clear.</p> <p>There will be a switch located in the cab on the switch panel to control the lights.</p>
0088745	Light, Rear Zone Up, WIn L31H*F LED Beacon, Red LED	<p>REAR/SIDE ZONE UPPER WARNING LIGHTS</p> <p>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.</p> <p>The color of the lights will be red LEDs with both domes clear.</p>
0006551	Not Required, Lights, Rear Upper Zone Blocking	
0791501	Light, Traffic Directing, WIn TAL65, 36" Long LED, Aerials	<p>TRAFFIC DIRECTING LIGHT</p> <p>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.</p> <p>The Whelen, Model TACTL5, control head will be included with this installation.</p> <p>The controller will be energized when the battery switch is on.</p> <p>The auxiliary flash not activated.</p>
0530074	Location, TD, On Top of Body Below Turntable w/Treadplate Box	This traffic directing light will be mounted on top of the body below the turntable with a treadplate box at the rear of the apparatus.
0530282	Location, Traf Dir Lt Controller, Overhead Switch Panel DS Right End	The traffic directing light control head will be located in the driver side overhead switch panel in the right panel position.

0519934	Not Required, Brand, Hydraulic Tool System	
0649753	Not Required, PTO Driven Hydraulic Tool System	
0749705	SP Tool Mount, Zico QM-MEH-1, 4-place Tool Holder, Mtd to Tray, Turntable	<p>ZICO QM-MEH-1 (4 PLACE) MULTI TOOL HOLDER There will be a Zico QM-MEH-1 (4 place) multi tool holder mounting unit installed on a slide out tray (not included) in Mounted on slide out tray in P4. The unit will consist of one spinning base plate with a center square pillar mounted to its surface. There will be four surfaces on this central square pillar to which the tools will strap to. Each surface can accessed by locking 90 degree rotations either clockwise or counterclockwise directions The four (4) tools to be stored will be Hurst E-Draulics New Gen 3 . Straps will be provided towards the top of each mounting surface on the pillar.</p>
0784643	Aerial, 100' Pierce Platform, 35 MPH Wind Rating, 400lb Tip Load Allowance	<p>THREE SECTION 100' AERIAL PLATFORM General Information It is the intent of these specifications to describe a telescoping, elevating platform. The unit will consist of a three (3) section, steel ladder with a self-leveling basket attached, to the ladder fly section. Operation on Grades The aerial unit will be capable of operating safely, on any slope up to 10 degrees at full capacities. (Operation beyond this limit will be at the operator's discretion.) Construction Standards The ladder will be constructed to meet all of the requirements as described in the current edition of applicable NFPA standards. These capabilities will be established in an unsupported configuration. All structural load supporting elements of the aerial device that are made of a ductile material will have a design stress of not more than 50 percent of the minimum yield strength of the material based on the combination of the live load and the dead load. This 2:1 structural safety factor meets the current NFPA standard. All structural load supporting elements of the aerial device that are made of non-ductile material will have a design stress of not more than 20 percent of the minimum ultimate strength of the material, based on the combination of the rated capacity and the dead load. This 5:1 safety factor meets the current NFPA standard. The aerial device will be capable of sustaining a static load one and one-half times its rated tip load capacity (live load) in every position in which the aerial device can be placed when the vehicle is on a firm level surface. The aerial device will be capable of sustaining a static load one and one-third times its rated tip load capacity (live load) in every position the aerial device can be placed when the vehicle is on a slope of five degrees downward in the direction most likely to cause overturning. With the aerial device out of the cradle in the in the fully extended position at zero degrees elevation, a test load will be applied in a horizontal direction normal to the centerline of the ladder. The turntable will not rotate and the ladder will not deflect beyond what the product specification allows. All welding will be in compliance with the American Welding Society standards. All welding personnel will be certified, as qualified under AWS welding codes. All material and welds will have a structural safety factor of 2:1. This will be derived from taking into account structure weight, payload, wind load, ice load, and nozzle reactions. The aerial device will be capable of operating in wind conditions of up to 35 mph and icing conditions of up to a 0.25" coating over the aerial structure. All of the design criteria must be supported by the following test data: Strain gage testing of the complete aerial device Analysis of deflection data taken while the aerial device was under test load The following standards for materials are to be used in the design of the aerial device: Materials are to be certified by the mill that manufactured the material Materials that are certified or recertified by vendors other than the mill will not be acceptable Material testing that is performed after the mill test will be for verification only and not with the intent of changing the classification. Ladder Construction The ladder will be comprised of three (3) sections and will extend to a nominal height, of 100' above the ground, as measured by 1901 recommendations. The ladder (handrails, baserails, trusses, k-braces and rungs) will be constructed of welded, high strength steel certified by the manufacturer as being a minimum of 70,000 pounds per square inch of yield strength. Each section will be trussed diagonally, vertical and horizontally using round steel tubing. All critical points will be reinforced, for extra rigidity, and to provide a high strength-to-weight ratio. All ladder rungs will be round and welded to each section in two (2) places with "K" bracing for lateral and torsional rigidity. The inside width dimensions of the ladder will be: Base Section: 38.75" Mid Section: 28.88" Fly Section: 21.50" The height of the handrails above the centerline of the rungs will be: Base Section: 31.31" Mid Section: 26.82" Fly Section: 22.75"</p>

Vertical Height

The height of the unit will extend to no less than 100', as measured by a plumb line from the top surface of the basket handrail assembly to the ground, with the basket raised to a 75 degree angle. The aerial device will be measured, in this manner, for accurate comparison.

Horizontal Reach

The rated horizontal reach will be 93'. The measurement of horizontal reach will be consistent with NFPA standards.

Mounting of Elevating Platform

The aerial device will be rear mounted, to a torque box, on the truck chassis. Midship mounted aerial devices will not be acceptable.

Torque Box

A "torsion box" subframe will be installed between the two sets of stabilizers. The torque box will be constructed of 0.312" steel plate (50,000 lb per square inch yield) with steel tubing reinforcement, on each side of the box, in the turntable area. The dimensions of the torque box will be 41.00" wide x 29.00" high x 253.50" long. The torque box subframe assembly will be capable of withstanding all torsional and horizontal loads when the unit is on the stabilizers. The torque box will be bolted to the chassis frame rails using thirty-two 0.750" SAE grade 8 bolts with nuts.

Turntable

The turntable will be coated with a non-skid, chemical resistant material in the walking areas. The stepping surfaces will meet the skid-resistance requirements of the current NFPA standard. The turntable will measure 81.00" long x 96.00" wide. The turntable will include an enclosure for the hydraulic valves and rotation motor, which will also serve as a step, for access to the ladder. The turntable handrails will be a minimum 42.00" high and will not increase the overall travel height of the vehicle. The handrails will be constructed from aluminum and have a slip resistant knurled surface.

Elevation System

Two (2) double acting, lift cylinders will be utilized to provide smooth, precise elevation from 5 degrees below horizontal to 75 degrees above horizontal. The lift cylinder will be attached to each side of the base section. The lift cylinder rod will be chrome plated, to provide smooth operation of the aerial and reduce seal wear. The lift cylinders will be equipped with integral holding valves located in the cylinder, to prevent the unit from descending should the charged lines be severed, at any point within the hydraulic system and to maintain the ladder in the bedded position during road travel. The integral holding valves will NOT be located in the transfer tubes.

The elevation system will be controlled by the microprocessor. The microprocessor will provide the following features:

Collision avoidance of the elevation system to prevent accidental body damage

Automatic deceleration when the aerial device is lowered into the cradle

Automatic deceleration at the end of stroke, in maximum raise and lower positions

Deceleration of the aerial device from 0 to -5 degrees

Extension/Retraction System

A hydraulically powered, extension and retraction system will be provided through dual hydraulic cylinders and wire ropes. Each set will be capable of operating the ladder in the event of a failure, of the other. For safety, systems that use only a single extension/retraction system will not be acceptable. The extension cylinder rod will be chrome plated to provide smooth operation of the aerial device and reduce seal wear. The extension/retraction cylinders will be equipped, with integral holding valves, to prevent the unit from retracting should the charged line be severed, at any point within the hydraulic system. The integral holding valves will NOT be located in the transfer tubes.

Wire ropes and attaching systems used to extend and retract the fly sections will have a 5:1 safety factor based on the ultimate strength under all operating conditions. The factor of safety for the wire rope will remain above 2:1 during any extension or retraction stall. The minimum ratio of the diameter of wire rope used to the diameter of the sheave used will be 1:12. Wire ropes will be constructed of seven (7) strands over an inner wire for increased flexibility. The wire rope will be galvanized to reduce corrosion.

The extension/retraction system will be controlled by the microprocessor. The microprocessor will provide the following features:

Automatic deceleration at the end of stroke, in maximum extend and retract positions

Controls the rate of retraction while flowing water

All sheaves will be greaseless and all sheave pins and pivot pins will be polished stainless steel.

Rotation System

A 54.00" external tooth, monorace swing circle bearing will be used for the rotation system and will provide 360 degree continuous rotation. To insure proper bearing installation, both the open base bearing plate and the turntable bearing plate will be milled surfaces. The bearing will be bolted to the turntable and the base plate by a minimum of sixty grade 8, 0.88" bolts. Two (2) hydraulically driven, planetary gear boxes with drive speed reducers will be used to provide infinite and minute rotation control throughout the entire rotational travel. Two (2) spring applied, hydraulically released disc type swing brakes will be furnished to provide positive braking of the turntable assembly. Provisions will be made for emergency operation of the rotation system should complete loss of normal hydraulic power occur. The hydraulic system will be equipped with pressure relief valves which will limit the rotational torque to a nondestructive power.

The rotation system will be controlled by the microprocessor. The microprocessor will provide the following features:

Envelope control of rotation system to prevent accidental body damage

Prevent the aerial from being rotated into an unstable condition

Manual Override Controls

Manual override controls will be provided for all aerial and stabilizer functions.

Ladder Slide Mechanism

UHMW polyethylene wear pads will be used between the telescoping ladder sections, to provide greater bearing surface area for load transfer. Adjustable slide pads will also be used to control side play between the ladder sections.

Basket Leveling System

A basket leveling system will be provided and so designed, that the basket with it's rated load, can be supported and maintained level, relative to the turntable, regardless of the elevation or flexion of the ladder.

Basket leveling will be accomplished by hydraulic circuitry, that is independent from the main hydraulic system. The leveling of the basket features a dual master/slave hydraulic cylinder

system, with each side capable of supporting the load, while maintaining the basket level. Two (2) master cylinders are mounted between the turntable and the base ladder section, with two (2) slave cylinders mounted between the ladder fly section and the basket. The slave and master cylinders are 100 percent matched, so as the ladder is raised or lowered, exact amounts of hydraulic fluid are transferred between the master and slave cylinders thus maintaining the basket level.

The hydraulic circuitry includes pressure operated counter balance valves, on the load side of the slave cylinders, to prevent the basket from tipping should the hydraulic lines be severed.

A momentary switch is provided, on the cab instrument panel, to level the basket should this become necessary due to ambient temperature changes. It is not necessary to start the engine and activate the main hydraulic system to level the basket.

Rotation Interlock

The microprocessor will be used to prevent the rotation of the aerial device to the side in which the stabilizers have not been fully deployed (short-jacked). The microprocessor will allow full and unrestricted use of the aerial, in the 180 degree area, on the side(s) where the stabilizers have been fully deployed. The system will also have a manual override to comply with NFPA.

Load Capacities

The following load capacities will be established with the stabilizers at full horizontal extension and placed in the down position to level the truck and to relieve the weight from the tires and axles. Capacities will be based upon full extension and 360 degree rotation. If the set up requires the weight to be removed from the front axle to level the apparatus, there will be limited horizontal reach over the front of the cab. This will prevent the apparatus from tipping on to the front axle.

A load chart, visible at the operator's station, will be provided. The load chart will show the recommended safe load at any condition of the aerial device's elevation and extension.

35 MPH Wind Conditions/Dry

Degrees of

Elevation

-5 to 29

30 to 39

40 to 49

50 to 75

Basket

1000

1000

1000

1000

Fly

-

-

250

500

Mid

-

250

500

750

Base

250

500

750

1000

35 MPH Wind Conditions/Water Charged

Degrees of

Elevation

-5 to 29

30 to 39

40 to 49

50 to 75

Basket

500

500

500

500

Fly

-

-

250

500

Mid

-

250

500

500

Base

-

500

500

750

Elevation -5 to +75 Degrees

The aerial device will be able to maintain the above load capacities while flowing up to 1500 GPM and a nozzle position of 0 to 90 degrees to either side of the ladder centerline, as far above and below horizontal to the platform as nozzle design allows.

While flowing 1500 to 2000 GPM the nozzle position will be limited to 45 degrees either side of the ladder centerline horizontal to the platform, 30 degrees above horizontal, and as far below horizontal to the platform as nozzle design allows.

Reduced loads in the basket can be redistributed in 250 lb increments to the fly, mid, or base as needed.

Ladder Cradle Interlock System

A ladder cradle interlock system will be provided through the microprocessor to prevent the lifting of the aerial device from the nested position until the operator places all the stabilizers in a load supporting configuration. A switch will be installed at the boom support to prevent operation of the stabilizers once the aerial has been elevated from the nested position.

Boom Support

A heavy duty boom support, constructed of steel, is to be provided for support of the ladder in the travel position. The boom support will be bolted to the chassis frame as close to the front axle as design allows. On the base section of the ladder, a stainless steel scuffplate will be provided where the ladder comes into contact with the boom support.

000042	Boom Support, Rear of the Chassis Cab	The boom support will be located just to the rear of the chassis cab.
0762413	Light, Boom Support, Amdor AY-LB-12HW012, 12" LED	<p>AERIAL BOOM SUPPORT LIGHT There will be one (1) Amdor®, Model AY-LB-12HW012, 190 lumen, 12" long, white LED strip light mounted on the boom support cradle. This light will be activated when the aerial master switch is activated.</p>
0799573	Boom Support Compt Included w/PUC Xlay Module Picked Separately, PUC	
0680821	Boom Panel, Pair	<p>AERIAL BOOM PANEL There will be one boom panel provided on each side of the aerial ladder base section. The boom panel will be painted #10 white. The boom panels will be designed so no mounting bolts are in the face of the panel. This will keep the lettering surface free of holes.</p>
0526890	Not Required, Indicator, Extension	
0688232	Rung Covers, Aerial Device	<p>AERIAL DEVICE RUNG COVERS Each rung will be covered with a secure, heavy-duty, fiberglass pultrusion that incorporates an aggressive, no-slip coating. The rung covers will be glued to each rung and will be easily replaceable should the rung cover become damaged. The center portion of each rung cover will be black and the outside 2.00" edge at each side will be safety yellow. Under no circumstances will the rung covers be fastened to the rungs using screws or rivets. The rung covers will have a 10-year, limited warranty.</p>
0623645	Aerial Stability Test, Maximum Tip Options	<p>STABILITY TEST An aerial stability test will be run on the apparatus using the maximum weight allowance for tip options.</p>
0728981	Box, Stokes, w/Cover, Base Section, Adjacent to Boom Panel, w/Door Open Sw	<p>STOKES STORAGE BOX There will be one (1) aluminum storage box(es) provided at the base section of the aerial ladder on the left side of the aerial device while viewed from the turntable. The box(es) will be painted to match the aerial device. The box(es) will be located adjacent to the aerial boom panel and will have a hinged cover with pair of butterfly latches to secure the stokes basket. The cover and mounting brackets for the box will have the same finish as the box. The cover will be tied in to the open door indicator circuitry when in the open position. The box(es) will have no louvers. The size of the stokes basket will be 88.00" long x 26.00" wide x 9.00" high. The maximum capacity of each box will be 75 lb.</p>

0600934	Basket, PAP, Wide	<p>BASKET STRUCTURE</p> <p>The complete basket structure will be constructed of welded high strength steel certified by the manufacturer to have a minimum of 46,000 lb per square inch yield strength. Modular construction of the aerial platform basket will allow for easy component replacement should the basket become damaged during use. The aerial basket will be fully tested and independent third party certified.</p> <p>The interior flooring and exterior front flooring (decking) of the basket will be multi-piece Morton Cass material, preventing the accumulation of water on the standing surface. The surface area of the interior and exterior basket flooring will be approximately 26.6 square feet. The stepping surfaces will meet the skid-resistance requirements of current edition of applicable NFPA standards.</p> <p>The exterior basket flooring used for transferring in and out of the basket will be at the same level as the interior basket floor. The front flooring will be approximately 16.00" deep. The front corners of the exterior basket floor will be mitered at 45 degrees to allow the basket to be maneuvered closer to buildings when approaching at an angle. A heavy extruded rubber bumper strip will be fastened to the outside edge of the basket.</p> <p>Four (4) stainless steel pompier belt safety loops will be attached to the inside of the basket. Two (2) lifting eyes will be provided on the bottom side of the basket support structure. Each lifting eye will be rated for 500 lb.</p> <p>Two (2) rubber bumpers are provided on the bottom side of the basket structure for damage protection when setting it down on a surface.</p> <p>The basket interior will be illuminated as required per the current edition of applicable NFPA standards. All hoses and wiring at the basket will be fully enclosed. Electrical sub-components will be mounted at the rear of the basket in a separate enclosure for easy servicing while maintaining an unobstructed basket interior.</p>
		<p>BASKET SIDES</p> <p>The sides of the basket will be of solid single pan aluminum construction and, along with the basket doors, will form a continuous 42.00" high wall around the basket. The modular design of the basket will allow for easy replacement of components in case of damage.</p>
		<p>BASKET ENTRANCES/EXITS</p> <p>Two (2) swing-in, spring-loaded, self-closing double pan doors constructed of aluminum will be provided at the front of the basket. The basket doors will be provided with positive locking latches. The rear of the basket will be equipped with a vertical self-closing gate for transfer to and from the basket's ladder device. Telescoping-type handrails will be provided as a banister to bridge the gap between the basket and the fly section at all elevations.</p>
		<p>ACCESSORY MOUNTING RECEPTACLES</p> <p>Two (2) universal accessory mounting receptacles will be permanently affixed on the front of the basket to receive the LyfeLine™ family of options such as the Support™ rescue basket holders, [Aerial Basket Latch] rappelling arms, LyfeLadder™ roof ladder brackets, LyfeHoist™ winch, etc. Complete interchangeability will be required without modification to the basket.</p>
0677439	Box, Hose Storage, Platform	<p>HOSE BOX AT PLATFORM</p> <p>There will be one (1) hose storage box(es) with a cover and SouthCo stainless steel draw latch provided at the platform. A brushed stainless steel scuffplate will be provided under each latch. The box(es) will be located at the left side of the basket when viewed from the turntable and will match the finish of the aerial basket. The box(es) will be sized to fit 100' of 1.75" diameter hose.</p> <p>Drain holes will be provided in the bottom corners of each box and a louver will be provided on each side near the top of the box, below the latches.</p>
0677446	Box, Air Mask Storage, At Platform, Additional	<p>ADDITIONAL MASK BOX AT BASKET</p> <p>An air mask storage box with a hinged cover and a SouthCo stainless steel draw latch will be provided at the basket. The cover will be weatherproof to protect the inside of the box from the elements. The box will be constructed of smooth aluminum and will be painted to match the aerial basket. The box will be large enough for one (1) air mask(s) and hose.</p>
0601972	Lights, Turntable Walkway, P25, LED	<p>LIGHTS FOR TURNTABLE WALKWAY</p> <p>There will be white LED lights provided at the aerial turntable. The lights will be located to illuminate the entire walking surface of the turntable including the area around the turntable console. These lights will be activated by the aerial master switch.</p>
0601949	Light, Turntable Console, TecNiq T-10, LED Strip Light	<p>TURNTABLE CONSOLE LIGHTING</p> <p>There will be one (1) TecNiq, Model T10, white LED light strip mounted in the turntable console cover to illuminate the controls located on both the upper and lower portion of the turntable control station. These lights will be activated by the aerial master switch.</p>
0682164	Cover, Around Aerial Rotation Bearing	<p>ROTATION BEARING COVER</p> <p>A cover will be fitted over the aerial rotation bearing and drive pinion gear(s). The cover will be aluminum treadplate and attached to the underside of the turntable deck.</p>

BASKET HEAT SHIELDS

A heat reflective shield will be provided on the front, sides and bottom of the basket.

The double pan basket access doors will form the heat shield at the front of the basket. The area between the access doors and behind the monitor(s) will be shielded with a horizontally hinged single pan aluminum fold down panel. The side heat shields will be formed by a single sheet of .090" aluminum. These heat shields will be painted to match the aerial basket.

Full under the basket heat shield protection with a non-glare finish will be provided with dual swing-down doors for ease of servicing and clean out.

INFORMATION CENTER

There will be an information center provided. The information center will operate in temperatures from -40 to 185 degrees Fahrenheit. The information center will employ a Linux operating system and a 7.00" (diagonal measurement) LCD display. The LCD will have a minimum 400nits rated, color display. The LCD will be sunlight readable. The LCD display will be encased in an ABS, black plastic housing with a gray decal. There will be five (5), weather-resistant user interface switches provided. The LCD display can be changed to an available foreign language.

Operation

The information center will be designed for easy operation in everyday use. There will be a page button to cycle from one screen to the next screen in a rotating fashion. A video button will allow an NTSC signal into the information center to be displayed on the LCD. If any button is pressed while viewing a video feed, the information center will return to the vehicle information screens. There will be a menu button to provide access to maintenance, setup, and diagnostic screens. All other button labels will be specific to the information being viewed.

General Screen Design

Where possible, background colors will be used to provide vehicle information *At A Glance*. If the information provided on a screen is within acceptable limits, a green background color will be used. If the information provided on a screen is not within acceptable limits, an amber background color will indicate a caution condition and a red background color will indicate a warning condition.

Every screen in the information center will include the aerial tip temperature, the time (12- or 24-hour mode) and a text Alert Center. The time will be synchronized between all Command Zone color displays located on the vehicle. The Alert Center will display text messages for audible alarms. The text messages will identify any items causing the audible alarm to sound. If more than one (1) audible alarm is activated, the text message for each alarm will cycle every second until the problems have been resolved. The background for the Alert Center will change to indicate the severity of the warning message. Amber will indicate a caution condition and red will indicate a warning condition. If a warning and a caution condition occur simultaneously, the red background color will be shown for all Alert Center messages.

A label will be provided for each button. The label will indicate the function for each active button for each screen. If the button is not utilized on specific screens, it will have a button label with no text.

Symbols will accurately depict the aerial device type the information pertains to such as rear mount ladder, rear mount platform, mid-mount ladder or mid-mount platform.

Page Screens

The Information center will include the following pages:

The Aerial Main and Load Chart page will indicate the following information:

Rungs Aligned and Rungs Not Aligned will be indicated with text and respective green or red colored ladder symbols

Ladder Elevation will be indicated via a fire apparatus vehicle with ladder symbol with the degree of elevation indicated between the vehicle and ladder

Water Flow (if applicable) will be indicated via a water nozzle symbol and text indicating flow / time

Breathing Air Levels will be indicated via an air bottle symbol and text indicating the percent (%) of air remaining. A green bar graphs shown inside the bottle will indicate oxygen levels above 20%. A red bar graph will indicate oxygen levels at or below 20%. When oxygen levels are at or below 10% the red bar graph will flash.

The Aerial Load Chart will indicate the load limit on each section of the ladder based on actual ladder position and water flow (if applicable).

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background.

Conditions operating within acceptable limits will be indicated via a green background.

The Aerial Reach and Hydraulic Systems page will indicate the following information:

Aerial Hydraulic Oil Temperature will be indicated with symbol and text. *At a glance* features will be utilized.

Aerial Hydraulic Oil Pressure will be indicated with a symbol and text. *At a glance* features will be utilized.

The following calculations will be indicated on a representative vehicle symbol:

Aerial Device Extension length.

Aerial Device Height indicating the height of the aerial device tip from the ground.

Aerial Device Reach indicating the horizontal distance the aerial reaches from the turntable.

Aerial Device Angle indicating the angle from the vehicle which the device is at.

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background.

Conditions operating within acceptable limits will be indicated via a green background.

The Level Vehicle page will indicate the following information:

The grade of the vehicle will be indicated via a fire apparatus vehicle symbol with the degree of grade shown in text format. The symbol will tilt dependent on the vehicle grade.

The slope of the vehicle will be indicated via a fire apparatus vehicle symbol with the degree of slope shown in text format. The symbol will tilt dependent on the vehicle slope.

Outriggers status will be indicated via a colored symbol for each outrigger present. Each outrigger status will be defined as one of the following:

Outrigger stowed indicated with a silver pan located close to the vehicle

Outrigger fully extended indicated with a fully deployed green outrigger

Outrigger short-jacked indicated by a yellow outrigger partially deployed

Outrigger not set indicated by a red outrigger that is not set on the ground

A text box located on the vehicle symbol will be utilized to identify the overall status of the

outrigger leveling system. The following status will be indicated in the text box:

Deployed status will indicate all outriggers are properly set on the ground at full extension

Shortjacked status will indicate one or more outriggers are set on the ground but not fully extended.

Not Set status will indicate one or more outriggers is not properly set on the ground.

Stowed status will indicate all outriggers are stowed for vehicle travel.

A bedding assist alert will indicate that the aerial device is being aligned by the Command Zone system as the operator lowers the aerial device into the cradle with the joystick.

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background.

Conditions operating within acceptable limits will be indicated via a green background.

Menu Screens

The following screens will be available through the Menu button:

The View System Information screen will display aerial device hours, aerial PTO hours, ladder aligned for stowing, aerial rotation angle, total water flow (if applicable), and aerial waterway valve status (if applicable).

The Set Display Brightness screen will allow brightness increase and decrease and include a default setting button.

The Configure Video Mode screen will allow setting of video contrast, video color and video tint.

The Set Startup screen allows setting of the screen that will be active at vehicle power-up.

The Set Date and Time screen has a 12- or 24-hour format, and allows setting of the time and date.

The View Active Alarms screen shows a list of all active alarms including the date and time of each alarm occurrence and shows all alarms that are silenced.

The System Diagnostics screen allows the user to view system status for each module and it's respective inputs and outputs. Viewable data will include the module type and ID number; the module version; and module diagnostics information including input or output number, the circuit number connected to that input or output, the circuit name (item connected to the circuit), status of the input or output, and other module diagnostic information.

Aerial Calibrations screen indicates items that may be calibrated by the user and instructions to follow for proper calibration of the aerial device.

Button functions and button labels may change with each screen.

LOWER CONTROL STATION

A lower control station will be located at the rear of the apparatus in an easily accessible area.

The controls and indication labels will be illuminated for nighttime operation. The following items will be furnished at the lower control station and will be clearly identified and conveniently located for ease of operation and viewing:

Level assist switch

Override switch to override microprocessor

Emergency power unit switch

AERIAL DEVICE CONTROL STATIONS

There will be two (2) device control stations, one (1) will be referred to as the basket control station and the other as the turntable control station. All elevation, extension and rotation controls will operate from both of these locations. The controls will permit the operator to regulate the speed of the aerial functions, within the safe limits, as determined by the manufacturer and NFPA standards. The controls will be grouped and operate in an identical manner at both stations for similarity of operation. The controls will be clearly marked and lighted for nighttime operation. Each control will be equipped with a positive lock to hold the control in a neutral position, preventing accidental activation. In addition to the neutral lock, a console cover will be provided at the turntable control station. The controls will be so designed to allow the turntable control station to immediately override the basket controls, even if the ladder is being operated by the basket controls.

TURNTABLE CONTROL STATION

The turntable control station will be located on the left side of the turntable so the operator may easily observe the basket while operating the controls.

The following items will be installed at the turntable control station, clearly identified and lighted for nighttime operation and conveniently located for ease of operation and viewing:

Electric controls for elevation, rotation, extension/retraction

Intercom controls

Tip tracking light switch

Emergency power unit switch

Operator's load chart

Three (3) position switch for selecting aerial operational speed

BASKET CONTROL CONSOLE

The basket instrument panel will be located at the front center of the aerial platform. The following controls will be installed at the console and be clearly identified and illuminated for nighttime operation and conveniently located for ease of operation and viewing:

Intercom controls

Operator's load chart

AERIAL FUNCTION CONTROLS

The aerial function controls, elevation, rotation, extension/retraction will be mounted in a separate control box, which will be attached to the front of the platform control console by means of an easily removable slide mechanism. The aerial function control box will have infinite positions along with three (3) fixed attachment points in the basket. The electrical connection will be by a permanently attached, strain relieved, coiled cord. The legend for the control lever functions will be illuminated.

HIGH IDLE

The high idle will be controlled by the microprocessor. The microprocessor will automatically adjust the engine rpm to compensate for the amount of load placed upon the system. The system will include a safety device that allows activation of the high idle only when the parking brake is set and the transmission is placed in neutral.

STABILIZERS

Two (2) sets of extendible out and down "H" type stabilizers will be provided for stability. The stabilizers will have a spread of 18'.

The stabilizers will be the double box design, with jack cylinders, that have a 4.25" internal diameter (bore) and 3.00" diameter cylinder rod. The jack cylinders will be equipped with integral holding valves, which will hold the cylinder either in the stowed position or the working position, should a charged line be severed at any point within the hydraulic system. For safety, the integral holding valves will be located in the cylinder base end, NOT in the transfer tube. Vertical jack cylinder rods will be fully enclosed by a telescoping inner box to protect the cylinder rods against damage which may occur.

The extension cylinders will be totally enclosed within the extension beams. The horizontal extension cylinders will be of the trombone type to eliminate wear and potential failure of hydraulic hoses.

The stabilizers will have the capability of 18.00" of ground penetration for set-up on uneven terrain. Extension of the horizontal beams will be activated by an extension cylinder totally enclosed within the extension beams. The cylinders will be equipped with internal decelerators.

The cross section dimensions will be 13.00" high x 6.81" wide.

Each stabilizer leg will have attached to the end of the leg a pan that will be of the split-pan design and will be a maximum 13.50" wide so as to allow the extension of the stabilizer between parked cars. This pan will serve as a protective guard and a mounting surface for warning lights. The top, forward, and rear edges will be flanged back for added strength.

STABILIZER CONTROLS

A portable stabilizer control box will be provided. The control box will be weatherproof and oil resistant. Each function and indicator light will be labeled on a metal photo panel. The control box can be taken as far away as 15' from the vehicle with an extension cable.

The stabilizer control box will include the following:

One (1) green power indicator light for stabilizer control that will be illuminated when the aerial master and "PTO" switches in the cab are activated.

Four (4) electric toggle switches for stabilizers: each toggle switch will control the extend/retract and raise/lower of its respective stabilizer to allow vehicle set up in restricted areas and/or on uneven surfaces.

Auto leveling assist switch: The outrigger control system will incorporate a computerized self leveling system in addition to the standard outrigger controls. The operator will have the option to manually or automatically level the truck. The computerized system will ensure full outrigger extension, proper jack penetration, and will level the vehicle within 1/2 a degree of level for safe operation of the aerial device.

One (1) electric toggle switch for the engaging the emergency power unit.

One (1) red "stabilizer not stowed" indicator light: this light will illuminate when the stabilizers are not in the fully stowed position.

Four (4) fully extended beams green indicator lights: these lights will be illuminated when each of the respective stabilizer beams are fully extended.

Four (4) firm on ground green indicator lights: each light will be illuminated when its respective stabilizer shoe is in the load supporting condition.

Each toggle switch will activate the engine fast idle automatically.

Manual override will be supplied for each stabilizer control valve.

A stabilizer deployment audible warning alarm will be provided and activated by the stabilizer movement.

A "Stabilizers Not Stowed" indicator will be provided in the driver's compartment. It will illuminate automatically whenever the stabilizers are not fully stowed to prevent damage to the apparatus if moved. The stabilizer system will also be wired to the "Do Not Move Indicator Light", which will flash whenever the apparatus parking brake is not fully engaged and the stabilizers are not fully stowed.

STABILIZER PADS

A one (1) position, floating stabilizer pad will be provided on each stabilizer. The pads will require no operator adjustment during set up. The stabilizer pad will have the ability to pivot in a 360 degree plane for set up on uneven terrain.

AUXILIARY STABILIZER PADS

A set of four auxiliary pads with handles will be provided for additional load distribution on soft surfaces. Their size will be 31.00" x 26.00" and they will be constructed of a **aluminum**. The ground contact area for each stabilizer will be such that a unit pressure not greater than 75 psi (500 kPa) will be exerted over the ground contact area when the apparatus is loaded to its maximum in-service weight and the aerial device is carrying its rated capacity in every position permitted by the manufacturer. The pads will be stored in a double stacked configuration, two (2) behind each rear tandem axle in a single bracket.

CRADLE INTERLOCK SYSTEM

A cradle interlock system will be provided to prevent the lifting of the aerial from the nested position until the operator has positioned all the stabilizers in a load supporting configuration. A switch will be installed at the cradle to prevent operation of the stabilizers once the aerial has been elevated from the nested position.

0728961

Stabilizer Pan Material

STABILIZER PAN MATERIAL

The aerial stabilizer pans will be **polished stainless steel**.

0530819

Not Required, Aerial Stabilizer Pins

STABILIZER PINS

The stabilizer jacks will not have holes for the stabilizer pins.

0809974

Door, Stabilizer Control Box, MUX Aerials

STABILIZER CONTROL BOX DOOR

A vertically hinged **smooth aluminum** door will be provided over the stabilizer control box. The door will be hinged **along the outboard edge** and be provided with a **Southco C2 chrome raised trigger lever latch**.

HYDRAULIC SYSTEM

All high-pressure hoses will have an abrasion resistant cover, and have a rating greater than or equal to the working pressure of the circuit in which they are installed. All hydraulic fittings will be plated to minimize corrosion. The fitting will use an O-ring face seal, where possible, to minimize hydraulic leaks. All pressure carrying hydraulic hoses will have a 4:1 safety rating based on burst pressure.

An interlock will be provided that prevents activation of the hydraulic pump until the transmission is placed in neutral and the parking brake is set as outlined in NFPA standards.

The hydraulic system will be of the load sense design to minimize heat build up and provide smooth control of the aerial ladder. The system will meet the performance requirement in NFPA standards, which requires adequate cooling after less than 2.5 hours of operations.

All hydraulic components that are non-sealing, where failure could result in the aerial movement, will comply with NFPA standards and have burst strength of 4:1. Dynamic sealing components, where failure could cause aerial movement, will have a margin of 2:1 on maximum operating pressure per NFPA standards. All hydraulic hoses, tubes, and connections will have minimum burst strength of 3:1 per NFPA standards.

A hydraulic oil pressure gauge will be supplied at the base control location per NFPA standards. The aerial hydraulic system will be designed in such a manner that a hydraulic pump failure or line rupture will not allow the aerial or outriggers to lose position. Hydraulic holding valves will be mounted directly into cylinders. To insure reliable performance of holding valves, no hoses or tubing will be permitted between a holding valve and cylinder. The aerial will incorporate the use of trombone steel tubes inside the stabilizer beams to eliminate hydraulic hose wear and leaks. Hydraulic power to the ladder will be transferred from the pedestal by a hydraulic swivel.

HYDRAULIC RESERVOIR

The hydraulic system will consist of an oil reservoir mounted to the torque box and plumbed to the hydraulic pump. There will be plumbing for a supply and return line and a tank drain on the reservoir.

The hydraulic pump suction line will have a shut-off ball valve for pump servicing.

The hydraulic oil reservoir fill will be labeled per NFPA standards. The hydraulic system will use multi-weight, SAE grade oil. ISO grade will be based on geographical location. The manufacturer will certify that the oil meets or exceeds the hydraulic cleanliness rating of 18/15/13 per ISO 4406:1999 before delivery.

HYDRAULIC FILTERS

The system will incorporate the following filters to provide dependable service:

Separate magnet (not on strainer)

Reservoir suction strainer: 125 mesh

Pressure filter with dirt alarm: Nominal 5 micron filter with a rating of 6.5 micron @ Beta 200 (99.5 percent efficiency); 7.5 micron @ Beta 1000 (99.9 percent efficiency)

Return filter with dirt alarm: Nominal 5 micron filter with a rating of 6.5 micron @ Beta 200 (99.5 percent efficiency); 7.5 micron @ Beta 1000 (99.9 percent efficiency)

Desiccant breather filter: Water capacity 4 fluid oz, 5 micron rating

HYDRAULIC CYLINDERS

All hydraulic cylinders used on the aerial device will be produced by a manufacturer that specializes in the production of hydraulic cylinders.

POWER TAKEOFF / HYDRAULIC PUMP

The apparatus will be equipped with a power takeoff driven by the chassis transmission and actuated by an electric shift located inside the cab. The power takeoff, which drives the hydraulic pump, will meet all the requirements for the aerial unit operations. The hydraulic pump will be a variable displacement piston pump, for consistent and rapid response, and be capable of supplying hydraulic oil at a nominal 50gpm flow at pressures up to 3000 psi. The system will operate up to 3000 psi with flow controls to protect hydraulic components and incorporate a relief valve set at 3150 psi to prevent over pressurization. The hydraulic pump will be solely dedicated to aerial operations. An amber indicator light will be installed on the cab instrument panel to notify the operator that the power takeoff is engaged.

An interlock will be provided that allows operation of aerial power only after the chassis spring brake has been set and the chassis transmission has either been placed in the neutral position or drive position after the driveline has been disengaged from the rear axle.

EMERGENCY PUMP

The hydraulic system will be designed with an auxiliary power unit meeting the guidelines of NFPA standards. The auxiliary power unit will be a 12-volt pump connected to the chassis electrical system. The pump will provide operation at reduced speeds to store the aerial device and outriggers for road transportation.

Self-centering switches will be provided at the turntable and stabilizer control station to activate the system. The system will be designed to provide a minimum of 30 minutes of hydraulic power to operate functions.

0061893

Swivels, w/Encoder, PAL/PAP, 36
Collector Rings

HYDRAULIC SWIVEL

The aerial ladder will be equipped with a three (3) port, high pressure hydraulic swivel which will connect the hydraulic lines from the hydraulic pump and reservoir through the rotation point to the aerial control bank. The hydraulic swivel will allow for 360 degree continuous rotation of the aerial.

ELECTRIC SWIVEL

The ladder will be equipped with an electric swivel to allow 360 degrees rotation of the aerial while connecting all electrical circuits through the rotation point. A minimum of 36 collector rings will be provided that are capable of supplying 30 amp continuous service. All collector rings will be enclosed and protected with desiccant plugs against condensation and corrosion. No oil or silicone will be used.

WATER SWIVEL

Water will be transferred to the aerial waterway by means of a 5.00" internal diameter waterway, through the swivel, permitting 360 degree continuous rotation.

12-BIT ABSOLUTE ENCODER

The aerial ladder will be equipped with a 12-Bit Absolute Encoder which provides 4096 counts per shaft turn for position and direction reference.

The 12-Bit Absolute Encoder will provide a unique binary word to reference each position and direction for all 360 degrees of rotation.

If the power is interrupted for any reason, the 12-Bit Absolute Encoder will allow power to be returned to the system without having to re-zero the settings.

The 12-Bit Absolute Encoder will be an integral part of a micro-processor based control system.

0784656

Electrical System, D Series, 100' PAP

ELECTRICAL SYSTEM

The 100' platform will utilize a microprocessor-based control system. The system will consist of the following components:

A tethered, CAN- based stabilizer control will be provided. The tethered control will be weatherproof and oil resistant. The stabilizer control will be illuminated with a LED strip light in the face of the unit. The electrical connection at the tethered control will be permanently attached by a strained relieved coil cord that will allow the operator to move 14ft away from the electrical connection for operation.

Remote Stabilizer Controls

Weatherproof and oil resistant

One (1) green "power" indicator light

One (1) red "stabilizer not stowed" indicator light

One (1) electric push button switch for auto level assist

One (1) electric push button switch for the emergency power unit

One (1) joystick for each stabilizer to control:

Extend/retract function

Raise/lower function

One (1) green "stabilizer fully extended" indicator light for each stabilizer

One (1) green "firm on ground" indicator light for each stabilizer

Control System Modules

Each of the control system modules will be configured as follows:

Sealed to a NEMA 4 rating

Operating range from -40 degrees F to 185 degrees F (-40 degrees C to 85 degrees C)

Communicate using J1939 data link

Two (2) diagnostic LED lights

One (1) green light that illuminates when module has power (B+) and ground

One (1) red light that flashes to indicate the module is capable of communicating via the data link

Ground matrix identification system

The following control system modules will be used:

Control Module

Main controller for the system

USB connection for computer diagnostics

Power Module

Built-in fault sensing

Eight (8) digital outputs

Pulse width modulating (PWM) capable

10A continuous per output

Circuit protection based on actual current draw (not affected by heat)

Constant Current Module

Built-in fault sensing

Three (3) analog inputs

Eight (8) digital outputs

Pulse width modulating (PWM) capable

3A continuous per output

Closed Loop System

Circuit protection based on actual current draw (not affected by heat)

Input Module

16 software selectable digital inputs

Output Module

16 digital outputs

Input/Output Module

Eight (8) software selectable (digital or analog) inputs

Eight (8) digital outputs

0804781

Aerial Scene Lts Separated into
Aerial Tip Category and Aerial
Tracking Category

0783178	Lights, Tip, Wln MPB* LED, Front of Basket 2lts	TIP LIGHT There will be two (2) Whelen® Model MPB*, 4,100 lumens 12 volt DC LED lights with adjustable mounts installed on the front of the basket. The painted parts of this light assembly to be white. The lights will be controlled with the tracking lights.
0802753	Lights, Tracking, Wln MP** LED, 2lts	TRACKING LIGHTS There will be two (2) Whelen® MP**, 5,695 lumens 12 volt DC LED lights installed on the base section of the aerial device below the hand rails per the following: One (1) will be located on the left side with left side tracking light to include narrow flood optics. One (1) will be located on the right side with right side tracking light to include narrow flood optics. The light(s) to be installed on adjustable bail bracket(s). The painted parts of this light assembly to be white. The tracking lights will be controlled by a switch located at the platform/tip and turntable.
0653737	Lighting, Rung, LED, TecNiq, 3 Section, Base, Mid, Fly	LIGHTING ON AERIAL LADDER There will be TecNiq, Model D02, LED rung lighting provided on both sides of the aerial ladder base, mid, and fly sections. The lighting will be located adjacent to the ladder rungs along the lower rail of the ladder sections and will run the length of the ladder section. The color of the sections will be: The base section of the ladder to be red. The mid section of the ladder to be white. The fly section of the ladder, excluding the egress, to be blue. The LED rung lighting will be activated when the aerial master switch is activated, a switch at the turntable operator's panel is activated through the aerial master and a switch at the turntable operator's panel is activated through the master battery switch. The lights may be load managed when the parking brake is applied.
0540743	Lights, Stabilizer Warn (2) Sets, Wln M6°C LED, Clear Lens	STABILIZER WARNING LIGHTS There will be our (4) Whelen®, Model M6°C, LED flashing warning lights with Whelen, Model M6FC, chrome flanges installed, one (1) on each stabilizer cover panel. The front stabilizer pan lights will be red LED with a clear lens The rear stabilizer pan lights will be red LED with a clear lens These warning lights will be activated by the same switch as the side warning lights.
0068701	Lights, Grote Supernova LED, Stabilizer Beam, (2) Sets	STABILIZER BEAM WARNING LIGHTS Two (2) 4.00" diameter red LED flashing lights will be mounted on each stabilizer, one (1) facing forward and one (1) facing rearward. The lights will be Grote Supernova 40 series LED lights. The lights will be recessed in the horizontal beam of the stabilizer. These warning lights will be activated with the aerial master switch.
0601977	Lights, Stabilizer Scene, (2) sets, Truck-Lite 40227C, Incandescent	STABILIZER SCENE LIGHTS There will be one (1) Truck-Lite, Model 40227C 4.00" incandescent, scene light installed under each stabilizer beam to illuminate the surrounding area. A total of four (4) lights will be installed. These lights will be activated by the aerial master switch.
0750301	DC Power to Basket 13.92 Amps @ 12 Volts DC, 100'PAP, RMAP	DC POWER CABLE TO BASKET There will be a cable installed in the aerial device to provide 13.92 amps @ 12 volts DC to the aerial basket.
0760583	Light, FRC, Spectra, SPA900 LED, 12 Volt, Under Basket Mount, PAP	120 VOLT SIDE PLATFORM LIGHTING There will be one (1) Fire Research Spectra, Model SPA900, 7,000 lumens 12 volt DC surface mount LED light(s) with white bezel(s) provided under the platform near the center facing down. These light(s) will be switched at the platform/tip and turntable.
0753023	SP Light, Wln P*H1P1**, 12 Volt LED, Top Raise, Rear Basket, 2nd	SIDE PLATFORM 12 VOLT DC LIGHTING There will be two (2) Whelen®, Model P*H1P1**, 9,260 lumens 12 volt DC light(s) with white LEDs, switch on light head, a combination of flood and spot optics and painted parts of this light assembly to be white installed on the rear of the platform basket on the driver and passenger side. Light(s) will be switched at the platform/tip and turntable. The light(s) may be load managed when the parking brake is applied.
0737181	Intercom, 2-Way Fire Research ICA910 Hands Free	2-WAY AERIAL COMMUNICATION SYSTEM There will be a Fire Research, Model ICA910, two-way intercom system provided. The control module with an LED volume display and push-button volume control will be located on the turntable operator console. A hands free module will be located at the aerial tip or platform and constantly transmit to the other module unless the control module push-to-talk button is pressed. Each intercom unit will be weatherproof.

0590098	Breathing Air to Tip, (1) 4500 PSI, 100' PAP	<p>BREATHING AIR Breathing air will be supplied to the aerial platform. The air system will incorporate one (1), 437 cubic foot, 4500-psi cylinder. To allow the turntable operator an unobstructed view of the platform the cylinder will be mounted directly in front of the turntable and below the ladders. The air cylinder will be interconnected through a pressure regulator located at the air cylinder. A shutoff valve with guard will be provided on the cylinder. The air will be routed to the basket using hose especially designed for use in breathing air systems. At the platform, the breathing air will be accessible via two (2) quick couplings for air masks. These will have a Hansen brass 3000 series coupling. One (1) coupling will be located at the front of the basket on the right side and one (1) coupling will be located at the rear of the basket on the left hand side. There will be a weather resistant storage compartment for two (2) air masks provided at the basket with a rubber draw latch. A 50' recharge hose will be provided for refilling the air cylinder without having to remove the tank from its mounting. The breathing air cylinder will be designed and constructed to conform to the requirements of the United Nations (UN) on the transportation of dangerous goods.</p> <p>BREATHING AIR LEVEL AND WARNING SYSTEM The level of breathing air remaining will be visible on the LCD display at all operating positions. The display will incorporate a low-pressure warning circuit that activates an audible alarm when 20% maximum air cylinder capacity remains. A second, louder audible alarm will activate when the remaining air level drops to 10% of maximum air cylinder capacity.</p>
0024742	Not Required, Mask, Breathing Air To Tip	
0126600	Raised Pedestal, 3.00", Rear Mount Aerials, Velocity, Impel, Enf	<p>RAISED AERIAL PEDESTAL The aerial pedestal will be raised to accommodate the height of the cab.</p>
0540605	Lyfe Brackets, 3-In-1, Used w/Duo-Safety 875 Ladders ONLY, Wide Basket	<p>LyfeCombo™ BRACKETS One (1) set of brackets will be supplied which will have the following three (3) options combined into one (1) set of brackets. LyfeLadder™ brackets will be provided for use at the front of the platform basket to increase the safety of firefighters during fireground and rescue operations. LyfeLadder brackets will be capable of holding up to a 20' Duo-Safety roof ladder securely in place. The roof ladder will be 19.00" wide. The ladder will be secured through its beams and one (1) rung, by a bar capable of being latched in place and able to withstand a minimum of a 500 pound load while maintaining a minimum of a two to one (2:1) safety factor. The complete system will maintain and exceed this criteria as well. There will also be a latching pawl to keep the ladder in a vertical position at all times and will latch on a rung, at least two (2) rungs below the primary attachment point. There has been appropriate strain gauging and testing completed on the system, (ladder and complete holding device), proving the above criteria has been satisfied. Additionally there is a letter on file from the roof ladder manufacturer, (Duo-Safety Corporation), stating that their standard roof ladder is approved for such an application. LyfeEye™ rappelling arms will be provided. The LyfeEye brackets will mount to the front of the platform basket, one (1) each side over the monitor/s and will be held in place with four (4) hardened 1.00" hitch pins, two (2) for each bracket. The LyfeEye brackets will be easily removable for storage. Each LyfeEye rappelling arm will have a capacity of 300#. LyfeSupport™ rescue basket support brackets will be provided. The LyfeSupport brackets will mount to the front of the platform basket, one (1) each side over the monitor/s and will be held in place with four (4) hardened 1.00" hitch pins, two (2) for each bracket. The LyfeSupport brackets will be easily removable for storage. Two (2) quick clip basket straps will be used to secure the basket to the LyfeSupport brackets.</p>
0530826	Turntable Access, ManSaver Bars, Yellow	<p>AERIAL TURNTABLE MANSAYER™ BARS Yellow ManSaver™ bars will be installed at the aerial turntable.</p>

0016950	Waterway, 100' PAP	<p>AERIAL WATERWAY The aerial waterway will be capable of being supplied by either a midship mounted pump or an external water source through a 5.00" intake at the rear of the apparatus. A 5.00" water swivel will be installed below the aerial turntable permitting the ladder to rotate 360 degrees continuously. A 5.00" water swivel will be installed at the aerial heel pivot pin that will permit water tower operations of -5 degrees to 75 degrees. The heel pivot pin will not be integral with the waterway swivel at any point. The waterway design will allow complete servicing of the waterway swivel without disturbing the heel pivot pin. A telescoping aluminum waterway will be installed beneath the center of the aerial ladder. The waterway will consist of a 5.00" diameter tube for the base section, 4.50" diameter tube for the mid-section and 4.00" diameter tube for the fly section. A 1.50" drain will be provided for the waterway with the control at the rear of the unit.</p> <p>WATERWAY SEALS The waterway seals will be of type-B PolyPak design, composed of nitroxile seal and a nitrile wiper, which together offer maximum stability and extrusion resistance on the waterway. The seal will be capable of withstanding pressures up to 2000 psi, temperatures in excess of 250 degrees Fahrenheit and have resistance to all foam generating solutions. The seals will be internally lubricated. The waterway seals will have automatic centering guides constructed of synthetic thermalpolymer. The guides will provide positive centering of the extendible sections within each other and the base section to insure longer service life and smoother operation.</p> <p>PLATFORM WATER SYSTEM A 4.00" (internal diameter) water swivel will connect the fly section waterway to the platform waterway. The water swivel will permit water tower operations from -5 degrees to 75 degrees. The water will be routed from the swivel to a 4.00" gear operated butterfly valve on the front of the platform using a 4.00" tube. The deluge gun will be bolted onto the butterfly valve. A 2.50" preset pressure relief valve will be provided in the waterway system. It will be designed to protect the aerial waterway from excess pressure. It will dump water to the ground when operating. A shower nozzle rated at 75 gpm will be provided beneath the platform for heat protection for the platform personnel. A direct linkage control for the shower nozzle will be provided.</p>
0016951	(2) Preconnects At Platform, PAP	<p>Two (2) - 2.50" preconnects will be provided at the front of the platform. The preconnects will be gated at the platform. One preconnect will be furnished with 2.50" NST threads and chrome plated cap and the other will be provided with a 2.50" x 1.50" NST reducer and a chrome plated cap.</p>
0540474	Monitor, TFT Monsoon Y4-E21A-P Electric	<p>AERIAL MONITOR A Task Force Tips Model Y4-E21A-P monitor will be provided at the front of the platform with a TFT 2000 gpm Model M-ERP2000 electric nozzle. The controls for the electronic monitor will be located at the platform and the turntable control console.</p>
0086971	Flowmeter, Waterway, MUX, PAP	<p>WATERWAY FLOWMETER Waterway flow, including total water flowed, will be monitored by the microprocessor. An LCD display will be located at the upper and lower control stations.</p>
0004836	Inlet, 5.00" at Rear w/ Pump, Ascendant Tandem, PAP, PAL	<p>REAR INLET A 5.00" NST inlet to the aerial waterway will be provided at the rear of the apparatus. It will be furnished with a 5.00" chrome plated adapter and a 5.00" chrome plated, long handle cap.</p>
0047897	Tools, Aerial	<p>TOOLS The following tools will be provided for retorquing of all specified bolts as recommended by the manufacturer: Torque Wrench All Required Extensions, Sockets and Adapters 4-to-1 Multiplier</p>
0559491	Manuals and Training, 3 Consecutive Days, Platform, English	<p>MANUALS The aerial manufacturer will provide two (2) operator maintenance manuals and two (2) wiring diagrams pertaining to the aerial device. Manuals will be in the English language.</p> <p>INITIAL INSTRUCTION On initial delivery of the fire apparatus, the contractor will supply a qualified representative to demonstrate the apparatus and provide initial instruction to the fire department regarding the operation, care, and maintenance of the apparatus for a period of three (3) consecutive days.</p>
0007150	Bag of Nuts and Bolts	<p>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.</p>

0687290	Nozzle, TFT YST-4NN, Stacked Tips w/ Built in Stream Straightener	NOZZLE Task Force Tips model YST-4NN quad stacked tips with a built in stream straightener will be provided.
0816502	NFPA Required Loose Equipment, Quint, NFPA/ULC 2024, Provided by Fire Dept	NFPA LOOSE EQUIPMENT NFPA Required Loose Equipment Provided by Fire Department The following loose equipment as outlined in NFPA 1900, 2024 edition, table 8.1 and CAN/ULC S515:2024 edition, section 5.2 will be provided by the fire department: One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 107, <i>American National Standard for High-Visibility Safety Apparel and Accessories</i> , 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. Four (4) ladder belts meeting the requirements of NFPA 2500. NFPA Loose Equipment That Should be Considered The following loose equipment as outlined in NFPA 1900, 2024 edition, appendix table A.8.4 (a) and CAN/ULC S515:2024 edition, section 5.2 should be considered: 800 ft (240 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 min Two (2) handline nozzles, 95 gpm min One (1) playpipe with shutoff and 1", 1.125", and 1.25" tips Four (4) SCBA apparatus Four (4) SCBA spare cylinders One (1) first aid kit. Four (4) salvage covers, each a minimum size of 12 ft x 18 ft (3.6 m x 5.5 m). Four (4) combination spanner wrenches. Two (2) hydrant wrenches. One (1) double female 2.50" adapter with national hose (NH) thread. One (1) double male 2.50" adapter with national hose (NH) thread. One (1) rubber mallet, suitable for use on suction hose connections. One (1) 150 ft (45 m) light-use life safety rope meeting the requirements of NFPA 2500. One (1) 150 ft (45 m) general-use life safety rope meeting the requirements of NFPA 2500. One (1) automatic external defibrillator (AED).
0067022	Hose, 6.00" Soft Suction - 15 Ft. Long	SOFT SUCTION HOSE There will be a 15' length of 6.00" soft suction hose provided with a 6.00" long handle swivel coupling on one (1) end and a 4.50" long handle swivel coupling on the other.
0027023	No Strainer Required	
0816939	Extinguisher, Dry Chemical, NFPA 2024, Provided by Fire Department	DRY CHEMICAL EXTINGUISHER PROVIDED BY FIRE DEPARTMENT The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.
0816937	Extinguisher, 2.5 Gal. Pressurized Water, NFPA/ULC 2024, Provided by Fire Dept	WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.
0765595	Ladder Belts, Aerial	AERIAL LADDER BELTS The following ladder belts will be provided: no small/medium belts two (2) large/extra large belts for 34"-42" waist one (1) XXL belt for 42"-50" waist
0007482	Not Required, Crowbars	
0007484	Not Required, Claw Tools	
0816998	Axe, Flathead, Provided by Fire Department	FLATHEAD AXE PROVIDED BY FIRE DEPARTMENT The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.
0817000	Axe, Pickhead, Provided by Fire Department	PICKHEAD AXE PROVIDED BY FIRE DEPARTMENT The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.

0007494 Not Required, Sledgehammers

0741569 Paint Process / Environmental Requirements, Appleton

PAINT PROCESS

The exterior custom cab and body painting procedure will consist of a seven (7) step finishing process as follows:

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.

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.

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.

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.

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.

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.

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. The manufacturer's written paint standards will be available upon request.

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 percent 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 percent. Water wash systems will be 99.97 percent 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.

0709763 Paint, Single Color, Velocity/Impel

CAB PAINT

The cab will be painted **100 Red**.

0709845 Paint, Single Color, Body

BODY PAINT

The body will be **painted to match the single cab paint color**.

0646901	Paint Chassis Frame Assy, With Liner, E-Coat, Standard	<p>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 (unless otherwise stated in a secondary option) are:</p> <ul style="list-style-type: none"> 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 Steel fuel tank Castings <p>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.</p>
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0693797	No Paint Required, Aluminum Front Wheels
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0693792	No Paint Required, Aluminum Rear Wheels
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0733739	Paint, Axle Hubs
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AXLE HUB PAINT
All axle hubs will be painted **black #101**.

0007230	Compartment, Painted, Spatter Gray
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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.

0792638	Aerial Platform Paint	<p>AERIAL DEVICE PAINT COLOR</p> <p>The aerial device paint procedure will consist of a seven (7) step finishing process as follows:</p> <ol style="list-style-type: none"> Manual Surface Preparation - All exposed metal surfaces on the aerial device structural components above the rotation point will be thoroughly cleaned and mechanically shot-blasted to remove metal impurities and prepare the aerial for painting. Zinc Rich Primer - Zinc rich primer will be applied to the torque box and stabilizers. Primer/Surfacer Coats - A two (2) component epoxy primer/surfacer will be applied to the mechanically shot-blasted metal surfaces to provide a strong corrosion protective base coat and to smooth out the surface. All seams will be caulked with a two (2) component epoxy caulk before painting. Hand Sanding - The primer/surfacer coat of the outer surfaces of the hand rails and base rails will be lightly sanded to a smooth finish. Primer Coat - A two (2) component epoxy primer coat will be applied over the sanded primer. Topcoat Paint - Urethane base coat will be applied to opacity for correct color matching. Clear Coat - Two (2) coats of an automotive grade two (2) component urethane will be applied. Surfaces that will not be painted include all chrome plated, polished stainless steel, anodized aluminum and bright aluminum treadplate. <p>All buy out components, such as monitor, nozzle, gauges, etc. will be supplied as received from the vendor.</p> <p>Removable items such as brackets will be removed and painted separately to ensure paint coverage behind all mounted items.</p> <p>The aerial device components will be painted as follows using the aforementioned seven (7) step finishing process:</p> <p>Aerial basket and basket leveling cylinders at tip: white 10 Aerial device ladder sections and extension cylinders: white 10 Aerial turntable and leveling cylinders (if applicable) at turntable: white 10 Aerial control console: white 10 Aerial lift cylinders: white 10 Aerial rotation motor (if applicable): black Aerial torque box, support structure and components below the rotation point: gloss black primer Aerial stabilizers (middle and rear only): black 101 Aerial boom support: gloss black primer</p>
0544099	Reflective Band, 8"	<p>REFLECTIVE BAND</p> <p>An 8.00" white reflective band will be provided across the front of the vehicle and along the sides of the cab and body.</p>
0510041	Reflective across Cab Face, Imp/Vel	<p>The reflective band provided on the cab face will be below the headlights on the fiberglass.</p>
0583454	Stripe, Chevron, Rear, Diamond Grade, Aerial	<p>REAR CHEVRON STRIPING</p> <p>There will be alternating chevron striping located on the rear-facing vertical surface of the apparatus. Covered surfaces will include the rear wall and aluminum doors. Rear compartment doors, stainless steel access doors, and the rear bumper will not be covered. The colors will be red and yellow 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.</p>
0598754	Stripe, Reflective/Diamond Grade, 4.00" on Stabilizers	<p>REFLECTIVE STRIPE ON STABILIZERS</p> <p>There will be a 4.00" wide fluorescent yellow green diamond grade reflective stripe provided on the forward and rear facing side of all aerial stabilizers.</p>
0017359	Stripe, Black Outline, Vinyl on Reflective Band	<p>REFLECTIVE STRIPE OUTLINE</p> <p>A black outline will be applied on the top and the bottom of the reflective band. There will be one (1) set of outline stripes required.</p>
0669643	Stripe, Reflective, Inside Aluminum Rub Rail	<p>REFLECTIVE STRIPE INSIDE RUBRAILS</p> <p>A reflective stripe will be provided inside the extruded aluminum rub rails. The reflective material will be white. There will be a quantity of eight (8) rub rails striped.</p>
0552453	Stripe, Reflective, Chevron, Cab and Crew Cab Doors Interior, Diamond Grade	<p>INVERTED "V" CHEVRON STRIPING ON CAB AND CREW CAB DOORS</p> <p>There will be alternating chevron striping located on the inside of each cab and crew cab door. The striping will consist of the following colors: The first color will be red diamond grade. The second color will be yellow diamond grade. The size of the striping will be 4.00".</p>
0033179	Lettering Specifications, Reflective	

0686138	Lettering, Reflective, 6.00", Each	LETTERING There will be reflective lettering, 6.00" high, with outline and shade provided. There will be 30 letters provided.
0685998	Lettering, Reflective, 9.00", Each	LETTERING There will be reflective lettering, 9.00" high, with outline and shade provided. There will be four (4) letters provided.
0686007	Lettering, Reflective, 7.00", Each	LETTERING There will be reflective lettering, 7.00" high, with outline and shade provided. There will be six (6) letters provided.
0686084	Lettering, Reflective, 3.00", Each	LETTERING There will be reflective lettering, 3.00" high, with outline and shade provided. There will be 12 letters provided.
0684022	Lettering, Vinyl, 8.00", Each	LETTERING There will be non-reflective vinyl lettering, 8.00" high, with no outline or shade provided. There will be four (4) letters provided.
0017268	Decals, Customer furnished, Pierce installed, Per Pair	DECAL INSTALLATION There will be one (1) pair of decals furnished by the fire department and applied by the apparatus manufacturer.
0766127	Emblem, Arizona Flag Painted on Cab Grille, All Custom Chassis	CAB GRILLE DESIGN A Arizona flag design will be painted on the cab grille.
0772003	Manual, Fire Apparatus Parts, USB Flash Drive, Custom	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.
0772037	Manual, Chassis Service, USB Flash Drive, Custom	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.
0773381	Manual, Chassis Operation, (1) USB Flash Drive, Custom, English	CHASSIS OPERATION MANUAL The chassis operation manual will be provided on one (1) USB flash drive. The manual will be in the English language.
0030008	Warranty, Basic, 1 Year, Apparatus, WA0008	ONE (1) YEAR MATERIAL AND WORKMANSHIP A Pierce basic apparatus limited warranty certificate, WA0008, is included with this proposal.

0611136	Warranty, Chassis, 3 Year, Velocity/Impel, WA0284	THREE (3) YEAR MATERIAL AND WORKMANSHIP The Pierce custom chassis limited warranty certificate, WA0284, is included with this proposal.
0696698	Warranty, Engine, Cummins, 5 Year, WA0181	ENGINE WARRANTY A Cummins five (5) year limited engine warranty will be provided. A limited warranty certificate, WA0181, is included with this proposal.
0684953	Warranty, Steering Gear, Sheppard M110, 3 Year WA0201	STEERING GEAR WARRANTY A Sheppard three (3) year limited steering gear warranty will be provided. A copy of the warranty certificate will be submitted with this proposal.
0595767	Warranty, Frame, 50 Year, Velocity/Impel, WA0038	FIFTY (50) YEAR STRUCTURAL INTEGRITY The Pierce custom chassis frame and crossmembers limited warranty certificate, WA0038, is included with this proposal.
0595698	Warranty, Axle, 3 Year, TAK-4, WA0050	FRONT AXLE THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY The Pierce TAK-4 suspension limited warranty certificate, WA0050, is included with this proposal.
0733305	Warranty, Tandem Axle, 5 Year, Meritor, General Service, WA0384	TDM REAR AXLE FIVE (5) YEAR MATERIAL AND WORKMANSHIP WARRANTY A Meritor™ Axle 5 year limited warranty will be provided.
0652758	Warranty, ABS Brake System, 3 Year, Meritor Wabco, WA0232	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.
0019914	Warranty, Structure, 10 Year, Custom Cab, WA0012	TEN (10) YEAR STRUCTURAL INTEGRITY The Pierce custom cab limited warranty certificate, WA0012, is included with this proposal.
0744240	Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	TEN (10) YEAR PRO-RATED PAINT AND CORROSION A Pierce cab limited pro-rated paint warranty certificate, WA0055, is included with this proposal.
0524627	Warranty, Electronics, 5 Year, MUX, WA0014	FIVE (5) YEAR MATERIAL AND WORKMANSHIP The Pierce Command Zone electronics limited warranty certificate, WA0014, is included with this proposal.
0695416	Warranty, Pierce Camera System, WA0188	CAMERA SYSTEM WARRANTY A Pierce fifty four (54) monthwarranty will be provided for the camera system.
0647720	Warranty, Pierce LED Strip Lights, WA0203	COMPARTMENT LIGHT WARRANTY The Pierce 12 volt DC LED strip lights limited warranty certificate, WA0203, is included with this proposal.
0046369	Warranty, 5-year EVS Transmission, Standard Custom, WA0187	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.
06885945	Warranty, Transmission Cooler, WA0216	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 included with this proposal.
0688798	Warranty, Water Tank, Lifetime, UPF, Poly Tank, WA0195	WATER TANK WARRANTY A UPF poly water tank limited warranty certificate, WA0195, is included with this proposal.
0596025	Warranty, Structure, 10 Year, Body, WA0009	TEN (10) YEAR STRUCTURAL INTEGRITY The Pierce apparatus body limited warranty certificate, WA0009, is included with this proposal.

0693126	Warranty, AMDOR, Roll-up Door, 10 Year/5 Year Painted, WA0185	<p>ROLL UP DOOR MATERIAL AND WORKMANSHIP WARRANTY An AMDOR roll-up door limited warranty will be provided. The roll-up door will be warranted against manufacturing defects for a period of ten (10) years. A five (5) year limited warranty will be provided on painted roll up doors. The limited warranty certificate, WA0185, is included with this proposal.</p>
0889364	Warranty, Pump, Pierce, PUC-NG, 7 Year Parts, 1 Year Labor, WA0390	<p>SEVEN (7) YEAR PARTS, ONE (1) YEAR LABOR The pump and its components will be provided with a seven (7) year parts and one (1) year labor limited warranty. The manufacturer's warranty will provide that the pump and its components will be free from failures caused by defects in material and workmanship that would arise under normal use and service. A copy of the warranty certificate will be submitted with the bid package.</p>
0648675	Warranty, 10 Year S/S Pumping, WA0035	<p>TEN (10) YEAR PUMP PLUMBING WARRANTY The Pierce apparatus plumbing limited warranty certificate, WA0035, is included with this proposal.</p>
0657846	Warranty, Foam System, Husky 12, WA0231	<p>FOAM SYSTEM WARRANTY The Husky 12 foam system limited warranty certificate, WA0231, is included with this proposal.</p>
0006999	Warranty, Structure, 20 Year, Aerial Device, WA0052	<p>TWENTY (20) YEAR AERIAL DEVICE STRUCTURAL INTEGRITY WARRANTY The Pierce device limited warranty certificate, WA0052, is included with this proposal.</p>
0687388	Warranty, Swivels, 5 Year, Aerial Device, WA0197	<p>AERIAL SWIVEL WARRANTY An Amity five (5) year limited swivel warranty will be provided. A copy of the warranty certificate will be included with this proposal.</p>
0685727	Warranty, Hydraulic System and Components, 3 Year/5 Year, WA0200	<p>HYDRAULIC SYSTEM COMPONENTS WARRANTY Aerial hydraulic system components will be provided with a five (5) year material and workmanship limited warranty. HYDRAULIC SEAL WARRANTY Aerial hydraulic seals will be provided with a three (3) year material and workmanship limited warranty. A copy of the warranty certificates is included with this proposal.</p>
0687327	Warranty, Waterway, 10 Year, Aerial Device, WA0198	<p>AERIAL WATERWAY WARRANTY An Amity ten (10) year limited waterway warranty will be provided. A copy of the warranty certificate is included with this proposal.</p>
0595860	Warranty, Paint, 4 Year, Aerial Device, Pro-Rated, WA0047	<p>FOUR (4) YEAR PRO-RATED PAINT AND CORROSION A Pierce aerial device limited pro-rated paint warranty certificate, WA0047, is included with this proposal.</p>
0553455	Warranty, Electronics, 5 Year, MUX, WA0014	<p>FIVE (5) YEAR MATERIAL AND WORKMANSHIP The Pierce Command Zone electronics limited warranty certificate, WA0014, is included with this proposal.</p>
0595820	Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	<p>TEN (10) YEAR PRO-RATED PAINT AND CORROSION A Pierce body limited pro-rated paint warranty certificate, WA0057, is included with this proposal.</p>
0595412	Warranty, Graphics Lamination, 1 Year, Apparatus, WA0168	<p>ONE (1) YEAR MATERIAL AND WORKMANSHIP The Pierce graphics fading and deterioration limited warranty limited warranty certificate, WA0168, is included with this proposal.</p>
0595446	Warranty, Extended, 2 Year, Aerial Body and Device, Platform, WA0114	<p>TWO (2) YEAR EXTENDED The Pierce aerial platform body and device limited warranty certificate, WA0114, is included with this proposal.</p>
0596326	Warranty, Extended, 2 Year, Custom Chassis, Class H, WA0069	<p>TWO (2) YEAR EXTENDED The Pierce custom chassis warranty certificate, WA0069, is included with this proposal.</p>

0819254	Certification, Vehicle Stability, CD0196	<p>VEHICLE STABILITY CERTIFICATION The fire apparatus manufacturer will provide a certification stating the apparatus complies with NFPA 1900, current edition, section 7.14, Vehicle Stability. The certification is included with this proposal.</p>
0808577	Certification, Engine Installation, Velocity, Cummins X15, 2027	<p>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.</p>
0686786	Certification, Power Steering, CD0098	<p>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 is included with this proposal.</p>
0892701	Certification, Cab Integrity, Impel/Velocity FR, CD0190	<p>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: SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks. European Occupant Protection Standard ECE Regulation No.29. SAE J2420 COE Frontal Strength Evaluation - Dynamic Loading Heavy Trucks.</p> <p>Side Impact The cab will be subjected to dynamic preload where a 14,320-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.</p> <p>Roof Crush The same cab will be subjected to a roof crush force of 22,050 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.</p> <p>Additional Roof Crush The same cab will be subjected to a roof crush force of 100,000 lb. (Four and a half times the load criteria of ECE 29)</p> <p>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.</p> <p>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.</p>
0548950	Certification, Cab Door Durability, Velocity/Impel, CD0001	<p>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.</p>
0548967	Certification, Windshield Wiper Durability, Impel/Velocity, CD0005	<p>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 <i>Windshield Wiper Systems - Trucks, Buses and Multipurpose Vehicles</i>. The bidder will certify that the wiper system design has been tested and that the wiper system has met these criteria.</p>
0667411	Certification, Electric Window Durability, Velocity/Impel FR, CD0004	<p>ELECTRIC WINDOW DURABILITY CERTIFICATION Cab window roll-up systems can cause maintenance problems if not designed for long service life. The window regulator design will complete 30,000 complete up-down cycles and still function normally when finished. The bidder will certify that sample doors and windows similar to those provided on the apparatus have been tested and have met these criteria without malfunction or significant component wear.</p>

0549273	Certification, Seat Belt Anchors and Mounting, Imp/Vel/Vel SLT, CD0018	<p>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.</p> <p>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 that each seat mount and cab structure design was pull tested to the required force and met the appropriate criteria.</p>
0735950	Certification, Cab HVAC System Perf, Vel/Imp FR, CD0166/CD0168/CD0176/CD0177	<p>PERFORMANCE CERTIFICATIONS</p> <p>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.</p> <p>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. <i>The bidder will certify that the defrost system design has been tested in a cold chamber and passes the SAE J381 criteria.</i></p> <p>Cab Auxiliary Heater <i>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.</i></p>
0545073	Amp Draw Report, NFPA Current Edition	<p>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: Current edition of applicable NFPA standards. The minimum continuous load of each component that is specified per: Current edition of applicable NFPA standards. 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 current edition of applicable NFPA standards.</p>
0002758	Amp Draw, NFPA/ULC Radio Allowance	
0799248	Appleton/Florida BTO	
0000033	PAP BODY	
0000012	PIERCE CHASSIS	
0004713	ENGINE, OTHER	
0046396	EVS 4000 Series TRANSMISSION	
0520324	PIERCE PUMP, PUC	
0020009	POLY TANK	
0028048	FOAM SYSTEM	

0020006 SIDE CONTROL

0020007 AKRON VALVES

0020015 ABS SYSTEM

0755454 AERIAL MEDIUM

Governing Board Meeting – November 19, 2025

Agenda Item: 9

Agenda Item Title

Approval of an addendum to the lease purchase agreement, Board Resolution #2025-11-19-2, approval of certificate of authority, approval of consent and waiver, approval of addendum to escrow agreement from Zions Bancorporation, N.A. for a 2025 Horton 623 Ambulance with warranty, power loader, and cot.

Submitted By

John Whitney, Fire Chief

Billy Warren, Transportation Services Director

Background/Discussion

In April of 2022, a 5-year replacement plan was presented and approved by the board. Since then, we have received two ambulances in the plan. Fortunately, we were able to pay for the first two ambulances through ARPA funding and a grant from the Gila River Indian Community. It is now time to pay for the third ambulance on the 5-year replacement plan. The purchase of this ambulance was approved by the board in December 2023. This agenda item is to approve the lease agreement for this ambulance with Zions Bancorporation.

Financial Impact(s)/Budget Line Item

The budgetary impact on this purchase will be \$64970.58.

Enclosure(s)

Lease Agreement

Escrow Agreement

Recommended Motion

"Motion to approve Resolution #2025-11-19-2, a lease purchase agreement and escrow agreement from Zions Bancorporation, N.A. for a 2025 Horton 623 Ambulance with warranty, power loader, and cot."



Go To Item 10

Go to Agenda

ARIZONA FIXED EQUIPMENT LEASE

Long Name of Entity: Superstition Fire & Medical District

Address: 565 N. Idaho Road

City, State Zip: Apache Junction, AZ 85119

Attention: Billy Warren

Public Finance Office: Director-Transportation Services

County: Pinal

Amount: 430,294.80

Rate: 4.40

Maturity Date: November 25, 2033

First Pmt Date: November 25, 2026

Payment Dates: November 25

Auto Extend: 8

Governing Body: Board of Directors

Resolution Date: November, 2025

Dated Date: November, 2025

Day: 25th

State: Arizona

\$430,294.80
Superstition Fire & Medical District
Lease/Purchase Agreement

1. Lease/Purchase Agreement of the Superstition Fire & Medical District
2. Exhibit A. Lease Payment Debt Service Schedule
3. Exhibit B. Description of Leased Property
4. Exhibit C. Resolution of Governing Body
5. Exhibit D. Opinion of Lessee's Counsel
6. Exhibit E. Security Documents
7. Exhibit F. Delivery and Acceptance Certificate
8. Exhibit G. Escrow Agreement
9. Form 8038-G
10. Wire Transfer Request

LEASE/PURCHASE AGREEMENT

Dated as of November 25, 2025

by and between

ZIONS BANCORPORATION, N.A.,
as Lessor

and

SUPERSTITION FIRE & MEDICAL DISTRICT,
as Lessee

TABLE OF CONTENTS

ARTICLE I		ARTICLE IX	
DEFINITIONS AND EXHIBITS		MISCELLANEOUS	
SECTION 1.1	Definitions and Rules of Construction1	SECTION 9.1	Notices16
SECTION 1.2	Exhibits3	SECTION 9.2	System of Registration17
ARTICLE II		SECTION 9.3	Instruments of Further Assurance17
REPRESENTATIONS COVENANTS AND WARRANTIES		SECTION 9.4	Binding Effect17
SECTION 2.1	Representations, Covenants and Warranties of the Lessee3	SECTION 9.5	Amendments17
SECTION 2.2	Representations, Covenants and Warranties of the Bank8	SECTION 9.6	Section Headings17
ARTICLE III		SECTION 9.7	Severability17
LEASE; LEASE PAYMENTS		SECTION 9.8	Entire Agreement17
SECTION 3.1	Lease8	SECTION 9.9	Execution in Counterparts17
SECTION 3.2	Term9	SECTION 9.10	Arbitration17
SECTION 3.3	Termination9	SECTION 9.11	Applicable Law18
SECTION 3.4	Lease Payments9	SECTION 9.12	Immigration18
SECTION 3.5	Possession of Leased Property Upon Termination10	SECTION 9.13	Boycotting Israel18
SECTION 3.6	No Withholding10		
SECTION 3.7	Lease Payments to Constitute a Current Obligation of the Lessee10		Schedule of Lease PaymentsExhibit A
SECTION 3.8	Net Lease10		Description of the Leased PropertyExhibit B
SECTION 3.9	Offset10		Resolution of Governing BodyExhibit C
ARTICLE IV			Opinion of Lessee's CounselExhibit D
INSURANCE			Security DocumentsExhibit E
SECTION 4.1	Insurance10		Delivery and Acceptance CertificateExhibit F
SECTION 4.2	Damage to or Destruction of the Leased Property11		Escrow AgreementExhibit G
ARTICLE V			
COVENANTS			
SECTION 5.1	Use of the Leased Property11		
SECTION 5.2	Interest in the Leased Property and this Lease12		
SECTION 5.3	Maintenance, Utilities, Taxes and Assessments12		
SECTION 5.4	Modification of the Leased Property12		
SECTION 5.5	Permits13		
SECTION 5.6	Bank's Right to Perform for Lessee13		
SECTION 5.7	Bank's Disclaimer of Warranties13		
SECTION 5.8	Indemnification13		
SECTION 5.9	Inclusion for Consideration as Budget Item14		
SECTION 5.10	Annual Financial Information14		
ARTICLE VI			
ASSIGNMENT AND SUBLEASING			
SECTION 6.1	Assignment by the Bank14		
SECTION 6.2	Assignment and Subleasing by the Lessee14		
ARTICLE VII			
EVENTS OF DEFAULT AND REMEDIES			
SECTION 7.1	Events of Default Defined14		
SECTION 7.2	Remedies on Default15		
SECTION 7.3	No Remedy Exclusive15		
SECTION 7.4	Agreement to Pay Attorneys' Fees and Expenses15		
SECTION 7.5	Waiver of Certain Damages15		
ARTICLE VIII			
PREPAYMENT OF LEASE PAYMENTS IN PART			
SECTION 8.1	Extraordinary Prepayment From Net Proceeds16		
SECTION 8.2	Option to Purchase Leased Property16		

LEASE/PURCHASE AGREEMENT

THIS LEASE/PURCHASE AGREEMENT, dated as of November 25, 2025, by and between ZIONS BANCORPORATION, N.A., a national banking association duly organized and existing under the laws of the United States of America, as lessor (the “Bank” or “Lessor”), and Superstition Fire & Medical District (the “Lessee”), a public agency of the State of Arizona (the “State”), duly organized and existing under the Constitution and laws of the State, as lessee;

W I T N E S S E T H:

WHEREAS, the Lessee desires to finance the acquisition of the equipment and/or other personal property described as the “Leased Property” in Exhibit B (the “Leased Property”) by entering into this Lease/Purchase Agreement with the Bank (the “Lease”); and

WHEREAS, the Bank agrees to lease the Leased Property to the Lessee upon the terms and conditions set forth in this Lease, with rental to be paid by the Lessee equal to the Lease Payments hereunder; and

WHEREAS, it is the intent of the parties that the original term of this Lease, and any subsequent renewal terms, shall not exceed 12 months, and that the payment obligation of the Lessee shall not constitute a general obligation under State law; and

WHEREAS, all acts, conditions and things required by law to exist, to have happened and to have been performed precedent to and in connection with the execution and delivery of this Lease do exist, have happened and have been performed in regular and due time, form and manner as required by law, and the parties hereto are now duly authorized to execute and enter into this Lease;

NOW, THEREFORE, in consideration of the above premises and of the mutual covenants hereinafter contained and for other good and valuable consideration, the parties hereto agree as follows:

ARTICLE I

DEFINITIONS AND EXHIBITS

SECTION 1.1 Definitions and Rules of Construction. Unless the context otherwise requires, the capitalized terms used herein shall, for all purposes of this Lease, have the meanings specified in the definitions below. Unless the context otherwise indicates, words importing the singular number shall include the plural number and vice versa. The terms “hereby”, “hereof”, “hereto”, “herein”, “hereunder” and any similar terms, as used in this Lease, refer to this Lease as a whole.

“Acquisition Amount” means \$430,294.80 and is the amount represented by Lessee to be sufficient to acquire the Leased Property and pay any ancillary costs associated therewith.

“Advance” shall have the meaning set forth in Section 2.1(l)(i)(D) hereof.

“Bank” shall have the meaning set forth in the Preamble hereof.

“Business Day” means any day except a Saturday, Sunday, or other day on which banks in Salt Lake City, Utah or the State are authorized to close.

“Code” means the Internal Revenue Code of 1986, as amended.

“Commencement Date” means the date this Lease is executed by the Bank and the Lessee and shall be the date on which the Acquisition Amount is deposited with the Escrow Agent.

“Escrow Account” means the fund established and held by the Escrow Agent pursuant to the Escrow Agreement.

“Escrow Agent” means the Escrow Agent identified in the Escrow Agreement, and its successors and assigns.

“Escrow Agreement” means the Escrow Agreement dated November 25, 2025, executed by Lessee, Bank and the Escrow Agent, pursuant to which the Escrow Account is established and administered. A copy of the Escrow Agreement shall be found in Exhibit G.

“Event of Nonappropriation” shall have the meaning set forth in Section 3.2 hereof.

“Governing Body” means the governing body of the Lessee.

“Lease Payments” means the rental payments described in Exhibit A hereto.

“Lease Payment Date” shall have the meaning set forth in Section 3.4(a) hereof.

“Leased Property” shall have the meaning set forth in the Preamble hereof.

“Lessee” shall have the meaning set forth in the Preamble hereof.

“Net Proceeds” means insurance or eminent domain proceeds received with respect to the Leased Property less expenses incurred in connection with the collection of such proceeds.

“Obligation Instrument” shall have the meaning set forth in Section 2.1(c) hereof.

“Original Term” shall have the meaning set forth in Section 3.2 hereof.

“Permitted Encumbrances” means, as of any particular time: (i) liens for taxes and assessments, if any, not then delinquent, or which the Lessee may, pursuant to provisions of Section 5.3 hereof, permit to remain unpaid; (ii) this Lease; (iii) any contested right or claim of any mechanic, laborer, materialman, supplier or vendor filed or perfected in the manner prescribed by law to the extent permitted under Section 5.4(b) hereof; (iv) easements, rights of way, mineral rights, drilling rights and other rights, reservations, covenants, conditions or restrictions which exist of record as of the execution date of this Lease and which the Lessee hereby certifies will not materially impair the use of the Leased Property by the Lessee; and (v) other rights, reservations, covenants, conditions or restrictions established following the date of execution of this Lease and to which the Bank and the Lessee consent in writing.

“Rebate Exemption” shall have the meaning set forth in Section 2.1(l)(ii)(A) hereof.

“Regulations” shall have the meaning set forth in Section 2.1(l)(i) hereof.

“Renewal Term” shall have the meaning set forth in Section 3.2 hereof.

“Scheduled Term” shall have the meaning set forth in Section 3.2 hereof.

“State” shall have the meaning set forth in the Preamble hereof.

“Term” or “Term of this Lease” means the Original Term and all Renewal Terms provided for in this Lease under Section 3.2 until this Lease is terminated as provided in Section 3.3 hereof.

SECTION 1.2 Exhibits. Exhibits A, B, C, D, E, F and G attached to this Lease are by this reference made a part of this Lease.

ARTICLE II

REPRESENTATIONS, COVENANTS AND WARRANTIES

SECTION 2.1 Representations, Covenants and Warranties of the Lessee. The Lessee represents, covenants and warrants to the Bank as follows:

(a) Due Organization and Existence. The Lessee is a public agency of the State duly organized and existing under the Constitution and laws of the State.

(b) Authorization; Enforceability. The Constitution and laws of the State authorize the Lessee to enter into this Lease and to enter into the transactions contemplated by, and to carry out its obligations under, this Lease. The Lessee has duly authorized, executed and delivered this Lease in accordance with the Constitution and laws of the State. This Lease constitutes the legal, valid and binding special obligation of the Lessee enforceable in accordance with its terms, except to the extent limited by applicable bankruptcy, insolvency, reorganization, moratorium or similar laws or equitable principles affecting the rights of creditors generally.

(c) No Conflicts or Default; Other Liens or Encumbrances. Neither the execution and delivery of this Lease nor the fulfillment of or compliance with the terms and conditions hereof, nor the consummation of the transactions contemplated hereby (i) conflicts with or results in a breach of the terms, conditions, provisions, or restrictions of any existing law, or court or administrative decree, order, or regulation, or agreement or instrument to which the Lessee is now a party or by which the Lessee is bound, **including without limitation any agreement or instrument pertaining to any bond, note, lease, certificate of participation, debt instrument, or any other obligation of the Lessee** (any such bond, note, lease, certificate of participation, debt instrument, and other obligation being referred to herein as an “Obligation Instrument”), (ii) constitutes a default under any of the foregoing, or (iii) results in the creation or imposition of any pledge, lien, charge or encumbrance whatsoever upon any of the property or assets of the Lessee, or upon the Leased Property except for Permitted Encumbrances.

By way of example, and not to be construed as a limitation on the representations set forth in the immediately preceding paragraph:

(A) no portion of the Leased Property is pledged to secure any Obligation Instrument; and

(B) the interests of the Lessor in the Leased Property hereunder do not violate the terms, conditions or provisions of any restriction or revenue pledge in any agreement or instrument pertaining to any Obligation Instrument.

If any Obligation Instrument existing on the date of execution of this Lease creates any pledge, lien, charge or encumbrance on any revenues, property or assets associated with the Leased Property that is higher in priority to the Bank’s interests therein under this Lease, the Bank hereby subordinates its interests therein, but only to the extent required pursuant to such existing Obligation Instrument.

(d) Compliance with Open Meeting Requirements. The Governing Body has complied with all applicable open public meeting and notice laws and requirements with respect to the meeting at which the Lessee's execution of this Lease was authorized.

(e) Compliance with Bidding Requirements. Either there are no procurement or public bidding laws of the State applicable to the acquisition and leasing of the Leased Property pursuant to this Lease, or the Governing Body and the Lessee have complied with all such procurement and public bidding laws as may be applicable hereto.

(f) No Adverse Litigation. There are no legal or governmental proceedings or litigation pending, or to the best knowledge of the Lessee threatened or contemplated (or any basis therefor) wherein an unfavorable decision, ruling, or finding might adversely affect the transaction contemplated in or the validity of this Lease.

(g) Opinion of Lessee's Counsel. The letter attached to this Lease as Exhibit D is a true opinion of Lessee's counsel.

(h) Governmental Use of Leased Property. During the Term of this Lease, the Leased Property will be used solely by the Lessee, and only for the purpose of performing one or more governmental or proprietary functions of the Lessee consistent with the permissible scope of the Lessee's authority, and the Leased Property will not be subject to any direct or indirect private business use.

(i) Other Representations and Covenants. The representations, covenants, warranties, and obligations set forth in this Article are in addition to and are not intended to limit any other representations, covenants, warranties, and obligations set forth in this Lease.

(j) No Nonappropriations. The Lessee has never non-appropriated or defaulted under any of its payment or performance obligations or covenants, either under any municipal lease of the same general nature as this Lease, or under any of its bonds, notes, or other obligations of indebtedness for which its revenues or general credit are pledged.

(k) No Legal Violation. The Leased Property is not, and at all times during the Term of this Lease will not be in violation of any federal, state or local law, statute, ordinance or regulation.

(l) General Tax and Arbitrage Representations and Covenants.

(i) The certifications and representations made by the Lessee in this Lease are intended, among other purposes, to be a certificate permitted in Section 1.148-2(b) of the Treasury Regulations promulgated pursuant to Section 148 of the Code (the "Regulations"), to establish the reasonable expectations of the Lessee at the time of the execution of this Lease made on the basis of the facts, estimates and circumstances in existence on the date hereof. The Lessee further certifies and covenants as follows:

(A) The Lessee has not been notified of any disqualification or proposed disqualification of it by the Commissioner of the Internal Revenue Service as an issuer which may certify bond issues.

(B) To the best knowledge and belief of the Lessee, there are no facts, estimates or circumstances that would materially change the conclusions, certifications or representations set forth in this Lease, and the expectations herein set forth are reasonable.

(C) The Scheduled Term of this Lease does not exceed the useful life of the Leased Property, and the weighted average term of this Lease does not exceed the weighted average useful life of the Leased Property.

(D) Each advance of funds by the Bank to finance Leased Property under this Lease (each an "Advance") will occur only when and to the extent that the Lessee has reasonably determined and identified the nature, need, and cost of each item of Leased Property pertaining to such Advance.

(E) No use will be made of the proceeds of this Lease or any such Advance, or any funds or accounts of the Lessee which may be deemed to be proceeds of this Lease or any such Advance, which use, if it had been reasonably expected on the date of the execution of this Lease or of any such Advance, would have caused this Lease or any such Advance to be classified as an "arbitrage bond" within the meaning of Section 148 of the Code.

(F) The Lessee will at all times comply with the rebate requirements of Section 148(f) of the Code as they pertain to this Lease, to the extent applicable.

(G) In order to preserve the status of this Lease and the Advances as other than "private activity bonds" as described in Sections 103(b)(1) and 141 of the Code, as long as this Lease and any such Advances are outstanding and unpaid:

(I) none of the proceeds from this Lease or the Advances or any facilities or assets financed therewith shall be used for any "private business use" as that term is used in Section 141(b) of the Code and defined in Section 141(b)(6) of the Code;

(II) the Lessee will not allow any such "private business use" to be made of the proceeds of this Lease or the Advances or any facilities or assets financed therewith; and

(III) none of the Advances or Lease Payments due hereunder shall be secured in whole or in part, directly or indirectly, by any interest in any property used in any such "private business use" or by payments in respect of such property and shall not be derived from payments in respect of such property.

(H) The Lessee will not take any action, or omit to take any action, which action or omission would cause the interest component of the Lease Payments to be ineligible for the exclusion from gross income as provided in Section 103 of the Code.

(I) The Lessee is a "governmental unit" within the meaning of Section 141(b)(6) of the Code.

(J) The obligations of the Lessee under this Lease are not federally guaranteed within the meaning of Section 149(b) of the Code.

(K) This Lease and the Advances to be made pursuant hereto will not reimburse the Lessee for any expenditures incurred prior to the date of this Lease and do not constitute a "refunding issue" as defined in Section 1.150-1(d) of the

Regulations, and no part of the proceeds of this Lease or any such Advances will be used to pay or discharge any obligations of the Lessee the interest on which is or purports to be excludable from gross income under the Code or any predecessor provision of law.

(L) In compliance with Section 149(e) of the Code relating to information reporting, the Lessee will file or cause to be filed with the Internal Revenue Service Center, Ogden, UT 84201, within fifteen (15) days from the execution of this Lease, IRS Form 8038-G or 8038-GC, as appropriate, reflecting the total aggregate amount of Advances that can be made pursuant to this Lease.

(M) None of the proceeds of this Lease or the Advances to be made hereunder will be used directly or indirectly to replace funds of the Lessee used directly or indirectly to acquire obligations at a yield materially higher than the yield on this Lease or otherwise invested in any manner. No portion of the Advances will be made for the purpose of investing such portion at a materially higher yield than the yield on this Lease.

(N) Inasmuch as Advances will be made under this Lease only when and to the extent the Lessee reasonably determines, identifies and experiences the need therefor, and will remain outstanding and unpaid only until such time as the Lessee has moneys available to repay the same, the Lessee reasonably expects that (I) the Advances will not be made sooner than necessary; (II) no proceeds from the Advances will be invested at a yield higher than the yield on this Lease; and (III) the Advances and this Lease will not remain outstanding and unpaid longer than necessary.

(O) The Lessee will either (i) spend all of the moneys advanced pursuant to this Lease immediately upon receipt thereof, without investment, on the portion of the Leased Property that is to be financed thereby; or (ii) invest such moneys at the highest yield allowable and practicable under the circumstances until they are to be spent on the portion of the Leased Property that is to be financed thereby, and track, keep records of, and pay to the United States of America, all rebatable arbitrage pertaining thereto, at the times, in the amounts, in the manner, and to the extent required under Section 148(f) of the Code and the Treasury Regulations promulgated in connection therewith. At least five percent (5%) of the total amount of moneys that are expected to be advanced pursuant to this Lease are reasonably expected to have been expended on the Leased Property within six (6) months from the date of this Lease. All moneys to be advanced pursuant to this Lease are reasonably expected to have been expended on the Leased Property no later than the earlier of: (I) the date twelve (12) months from the date such moneys are advanced; and (II) the date three (3) years from the date of this Lease.

(P) This Lease and the Advances to be made hereunder are not and will not be part of a transaction or series of transactions that attempts to circumvent the provisions of Section 148 of the Code and the regulations promulgated in connection therewith (I) enabling the Lessee to exploit the difference between tax-exempt and taxable interest rates to gain a material financial advantage, and (II) overburdening the tax-exempt bond market, as those terms are used in Section 1.148-10(a)(2) of the Regulations.

(Q) To the best of the knowledge, information and belief of the Lessee, the above expectations are reasonable. On the basis of the foregoing, it is not

expected that the proceeds of this Lease and the Advances to be made hereunder will be used in a manner that would cause this Lease or such Advances to be "arbitrage bonds" under Section 148 of the Code and the regulations promulgated thereunder, and to the best of the knowledge, information and belief of the Lessee, there are no other facts, estimates or circumstances that would materially change the foregoing conclusions.

(ii) Arbitrage Rebate Under Section 148(f) of the Code. With respect to the arbitrage rebate requirements of Section 148(f) of the Code, either (check applicable box):

(A) Lessee Qualifies for Small Issuer Exemption from Arbitrage Rebate. The Lessee hereby certifies and represents that it qualifies for the exception contained in Section 148(f)(4)(D) of the Code from the requirement to rebate arbitrage earnings from investment of proceeds of the Advances made under this Lease (the "Rebate Exemption") as follows:

(1) The Lessee has general taxing powers.

(2) Neither this Lease, any Advances to be made hereunder, nor any portion thereof are private activity bonds as defined in Section 141 of the Code ("Private Activity Bonds").

(3) Ninety-five percent (95%) or more of the net proceeds of the Advances to be made hereunder are to be used for local government activities of the Lessee (or of a governmental unit, the jurisdiction of which is entirely within the jurisdiction of the Lessee).

(4) Neither the Lessee nor any aggregated issuer has issued or is reasonably expected to issue any tax-exempt obligations other than Private Activity Bonds (as those terms are used in Section 148(f)(4)(D) of the Code) during the current calendar year, including the Advances to be made hereunder, which in the aggregate would exceed \$5,000,000 in face amount, or \$15,000,000 in face amount for such portions, if any, of any tax-exempt obligations of the Lessee and any aggregated issuer as are attributable to construction of public school facilities within the meaning of Section 148(f)(4)(D)(vii) of the Code.

For purposes of this Section, "aggregated issuer" means any entity which (a) issues obligations on behalf of the Lessee, (b) derives its issuing authority from the Lessee, or (c) is subject to substantial control by the Lessee.

The Lessee hereby certifies and represents that it has not created, does not intend to create and does not expect to benefit from any entity formed or availed of to avoid the purposes of Section 148(f)(4)(D)(i)(IV) of the Code.

Accordingly, the Lessee will qualify for the Rebate Exemption granted to governmental units issuing less than \$5,000,000 under Section 148(f)(4)(D) of the Code (\$15,000,000 for the financing of public school facilities construction as described above), and the Lessee shall be treated as meeting the requirements of Paragraphs (2) and (3) of Section 148(f) of the Code relating to the required rebate of arbitrage earnings to the United States with respect to this Lease and the Advances to be made hereunder.

(B) Lessee Will Keep Records of and Will Rebate Arbitrage. The Lessee does not qualify for the small issuer Rebate Exemption described above, and the Lessee hereby certifies and covenants that it will account for, keep the appropriate records of, and pay to the United States, the rebate amount, if any, earned from the investment of gross proceeds of this Lease and the Advances to be made hereunder, at the times, in the amounts, and in the manner prescribed in Section 148(f) of the Code and the applicable Regulations promulgated with respect thereto.

(m) Small Issuer Exemption from Bank Nondeductibility Restriction. Based on the following representations of the Lessee, the Lessee hereby designates this Lease and the interest components of the Lease Payments hereunder as “qualified tax-exempt obligations” within the meaning of Section 265(b)(3) of the Code: (i) this Lease and the Lease Payments hereunder are not private activity bonds within the meaning of Section 141 of the Code; (ii) the Lessee reasonably anticipates that it, together with all “aggregated issuers,” will not issue during the current calendar year obligations (other than those obligations described in clause (iii) below) the interest on which is excluded from gross income for federal income tax purposes under Section 103 of the Code which, when aggregated with this Lease, will exceed an aggregate principal amount of \$10,000,000; (iii) and notwithstanding clause (ii) above, the Lessee and its aggregated issuers may have issued in the current calendar year and may continue to issue during the remainder of the current calendar year private activity bonds other than qualified 501(c)(3) bonds as defined in Section 145 of the Code. For purposes of this subsection, "aggregated issuer" means any entity which (a) issues obligations on behalf of the Lessee, (b) derives its issuing authority from the Lessee, or (c) is subject to substantial control by the Lessee. The Lessee hereby certifies and represents that it has not created, does not intend to create and does not expect to benefit from any entity formed or availed of to avoid the purposes of Section 265(b)(3)(C) or (D) of the Code.

(n) Reports to State. The Lessee has duly authorized and executed this Lease in accordance with A.R.S. section 35-501 and has filed with the State of Arizona all reports required thereunder relating to this Lease.

SECTION 2.2 Representations, Covenants and Warranties of the Bank. The Bank is a national banking association, duly organized, existing and in good standing under and by virtue of the laws of the United States of America, has the power to enter into this Lease, is possessed of full power to own and hold real and personal property, and to lease and sell the same, and has duly authorized the execution and delivery of this Lease. This Lease constitutes the legal, valid and binding obligation of the Bank, enforceable in accordance with its terms, except to the extent limited by applicable bankruptcy, insolvency, reorganization, moratorium or similar laws or equitable principles affecting the rights of creditors generally.

ARTICLE III

AGREEMENT TO LEASE; TERM OF LEASE; LEASE PAYMENTS

SECTION 3.1 Lease. The Bank hereby leases the Leased Property to the Lessee, and the Lessee hereby leases the Leased Property from the Bank, upon the terms and conditions set forth herein.

Concurrently with its execution of this Lease, the Lessee shall deliver to the Bank fully completed documents substantially in the forms attached hereto as Exhibits B, C, D, E, F and G hereto.

SECTION 3.2 Term. The Term of this Lease shall commence on the date of execution of this Lease, which is also the date on which the Acquisition Amount is deposited with the Escrow Agent, including delivery to the Bank by the Lessee of fully completed documents in the forms set forth in Exhibits B, C, D, E, F and G attached hereto, and continue until the end of the fiscal year of Lessee in effect at the Commencement Date (the "Original Term"). Thereafter, this Lease will be extended for 8 successive additional periods of one year coextensive with Lessee's fiscal year, except for the last such period which may be less than a full fiscal year (each, a "Renewal Term") subject to an Event of Nonappropriation as described herein below in this Section 3.2 and in Section 3.3(a), with the final Renewal Term ending on November 25, 2033, unless this Lease is terminated as hereinafter provided. The Original Term together with all scheduled Renewal Terms shall be referred to herein as the "Scheduled Term" irrespective of whether this Lease is terminated for any reason prior to the scheduled commencement or termination of any Renewal Term as provided herein.

If Lessee does not appropriate funds for the payment of Lease Payments due for any Renewal Term in the adopted budget of the Lessee for the applicable fiscal year (an "Event of Nonappropriation"), this Lease will terminate upon the expiration of the Original or Renewal Term then in effect and Lessee shall notify Bank of such termination at least ten (10) days prior to the expiration of the Original or Renewal Term then in effect.

SECTION 3.3 Termination. This Lease will terminate upon the earliest of any of the following events:

- (a) upon the expiration of the Original Term or any Renewal Term of this Lease following an Event of Nonappropriation;
- (b) the exercise by Lessee of any option to purchase granted in this Lease by which Lessee purchases all of the Leased Property;
- (c) a default by Lessee and Bank's election to terminate this Lease under Article VII herein;
- (d) the expiration of the Scheduled Term of this Lease, the Lessee having made payment of all Lease Payments accrued to such date; or
- (e) Lessee may terminate this Lease at any time pursuant to A.R.S. § 38-511, to the extent applicable.

SECTION 3.4 Lease Payments.

(a) Time and Amount. During the Term of this Lease and so long as this Lease has not terminated pursuant to Section 3.3, the Lessee agrees to pay to the Bank, its successors and assigns, as annual rental for the use and possession of the Leased Property, the Lease Payments (denominated into components of principal and interest) in the amounts specified in Exhibit A, to be due and payable in arrears on each payment date identified in Exhibit A (or if such day is not a Business Day, the next succeeding Business Day) specified in Exhibit A (the "Lease Payment Date").

(b) Rate on Overdue Payments. In the event the Lessee should fail to make any of the Lease Payments required in this Section, the Lease Payment in default shall continue as an obligation of the Lessee until the amount in default shall have been fully paid, and the Lessee agrees to pay the same with interest thereon, to the extent permitted by law, from the date such amount was originally payable at the rate equal to the original interest rate payable with respect to such Lease Payments.

(c) Additional Payments. Any additional payments required to be made by the Lessee hereunder, including but not limited to Sections 4.1, 5.3, and 7.4 of this Lease, shall constitute additional rental for the Leased Property.

SECTION 3.5 Possession of Leased Property Upon Termination. Upon termination of this Lease pursuant to Sections 3.3(a), or 3.3(c), the Lessee shall transfer the Leased Property to the Bank in such manner as may be specified by the Bank, and the Bank shall have the right to take possession of the Leased Property by virtue of the Bank's ownership interest as lessor of the Leased Property, and the Lessee at the Bank's direction shall ship the Leased Property to the destination designated by the Bank by loading the Leased Property at the Lessee's cost and expense, on board such carrier as the Bank shall specify.

SECTION 3.6 No Withholding. Notwithstanding any dispute between the Bank and the Lessee, in connection with this Lease or otherwise, including a dispute as to the failure of any portion of the Leased Property in use by or possession of the Lessee to perform the task for which it is leased, the Lessee shall make all Lease Payments when due and shall not withhold any Lease Payments pending the final resolution of such dispute.

SECTION 3.7 Lease Payments to Constitute a Current Obligation of the Lessee. Notwithstanding any other provision of this Lease, the Lessee and the Bank acknowledge and agree that the obligation of the Lessee to pay Lease Payments hereunder constitutes a current special obligation of the Lessee payable exclusively from current and legally available funds and shall not in any way be construed to be an indebtedness of the Lessee within the meaning of any constitutional or statutory limitation or requirement applicable to the Lessee concerning the creation of indebtedness. The Lessee has not hereby pledged the general tax revenues or credit of the Lessee to the payment of the Lease Payments, or the interest thereon, nor shall this Lease obligate the Lessee to apply money of the Lessee to the payment of Lease Payments beyond the then current Original Term or Renewal Term, as the case may be, or any interest thereon.

SECTION 3.8 Net Lease. This Lease shall be deemed and construed to be a "net-net-net lease" and the Lessee hereby agrees that the Lease Payments shall be an absolute net return to the Bank, free and clear of any expenses, charges or set-offs whatsoever, except as expressly provided herein.

SECTION 3.9 Offset. Lease Payments or other sums payable by Lessee pursuant to this Lease shall not be subject to set-off, deduction, counterclaim or abatement and Lessee shall not be entitled to any credit against such Lease Payments or other sums for any reason whatsoever, including, but not limited to: (i) any accident or unforeseen circumstances; (ii) any damage or destruction of the Leased Property or any part thereof; (iii) any restriction or interference with Lessee's use of the Leased Property; (iv) any defects, breakdowns, malfunctions, or unsuitability of the Leased Property or any part thereof; or (v) any dispute between the Lessee and the Bank, any vendor or manufacturer of any part of the Leased Property, or any other person.

ARTICLE IV

INSURANCE

SECTION 4.1 Insurance. Lessee, at Bank's option, will either self-insure, or at Lessee's cost, will cause casualty insurance and property damage insurance to be carried and maintained on the Leased Property, with all such coverages to be in such amounts sufficient to cover the value of the Leased Property at the commencement of this Lease (as determined by the purchase price paid for the Leased Property), and public liability insurance with respect to the Leased Property in the amounts required by law, but in no event with a policy limit less than \$1,000,000 per occurrence. All insurance shall be written in such forms, to cover such risks, and with such insurers, as are customary for public entities such as the Lessee. A combination of self-

insurance and policies of insurance may be utilized. If policies of insurance are obtained, Lessee will cause Bank to be a loss payee as its interest under this Lease may appear on such property damage insurance policies, and an additional insured on a primary and noncontributory basis on such public liability insurance in an amount equal to or exceeding the minimum limit stated herein. Subject to Section 4.2, insurance proceeds from insurance policies or budgeted amounts from self-insurance as relating to casualty and property damage losses will, to the extent permitted by law, be payable to Bank in an amount equal to the then outstanding principal and accrued interest components of the Lease Payments at the time of such damage or destruction as provided by Section 8.1. Lessee will deliver to Bank the policies or evidences of insurance or self-insurance satisfactory to Bank, together with receipts for the applicable premiums before the Leased Property is delivered to Lessee and at least thirty (30) days before the expiration of any such policies. By endorsement upon the policy or by independent instrument furnished to Bank, such insurer will agree that it will give Bank at least thirty (30) days' written notice prior to cancellation or alteration of the policy. Lessee will carry workers compensation insurance covering all employees working on, in, or about the Leased Property, and will require any other person or entity working on, in, or about the Leased Property to carry such coverage, and will furnish to Bank certificates evidencing such coverages throughout the Term of this Lease.

SECTION 4.2 Damage to or Destruction of the Leased Property. If all or any part of the Leased Property is lost, stolen, destroyed, or damaged, Lessee will give Bank prompt notice of such event and will, to the extent permitted by law, repair or replace the same at Lessee's cost. If such lost, stolen, destroyed or damaged Leased Property is equipment, it shall be repaired or replaced within thirty (30) days after such event. If such lost, stolen, destroyed or damaged Leased Property is other than equipment, it shall be repaired or replaced within one hundred eighty (180) days after such event. Any replaced Leased Property will be substituted in this Lease by appropriate endorsement. All insurance proceeds received by Bank under the policies required under Section 4.1 with respect to the Leased Property lost, stolen, destroyed, or damaged, will be paid to Lessee if the Leased Property is repaired or replaced by Lessee as required by this Section. If Lessee fails or refuses to make the required repairs or replacement, such proceeds will be paid to Bank to the extent of the then remaining portion of the Lease Payments to become due during the Scheduled Term of this Lease less that portion of such Lease Payments attributable to interest which will not then have accrued as provided in Section 8.1. No loss, theft, destruction, or damage to the Leased Property will impose any obligation on Bank under this Lease, and this Lease will continue in full force and effect regardless of such loss, theft, destruction, or damage. Lessee assumes all risks and liabilities, whether or not covered by insurance, for loss, theft, destruction, or damage to the Leased Property and for injuries or deaths of persons and damage to property however arising, whether such injury or death be with respect to agents or employees of Lessee or of third parties, and whether such damage to property be to Lessee's property or to the property of others.

ARTICLE V

COVENANTS

SECTION 5.1 Use of the Leased Property. The Lessee represents and warrants that it has an immediate and essential need for the Leased Property to carry out and give effect to the public purposes of the Lessee, which need is not temporary or expected to diminish in the foreseeable future, and that it expects to make immediate use of all of the Leased Property.

The Lessee hereby covenants that it will install, use, operate, maintain, and service the Leased Property in accordance with all vendors' instructions and in such a manner as to preserve all warranties and guarantees with respect to the Leased Property.

The Lessor hereby assigns to the Lessee, without recourse, for the Term of this Lease, all manufacturer warranties and guaranties, express or implied, pertinent to the Leased Property, and the Lessor directs the Lessee to obtain the customary services furnished in connection with such warranties and guaranties at the Lessee's expense; provided, however, that the Lessee hereby agrees that it will reassign to the Lessor all such warranties and guaranties in the event of termination of this Lease pursuant to Sections 3.3(a) or 3.3(c).

SECTION 5.2 Interest in the Leased Property and this Lease. Upon expiration of the Term as provided in Section 3.3(b) or 3.3(d) hereof, all right, title and interest of the Bank in and to all of the Leased Property shall be transferred to and vest in the Lessee, without the necessity of any additional document of transfer.

SECTION 5.3 Maintenance, Utilities, Taxes and Assessments.

(a) Maintenance; Repair and Replacement. Throughout the Term of this Lease, as part of the consideration for the rental of the Leased Property, all repair and maintenance of the Leased Property shall be the responsibility of the Lessee, and the Lessee shall pay for or otherwise arrange for the payment of the cost of the repair and replacement of the Leased Property excepting ordinary wear and tear, and the Lessee hereby covenants and agrees that it will comply with all vendors' and manufacturers' maintenance and warranty requirements pertaining to the Leased Property. In exchange for the Lease Payments herein provided, the Bank agrees to provide only the Leased Property, as hereinbefore more specifically set forth.

(b) Tax and Assessments; Utility Charges. The Lessee shall also pay or cause to be paid all taxes and assessments, including but not limited to utility charges, of any type or nature charged to the Lessee or levied, assessed or charged against any portion of the Leased Property or the respective interests or estates therein; provided that with respect to special assessments or other governmental charges that may lawfully be paid in installments over a period of years, the Lessee shall be obligated to pay only such installments as are required to be paid during the Term of this Lease as and when the same become due.

(c) Contests. The Lessee may, at its expense and in its name, in good faith contest any such taxes, assessments, utility and other charges and, in the event of any such contest, may permit the taxes, assessments or other charges so contested to remain unpaid during the period of such contest and any appeal therefrom; provided that prior to such nonpayment it shall furnish the Bank with the opinion of an independent counsel acceptable to the Bank to the effect that, by nonpayment of any such items, the interest of the Bank in such portion of the Leased Property will not be materially endangered and that the Leased Property will not be subject to loss or forfeiture. Otherwise, the Lessee shall promptly pay such taxes, assessments or charges or make provisions for the payment thereof in form satisfactory to the Bank.

SECTION 5.4 Modification of the Leased Property.

(a) Additions, Modifications and Improvements. The Lessee shall, at its own expense, have the right to make additions, modifications, and improvements to any portion of the Leased Property if such improvements are necessary or beneficial for the use of such portion of the Leased Property. All such additions, modifications and improvements shall thereafter comprise part of the Leased Property and be subject to the provisions of this Lease. Such additions, modifications and improvements shall not in any way damage any portion of the Leased Property or cause it to be used

for purposes other than those authorized under the provisions of State and federal law or in any way which would impair the exclusion from gross income for federal income tax purposes of the interest components of the Lease Payments; and the Leased Property, upon completion of any additions, modifications and improvements made pursuant to this Section, shall be of a value which is not substantially less than the value of the Leased Property immediately prior to the making of such additions, modifications and improvements.

(b) No Liens. Except for Permitted Encumbrances, the Lessee will not permit (i) any liens or encumbrances to be established or remain against the Leased Property or (ii) any mechanic's or other lien to be established or remain against the Leased Property for labor or materials furnished in connection with any additions, modifications or improvements made by the Lessee pursuant to this Section; provided that if any such mechanic's lien is established and the Lessee shall first notify or cause to be notified the Bank of the Lessee's intention to do so, the Lessee may in good faith contest any lien filed or established against the Leased Property, and in such event may permit the items so contested to remain undischarged and unsatisfied during the period of such contest and any appeal therefrom and shall provide the Bank with full security against any loss or forfeiture which might arise from the nonpayment of any such item, in form satisfactory to the Bank. The Bank will cooperate fully in any such contest.

SECTION 5.5 Permits. The Lessee will provide all permits and licenses necessary for the ownership, possession, operation, and use of the Leased Property, and will comply with all laws, rules, regulations, and ordinances applicable to such ownership, possession, operation, and use. If compliance with any law, rule, regulation, ordinance, permit, or license requires changes or additions to be made to the Leased Property, such changes or additions will be made by the Lessee at its own expense.

SECTION 5.6 Bank's Right to Perform for Lessee. If the Lessee fails to make any payment or to satisfy any representation, covenant, warranty, or obligation contained herein or imposed hereby, the Bank may (but need not) make such payment or satisfy such representation, covenant, warranty, or obligation, and the amount of such payment and the expense of any such action incurred by the Bank, as the case may be, will be deemed to be additional rent payable by the Lessee on the Bank's demand.

SECTION 5.7 Bank's Disclaimer of Warranties. The Bank has played no part in the selection of the Leased Property, the Lessee having selected the Leased Property independently from the Bank. The Bank, at the Lessee's request, has acquired or arranged for the acquisition of the Leased Property and shall lease the same to the Lessee as herein provided, the Bank's only role being the facilitation of the financing of the Leased Property for the Lessee. THE BANK MAKES NO WARRANTY OR REPRESENTATION, EITHER EXPRESS OR IMPLIED, AS TO THE VALUE, DESIGN, CONDITION, QUALITY, DURABILITY, SUITABILITY, MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR FITNESS FOR THE USE CONTEMPLATED BY THE LESSEE OF THE LEASED PROPERTY, OR ANY PORTION THEREOF. THE LESSEE ACKNOWLEDGES THAT THE BANK IS NOT A MANUFACTURER OR VENDOR OF ALL OR ANY PORTION OF THE LEASED PROPERTY, AND THAT THE LESSEE IS LEASING THE LEASED PROPERTY AS IS. In no event shall the Bank be liable for incidental, direct, indirect, special or consequential damages, in connection with or arising out of this Lease, for the existence, furnishing, functioning or Lessee's use and possession of the Leased Property.

SECTION 5.8 Indemnification. To the extent permitted by applicable law, the Lessee hereby agrees to indemnify and hold harmless the Bank, its directors, officers, shareholders, employees, agents, and successors from and against any loss, claim, damage, expense, and liability resulting from or attributable to the acquisition, construction, or use of the Leased Property. Notwithstanding the foregoing, the Bank shall not be indemnified for any liability resulting from the gross negligence or willful misconduct of the Bank.

SECTION 5.9 Inclusion for Consideration as Budget Item. During the Term of this Lease, the Lessee covenants and agrees that it shall give due consideration, in accordance with applicable law, as an item for expenditure during its annual budget considerations, of an amount necessary to pay Lease Payments for the Leased Property during the next succeeding Renewal Term. Nothing herein shall be construed to direct or require that Lessee take or direct that any legislative act be done, or that the Governing Body of Lessee improperly or unlawfully delegate any of its legislative authority.

SECTION 5.10 Annual Financial Information. During the Term of this Lease, the Lessee covenants and agrees to provide the Bank as soon as practicable when they are available: (i) a copy of the Lessee's final annual budget for each fiscal year; (ii) a copy of the Lessee's most recent financial statements; and (iii) any other financial reports the Bank may request from time to time.

ARTICLE VI

ASSIGNMENT AND SUBLEASING

SECTION 6.1 Assignment by the Bank. The parties hereto agree that all rights of Bank hereunder may be assigned, transferred or otherwise disposed of, either in whole or in part, including without limitation transfer to a trustee pursuant to a trust arrangement under which the trustee issues certificates of participation evidencing undivided interests in this Lease and/or the rights to receive Lease Payments hereunder, provided that notice of any such assignment, transfer or other disposition is given to Lessee.

SECTION 6.2 Assignment and Subleasing by the Lessee. The Lessee may not assign this Lease or sublease all or any portion of the Leased Property unless both of the following shall have occurred: (i) the Bank shall have consented to such assignment or sublease; and (ii) the Bank shall have received assurance acceptable to the Bank that such assignment or sublease: (A) is authorized under applicable state law, (B) will not adversely affect the validity of this Lease, and (C) will not adversely affect the exclusion from gross income for federal income tax purposes of the interest components of the Lease Payments.

ARTICLE VII

EVENTS OF DEFAULT AND REMEDIES

SECTION 7.1 Events of Default Defined. The following shall be "events of default" under this Lease and the terms "events of default" and "default" shall mean, whenever they are used in this Lease, any one or more of the following events:

(a) Payment Default. Failure by the Lessee to pay any Lease Payment required to be paid hereunder by the corresponding Lease Payment Date.

(b) Covenant Default. Failure by the Lessee to observe and perform any warranty, covenant, condition or agreement on its part to be observed or performed herein or otherwise with respect hereto other than as referred to in clause (a) of this Section, for a period of 30 days after written notice specifying such failure and requesting that it be remedied has been given to the Lessee by the Bank; provided, however, if the failure stated in the notice cannot be corrected within the applicable period, the Bank shall not unreasonably withhold their consent to an extension of such time if corrective action is instituted by the Lessee within the applicable period and diligently pursued until the default is corrected.

(c) Bankruptcy or Insolvency. The filing by the Lessee of a case in bankruptcy, or the subjection of any right or interest of the Lessee under this Lease to any execution, garnishment or

attachment, or adjudication of the Lessee as a bankrupt, or assignment by the Lessee for the benefit of creditors, or the entry by the Lessee into an agreement of composition with creditors, or the approval by a court of competent jurisdiction of a petition applicable to the Lessee in any proceedings instituted under the provisions of the federal bankruptcy code, as amended, or under any similar act which may hereafter be enacted.

The foregoing provisions of this Section 7.1 are subject to the provisions of Section 3.2 hereof with respect to nonappropriation.

SECTION 7.2 Remedies on Default. Whenever any event of default referred to in Section 7.1 hereof shall have happened and be continuing, the Bank shall have the right, at its sole option without any further demand or notice to take one or any combination of the following remedial steps:

- (a) take possession of the Leased Property by virtue of the Bank's ownership interest as lessor of the Leased Property;
- (b) hold the Lessee liable for the difference between (i) the rents and other amounts payable by Lessee hereunder to the end of the then current Original Term or Renewal Term, as appropriate, and (ii) the rent paid by a lessee of the Leased Property pursuant to such lease; and
- (c) take whatever action at law or in equity may appear necessary or desirable to enforce its rights under this Lease, the Security Documents (defined in Section 9.3), the Escrow Agreement or as a secured party in any or all of the Leased Property or the Escrow Account hereunder; and
- (d) terminate the Escrow Agreement and apply the proceeds in the Escrow Account to the Lease Payments due hereunder.

SECTION 7.3 No Remedy Exclusive. No remedy conferred herein upon or reserved to the Bank is intended to be exclusive and every such remedy shall be cumulative and shall be in addition to every other remedy given under this Lease or now or hereafter existing at law or in equity. No delay or omission to exercise any right or power accruing upon any default shall impair any such right or power or shall be construed to be a waiver thereof, but any such right and power may be exercised from time to time and as often as may be deemed expedient. In order to entitle the Bank to exercise any remedy reserved to it in this Article it shall not be necessary to give any notice, other than such notice as may be required in this Article or by law.

SECTION 7.4 Agreement to Pay Attorneys' Fees and Expenses. In the event either party to this Lease should default under any of the provisions hereof and the nondefaulting party should employ attorneys or incur other expenses for the collection of moneys or the enforcement of performance or observance of any obligation or agreement on the part of the defaulting party contained herein, the defaulting party agrees that it will pay on demand to the nondefaulting party the reasonable fees of such attorneys and such other expenses so incurred by the nondefaulting party.

SECTION 7.5 Waiver of Certain Damages. With respect to all of the remedies provided for in this Article VII, the Lessee hereby waives any damages occasioned by the Bank's repossession of the Leased Property upon an event of default.

ARTICLE VIII

PREPAYMENT OF LEASE PAYMENTS IN PART

SECTION 8.1 Extraordinary Prepayment From Net Proceeds. To the extent, if any, required pursuant to Section 4.1 the Lessee shall be obligated to purchase the Leased Property by prepaying the Lease Payments in whole or in part on any date, from and to the extent of any Net Proceeds or other moneys pursuant to Article IV hereof. The Lessee and the Bank hereby agree that in the case of such prepayment of the Lease Payments in part, such Net Proceeds or other moneys shall be credited toward the Lessee's obligations hereunder pro rata among Lease Payments so that following prepayment, the remaining annual Lease Payments will be proportional to the initial annual Lease Payments.

SECTION 8.2 Option to Purchase Leased Property. Subject to the terms and conditions of this Section, the Bank hereby grants an option to the Lessee to purchase all or a portion of the Leased Property by paying on any date a price equal to the portion of the outstanding principal component of the Lease Payments that is allocable to such portion of the Leased Property that is being so purchased, without premium, plus the accrued interest component of such portion of the Lease Payments to such payment date. To exercise this option, the Lessee must deliver to the Bank written notice specifying the date on which the Leased Property is to be purchased (the "Closing Date"), which notice must be delivered to the Bank at least thirty (30) days prior to the Closing Date specified therein. The Lessee may purchase the Leased Property pursuant to the option granted in this Section only if the Lessee has made all Lease Payments when due (or has remedied any defaults in the payment of Lease Payments, in accordance with the provisions of this Lease) and all other warranties, representations, covenants, and obligations of the Lessee under this Lease have been satisfied (or all breaches thereof have been waived by the Bank in writing).

Upon the expiration of the Scheduled Term of this Lease and provided that all conditions of the immediately preceding paragraph have been satisfied (except those pertaining to notice), the Lessee shall be deemed to have purchased the Leased Property (without the need for payment of additional moneys) and shall be vested with all rights and title to the Leased Property.

ARTICLE IX

MISCELLANEOUS

SECTION 9.1 Notices. Unless otherwise specifically provided herein, all notices shall be in writing addressed to the respective party as set forth below (or to such other address as the party to whom such notice is intended shall have previously designated by written notice to the serving party), and may be personally served, telecopied, or sent by overnight courier service or United States mail:

If to Bank:

ZIONS BANCORPORATION, N.A.
One South Main Street, 17th Floor
Salt Lake City, Utah 84133
Attention: Kirsi Hansen

If to the Lessee:

Superstition Fire & Medical District
565 N. Idaho Road
Apache Junction, AZ 85119
Attention: Billy Warren

Such notices shall be deemed to have been given: (a) if delivered in person, when delivered; (b) if delivered by telecopy, on the date of transmission if transmitted by 4:00 p.m. (Salt Lake City time) on a Business Day or, if not, on the next succeeding Business Day; (c) if delivered by overnight courier, two Business Days after delivery to such courier properly addressed; or (d) if by United States mail, four Business Days after depositing in the United States mail, postage prepaid and properly addressed.

SECTION 9.2 System of Registration. The Lessee shall be the Registrar for this Lease and the rights to payments hereunder. The Bank shall be the initial Registered Owner of rights to receive payments hereunder. If the Bank transfers its rights to receive payments hereunder, the Registrar shall note on this Lease the name and address of the transferee.

SECTION 9.3 Instruments of Further Assurance. To the extent, if any, that the Bank's interest in the Leased Property as Lessor under this Lease is deemed to be a security interest in the Leased Property, then the Lessee shall be deemed to have granted, and in such event the Lessee does hereby grant, a security interest in the Leased Property and any moneys and investments held from time to time in the Escrow Account to the Bank, which security interest includes proceeds, and this Lease shall constitute a security agreement under applicable law. Concurrently with the execution of this Lease, the Lessee has executed, delivered, and filed and/or recorded all financing statements, UCC forms, mortgages, deeds of trust, notices, filings, and/or other instruments, in form required for filing and/or recording thereof, as are required under applicable law to fully perfect such security interest of the Bank in the Leased Property (collectively, "Security Documents"). Attached hereto as Exhibit E are copies of all such Security Documents. The Lessee will do, execute, acknowledge, deliver and record, or cause to be done, executed, acknowledged, delivered and recorded, such additional acts, notices, filings and instruments as the Bank may require in its sole discretion to evidence, reflect and perfect the title, ownership, leasehold interest, security interest and/or other interest of the Bank in and to any part or all of the Leased Property, promptly upon the request of the Bank.

SECTION 9.4 Binding Effect. This Lease shall inure to the benefit of and shall be binding upon the Bank and the Lessee and their respective successors and assigns.

SECTION 9.5 Amendments. This Lease may be amended or modified only upon the written agreement of both the Bank and the Lessee.

SECTION 9.6 Section Headings. Section headings are for reference only and shall not be used to interpret this Lease.

SECTION 9.7 Severability. In the event any provision of this Lease shall be held invalid or unenforceable by a court of competent jurisdiction, to the extent permitted by law, such holding shall not invalidate or render unenforceable any other provision hereof.

SECTION 9.8 Entire Agreement. This Lease and the attached Exhibits constitute the entire agreement between the Bank and the Lessee and supersedes any prior agreement between the Bank and the Lessee with respect to the Leased Property, except as is set forth in an Addendum, if any, which is made a part of this Lease and which is signed by both the Bank and the Lessee.

SECTION 9.9 Execution in Counterparts. This Lease may be executed in any number of counterparts, each of which shall be an original and all of which shall constitute but one and the same instrument.

SECTION 9.10 Arbitration. To the extent permitted by law, any dispute, controversy or claim arising out of or based upon the terms of this Lease or the transactions contemplated hereby shall be settled exclusively and finally by binding arbitration. Upon written demand for arbitration by any party hereto, the parties to the dispute shall confer and attempt in good faith to agree upon one arbitrator. If the parties have not agreed upon an arbitrator within thirty (30) days after receipt of such written demand, each party to the dispute shall appoint one arbitrator and those two arbitrators shall agree upon a third arbitrator. Any arbitrator or arbitrators appointed as provided in this section shall be selected from panels maintained by, and the binding arbitration shall be conducted in accordance with the commercial arbitration rules of, the American Arbitration Association (or any successor organization), and such arbitration shall be binding upon the parties. The arbitrator or arbitrators shall have no power to add or detract from the agreements of

the parties and may not make any ruling or award that does not conform to the terms and conditions of this Lease. The arbitrator or arbitrators shall have no authority to award punitive damages or any other damages not measured by the prevailing party's actual damages. Judgment upon an arbitration award may be entered in any court having jurisdiction. The prevailing party in the arbitration proceedings shall be awarded reasonable attorney fees and expert witness costs and expenses.

SECTION 9.11 Applicable Law. This Agreement shall be governed by and construed in accordance with the laws of the State.

SECTION 9.12 Immigration. To the extent applicable and except as stated below, pursuant to the provisions of the Section 41-4401 of the Arizona Revised Statutes, and in accordance with federal law and Bank's practice, Bank hereby warrants and certifies that Bank complies with the Immigration Reform and Control Act of 1986 and employment with the Bank is contingent on the successful completion of the I-9 verification process and the E-Verify requirements of Section 23-214(A) of the Arizona Revised Statutes. Such employment with Bank is not contingent on any of the other requirements of Section 23-214(A). Bank does not knowingly employ any individuals in the United States who are not legally authorized to work in the United States. For associate confidentiality reasons, Bank generally does not disclose or allow the inspection of its personnel records of its associates to third parties, including I-9 or e-Verify documentation. However, if there are concerns about an individual's eligibility to perform work in connection with this Agreement, please contact Lessor in accordance with Section 9.1 of this Agreement and Lessor will investigate and respond to these concerns.

SECTION 9.13 Boycotting Israel. Pursuant to Section 35-393 et seq., Arizona Revised Statutes, Bank hereby certifies it is not currently engaged in, and for the duration of this Agreement shall not engage in, a boycott of Israel. The term "boycott" has the meaning set forth in Section 35-393, Arizona Revised Statutes. If it is determined that Bank's certification above is false or that it has breached such agreement, Lessee may impose remedies as provided by law.

[SIGNATURE PAGES TO FOLLOW]

IN WITNESS WHEREOF, the Bank has caused this Lease to be executed in its name by its duly authorized officer, and the Lessee has caused this Lease to be executed in its name by its duly authorized officer, as of the date first above written.

ZIONS BANCORPORATION, N.A., as Lessor

By: _____
Lee Davis, Authorized Officer

SUPERSTITION FIRE & MEDICAL DISTRICT, as Lessee

By: _____

Kathleen Chamberlain, Board Chair

EXHIBIT A

FIXED RATE

LEASE PAYMENT DEBT SERVICE SCHEDULE*

1. Interest. Interest components payable on the principal amount outstanding have been computed at the rate of four and forty hundredths' percent (4.40%) per annum calculated based on twelve 30-day months during a 360-day year.

2. Payment Dates and Amounts.

Date	Principal	Coupon	Interest	Total P+I	Fiscal Total
11/25/2025	-	-	-	-	-
11/25/2026	46,037.61	4.400%	18,932.97	64,970.58	64,970.58
11/25/2027	48,063.26	4.400%	16,907.32	64,970.58	64,970.58
11/25/2028	50,178.05	4.400%	14,792.53	64,970.58	64,970.58
11/25/2029	52,385.88	4.400%	12,584.70	64,970.58	64,970.58
11/25/2030	54,690.86	4.400%	10,279.72	64,970.58	64,970.58
11/25/2031	57,097.26	4.400%	7,873.32	64,970.58	64,970.58
11/25/2032	59,609.53	4.400%	5,361.04	64,970.57	64,970.57
11/25/2033	62,232.35	4.400%	2,738.22	64,970.57	64,970.57
Total	\$430,294.80	-	\$89,469.82	\$519,764.62	-

EXHIBIT B

DESCRIPTION OF THE LEASED PROPERTY

One (1) 2025 Horton 623 Type 1 Crawl-Through Custom Ambulance on a 2024/2025 Ford F-450 4x2
Gasoline Chassis

VIN _____

Procure Service Contract - Power Pro 2

Power Load

Serial No. _____

EXHIBIT C

RESOLUTION OF GOVERNING BODY

A resolution approving the form of the Lease/Purchase Agreement with ZIONS BANCORPORATION, N.A., Salt Lake City, Utah and authorizing the execution and delivery thereof.

Whereas, The Board of Directors (the “Governing Body”) of Superstition Fire & Medical District (the “Lessee”) has determined that the leasing of the property described in the Lease/Purchase Agreement (the “Lease/Purchase Agreement”) presented at this meeting is for a valid public purpose and is essential to the operations of the Lessee; and

Whereas, the Governing Body has reviewed the form of the Lease/Purchase Agreement and has found the terms and conditions thereof acceptable to the Lessee; and

Whereas, either there are no legal bidding requirements under applicable law to arrange for the leasing of such property under the Lease/Purchase Agreement, or the Governing Body has taken the steps necessary to comply with the same with respect to the Lease/Purchase Agreement.

Be it resolved by the Governing Body of Superstition Fire & Medical District as follows:

SECTION 1. The terms of said Lease/Purchase Agreement are in the best interests of the Lessee for the leasing of the property described therein.

SECTION 2. The appropriate officers and officials of the Lessee are hereby authorized and directed to execute and deliver the Lease/Purchase Agreement in substantially the form presented to this meeting and any related documents and certificates necessary to the consummation of the transactions contemplated by the Lease/Purchase Agreement for and on behalf of the Lessee. The officers and officials of the Lessee may make such changes to the Lease/Purchase Agreement and related documents and certificates as such officers and officials deem necessary or desirable, such approval to be conclusively evidenced by the execution and delivery thereof.

SECTION 3. The officers and officials of the Governing Body and the Lessee are hereby authorized and directed to fulfill all obligations under the terms of the Lease/Purchase Agreement.

Adopted and approved this _____ day of November, 2025.

By _____

Print Name _____

Title _____

Attest:

By _____

Print Name _____

Title _____

STATE OF ARIZONA

)

) ss.

COUNTY OF PINAL

)

I, _____ hereby certify that I am the duly qualified and acting
_____ of Superstition Fire & Medical District (the "Lessee").
(Title)

I further certify that the above and foregoing instrument constitutes a true and correct copy of the minutes of a regular meeting of the governing body including a Resolution adopted at said meeting held on November 19, 2025, as said minutes and Resolution are officially of record in my possession, and that a copy of said Resolution was deposited in my office on November __, 2025.

In witness whereof, I have hereunto set my hand on behalf of the Lessee this __ day of November, 2025.

By _____

Print Name _____

Title _____

EXHIBIT D
Opinion of Lessee's Counsel

To: ZIONS BANCORPORATION, N.A.
One South Main Street, 17th Floor
Salt Lake City, Utah 84133

As counsel for Superstition Fire & Medical District (“Lessee”), I have examined duly executed originals of the Lease/Purchase Agreement (the “Lease”) dated this 25th day of November, 2025, between the Lessee and ZIONS BANCORPORATION, N.A., Salt Lake City, Utah (“Bank”), and the proceedings taken by Lessee to authorize and execute the Lease (the “Proceedings”). Based upon such examination as I have deemed necessary or appropriate, I am of the opinion that:

1. Lessee is a body corporate and politic, legally existing under the laws of the State of Arizona (the “State”).
2. The Lease and the Proceedings have been duly adopted, authorized, executed, and delivered by Lessee, and do not require the seal of Lessee to be effective, valid, legal, or binding.
3. The governing body of Lessee has complied with all applicable open public meeting and notice laws and requirements with respect to the meeting at which the Proceedings were adopted and the Lessee's execution of the Lease was authorized.
4. The Lease is a legal, valid, and binding obligation of Lessee, enforceable against Lessee in accordance with its terms except as limited by the state and federal laws affecting remedies and by bankruptcy, reorganization, or other laws of general application affecting the enforcement of creditor's rights generally.
5. Either there are no usury laws of the State applicable to the Lease, or the Lease is in accordance with and does not violate all such usury laws as may be applicable.
6. Either there are no procurement or public bidding laws of the State applicable to the acquisition and leasing of the Leased Property (as defined in the Lease) from the Bank under the Lease, or the acquisition and leasing of the Leased Property from the Bank under the Lease comply with all such procurement and public bidding laws as may be applicable.
7. There are no legal or governmental proceedings or litigation pending or, to the best of my knowledge, threatened or contemplated (or any basis therefor) wherein an unfavorable decision, ruling or finding might adversely affect the transactions contemplated in or the validity of the Lease.
8. The adoption, execution and/or delivery of the Lease and the Proceedings, and the compliance by the Lessee with their provisions, will not conflict with or constitute a breach of or default under any court decree or order or any agreement, indenture, lease or other instrument or any existing law or administrative regulation, decree or order to which the Lessee is subject or by which the Lessee is or may be bound.
9. Although we are not opining as to the ownership of the Leased Property or the priority of liens thereon, it is also our opinion that the Security Documents attached as Exhibit E to the Lease are sufficient in substance, form, and description, and indicated place, address, and method of filing and/or recording, to completely and fully perfect the security interest in every portion of the Leased Property granted under the Lease, and no other filings and/or recordings are necessary to fully perfect said security interest in the Leased Property.

Attorney for Lessee

EXHIBIT E

SECURITY DOCUMENTS

[Attach a Certificate of Title showing ZIONS BANCORPORATION, N.A. as the lien holder]

EXHIBIT F

DELIVERY AND ACCEPTANCE CERTIFICATE

To: ZIONS BANCORPORATION, N.A.
One South Main Street, 17th Floor
Salt Lake City, Utah 84133

Reference is made to the Lease/Purchase Agreement between the undersigned (“Lessee”), and ZIONS BANCORPORATION, N.A. (the “Bank”), dated November 25, 2025 , (the “Lease”) and to that part of the Leased Property described therein which comprises personal property (collectively, the “Equipment”). In connection therewith we are pleased to confirm to you the following:

1. All of the Equipment has been delivered to and received by the undersigned; all installation or other work necessary prior to the use thereof has been completed; said Equipment has been examined and/or tested and is in good operating order and condition and is in all respects satisfactory to the undersigned and as represented, and that said Equipment has been accepted by the undersigned and complies with all terms of the Lease. Consequently, you are hereby authorized to pay for the Equipment in accordance with the terms of any purchase orders for the same.
2. In the future, in the event the Equipment fails to perform as expected or represented we will continue to honor the Lease in all respects and continue to make our rental and other payments thereunder in the normal course of business and we will look solely to the vendor, distributor or manufacturer for recourse.
3. We acknowledge that the Bank is neither the vendor nor manufacturer or distributor of the Equipment and has no control, knowledge or familiarity with the condition, capacity, functioning or other characteristics of the Equipment.
4. The vehicle identification number and serial number for each item of Equipment which is set forth on Exhibit “B” to the Lease is correct.

This certificate shall not be considered to alter, construe, or amend the terms of the Lease.

Lessee:

SUPERSTITION FIRE & MEDICAL DISTRICT

By: _____
Kathleen Chamberlain, Authorized Signature

Date: _____

EXHIBIT G

ESCROW AGREEMENT

[Attach Escrow Agreement]

ADDENDUM TO LEASE PURCHASE AGREEMENT

Preamble

THIS ADDENDUM is made this _____ day of _____, 2025, to that certain Lease Purchase Agreement by and between Zions Bancorporation, N.A., (the “Lessor”), and the Superstition Fire & Medical District (the “Lessee”), dated as of November 25, 2025 (“Agreement”).

Recitals

WHEREAS, Lessee has executed the above-referenced Agreement and supporting documentation in order to provide for the acquisition and financing of a 2025 Horton 623 Type 1 Crawl-Through Custom Ambulance on a 2024-2025 Ford F-450 4 x 2 Gasoline Chassis and Equipment, as more fully described in Exhibit “B” to the Lease Purchase Agreement, attached thereto (the “Equipment”); and

WHEREAS, the parties wish to modify certain terms and provisions of that Agreement dated November 25, 2025.

NOW THEREFORE, in consideration of the mutual promises and covenants contained herein, the parties agree as follows:

Covenants

1. Any references in the original Lease/Purchase Agreement to the phrase “public agency of the State of Arizona” or “public agency of the State,” as it relates to the Superstition Fire & Medical District, shall be modified to read “political subdivision of the State of Arizona.”
2. Article I, Section 1.1 (Definitions and Rules of Construction) is hereby amended to substitute the following definition of “Lease Payments”:

“Lease Payments” means the properly appropriated rental payments described in Exhibit “A” hereto.

3. Article V, Section 5.9 (Inclusion for Consideration as Budget Item) is hereby amended in its entirety to read as follows:

During the Term of this Lease, subject to an Event of Non-Appropriation, the Lessee covenants and agrees that it shall give due consideration, in accordance with applicable law, as an item for expenditure during its annual budget considerations, of an amount necessary to pay Lease Payments for the Leased Property during the next succeeding Renewal Term. Nothing herein shall be construed to direct or require that Lessee take or direct that any legislative act

be done, or that the Governing Body of Lessee improperly or unlawfully delegate any of its legislative authority.

4. The last paragraph of Article VII, Section 7.1 (Events of Default Defined) is hereby amended to read as follows:

The foregoing provisions of this Section 7.1 are subject to the provisions of Section 3.2 hereof with respect to non-appropriation and the termination provided in Section 3.3(e) hereof. An event of non-appropriation or termination under 3.3(e) shall not be considered an event of default.

5. Article VII, Section 7.2(b) (Remedies on Default) is hereby amended in its entirety to read as follows:

(b) subject to non-appropriation, hold the Lessee liable for the difference between (i) the rents and other amounts payable by Lessee hereunder to the end of the then current Original Term or Renewal Term, as appropriate, and (ii) the rent paid by a lessee of the Lease Property pursuant to such lease; and

6. The following Sections shall be added to Article IX (Miscellaneous):

Section 9.14 Non-Discrimination. Lessor warrants that it complies with any state and federal laws, rules and regulations which mandate that all persons, regardless of race, color, creed, religion, sex, genetic information, age, national origin, disability, familial status or political affiliation, shall have equal access to employment opportunities, including but not limited to the Americans with Disabilities Act. The Lessor shall take affirmative action to ensure that it will not participate either directly or indirectly in the discrimination prohibited by or pursuant to Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Section 109 of the Housing and Community Development Act of 1974, the Age Discrimination Act of 1975, and the Genetic Information Nondiscrimination Act of 2008.

Section 9.15 The undersigned Lessor hereby certifies that is does not currently, and agrees for the duration of the contract that it will not use: (1) the forced labor of ethnic Uyghurs in the People's Republic of China; (2) any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China; (3) any contractors, subcontractors or suppliers that use the forced labor or any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China. If the Lessor becomes aware during the term of the contract that it is not in compliance with this certification, Lessor shall notify Superstition Fire & Medical District within five days of becoming aware

of the noncompliance. If Lessor does not provide the public entity with a written certification that the company has remedied the noncompliance within one hundred eighty days after notifying the public entity of the noncompliance, the contract shall terminate.

This Addendum shall be effective on and from the day and year first above written. To the extent this Addendum conflicts with or is inconsistent with any term of the original Agreement referenced above, this Addendum shall control. In all other respects and manner, the original Agreement entered into by and between the parties shall remain in full force and effect.

DATED this _____ day of _____, 2025.

Zions Bancorporation, N.A., as Lessor

By:

Authorized Officer

**SUPERSTITION FIRE AND MEDICAL DISTRICT,
as Lessee**

By:

Title: _____

ESCROW AGREEMENT

This Escrow Agreement (this “Agreement”) dated November 25, 2025 by and among ZIONS BANCORPORATION, N.A., a national banking association (hereinafter referred to as “Lessor”), SUPERSTITION FIRE & MEDICAL DISTRICT, a body politic and corporate of the State of Arizona (hereinafter referred to as “Lessee”), and ZIONS BANCORPORATION, National Association, a national banking association (hereinafter referred to as “Escrow Agent”).

Reference is made to that certain Lease/Purchase Agreement, dated November 25, 2025, between Lessor and Lessee (hereinafter referred to as the “Lease”), covering the acquisition and lease of certain Leased Property described therein (the “Leased Property”). It is a requirement of the Lease that the Acquisition Amount be deposited with the Escrow Agent hereunder for the purpose of providing a mechanism for the application of such amounts to the payment of Leased Property costs.

The parties agree as follows:

1. Creation of Escrow Account.

(a) There is hereby created a special trust fund to be known as the “SUPERSTITION FIRE & MEDICAL DISTRICT Escrow Account” (the “Escrow Account”) to be held in trust by the Escrow Agent for the purposes stated herein, for the benefit of Lessor and Lessee, to be held, disbursed and returned in accordance with the terms hereof. On the date hereof, from proceeds of the Lease, Lessor has caused the amount of \$430,294.80 to be transferred to Escrow Agent for deposit into the Escrow Account.

(b) The Escrow Agent shall invest and reinvest moneys on deposit in the Escrow Account in Qualified Investments in accordance with written instructions received from Lessee. Lessee shall be solely responsible for ascertaining that all proposed investments and reinvestments are Qualified Investments and that they comply with federal, state and local laws, regulations and ordinances governing investment of such funds and for providing appropriate notice to the Escrow Agent for the reinvestment of any maturing investment. Accordingly, neither the Escrow Agent nor Lessor shall be responsible for any liability, cost, expense, loss or claim of any kind, directly or indirectly arising out of or related to the investment or reinvestment of all or any portion of the moneys on deposit in the Escrow Account, and Lessee agrees to and does hereby release the Escrow Agent and Lessor from any such liability, cost, expenses, loss or claim. Interest on the Escrow Account shall become part of the Escrow Account, and gains and losses on the investment of the moneys on deposit in the Escrow Account shall be borne by the Escrow Account. The Escrow Agent shall have no discretion whatsoever with respect to the management, disposition or investment of the Escrow Account and is not a trustee or a fiduciary to Lessee. The Escrow Agent shall not be responsible for any market decline in the value of the Escrow Account and has no obligation to notify Lessor and Lessee of any such decline or take any action with respect to the Escrow Account, except upon specific written instructions stated herein. For purposes of this agreement, “Qualified Investments” means any investments which meet the requirements of the investment of public funds by Lessee in accordance with applicable Arizona law and any applicable policy that the governing body of the Lessee has adopted with respect to the investment of public funds.

(c) Lessee covenants that all investments of amounts deposited in the Escrow Account or other fund containing gross proceeds of the Lease will be acquired, disposed of and valued at the fair market value thereof. Investments in funds or accounts (or portions thereof) that are subject to a yield restriction under applicable provisions of the Internal Revenue Code of 1986, as amended (the “Code”) will be valued at their present value. Terms used in this subsection (c) shall have the meanings given them in the applicable provisions of the Code.

(d) Unless the Escrow Account is earlier terminated in accordance with the provisions of paragraph (e) below, amounts in the Escrow Account shall be disbursed by the Escrow Agent in payment of amounts described in Section 2 hereof upon receipt of written authorization(s) from Lessor, as is more fully described in Section 2 hereof. If the amounts in the Escrow Account are insufficient to pay such amounts, Lessee shall provide any balance of the funds needed to complete the acquisition of the Leased Property. Any moneys remaining in the Escrow Account on or after the date on which Lessee executes the Delivery and Acceptance Certificate shall be applied as provided in Section 4 hereof.

(e) The Escrow Account shall be terminated at the earliest of (i) the final distribution of amounts in the Escrow Account (including delivery to Lessor by Lessee of an executed Delivery and Acceptance Certificate contained in the Lease), or (ii) written notice given by Lessor of the occurrence of a default or non-appropriation of the Lease.

(f) The Escrow Agent may act in reliance upon any writing or instrument or signature which it, in good faith, believes to be genuine and may assume the validity and accuracy of any statement or assertion contained in such a writing or instrument. The Escrow Agent shall not be liable in any manner for the sufficiency or correctness as to form, manner of execution, or validity of any instrument nor as to the identity, authority, or right of any person executing the same; and its duties hereunder shall be limited to the receipt of such moneys, instruments or other documents received by it as the Escrow Agent, and for the disposition of the same in accordance herewith. In the event conflicting instructions as to the disposition of all or any portion of the Escrow Account are at any time given by Lessor and Lessee, the Escrow Agent shall abide by the instructions or entitlement orders given by Lessor without consent of the Lessee.

(g) Unless the Escrow Agent is guilty of gross negligence or willful misconduct with regard to its duties hereunder, Lessee agrees to and does hereby release and indemnify the Escrow Agent and hold it harmless from any and all claims, liabilities, losses, actions, suits or proceedings at law or in equity, or any other expense, fees or charges of any character or nature, which it may incur or with which it may be threatened by reason of its acting as Escrow Agent under this Agreement; and in connection therewith, does to the extent permitted by law indemnify the Escrow Agent against any and all expenses; including reasonable attorneys’ fees and the cost of defending any action, suit or proceeding or resisting any claim.

(h) If Lessee and Lessor shall be in disagreement about the interpretation of the Lease, or about the rights and obligations, or the propriety of any action contemplated by the Escrow Agent hereunder, the Escrow Agent may, but shall not be required to, file an appropriate civil action to resolve the disagreement. The Escrow Agent shall be reimbursed by Lessee for all costs, including reasonable attorneys’ fees, in connection with such civil action, and shall be fully

protected in suspending all or part of its activities under the Lease until a final judgment in such action is received.

(i) The Escrow Agent may consult with counsel of its own choice and shall have full and complete authorization and protection with the opinion of such counsel. The Escrow Agent shall otherwise not be liable for any mistakes of fact or errors of judgment, or for any acts or omissions of any kind unless caused by its willful misconduct.

(j) Lessee shall reimburse the Escrow Agent for all reasonable costs and expenses, including those of the Escrow Agent's attorneys, agents and employees incurred for extraordinary administration of the Escrow Account and the performance of the Escrow Agent's powers and duties hereunder in connection with any Event of Default under the Lease, or in connection with any dispute between Lessor and Lessee concerning the Escrow Account.

(k) The Escrow Agent or any successor may at any time resign by giving mailed notice to Lessee and Lessor of its intention to resign and of the proposed date of resignation (the "Effective Date"), which shall be a date not less than 90 days after such notice is delivered to an express carrier, charges prepaid, unless an earlier resignation date and the appointment of a successor shall have been approved by the Lessee and Lessor. After the Effective Date, the Escrow Agent shall be under no further obligation except to hold the Escrow Account in accordance with the terms of this Agreement, pending receipt of written instructions from Lessor regarding further disposition of the Escrow Account.

(l) The Escrow Agent shall have no responsibilities, obligations or duties other than those expressly set forth in this Agreement and no fiduciary or implied duties, responsibilities or obligations shall be read into this Agreement.

2. Acquisition of Property.

(a) Acquisition Contracts. Lessee will arrange for, supervise and provide for, or cause to be supervised and provided for, the acquisition of the Leased Property, with moneys available in the Escrow Account. Lessee represents the estimated costs of the Leased Property are within the funds estimated to be available therefor, and Lessor makes no warranty or representation with respect thereto. Lessor shall have no liability under any of the acquisition or construction contracts. Lessee shall obtain all necessary permits and approvals, if any, for the acquisition, equipping and installation of the Leased Property, and the operation and maintenance thereof.

(b) Authorized Escrow Account Disbursements. Disbursements from the Escrow Account shall be made for the purpose of paying (including the reimbursement to Lessee for advances from its own funds to accomplish the purposes hereinafter described) the Leased Property Costs and any delivery costs.

(c) Requisition Procedure. No disbursement from the Escrow Account shall be made unless and until Lessor has approved such requisition. Prior to disbursement from the Escrow Account there shall be filed with the Escrow Agent a requisition for such payment in the form of Disbursement Request attached hereto as Schedule 1, stating each amount to be paid and

the name of the person, firm or corporation to whom payment thereof is due. Each such requisition shall be signed by Billy Warren (including his successors or anyone whom he or his successors may appoint to sign) of Lessee (an "Authorized Representative") and by Kirsi Hansen or her designees of Lessor, and shall be subject to the following:

1. Delivery to Lessor of an executed Disbursement Request in the form attached hereto as Schedule 1 certifying that:

(i)(A) an obligation in the stated amount has been incurred by Lessee, and that the same is a proper charge against the Escrow Account for costs relating to the Leased Property identified in the Lease, and has not been paid (or has been paid by Lessee and Lessee requests reimbursement thereof); (B) the Leased Property relating to such obligation has been delivered, installed, is operating in a manner consistent with the manufacturer's intended use and has been inspected and finally accepted for all purposes by Lessee, and (C) Lessee has conducted such inspection and/or testing of the Leased Property relating to such obligation as it deems necessary and appropriate in order to determine the Leased Property's capability and functionality in order to accept such Leased Property; (ii) the Lessee has no notice of any vendor's, mechanic's or other liens or rights to liens, chattel mortgages, conditional sales contracts or security interest which should be satisfied or discharged before such payment is made; (iii) such requisition contains no item representing payment on account, or any retained percentages which Lessee is, at the date of such certificate, entitled to retain (except to the extent such amounts represent a reimbursement to Lessee); (iv) the Leased Property is insured in accordance with the Lease; (v) no Event of Default (nor any event which, with notice or lapse of time or both, would become an Event of Default) has occurred and is continuing; (vi) no material adverse change in Lessee's financial condition has occurred since the date of the execution of the Lease; and (vii) the representations, warranties and covenants of Lessee set forth in the Lease are true and correct as of the date thereof; and

2. Delivery to Lessor invoices (and proofs of payment of such invoices, if Lessee seeks reimbursement); bills of sale (if title to such Leased Property has passed to Lessee); a description, and serial and/or VIN number for each item and any additional documentation reasonably requested by Lessor; and
3. In the case of the final distribution from the Escrow Account, delivery to Lessor a properly executed Delivery and Acceptance Certificate as required by the Lease.

3. Deposit to Escrow Account. Upon execution of the Lease and the satisfaction of any conditions specified in the Lease or otherwise, Lessor will cause the Acquisition Amount of \$430,294.80 to be deposited into the Escrow Account. Lessee agrees to pay any costs with respect to the Leased Property in excess of amounts available therefor in the Escrow Account and to pay delivery costs in excess of amounts available therefor in the Escrow Account; provided, however,

that any amount required for either such purpose shall be payable solely from moneys that have been appropriated by Lessee for such purpose.

4. Excessive Escrow Account. Any funds remaining in the Escrow Account on or after the date on which Lessee executes the Delivery and Acceptance Certificate, or upon a termination of the Escrow Account as otherwise provided herein, shall be delivered by the Escrow Agent to Lessor, and Lessor shall apply such funds to amounts owed under the Lease.

5. Security Interest. The Escrow Agent and Lessee acknowledge and agree that the Escrow Account and all proceeds thereof are being held by Escrow Agent for disbursement or return as set forth herein. Lessee hereby grants to Lessor a first priority perfected security interest in the Escrow Account and all proceeds thereof, and all investments made with any amounts in the Escrow Account. If the Escrow Account or any part thereof, is converted to investments as set forth in this agreement, such investments shall be made in the name of Escrow Agent and the Escrow Agent hereby agrees to hold such investments as bailee for Lessor so that Lessor is deemed to have possession of such investments for the purpose of perfecting its security interest.

6. Control of Escrow Account. In order to perfect Lessor's security interest by means of control in (i) the Escrow Account established hereunder, (ii) all securities entitlements, investment property and other financial assets now or hereafter credited to the Escrow Account, (iii) all of Lessee's rights in respect of the Escrow Account, such securities entitlements, investment property and other financial assets, and (iv) all products, proceeds and revenues of and from any of the foregoing personal property (collectively, the "Collateral"), Lessor, Lessee and Escrow Agent further agree as follows:

(a) All terms used in this Section 6 which are defined in the Uniform Commercial Code of the State of Arizona ("Commercial Code") but are not otherwise defined herein shall have the meanings assigned to such terms in the Commercial Code, as in effect on the date of this Agreement.

(b) Escrow Agent will comply with all entitlement orders originated by Lessor with respect to the Collateral, or any portion of the Collateral, without further consent by Lessee.

(c) Escrow Agent hereby represents and warrants (a) that the records of Escrow Agent show that Lessee is the sole owner of the Collateral, (b) that Escrow Agent has not been served with any notice of levy or received any notice of any security interest in or other claim to the Collateral, or any portion of the Collateral, other than Lessor's claim pursuant to this Agreement, and (c) that Escrow Agent is not presently obligated to accept any entitlement order from any person with respect to the Collateral, except for entitlement orders that Escrow Agent is obligated to accept from Lessor under this Agreement and entitlement orders that Escrow Agent, subject to the provisions of paragraph (e) below, is obligated to accept from Lessee.

(d) Without the prior written consent of Lessor, Escrow Agent will not enter into any agreement by which Escrow Agent agrees to comply with any entitlement order of any person other than Lessor or, subject to the provisions of paragraph (e) below, Lessee, with respect to any portion or all of the Collateral. Escrow Agent shall promptly notify Lessor if any person

requests Escrow Agent to enter into any such agreement or otherwise asserts or seeks to assert a lien, encumbrance or adverse claim against any portion or all of the Collateral.

(e) Except as otherwise provided in this paragraph (e) and subject to Section 1(b) hereof, Escrow Agent may allow Lessee to effect sales, trades, transfers and exchanges of Collateral within the Escrow Account, but will not, without the prior written consent of Lessor, allow Lessee to withdraw any Collateral from the Escrow Account. Escrow Agent acknowledges that Lessor reserves the right, by delivery of written notice to Escrow Agent, to prohibit Lessee from effecting any withdrawals (including withdrawals of ordinary cash dividends and interest income), sales, trades, transfers or exchanges of any Collateral held in the Escrow Account. Further, Escrow Agent hereby agrees to comply with any and all written instructions delivered by Lessor to Escrow Agent (once it has had a reasonable opportunity to comply therewith) and has no obligation to, and will not, investigate the reason for any action taken by Lessor, the amount of any obligations of Lessee to Lessor, the validity of any of Lessor's claims against or agreements with Lessee, the existence of any defaults under such agreements, or any other matter.

(f) Lessee hereby irrevocably authorizes Escrow Agent to comply with all instructions and entitlement orders delivered by Lessor to Escrow Agent.

(g) Escrow Agent will not attempt to assert control and does not claim and will not accept any security or other interest in any part of the Collateral, and Escrow Agent will not exercise, enforce or attempt to enforce any right of setoff against the Collateral, or otherwise charge or deduct from the Collateral any amount whatsoever.

(h) Escrow Agent and Lessee hereby agree that any property held in the Escrow Account shall be treated as a financial asset under such section of the Commercial Code, notwithstanding any contrary provision of any other agreement to which Escrow Agent may be a party.

(i) Escrow Agent is hereby authorized and instructed, and hereby agrees, to send to Lessor at its address set forth in Section 7 below, concurrently with the sending thereof to Lessee, duplicate copies of any and all monthly Escrow Account statements or reports issued or sent to Lessee with respect to the Escrow Account.

7. Information Required Under USA PATRIOT ACT. The parties acknowledge that in order to help the United States government fight the funding of terrorism and money laundering activities, pursuant to Federal regulations that became effective on October 1, 2003 (Section 326 of the USA PATRIOT Act) all financial institutions are required to obtain, verify, record and update information that identifies each person establishing a relationship or opening an account. The parties to this Agreement agree that they will provide to the Escrow Agent such information as it may request, from time to time, in order for the Escrow Agent to satisfy the requirements of the USA PATRIOT Act, including but not limited to the name, address, tax identification number and other information that will allow it to identify the individual or entity who is establishing the relationship or opening the account and may also ask for formation documents such as articles of incorporation or other identifying documents to be provided.

8. Fee Schedule; Initial Fee. \$1,500.00.
9. Miscellaneous.

(a) Capitalized terms not otherwise defined herein shall have the meanings assigned to them in the Lease. This agreement may not be amended except in writing signed by all parties hereto. This agreement may be executed in one or more counterparts, each of which shall be deemed to be an original instrument and each shall have the force and effect of an original and all of which together constitute, and shall be deemed to constitute, one and the same instrument. Notices hereunder shall be made in writing and shall be deemed to have been duly given when personally delivered or when deposited in the mail, first class postage prepaid, or delivered to an express carrier, charges prepaid, or sent by facsimile with electronic confirmation, addressed to each party at its address below:

If to Lessor: ZIONS BANCORPORATION, N.A.
1 South Main Street 17th Floor
Salt Lake City, UT 84133
Attn: Jon Dunfield, Vice President

If to Lessee: SUPERSTITION FIRE & MEDICAL DISTRICT
565 N. Idaho Road
Apache Junction, Arizona 85119
Attn: Billy Warren

If to Escrow Agent: ZIONS BANCORPORATION, National Association
Corporate Trust Department
1801 Main Street, Suite 460
Houston, TX 77002
Attn: Lori Cooney

(b) As required by the provisions of Arizona Revised Statutes Section 38-511, as amended, notice is hereby given that the District may, within three (3) years of the execution hereof, cancel this Agreement without penalty or further obligations, if any person significantly involved in initiating, negotiation, securing, drafting or creating this Agreement on behalf of the District is, at any time while this Agreement or any extension of this Agreement is in effect, an employee or agent of the Escrow Agent or a consultant to the Escrow Agent with respect to the subject matter of this Agreement. The cancellation shall be effective when written notice from the District is received by the Escrow Agent unless the notice specifies a later time.

(c) To the extent applicable and except as stated below, pursuant to the provisions of the Section 41-4401 of the Arizona Revised Statutes, and in accordance with federal law and Escrow Agent's practice, Escrow Agent hereby warrants and certifies that Escrow Agent complies with the Immigration Reform and Control Act of 1986 and employment with the Escrow Agent is contingent on the successful completion of the I-9 verification process and the E-Verify requirements of Section 23-214(A) of the Arizona Revised Statutes. Such employment with

Escrow Agent is not contingent on any of the other requirements of Section 23-214(A). Escrow Agent does not knowingly employ any individuals in the United States who are not legally authorized to work in the United States. For associate confidentiality reasons, Escrow Agent generally does not disclose or allow the inspection of its personnel records of its associates to third parties, including I-9 or e-Verify documentation. However, if there are concerns about an individual's eligibility to perform work in connection with this Agreement, please contact Lessor in accordance with Section 9 (a) of this Agreement and Lessor will investigate and respond to these concerns.

(d) Pursuant to Section 35-393 et seq., Arizona Revised Statutes, Escrow Agent hereby certifies it is not currently engaged in, and for the duration of this Agreement shall not engage in, a boycott of Israel. The term “boycott” has the meaning set forth in Section 35-393, Arizona Revised Statutes. If it is determined that Escrow Agent’s certification above is false or that it has breached such agreement, Lessee may impose remedies as provided by law.

(SIGNATURE PAGE TO FOLLOW)

In Witness Whereof, the parties have executed this Escrow Agreement as of the date first above written.

ZIONS BANCORPORATION, N.A.
as Lessor

SUPERSTITION FIRE & MEDICAL
DISTRICT
as Lessee

By: _____
Lee Davis, Senior Vice President

By: _____
Kathleen Chamberlain, Board Chair

ZIONS BANCORPORATION, National Association
as Escrow Agent

By: _____
Lori Cooney
Its: Vice President

SCHEDULE 1

TO THE ESCROW AGREEMENT

FORM OF DISBURSEMENT REQUEST

Re: Lease/Purchase Agreement, dated November 25, 2025 (the “Lease”), between ZIONS BANCORPORATION, N.A., as Lessor, and SUPERSTITION FIRE & MEDICAL DISTRICT, as Lessee (Capitalized terms not otherwise defined herein shall have the meanings assigned to them in the Lease.)

In accordance with the terms of the Escrow Agreement, dated November 25, 2025 (the “Escrow Agreement”) by and among ZIONS BANCORPORATION, N.A., a national banking association (“Lessor”), SUPERSTITION FIRE & MEDICAL DISTRICT (“Lessee”) and ZIONS BANCORPORATION, National Association, (the “Escrow Agent”), the undersigned hereby requests the Escrow Agent pay the following persons the following amounts from the Escrow Account created under the Escrow Agreement for the following purposes:

PAYEE’S NAME AND ADDRESS	INVOICE NUMBER	DOLLAR AMOUNT	PURPOSE (INCLUDE SERIAL AND/OR VIN NUMBER)

The undersigned hereby certifies as follows:

(i) The date on which “acceptance” occurred with respect to the portion of the Leased Property for which disbursement is hereby requested is _____, and such portion of Leased Property is hereby accepted by Lessee for all purposes of the Lease.

(ii) An obligation in the stated amount has been incurred by Lessee, and the same is a proper charge against the Escrow Account for costs relating to the Leased Property identified in the Lease, and has not been paid (or has been paid by Lessee and Lessee requests reimbursement thereof), and the Leased Property relating to such obligation has been delivered, installed, is operating in a manner consistent with the manufacturer's intended use and has been inspected and finally accepted for all purposes by Lessee. Lessee has conducted such inspection and/or testing of the Leased Property relating to such obligation as it deems necessary and appropriate in order to determine the

Leased Property's capability and functionality in order to accept such Leased Property. Attached hereto is the original invoice with respect to such obligation.

(iii) The undersigned, as Authorized Representative, has no notice of any vendor's, mechanic's or other liens or rights to liens, chattel mortgages, conditional sales contracts or security interest which should be satisfied or discharged before such payment is made.

(iv) This requisition contains no item representing payment on account, or any retained percentages which Lessee is, at the date hereof, entitled to retain (except to the extent such amounts represent a reimbursement to Lessee).

(v) The Leased Property is insured in accordance with the Lease.

(vi) No Event of Default, and no event which with notice or lapse of time, or both, would become an Event of Default, under the Lease has occurred and is continuing at the date hereof.

(vii) No material adverse change in Lessee's financial condition has occurred since the date of the execution of the Lease.

(viii) The representations, warranties and covenants of Lessee set forth in the Lease are true and correct as of the date hereof.

Dated: _____

By: _____
Authorized Representative

Disbursement of funds from the Escrow Account in accordance with the foregoing Disbursement Request hereby is authorized

ZIONS BANCORPORATION, N.A.,
as Lessor under the Lease

By: _____
Name: _____
Title: _____

ADDENDUM TO ESCROW AGREEMENT

Preamble

THIS ADDENDUM is made this _____ day of _____, 2025, to that certain Escrow Agreement by and between Zions Bancorporation, N.A., (the “Lessor”), and the Superstition Fire & Medical District (the “Lessee”), dated as of November 25, 2025 (“Agreement”).

Recitals

WHEREAS, Lessee has executed the above-referenced Agreement and supporting documentation in order to provide for the acquisition and financing of a 2025 Horton 623 Type 1 Crawl-Through Custom Ambulance on a 2024-2025 Ford F-450 4 x 2 Gasoline Chassis with Equipment, as more fully described in Exhibit “B” to the Lease Purchase Agreement, attached thereto (the “Equipment”); and

WHEREAS, the parties wish to modify certain terms and provisions of that Agreement dated November 25, 2025.

NOW THEREFORE, in consideration of the mutual promises and covenants contained herein, the parties agree as follows:

Covenants

1. Any references in the original Escrow Agreement to the phrase “body politic and corporate of the State of Arizona” as it relates to the Superstition Fire & Medical District, shall be modified to read “political subdivision of the State of Arizona.”
2. The following sections shall be added to Paragraph 9 (Miscellaneous) to read as follows:

(e) During the Term of this Lease, subject to an Event of Non-Appropriation, the Lessee covenants and agrees that it shall give due consideration, in accordance with applicable law, as an item for expenditure during its annual budget considerations, of an amount necessary to pay Lease Payments for the Leased Property during the next succeeding Renewal Term. Nothing herein shall be construed to direct or require that Lessee take or direct that any legislative act be done, or that the Governing Body of Lessee improperly or unlawfully delegate any of its legislative authority.

(f) The undersigned Lessor hereby certifies that is does not currently, and agrees for the duration of the contract that it will not use: (1) the forced labor of ethnic Uyghurs in the People’s Republic of China; (2) any goods or services produced by the forced labor of ethnic Uyghurs in the People’s Republic of China; (3) any contractors, subcontractors or suppliers that use the forced labor or any goods or services produced by the forced labor of ethnic Uyghurs

in the People’s Republic of China. If the Lessor becomes aware during the term of the contract that it is not in compliance with this certification, Lessor shall notify Superstition Fire & Medical District within five days of becoming aware of the noncompliance. If Lessor does not provide the public entity with a written certification that the company has remedied the noncompliance within one hundred eighty days after notifying the public entity of the noncompliance, the contract shall terminate.

DATED this _____ day of _____, 2025.

Zions Bancorporation, N.A., as Lessor

By:

Lee Davis, Senior Vice President

Zions Bancorporation, N.A., as Escrow Agent

By: _____

Lori Cooney

Its: Vice President

**SUPERSTITION FIRE AND MEDICAL DISTRICT,
as Lessee**

By:

Title: _____

CERTIFICATE OF AUTHORITY

The below signed, being the duly authorized agents and representatives of the Superstition Fire & Medical District, a political subdivision of the State of Arizona, (the “Lessee”) do hereby certify:

1. That the signature of the officials of the Lessee which appear on the Lease Purchase Agreement, dated November 25, 2025, and the related documents thereto, by and between Zions Bancorporation, N.A., “Lessor,” and the Lessee, the Addendum, the Board Resolution, and related documents (collectively, the “Lease Purchase Agreement”) have been duly authorized and are true and genuine; that I know said officials and know him/her to hold the office set forth below his/her name, as the case may be.

2. That all due diligence, good faith, and legal requirements have been met and procedures followed for the acquisition of the leased equipment and the proper award to the Lessor of the Lease Purchase Agreement, including substantial efforts made toward procuring the best possible price and terms for the equipment being acquired and financing sought, that the equipment being acquired with the finance proceeds has been identified, the amount of funding needed for the refunding of said certain equipment established, and that the District is only seeking funding sufficient to pay for said acquisition, together with costs associated with closing.

3. That the representations and warranties made by the Lessee in the Lease Purchase Agreement, including those in Article II, are true.

4. That the Lessee did, pursuant to the applicable open meeting laws, adopt a budget for the current fiscal year which includes sufficient appropriated funds to meet its financial obligations under the Lease Purchase Agreement and related documents.

5. That the Superstition Fire and Medical District (previously known as the Apache Junction Fire District) was properly formed in 1955, and remains in good standing, and has the authority to acquire the leased equipment and enter into the Lease Purchase Agreement.

6. There is no litigation, action, suit or proceeding pending in any court, administrative agency, arbiter or governmental body which in any way challenges the existence of the Superstition Fire & Medical District, or its authority to enter into the Lease Purchase Agreement.

7. That the form of Lease Purchase Agreement, Addendum, Resolution and all related documents thereto were approved by formal action of the Fire Board, in public session, after having been duly posted and noticed, consistent with state law and the open meeting requirements in force at that time.

8. That all necessary bidding requirements, postings, notices, inquiries and actions have been taken in conjunction with the acquisition of the subject funds and leased equipment.

EXHIBIT “A”

9. That all persons voting on the approval of the financing referenced above and executing the Lease Purchase Agreement in furtherance thereof, had full authority to do so.

DATED this _____ day of November 2025

SUPERSTITION FIRE & MEDICAL DISTRICT

By _____
Board Chairperson

ATTEST:

By _____
Board Clerk

SUPERSTITION FIRE & MEDICAL DISTRICT

Resolution No. 2025-11-19-03

A FORMAL RESOLUTION OF THE ELECTED BOARD OF THE SUPERSTITION FIRE & MEDICAL DISTRICT APPROVING THE EXECUTION AND DELIVERY OF A LEASE PURCHASE AGREEMENT DATED NOVEMBER 25, 2025, PROVIDING FOR LEASE PAYMENTS PURSUANT TO THE LEASE PURCHASE AGREEMENT AND MAKING CERTAIN COVENANTS AND AGREEMENTS WITH RESPECT THERETO; AUTHORIZING THE ACQUISITION OF CERTAIN EQUIPMENT; AUTHORIZING THE TAKING OF ALL OTHER ACTION AS NECESSARY TO CONSUMMATE THE TRANSACTIONS CONTEMPLATED BY THIS RESOLUTION.

WHEREAS, the Governing Body hereby desires to enter into that certain Lease Purchase Agreement dated November 25, 2025 (the "Lease Purchase Agreement") by and between Zions Bancorporation, N.A. (the "Lessor") and Superstition Fire & Medical District, a political subdivision of the State of Arizona (the "Lessee") for the purpose of procuring a 2025 Horton 623 Type 1 Crawl-Through Custom Ambulance on a 2024-2025 Ford F-450 4 x 2 Gasoline Chassis and Equipment (the "Equipment"), as more clearly defined on Exhibit "B" to the Lease Purchase Agreement, attached thereto; and

WHEREAS, the above Lessee is duly organized and existing pursuant to the constitution and laws of the State of Arizona; and

WHEREAS, pursuant to applicable law, the governing body of the Lessee ("Governing Body") is authorized to acquire, dispose of and encumber real and personal property, including, without limitation, rights and interests in property, equipment, leases and easements necessary to the functions or operations of the Lessee; and

WHEREAS, the Governing Body hereby finds and determines that the acquisition of the above-described Equipment and the execution of the Lease Purchase Agreement in the principal amount of Four Hundred and Thirty Thousand, Two Hundred Ninety-Four Dollars and Eighty Cents (\$430,294.80) (the "Principal Amount") for the purpose of acquiring the Equipment (Horton Type 1 Ambulance) generally described on Exhibit "B" to the Lease Purchase Agreement is appropriate and necessary to the functions and operations of the Lessee; and

EXHIBIT "D"

NOW, THEREFORE, Be It Resolved by the Governing Body of the Lessee:

Section 1: That the Superstition Fire & Medical District is hereby authorized to acquire the above-referenced Equipment for the total purchase price of \$430,294.80, and that the Superstition Fire & Medical District enter into that certain Lease Purchase Agreement with the Lessor dated November 25, 2025, and any associated documents and Addendum related thereto, for the purpose of procuring the Equipment described therein and the Governing Board hereby declares that the needed funds have been appropriated for the current fiscal year, as determined by the Agreement and payment schedule thereof;

Section 2: That the Board Chairperson and the Board Clerk (“Authorized Representatives”), and the Fire Chief, acting on behalf of the Lessee are hereby authorized to negotiate, enter into, execute, and deliver the Lease Purchase Agreement, the Addendum thereto, and related documents in substantially the form set forth in the documents presently before the Governing Body, (collectively, the Lease Purchase Documents), which documents are available for public inspection at the office of the Lessee. The Authorized Representatives acting on behalf of the Lessee are hereby authorized to negotiate, enter into, execute, and deliver such other documents relating to the Lease Purchase Agreement as the Authorized Representatives deem necessary and appropriate. All other related contracts and agreements necessary and incidental to the Lease Purchase Agreement are hereby authorized;

Section 3: By a written instrument signed by the Authorized Representatives, said Authorized Representatives may designate specifically identified officers or employees of the Lessee to execute and deliver agreements and documents relating to the Lease Purchase Agreement on behalf of the Lessee;

Section 4: The principal amount of the Lease Purchase Agreement shall bear interest as set forth in the Lease Purchase Agreement and the same shall contain such options to purchase by the Lessee as set forth therein;

Section 5: The Lessee's obligations under the Lease Purchase Agreement shall be subject to annual appropriation or renewal by the Governing Body as set forth in the Lease Purchase Agreement and the Lessee’s obligations under the Lease Purchase Agreement shall not constitute a general obligation of the Lessee or indebtedness under the Constitution or laws of the State of Arizona;

Section 6: That the Lease Purchase Agreement is designated by the Lessee as “qualified tax-exempt obligation” for the purposes of Section 265(b) (3) of the Internal Revenue Code of 1986, as amended; and

Section 7: This Resolution shall take effect immediately upon its adoption and approval.

Adopted and Approved on this _____ day of November, 2025.

By: _____
Board Chairperson

ATTEST:

Board Clerk

CONSENT AND WAIVER

The undersigned hereby consents to the representation by WILLIAM R. WHITTINGTON and the law firm of BOYLE, PECHARICH, CLINE, WHITTINGTON & STALLINGS, PLLC (“BPCWS”), of Superstition Fire and Medical District, a political subdivision of the State of Arizona in connection with the Lease Purchase Agreement dated November 25, 2025, by and between Zions Bancorporation, N.A. (“Zions Bank”) and Superstition Fire and Medical District (the “Agreement”).

In connection therewith, the undersigned acknowledges that William R. Whittington and the law firm of BPCWS represents or has represented both Superstition Fire and Medical District and National Bank of Arizona (an affiliate of Zions) regarding a variety of matters unrelated to the Agreements and does hereby waive any conflict of interest arising thereby.

Dated this _____ day of November, 2025

**SUPERSTITION FIRE AND
MEDICAL DISTRICT**

By: _____
Board Chairperson

Attest:

Board Clerk

Governing Board Meeting – Date

Agenda Item: #10

Agenda Item Title

Discussion and possible approval of Resolution #2025-11-19-04, declaring for purposes of section 1.150-2 of the federal treasury regulations official attempt to be reimbursed in connection with certain capital expenditures.

Submitted By

John Whitney, Fire Chief

Background/Discussion

Superstition Fire & Medical District Board has declared its official intent to reimburse up to \$33.8 million in capital expenditures for fire and public safety facilities, vehicles, equipment, and apparatus with future bond proceeds, in compliance with federal Treasury regulations.

This resolution allows SFMD to use future bond proceeds to reimburse itself for eligible costs already incurred on fire and public safety capital projects, ensuring compliance with federal tax regulations.

Financial Impact(s)/Budget Line Item

n/a

Enclosure(s)

Resolution

Recommended Motion

“Motion to approve Resolution 2025-11-19-04 declaring, for purposes of section 1.150-2 of the federal treasury regulations official attempt to be reimbursed in connection with certain capital expenditures.”



Go To Item 11

Go to Agenda

RESOLUTION NO. 2025-11-19-04

RESOLUTION OF THE DISTRICT BOARD OF SUPERSTITION FIRE & MEDICAL DISTRICT OF PINAL AND MARICOPA COUNTIES, ARIZONA, DECLARING, FOR PURPOSES OF SECTION 1.150-2 OF THE FEDERAL TREASURY REGULATIONS, OFFICIAL INTENT TO BE REIMBURSED IN CONNECTION WITH CERTAIN CAPITAL EXPENDITURES RELATING TO FIRE/PUBLIC SAFETY FACILITY, VEHICLE, EQUIPMENT AND APPARATUS CAPITAL PROJECTS

WHEREAS, Superstition Fire & Medical District of Pinal and Maricopa Counties, Arizona (the “District”) is authorized and empowered pursuant to law to issue or cause to be issued obligations to finance the costs of various capital facilities owned or to be owned by the District; and

WHEREAS, it is contemplated that certain expenditures made by the District with regard to capital facilities, vehicles, apparatus and equipment owned or to be owned by the District with regard to fire/public safety and related capital improvement projects (collectively the “Project”) will be reimbursed from the proceeds of the sale of obligations to be issued in the future by or on behalf of the District;

NOW, THEREFORE, IT IS RESOLVED BY THE DISTRICT BOARD OF SUPERSTITION FIRE & MEDICAL DISTRICT OF PINAL AND MARICOPA COUNTIES, ARIZONA, AS FOLLOWS:

Section 1. Definitions. The following terms shall have the meanings assigned thereto as follows:

“official intent” means a declaration of intent of the District to reimburse an original expenditure with proceeds of an obligation;

“original expenditure” means an expenditure for a governmental purpose that is originally paid from a source other than a reimbursement bond; and

“reimbursement bond” means the portion of an issue of obligations allocated to reimburse an original expenditure that was paid before the issue date of such issue.

Section 2. Official Intent. This Resolution is official intent relating to reimbursement for the original expenditures for the Project which are capital expenditures (being any cost of a type that is properly chargeable to a capital account (or would be so chargeable with a proper election) under general federal income tax principles) made within sixty (60) days before and any time after the date of this Resolution. The maximum principal amount of obligations (including the reimbursement bonds for such purposes) to be issued for the Project is expected not to exceed \$33,800,000.

Section 3. Reasonableness of Official Intent. On the date of this Resolution, the District Board of the District have a reasonable expectation (being that a prudent person in the same circumstances would have based on all the objective facts and circumstances) that the District will reimburse such original expenditures with proceeds of such obligations. Official intents have not been declared by the District as a matter of course or in amounts substantially in excess of the amounts expected to be necessary for such projects. Moreover, the District does not have a pattern (other than in extraordinary circumstances) of failure to reimburse actual original expenditures covered by official intents.

Section 4. Reimbursement Period. With certain exceptions, an allocation in writing that evidences use of proceeds of the reimbursement bonds to reimburse the original expenditures shall be made not later than 18 months after the later of (i) the date that the original expenditure is paid, or (ii) the date the project is placed in service or abandoned, but in no event more than 3 years after the original expenditure is paid.

Section 5. Public Record. This Resolution shall be included as of the date hereof in the publicly available official records of the District, such records being maintained and supervised by the District Board of the District in the main administrative office of the District, and shall remain available for public inspection on a reasonable basis.

PASSED, ADOPTED AND APPROVED by the District Board of Superstition Fire & Medical District of Pinal, Arizona, on November 19, 2025.

.....
Chair, District Board, Superstition Fire & Medical
District of Pinal and Maricopa Counties, Arizona

ATTEST:

.....
Clerk, District Board, Superstition Fire & Medical
District of Pinal and Maricopa Counties, Arizona

Governing Board Meeting – November 19, 2025

Agenda Item: 11

Agenda Item Title

Reports

Background / Discussion

This item is for the fire chief and his staff to share information with the Board of items occurring within, or related to, the fire district. Any item shared is for information only. Upon request of the Board, any item shared during this agenda item may be moved to the agenda for future meetings. Board discussion, other than clarifying questions, cannot occur and no action, position, or direction may occur until the specific item is placed on the agenda.

- Senior Leadership Team
- Labor

Recommended Motion:

N/A



[Go to Item 12](#)

[Go to Agenda](#)

Governing Board Meeting – November 19, 2025

Agenda Item: 12

Agenda Item Title

Possible vote to go into Executive Session for personnel matters pursuant to A.R.S. § 38-431.03(A)(1) and legal advice pursuant to A.R.S. § 38-431.03(A)(3) and possible instructions to legal counsel pursuant to A.R.S. § 38-431.03(A)(4) re: Fire Chief John Whitney’s Annual Evaluation.

Submitted By

Legal Counsel William Whittington

Background/Discussion

Note: Executive Sessions are confidential pursuant to A.R.S. § 38-431.03(C).

Note: Legal action involving a final vote or decision shall not be taken at an executive session.

Financial Impact(s)/Budget Line Item

n/a

Enclosure(s)

n/a

Recommended Motion

“Motion to go into Executive Session at (State Time) for personnel matters pursuant to A.R.S. § 38-431.03(A)(1) and legal advice pursuant to A.R.S. § 38-431.03(A)(3) and possible instructions to legal counsel pursuant to A.R.S. § 38-431.03(A)(4) re: Fire Chief John Whitney’s Annual Evaluation. ”



Go to Item 13

Go to Agenda

Governing Board Meeting – November 19, 2025

Agenda Item: 13

Agenda Item Title

Public Session. Discussion and possible action regarding the Fire Chief's Annual Evaluation.

Submitted By

Legal Counsel William Whittington
Anna Butel, Administrative Services

Background/Discussion

Financial Impact(s)/Budget Line Item

Enclosure(s)

Recommended Motion

"TBD -"



Go to Item 14

Go to Agenda

Governing Board Meeting – November 19, 2025

Agenda Item: 14

Agenda Item Title

New Business / Future Agenda Items

Financial Impact

N/A

Enclosure(s)

N/A

Recommended Motion:

"TBD"



Go to Item 15

Go to Agenda

Governing Board Meeting – November 19, 2025

Agenda Item: 15

Agenda Item Title

Announcements and Document Signing

Background / Discussion

The BOD and staff may share and discuss items to be placed on future BOD agendas.

Recommended Motion:

N/A



Go to Item 16

Go to Agenda

Governing Board Meeting – November 19, 2025
Agenda Item: 16

Agenda Item Title
Adjournment

Recommended Motion:
“Motion to adjourn the Board meeting.”



[Go to Agenda](#)

Appendix A

A. Board Meeting Minutes from October 15, 2025

Submitted By

Board Secretary Tanya Anderson

Background / Discussion

The board meeting minutes of the previous meeting(s) are provided for the BOD to approve. If the BOD would like to discuss the minutes, they may be removed from the consent agenda. After approval, minutes are signed by the Clerk of the Board and kept as the official public record.

Financial Impact/Budget Line Item

N/A

Enclosure(s)

October 15, 2025 Board Meeting Minutes



Appendix B

B. 2026 Dutchman Youth Rodeo

Submitted By

Assistant Chief Richard Mooney

Background / Discussion

The 2026 Dutchman Youth Rodeo is a new agreement between the Superstition Mountain Promotional Corporation and the Superstition Fire & Medical District. The 2026 Dutchman Youth Rodeo is scheduled for Saturday, November 15, 2025, from 11:00 a.m. to 5:00 p.m.

Financial Impact/Budget Line Item

The agreement provides for cost recovery for personnel while generating some revenue for the UTV.

Enclosure(s)

2026 Dutchman Youth Rodeo; Medical Staffing Agreement PDF





Superstition Fire & Medical District

Serving the Communities of Apache Junction and Gold Canyon since 1955

Phone | (480) 982-4440

Website | sfmd.az.gov

November 19, 2025

Denny Walter, SMPC President
Superstition Mountain Promotional Corporation (SMPC)
2026 Dutchman Youth Rodeo
602-463-6805
djcholla@msn.com

Re: 2026 Dutchman Youth Rodeo; Medical Staffing Agreement

Denny Walter,

This Medical Staffing Agreement represents the cost associated with providing Emergency Medical Services (E.M.S.) to staff a Medical Aid Station for the Country in the Junction on February 21, 2026. This joint agreement between the Superstition Mountain Promotional Corporation (SMPC) and the Superstition Fire & Medical District (SFMD) is only valid for the scheduled event of February 21, 2026. This Agreement provides for one E.M.T. Basic provider and one Paramedic Advanced provider to serve as medical aid services.

Both parties agree upon the following obligations as per the execution of this Agreement for services:

Fire District's Obligations:

1. Provide one (1) State Certified Paramedic, advanced level provider, and one (1) State Certified E.M.T., basic level provider, to staff a medical aid station at the special event located at the Apache Junction Rodeo Grounds, 1590 E. Lost Dutchman Blvd., Apache Junction, AZ 85119, on Saturday, February 21, 2026, from 11:00 a.m. until 5:00 p.m.
2. Provide all necessary advanced life support equipment required for Paramedic-level care.
3. Provide all necessary disposable medical supplies.
4. Provide communications equipment for contacting the Mesa Regional Dispatch Center to request additional resources for treating or transporting patients at the event.
5. Provide for the disposal of medical waste or other biohazard materials generated by the treatment of patients at the event.

Superstition Mountain Promotional Corporation Obligations:

1. Agree to payment for services of one (1) State Certified Paramedic provider and one (1) State Certified E.M.T. provider to staff a medical aid station at the special event located at the Apache Junction Rodeo Grounds, 1590 E. Lost Dutchman Blvd, Apache Junction, AZ 85119, on Saturday, February 21, 2026, from 10:00 a.m. until 5:30 p.m. (7.5 hours total per provider) per Schedule 'A' (attached). The hours include travel, set-up & preparation time, rodeo hours, and returning equipment & personnel.
2. Provide a secure and centralized location for staging an Emergency Vehicle. This location shall have direct access in and out of the festival grounds to avoid any delays in transporting patients or responding to additional emergency vehicles.
3. Signage to identify the medical aid service's location.
4. Provide radio equipment to facilitate communications between the medical aid station staff, the event security staff, and the event coordinators throughout the duration of the event.
5. Provide unobstructed access at all times for emergency vehicle traffic into the event.

Miscellaneous Provisions:

1. Indemnification: To the fullest extent permitted by law, Superstition Mountain Promotional Corporation shall defend, indemnify, and hold harmless the Fire District, its agents, representatives, officers, directors, officials, and employees from and against all claims, damages, losses, and expenses, including, but not limited to, attorney fees, court costs, expert witness fees, and the cost of appellate proceedings, relating to, arising out of, or alleged to have resulted from the negligent acts, errors, omissions, mistakes or malfeasance relating to the performance of this Agreement by the Superstition Mountain Promotional Corporation, as well as any person or entity for whose acts, errors, omissions, mistakes or malfeasance the Superstition Mountain Promotional Corporation may be legally liable. Nothing herein shall be construed to modify the gross negligence standard in A.R.S. § 48-818.
2. Termination: "SFMD may terminate this agreement pursuant to A.R.S. Section § 38-511."
3. Non-appropriation: This Agreement shall be subject to available funding for the Fire District, and nothing in this Agreement shall bind the Fire District to expenditures in excess of funds appropriated and allotted for the purposes outlined in this Agreement.

If parties agree upon all conditions and obligations, the Fire District and Superstition Mountain Promotional Corporation, this document and representative(s) signature(s) shall be considered and accepted as a binding agreement. Affixed signatures and receipt of payment must be received in advance of the scheduled event date at our administration office located at 565 N. Idaho Rd, Apache Junction, AZ, 85119, for this Agreement to remain valid.

Superstition Fire and Medical District

Apache Junction Area Chamber of Commerce

Board Chair: _____

Agent: _____

Printed: _____

Printed: _____

Board Clerk: _____

Co-Agent: _____

Printed: _____

Printed: _____



Superstition Fire & Medical District

Serving the Communities of Apache Junction and Gold Canyon since 1955

Phone | (480) 982-4440

Website | sfmd.az.gov

SCHEDULE 'A'

Cost is based on two personnel for a total of 7.5 hours each (10:00 am through 5:30 pm)

<u>Personnel costs for each position who may work the event:</u>		<u>Cost for 7.5 hours.</u>
• Certified Paramedic	\$85/hour	\$637.50
• Certified EMT	\$75/hour	\$562.50
Apparatus Cost (1100-1700)		<u>Cost for 6 hours</u>
• UTV Cost per Hour	\$50.00/hour	\$300
Total cost: (Personnel cost/hour plus apparatus cost/hour)		\$1500

Upon provision of services, the Superstition Fire & Medical District will invoice the total cost based on the personnel who work the event, as displayed above. The invoice is payable within 30 days of receipt.

Appendix C

C. Purchase of Replacement Firefighter Turnout Gear (Second Sets)

Submitted By

Deputy Chief Cranmer

Background / Discussion

The Health & Safety Committee reviewed our PPE program and updated the turnout specs. We evaluated multiple manufacturers and field feedback. The Lion Center Cut turnout provides the best mix of build quality, safety, usability, and fit for our operations.

Safety: This spec improves thermal and steam protection, maintains better overlap at the coat–pant, wrist, and collar interfaces, and uses reinforced high-wear areas for kneeling and crawling. It includes an integrated drag-rescue device, high-visibility trim, and materials that breathe better to help manage heat stress. These features support cleaner gear practices and are aligned with current NFPA guidance.

For purchasing and support, the committee recommends SeaWestern as our vendor. Their team is responsive, answers questions quickly, and will come on-site to measure and custom-fit our members. While United Fire priced the coat and pant slightly lower, SeaWestern offers better overall value when the full package and service are considered.

This spec will outfit new hires and replace second sets coming due under our capital plan over the next five years. Approving the order now allows SFMD to lock in current pricing ahead of the scheduled rate increase in January 2026.

Financial Impact/Budget Line Item

The total cost of the turnout purchase is \$99,100.44

Enclosure(s)

Purchase quote, purchasing form, turnout spec



ON BEHALF:
SeaWestern, Inc.

FOR:
Superstition Fire & Medical

Description

MFGR Part #

Page: 1

SW2Q2874

Custom Turnout Coat - 2025 June

Coat Model / Design

**V-Force®
Bi-Swing Coat**

LION® Turnout V-Force® Bi-Swing Coat

Coat Model / Design

CVBM-32

32" Male V-Force® Bi-Swing Coat

Coat Liner & Moisture Barrier

G0 - Traditional

Traditional Liner, Center Cut Plus Glide Ice and Facecloth with Gore-Tex Moisture Barrier Technology.

***Additional \$74 charge for 38" lengths based on 32" length coat liner

Coat Inner Yoke Reinforcement

LYR247

Tencate Gray Semper Dri® front and back yokes with Lite-n-dri Foam (RM1099036) sewn to coat thermal liners. (RM1397-037) - V-Force Bi-Swing Center Cut Plus Only

Coat Water Well

CLW227Z

(Std) Water Well: Chambray DWR 2-Layer AraFlo E89 Quilt gray Semper Dri with Chambray face cloth/Pajama Check CROSSTECH with 5/8" elastic wrist shield. Waterwell with thermoplastic zipper - pull side sewn to coat liner sleeves. - For V-Fit & V-Force Evo

Coat Wristlets

CLW765

4" Isodri wristlet sewn to liner system with 5/8"x3 1/8" Nomex webbing thumbloop w/1" spacing between bartacks. Thumbloop centered on front liner sleeves & sewn to inside of wristlet

Coat Outer Shell Material

**6oz PBI Max
Natural**

PBI® Max, 6.0 oz., Natural Color

***Additional \$74 charge for 38" lengths based on 32" length coat shell

Fabric Color

Natural

Natural Color Outer Shell

Reflective Trim**CT134PTY**

3" NFPA Yellow Ventilated Coat Trim Pattern for V-Force Bi-Swing Coat

Drag Rescue Device**BHS020**

(Std) DRD: Firefighter Recovery Harness with 2" welt and 5.25x2.25" flap with rounded corners. 1 piece 1x2" loop for harness storage. 2 pieces 1x2" loop on shell flap closure, 2 pieces 1x2" hook on flap. 1 piece 1.5x2" hook on harness. 1 piece 2x2" loop underneath chest trim for harness storage, 1 pair 1x3.5" self-fabric straps with 1x2" hook and loop.

Coat Shell Attachment**CSA709**

(Std) 1x3.5" Self Fabric strap w/ 1 end sewn to coat shell & opposite end loose w/ 1 female non-logo snap, 1 male snap on liner centered at bottom rear panel to align w/ the female snap. (Cannot be used on coat where liner is 3" from shell). (Standard on V-Force)

Coat Collar**CR236ZM**

3" split self fabric collar with CROSSTECH® PJ lined. 2 pieces 1x3" hook on each end inside, thermoplastic zipper - pull side set along top edge for attachment to liner with magnetic closure. V-Fit

Collar Flashing**CLF221Z**

3" Self fabric, PJ CROSSTECH lined split collar with 2 pieces 1x3" loop on moisture barrier, thermoplastic zipper - pin side set along top edge for attachment to shell. Use with CR236Z & CR237Z

Liner Inspection System**CLO236**

Coated Polycotton facings sewn to coat thermal fronts, 1.5x1.5" loop sewn at top of facings on cloth side. Bind front edge of liner and bartack each end. For V-Fit & CVEM coat models with exception of Parallon or Center Cut Plus liners.

Liner Inspection System**CLO235**

(Std) 10" Coat liner inspection system located at bottom of coat liner on right side with 1x10" hook on moisture barrier and 1x10" loop on thermal liner. For all coat models with the exception of the parallon & center cut plus liner systems.

Coat Cuff Reinforcement**CC710Z**

Self-Fabric Cuff Reinforcements with thermoplastic zipper - pin side - V-Fit

Coat Elbow Reinforcement**EB517**

(Std) Contoured self fabric elbow patch - no padding, V-Force Bi-Swing

Coat Shoulder Reinforcement**SC715**

(Std) Self fabric shoulder caps

Coat Closure System**SF320M**

3" Stormflap (square corners) w/ 2 layers self-fabric & 1 layer GORE PRIME PTFE, thermal plastic zipper exposed under stormflap with PCA tab. (8) magnets in super fabric & Lite-N-Dri pouches inside stormflap, (8) magnets in Kevlar & Lite-N-Dri strip on coat front. For V-Fit Bi-Swing Coat.

Coat Pockets

Turn-Out Pockets**SBP632**

(2) 10x8x1.5" Hanging semi bellow pocket w/ KEVLAR® twill fully lined all 4 sides inside of pocket and PCA fully lined all 4 sides 4" up inside of pocket, 2pcs 2x3" loop on pocket and 2pcs 2x3" hook horizontal on flap.

3.5x11" flap with 2 layers of Lite-N-Dri inside flap corner. PCA tab out.
Pocket will be placed to hang 3" below hem

Item Location for Above

LEFT & RIGHT FRONT BOTTOM

RP899

(2) 3.5x9x2" Radio pocket w/ polycotton fully lined all 3 sides inside pocket, 1pc. 2x3" loop on pocket & 1pc. 2x3" hook on flap, antenna notch on each side on flap.

Item Location for Above

LEFT AND RIGHT CHEST

Sewn On Lettering

LTSL3YIS

Sewn On 3" Lime/Yellow 3M™ Scotchlite™ Letters (each line) max 5
Alpha Numeric ID Characters

Lettering

Lettering shall be SFMD

Location for Lettering

ACROSS YOKE

Lettering Patches

LP34

5x18" contoured 2 layer self fabric one line letter patch to be attached to hem of coat.

Lettering Patch Attachment

LPV13

(For LP34): There shall be 1.5x18" loop sewn to coat back inside at hem, 1.5x18" hook to top edge of 18" wide patch. loop sewn to hem with white thread through the trim

Letter Patch Attachment

LPS10

2 Male snaps to letter patch (1 set 6" left of center, 1 set 6" right of center) & 2 female snaps on coat shell for Hanging letter patch attachment.

Sewn On Lettering

LTSL3YNS

Sewn On 3" Lime/Yellow 3M™ Scotchlite™ Letters (each line) 6 - 12
Alpha Numeric Name Characters

>>> 2" LETTERING WILL BE USED TO FIT LONGER NAMES IF
NEEDED <<<

Lettering

Lettering shall be FF NAME

(to include first initial when requested)

Location for Lettering

ON ABOVE PATCH

Mic Tab

MT555

(3) .75x3" self fabric mic tab with hard leather inside bartack each end.

Item Location for Above

1- ABOVE LFT RP
2- ABOVE RT RP

3- 3" DOWN FROM TOP OF SF-- ALIGNED WITH MT'S ABOVE RP'S

Hanger Loop

HL02

(Std) 5/8" x 5 1/2" Self fabric hangerloop.

Custom Turnout Pants - 2025 June

Pant Model / Design

PVFM/F

V-Force® Pant w/ Belt

Pant Liner & Moisture Barrier

G0 - Traditional

Traditional Liner, Center Cut Plus Glide Ice and Facecloth with Gore-Tex Moisture Barrier Technology.

Liner Inspection System

PLO200

(Std) Pant liner inspection system with 1x3" loop located at right side of liner waist.

MISC. Fasteners

MF018

(Std) 1x3" hook sewn to right shell front for the pant liner inspection system.

Pant Outer Shell Material

6oz PBI Max
Natural

PBI® Max, 6.0 oz., Natural Color

Fabric Color

Natural

Natural Outer Shell Material

Snap Attachment

SAP715

One snap in fly, close as possible to top

PLF006Z

Thermoplastic zipper w/ ice blue glide parallon facings sewn vertically to ice blue glide moisture barrier liner fly area. pin side set on left, pull side set on right - V-fit

Pant Fly Closure

FLY233ZM

Sewn on pant FLY with PJ CROSSTECH®, closure thermo plastic zipper inside with magnetic closure, thermoplastic zipper - pull side underneath moisture barrier for liner attachment V-Fit. Requires a front TUP or snap for Positive Closure.

Take Up Straps

TUP531

1 pair self fabric take-ups w/ long strap 1x9" and short strap 1x1.25" long. Short straps have 2 each nickel loops (total 4), long strap has 1x2" hook & 1x6.5" loop.

Leg Tabs

LGT000-BLK

(Std) 2 Black Leather leg tabs per leg with non-logo female snaps.

Pant Knee Reinforcement**KP228-BLK**

Black Polymer Coated Aramid bellow knee w/ 1 layer of Lite-N-Dri padding and 1 layer of silicone padding.

Pant Cuff Reinforcement**PC504-BLK**

Black Poly-coated aramid pant cuffs and 3x3.5" kick shield.

Belts and Harnesses**BL081**

Vertical Belt Loop - 5 Self fabric belt loops made using 2 sep 1x2.5" straps that close with 1x2" hook & loop, bartacked 1/2" down from top of pant. see drawing for belt loop placement. -for Aeroscape Belt.

>>> FOR USE WITH BHS062, BHS063 ONLY- NOT COMPATIBLE WITH A FRAME HARNESSSES

Belts and Harnesses**BL079**

Horizontal Belt Loop - (1) 1.75x4.5" Self-fab belt loop, (2) 5/8" straps w/1.75x1.5" hook on 1 end, 1.75x3" loop folded over on other end, xstitch hook to shell. (1) 1.5x5" self-fabric belt loop w/1.5x2" hook & loop, xstitch through loop, add 4 bartacks to each belt loop. SEE CAD DRAWING FOR PLACEMENT- FOR AEROSCAPE

>>> FOR USE WITH BHS062, BHS063, BHS064, BHS065 ONLY- NOT COMPATIBLE WITH A FRAME HARNESSSES

Suspenders**SR842S=01**

42" (Regular) V-Back Quick Adjust Padded Suspenders w/ black Nomex tab, Red; requires BL015 or BL054.

Belts and Harnesses**BL054**

4 suspender attachment, 0.5x2.5" self fabric suspender attachment with bartack on each end, set horizontally on the inside of the waist at the same location as the suspender buttons.

Pant Pockets

Turn-Out Pockets**BDP792**

(2) 10x8x2" Split bellow pocket w/ KEVLAR® twill fully lined all 4 sides inside pocket, 1pc. 1x10" loop on pocket & 3 pcs. 1x3" hook on flap.

Item Location for Above

RIGHT AND LEFT THIGH - CENTERED ABOVE KNEE

Boot Cut**PMO542**

"Boot cut" pant legs.

Reflective Trim**PTC4PT3Y**

3" Lime/Yellow Ventilated Triple Trim Reflective trim around leg bottoms- 4 rows lockstitch.

OPTIONS

RP899

3.5x9x2" Radio pocket w/ polycotton fully lined all 3 sides inside pocket,

1pc. 2x3" loop on pocket & 1pc. 2x3" hook on flap, antenna notch on each side on flap.

REMOVE RP FROM COAT AND REPLACE WITH FLS510 & FLS588

Flashlight Strap

FLS510

1x2" 2 layer self fabric 703 flashlite snap holder with 2 bartacks

RIGHT CHEST - ABOVE FLS588; 3" FROM BOTTOM OF HOOK TO TOP OF FLS588

Flashlight Strap

FLS588

1x10" 2 layer self fabric flashlite strap X stitched to shell w/ 1X4" hook and loop.

RIGHT CHEST - JUST ABOVE CHEST TRIM

Turn-Out Pockets

HP589

8x8x2" semi bellow & handwarmer combination pocket with 6" opening on bellow side, self fabric backer, KEVLAR® twill fully lined all 3 sides inside bellow pocket, 1 piece 2x7" loop on pocket and 2 pieces 2x2" hook on the flap.

REPLACES SBP632

P.O. Box 51,
Kirkland, WA 98083



SEAWESTERN

FIRE FIGHTING EQUIPMENT

Quote

Phone: (425) 821-5858
Email: info@seawestern.com
www.seawestern.com

Bill To: Superstition Fire and Medical 565 N Idaho Rd Apache Junction, AZ 85119		Ship To: Superstition Fire and Medical 1455 East 18th Ave. Apache Junction, AZ 85119		Date	10/21/2025
				Customer No.	1113314
				Quote No.	QUO36477
				Sales Rep	Clay Leonard
Attention	Delivery	FOB	Expires		
Deputy Chief Jeff ...	Dropship Rate		11/20/2025		

Pricing valid for listed quantities
Returns accepted within 30 days of receipt
Restocking fee up to 25% will apply on any non-stock merchandise
Custom orders are non-cancellable, non-returnable
Unless otherwise noted, pricing does not include shipping
3% credit card processing fee for payments over \$2,500

Qty	Unit	Part Number	Description	Unit Price	Ext. Price
8	EA	Rainier V-Force Coat	SeaWestern Lion Rainier V-Force Coat - per Superstition spec on SW2Q2874 Two Radio pockets Yoke Lettering "SFMD"	2,217.00	17,736.00
13	EA	Rainier V-Force Coat	SeaWestern LION Rainier V-Force Coat - Per Superstition spec on SW2Q2874 One Radio pocket, no fleece handwarmer pockets Yoke Lettering "SFMD"	2,176.50	28,294.50
21	EA	Rainier V-Force Pant	SeaWestern Lion Rainier V-Force Pant - per Superstition spec on SW2Q2874	1,578.00	33,138.00
34	EA	LN Particulate Hood - Black	Lion RedZone Particulate Blocking Hood - Black	111.00	3,774.00
8	PR	XL : Regular	Vanguard MK-1 - Gauntlet Style Structural Firefighting Glove Size XL David Tavares Alex Dupuis Ryan Philips Trace Leggett Trey Schow Aaron McDonald Colt Weddell Nat Erickson	97.00	776.00
8	PR	L : Regular	Vanguard MK-1 - Gauntlet Style Structural Firefighting	97.00	776.00



Qty	Unit	Part Number	Description	Unit Price	Ext. Price
			Glove Size L Dan Elliot Matt Perez Matt Leon Travis Yates Wes Fimbrez Chuck Hanson Sean Matuszewski Carlos Rivera		
3	PR	2XL : Regular	Vanguard MK-1 - Gauntlet Style Structural Firefighting Glove Size 2XL Jason Chapman Jordan Wilkes Dave Pohlmann	97.00	291.00
2	PR	3XL : Regular	Vanguard MK-1 - Gauntlet Style Structural Firefighting Glove Size 3XL Eric Ellsworth John Walka	97.00	194.00
2	EA	11 : W	Lion Thorogood QR14 – 14“ Pull-On Leather Structural Boot - 11 : W Jason Chapman Dave Pohlmann	375.00	750.00
1	EA	11.5 : M	Lion Thorogood QR14 – 14” Pull-On Leather Structural Boot - 11.5 : M Trace Leggett	375.00	375.00
4	EA	11 : M	Lion Thorogood QR14 – 14“ Pull-On Leather Structural Boot - 11 : M Chuck Hanson Ryan Philips Trey Schow Nat Erickson	375.00	1,500.00
1	EA	11.5 : W	Lion Thorogood QR14 – 14” Pull-On Leather Structural Boot - 11.5 : W Carlos Rivera	375.00	375.00
3	EA	12 : M	Lion Thorogood QR14 – 14“ Pull-On Leather Structural Boot - 12 : M Alex Dupuis Sean Matuszewski Colt Waddell	375.00	1,125.00
1	EA	9.5 : M	Lion Thorogood QR14 – 14” Pull-On Leather Structural	375.00	375.00



Qty	Unit	Part Number	Description	Unit Price	Ext. Price
			Boot - 9.5 : M Dan Elliot		
4	EA	13 : M	Lion Thorogood QR14 – 14“ Pull-On Leather Structural Boot - 13 : M Jordan Wilkes David Tavares Aaron McDonald John Walka	375.00	1,500.00
1	EA	14 : XW	Lion Thorogood QR14 – 14” Pull-On Leather Structural Boot - 14 : XW Eric Ellsworth	375.00	375.00
1	EA	10 : W	Lion Thorogood QR14 – 14“ Pull-On Leather Structural Boot - 10 : W Matt Perez	375.00	375.00
2	EA	10 : M	Lion Thorogood QR14 – 14” Pull-On Leather Structural Boot - 10 : M Wes Fimbrez Matt Leon	375.00	750.00
1	EA	9 : M	Lion Thorogood QR14 – 14“ Pull-On Leather Structural Boot - 9 : M Travis Yates	375.00	375.00
		Discount	\$100 credit per set - Superstition Fire & Medical PPE Package	-2,400.00	-2,400.00

Subtotal 90,454.50
Shipping Cost (Dropship Rate) 380.00
Tax Total - 9.1% 8,265.94
Total \$99,100.44

Appendix D

D. Construction Administration Supervisor

Submitted By

Anna Butel, Administrative Services Director

Background / Discussion

This agreement establishes the appointment of a Construction Administration Supervisor by the Superstition Fire & Medical District (SFMD) to oversee the development of Fire Station 266 in Apache Junction, Arizona. It outlines the Supervisor's responsibilities, including managing the project from architectural selection through completion, serving as the liaison between the Owner, architects, and contractors, conducting weekly progress meetings, and mentoring junior staff.

The contract specifies compensation (not to exceed \$59,400), the term of service (from architectural selection to project completion), and compliance with Arizona Revised Statutes §38-511.

Financial Impact/Budget Line Item

\$59,400.00

Enclosure(s)

Agreement



AGREEMENT

Construction Administration Supervisor – Fire Station 266

This Agreement is entered into by and between the **Superstition Fire & Medical District (SFMD)** (“Owner”) and the appointed **Construction Administration Supervisor** (“Supervisor”) for the purpose of overseeing and directing the development of **Fire Station 266**, located near the intersection of Ironwood and Warner in Apache Junction, Arizona.

1. Appointment and Scope of Services

- The Supervisor is hereby appointed to manage all phases of the Fire Station 266 project, beginning with the selection of the architectural firm and continuing through final completion of construction.
- The Supervisor shall ensure that the project is executed with precision, efficiency, and adherence to the highest standards of quality and safety.
- The Supervisor shall serve as the primary liaison between the Owner, the architectural team, and the construction contractors.

2. Meetings and Reporting

- Weekly Owner meetings shall be convened each Monday.
- The Supervisor shall provide comprehensive progress reports, facilitate resolution of outstanding issues, and maintain clear and consistent communication among all stakeholders.

3. Mentorship and Leadership

- In addition to technical and administrative duties, the Supervisor shall foster professional growth and development among junior staff and team members engaged in the project.
- This responsibility underscores the importance of leadership in both construction administration and cultivating future professionals within the District.

4. Accountability and Compliance

- The Supervisor shall coordinate all construction administration activities, monitor compliance with design intent and contractual specifications, and prepare timely reports to keep stakeholders fully informed throughout the project’s life cycle.

- The Supervisor acknowledges that this appointment represents a unique opportunity to contribute to the realization of a critical public safety facility while supporting the professional advancement of others.

5. Compensation

- Compensation shall be structured monthly, aligned with the project schedule.
- The total compensation for the project shall not exceed \$59,400.00, with a monthly payment of \$3,300.00 for a duration of 18 months

6. Term

- This appointment shall commence immediately upon the selection of the architecture firm.
- The appointment shall terminate upon the completion of Fire Station 266.

7. Statutory Compliance

- This Agreement is expressly subject to compliance with **Arizona Revised Statutes §38-511**.
- Non-appropriation: This Agreement shall be subject to available funding for SFMD, and nothing in this Agreement shall bind SFMD to expenditures in excess of funds appropriated and allotted for the purposes outlined in this Agreement.

8. Indemnification

- The Supervisor shall indemnify, defend, and hold harmless the Owner, its officers, employees, and agents from and against any and all claims, damages, losses, liabilities, and expenses arising out of or related to the Supervisor's performance of duties under this Agreement, except to the extent caused by the Owner's negligence or willful misconduct.

9. Dispute Resolution

- Any dispute arising under this Agreement shall first be addressed through good-faith negotiation between the parties.

10. Termination

- The Owner may terminate this Agreement for cause, including but not limited to breach of contract, failure to perform duties, or violation of applicable laws.

- The Owner may also terminate this Agreement for convenience with thirty (30) days' written notice.
- Upon termination, the Supervisor shall be entitled to compensation for services rendered up to the effective date of termination.

11. Governing Law

This Agreement shall be governed by and construed in accordance with the laws of the State of Arizona.

12. Entire Agreement

This document constitutes the entire agreement between the parties and supersedes all prior discussions or understandings regarding the subject matter herein.

Signatures

Superstition Fire & Medical District

By: _____

Board Chairman: _____

Date: _____

Construction Administration Supervisor

By: _____

Name: _____

Date: _____