



Department of Administrative Services
Purchasing and Contracts Division

**CONFIRMATION FORM
for
RECEIPT OF BID NO. 603715-15**

If you are interested in this invitation, immediately upon receipt please fax this confirmation form to the fax number provided at the bottom of this page.

Failure to do so means you are not interested in the project and do not want any associated addenda mailed to you.

SUPPLIER ACKNOWLEDGES RECEIVING THE FOLLOWING BID DOCUMENT:

PROJECT NO. BID NO. 603715-15 BID PAGES: 65
DESCRIPTION: CURRENT PRODUCTION MODEL 4X4 PUMPER

SUPPLIER MUST COMPLETE THE FOLLOWING INFORMATION:

Company Name: _____

Company Address: _____

City / State / Zip: _____

Name / Title: _____

Area Code/Phone Number: _____

Area Code/Fax Number: _____

Email Address: _____

Please indicate the method you used to obtain this Bid Document:

_____ Internet _____ Plan Room

**FAX THIS CONFIRMATION FORM TO: (702) 386-4914
TYPE or PRINT CLEARLY**

CLARK COUNTY, NEVADA

INVITATION TO BID

BID NO. 603715-15 CURRENT PRODUCTION MODEL 4X4 PUMPER

The bid package is available as follows:

- Internet – Visit the Clark County Purchasing and Contracts Division website at <http://www.ClarkCountyNV.gov/Purchasing>. Click on “Current Opportunities” and locate Document No. 603715 in the list of current solicitations.
- Mail – Please fax a request to (702) 386-4914 specifying project number and description. Be sure to include company address, phone and fax numbers.
- Pick up - Clark County Government Center, 500 South Grand Central Parkway, Purchasing and Contracts Division, Fourth Floor, Las Vegas, NV 89106.

A Pre-bid Conference will be held on **JUNE 18, 2015** at **1:00 p.m.**, at the Clark County Government Center, 500 South Grand Central Parkway, Purchasing and Contracts Division, Fourth Floor, Las Vegas, Nevada 89106. If your firm is unfamiliar with the County Bid Submittal procedures and would like to obtain training on the submittal process for this Bid, please contact Sandra Mendoza, Purchasing Analyst II, at (702) 455-4184 no later than **TUESDAY, JUNE 16, 2015**, and a training session will be provided immediately following the pre-bid conference referenced above.

Bids will be accepted at the Clark County Government Center address specified above, on or before **JULY 2, 2015** at **3:00:00 p.m.** based on the time clock at the Clark County Purchasing and Contracts front desk.

PLEASE PUBLISH THE INFORMATION PROVIDED ABOVE THE LINE.

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Las Vegas Review-Journal
JUNE 12, 2015

TABLE OF CONTENTS

TABLE OF CONTENTS	i
INSTRUCTIONS TO BIDDERS	I-1
GENERAL CONDITIONS	II-1
SPECIAL CONDITIONS	III-1
QUALIFICATION CLAUSES	III-1
DELIVERY CLAUSES	III-1
PERFORMANCE CLAUSES	III-3
TECHNICAL SPECIFICATIONS	IV-1
BID FORM	V-1
SUBCONTRACTOR INFORMATION	ATTACHMENT 1
DEVIATIONS FROM SPECIFICATIONS	EXHIBIT A
DISCLOSURE OF OWNERSHIP/PRINCIPALS.....	ATTACHED

I – INSTRUCTION TO BIDDERS

BID NO. 603715-15 CURRENT PRODUCTION MODEL 4X4 PUMPER

1. INTENT OF INVITATION

In accordance with the terms and conditions provided in this bid document, it is the intent of this formal Invitation to Bid to receive bids from qualified Bidders for the items specified in this document.

2. DEFINITIONS

- A. **Addendum:** A written document issued by COUNTY, via the Purchasing and Contracts Division, prior to the submission of bids which modifies or clarifies the Bidding Documents by additions, deletions, clarifications, or corrections.
- B. **BCC:** The Clark County Board of County Commissioners.
- C. **Bid (Bidder):** An offer, in response to a solicitation by COUNTY, to supply goods or services at a specific price and within a specified time period.
- D. **Bid (COUNTY):** A competitive solicitation by COUNTY to procure goods or services in accordance with Nevada Revised Statutes (NRS) 332.
- E. **Bid Form:** Standard printed form given to Bidders that must be completed and submitted back to COUNTY with the required information for evaluation of the bid, in correct format and sequence. Bid pages are identified herein as "Bid Form" and contain a black line in the right margin.
- F. **Bid Submittal:** Bid Form pages, Bid Security (if required), and all required attachments.
- G. **Bidder(s):** A supplier who submits a bid to COUNTY.
- H. **Bidding Documents:** May include but are not limited to, the Invitation to Bid, Instructions to Bidders, General Conditions, Special Conditions, Technical Specifications, Contract Requirements and Forms, Bid Forms/Attachments, Exhibits, Specifications/Special Provisions and Drawings, and any Addenda issued prior to the date designated for receipt of bids, as applicable.
- I. **CONTRACT:** Contract documents include the Bidding Documents, SUCCESSFUL BIDDER'S Bid Form, all Addenda, SUCCESSFUL BIDDER'S bonds and insurance and Notice of Award letter.
- J. **COUNTY:** The term used throughout these documents to mean County of Clark, Nevada.
- K. **F.O.B. Destination:** Designates the seller will pay shipping cost and remain responsible for the goods until the buyer takes possession.
- L. **Governing Body:** Used throughout these documents to mean the Clark County Board of Commissioners.
- M. **Nevada Revised Statutes (NRS):** The current codified laws of the State of Nevada. Nevada law consists of the Constitution of Nevada (the state constitution) and Nevada Revised Statutes. The Nevada Supreme Court interprets the law and constitution of Nevada.
- N. **No Substitute:** Means there is only one brand name product that is acceptable to perform the function required by the using department.
- O. **Purchasing Manager:** The Clark County Purchasing Manager or their designee responsible for the Purchasing and Contracts Division.
- P. **Purchase Order:** The formal authorization by COUNTY for seller to provide goods or services to COUNTY. The formal CONTRACT takes precedence over any conflicting terms and conditions contained in the purchase order.
- Q. **SUCCESSFUL BIDDER:** Bidder who is the lowest responsive, responsible or best Bidder, to whom the Governing Body or the authorized representative has authorized the award of the CONTRACT.

3. DESIGNATED CONTACTS

For questions pertaining to this Invitation to Bid, please call Sandra Mendoza, Purchasing Analyst II, telephone number (702) 455-4184 or the Purchasing and Contracts Front Desk at (702) 455-2897. After award, the designated contact will be Riccardo Terzo, Supervisor, Fire Department, telephone number (702) 455-7700.

4. CONTACT WITH COUNTY DURING BIDDING PROCESS

Communication between a Bidder and a member of the BCC, or between a Bidder and a non-designated COUNTY contact, regarding this bid is prohibited from the time the bid is advertised until the bid is recommended for award of a contract. Questions pertaining to this Invitation to Bid shall be addressed to the designated contact(s) specified above. Failure of a Bidder, or any of its representatives, to comply with this paragraph may result in its bid being rejected.

5. PREBID CONFERENCE

A pre-bid conference is being held for this bid. The intent of the pre-bid conference is to review the entire bid document and answer any questions Bidders may have.

6. ADDENDA AND INTERPRETATIONS

- A. If it becomes necessary to revise any part of this bid, a written Addendum will be issued by COUNTY. COUNTY shall not be bound by any oral representations, clarifications, or changes made in the written requirements or specifications by COUNTY'S employees, unless such clarification or change is provided by COUNTY in written addendum form from the Purchasing and Contracts Division.
- B. Bidder(s) shall take no advantage of any apparent error or omission in the Bidding Documents. In the event Bidder(s) discover such an error or omission, they shall immediately notify COUNTY. COUNTY will then make such corrections and interpretations as may be deemed necessary for fulfilling the intent of the Bidding Documents through the issuance of an Addendum.
- C. Addenda shall be available via mail, certified mail, fax, online or pick up by all prospective Bidders.
- D. Prior to submission of the bid, Bidder shall ascertain that it has received all Addenda issued. Bidder shall acknowledge receipt of each Addendum by completing the acknowledgement space provided on the Bid Form. Failure to acknowledge receipt of all addenda and use the correct bid form as required may result in rejection of bid.

7. DOCUMENT REVIEW

Bidders may visit the Purchasing and Contracts Division, during normal business hours, to review any current bid documents. This information is available for review provided the contents of the document have not been deemed confidential or proprietary as defined in the "Public Records" clause in the General Conditions section of this bid. Bids submitted in response to this invitation to bid may be reviewed after the formal bid opening has been completed. To review bid documents, an appointment must be made in advance to ensure that full consideration will be provided. Please call telephone number (702) 455-2897 and request the Purchasing Front Desk to schedule your appointment.

8. PREPARATION OF FORMS

All bids must be submitted on the Bid Form provided in this document. **All figures must be written in ink or typed.** Figures written in pencil or containing erasures are not acceptable and may be rejected. However, mistakes may be crossed out and corrections may be inserted adjacent thereto and initialed in ink by the person signing the bid form.

In the event there are unit price bid items provided in the Bid Form, and the total indicated for a unit price bid item does not equal the product of the unit price and quantity, the unit price shall govern and the total will be corrected accordingly. Mathematical errors in the Bid shall be corrected by COUNTY. If there is no cost for a unit price, the Bidder **MUST** enter "0" or write the words "NO COST."

9. BID DOCUMENTS NECESSARY FOR SUBMITTAL

Bid Form, all required attachments, and the bid security (if required) shall be included in the envelope containing the bid. These documents, together, comprise a bid. Omission of, or failure to complete, any portion of the required documents at the time of bid opening may be cause to reject the entire bid.

10. SUBCONTRACTOR INFORMATION

Bidders should submit with their bids a list of the Minority-Owned Business Enterprise (MBE), Women-Owned Business Enterprise (WBE), Physically-Challenged Business Enterprise (PBE), Small Business Enterprise (SBE) Veteran Business Enterprise (VET), Disabled Veteran Business Enterprise (DVET), and Emerging Small Business Enterprise (ESB) subcontractors for CONTRACT utilizing **Attachment 1**. The information provided in **Attachment 1** by Bidder is for COUNTY'S information only.

If there are any questions regarding **Attachment 1**, please contact Adleen Stidhum at telephone number (702) 455-7155.

11. DESCRIPTIVE LITERATURE

Bidder may be requested to provide the latest printed specifications and advertising literature on the product(s) offered on its Bid Form.

12. PRODUCTS

New Product:

SUCCESSFUL BIDDER shall guarantee that the product provided to COUNTY shall be new, and of the latest and most improved model of current production, and shall be of first quality as to workmanship and materials used in said units.

A new product is defined as a product that is made up completely of unused, genuine, original parts. The product shall not have been operated for any purpose other than routine operational testing. A demonstrator product does not meet this definition and is not acceptable.

13. BRAND NAMES "OR EQUAL"

Whenever, in this Invitation to Bid, any particular materials, process, or equipment are indicated or specified by patent, proprietary or brand name, or by name of manufacturer, such wording will be deemed to be used for the purpose of facilitating description of the material, process, or equipment desired and will be deemed to be followed by the words, "or equal." Proof satisfactory to COUNTY must be provided by SUCCESSFUL BIDDER to show that the alternative product is, in fact, equal to the product required in the specifications.

14. SUBSTITUTIONS

Specifications are intended to show kind and quality required, and are not intended to be restrictive. **Additional bids that are equal to, or exceed the requirements stated in this document are invited.** Bidders desiring to submit more than one bid for items other than those specified shall observe the following procedure:

- A. Submit with the bid complete manufacturer's brochures of the actual items being offered, including pictures or dimensional drawings.
- B. Proof, satisfactory to COUNTY, must be provided by Bidder to show that the product is equal to, or exceeds the bid specifications in design and performance.
- C. Equivalent items may be subject to performance testing.

15. ORDER QUANTITIES AND UNIT PRICING

Unit pricing for the items listed in this bid shall be reflective of the unit of measure of "each." This bid expressly prohibits "minimum order quantity" practices. All invoices shall reflect the pricing for the exact quantities received.

16. DISCOUNT TERMS OF PAYMENT

Terms of payment, as listed on the Bid Form, shall be defined as the amount of discount offered by Bidder to COUNTY if payment is made within a specified time frame.

Examples:

Terms of Payment: 2%, Net thirty (30) Calendar Days.

A 2% payment discount will be deducted from the purchase price if the invoice is paid within thirty (30) calendar days of receipt of invoice or delivery of an acceptable product or service, whichever is later.

Terms of Payment: 0%, Net thirty (30) Calendar Days.

No payment discount is offered and payment is due within thirty (30) calendar days of receipt of invoice or delivery of an acceptable product or service, whichever is later.

No prompt payment discount will be considered by COUNTY in the bid evaluation process unless the discount period offered by Bidder is thirty (30) calendar days or more.

17. ADDITIONAL BIDS

Bidders may submit more than one bid as long as all such bids comply with, or exceed, the bid terms, conditions and specifications.

18. DEVIATIONS TO TERMS AND CONDITIONS OR SPECIFICATIONS

Any additional agreements, terms, conditions, or exceptions to the bid requirements or specifications that are submitted with Bidder's Bid Form may be considered substantial deviations from the bid requirements and be cause for rejection.

19. DURATION OF OFFER

All offers (bids) submitted in association with this Invitation to Bid shall be considered firm offers for a period of ninety (90) calendar days after the date of bid opening in order to allow COUNTY to evaluate and consider award, unless the offer is further extended in writing and agreed upon by both parties.

20. DEVIATIONS TO TECHNICAL SPECIFICATIONS

Any deviation taken at the time of or after bid submittal may render the bid non-responsive. If a Bidder is unable to meet the Technical Specifications, Bidder **MUST** complete the attached **Exhibit A** and submit it to the Purchasing Analyst at least five (5) business days prior to the scheduled **PRE-BID CONFERENCE**.

It shall be the sole responsibility of the Bidder to ensure that the Purchasing Analyst has been properly notified, **PRIOR TO THE PRE-BID CONFERENCE** of the Bidder's deviation to the Technical Specifications.

21. BIDDER'S REPRESENTATION

Each Bidder by submitting their Bid represents that:

- A. Bidder has read and understands the Bidding Documents and asserts that its bid is made in accordance therewith and shall be considered a firm offer for a period of ninety (90) calendar days following the opening of bids. The Bidder's offer may expire at the end of the ninety (90) calendar day period.
- B. Bidder is familiar with the local conditions under which the work is to be performed.
- C. **Prior to submission of the bid, Bidder shall ascertain that it has received all Addenda issued; Bidder shall acknowledge receipt of each Addendum by completing the acknowledgment space provided on the Bid Form. Failure to acknowledge receipt of all addenda and use the correct bid form as required may result in rejection of bid.**

22. SUBMISSION OF BIDS

All bids must be submitted in a sealed envelope plainly marked with the name and address of Bidder and the bid number and title. Bidders are requested to submit one (1) original and one (1) copy of the Bid Form and one (1) copy of all requested attachments unless otherwise specified. No responsibility will attach to COUNTY, or any official or employee thereof, for the pre-opening of, post opening of, or the failure to open a bid not properly addressed and identified. Bids are time-stamped upon receipt. Bids time-stamped after 3:00:00 p.m. based on the time clock at the Clark County Purchasing and Contracts front desk will be recorded as late, remain unopened and be formally rejected. **FAXED OR ELECTRONICALLY SUBMITTED BIDS ARE NOT ALLOWED AND WILL NOT BE CONSIDERED.**

The following are detailed delivery/ mailing instructions for bids:

HAND DELIVERY

U.S. MAIL DELIVERY

EXPRESS DELIVERY

Clark County Government Center
Purchasing and Contracts Division,
4th Floor
500 South Grand Central Parkway
Las Vegas, Nevada 89106

Clark County Government Center
Attn: Purchasing and Contracts, 4th
Floor
500 South Grand Central Parkway
P.O. Box 551217
Las Vegas, Nevada 89155-1217

Clark County Government Center
Attn: Purchasing and Contracts, 4th
Floor
500 South Grand Central Parkway
Las Vegas, Nevada 89106

Regardless of the method used for delivery, Bidder shall be wholly responsible for the timely delivery of its bid. Overnight Mail must use the EXPRESS DELIVERY instructions.

Any bids submitted via a third party courier must be sealed in a separate envelope from courier's packaging to allow for proper recording of receipt.

Bidders and other interested parties are invited to attend the bid opening.

23. COST TO PREPARE AND SUBMIT RESPONSE

All costs incurred in the preparation and submission of responses to this Invitation to Bid shall be the responsibility of the Bidder.

24. WITHDRAWAL OF BID

A. Before Bid Opening

Bidders may request withdrawal of a posted, sealed bid prior to the scheduled bid opening time, provided the request for withdrawal is submitted to the Purchasing Analyst in writing, or a bid release form has been properly completed and submitted to the Purchasing and Contracts Division reception desk. Withdrawn bids must be re-submitted and time-stamped in accordance with this bid document in order to be accepted.

B. After the Bid Opening

All responsive and responsible bids received are considered firm offers for a period of ninety (90) calendar days. Bidder's offer will expire after ninety (90) calendar days unless the offer is further extended in writing by Bidder and agreed upon by both parties. If Bidder intended for award requests that its bid be withdrawn, that Bidder may be deemed non-responsible if responding to future invitations to bid or may be required to forfeit its bid bond (if applicable).

25. LOWEST RESPONSIVE AND RESPONSIBLE BIDDER

All bids will be awarded to the lowest responsive and responsible Bidder. The determination of the lowest responsive and responsible Bidder may be judged on all or some of the following factors: price, conformity to specifications, facilities and equipment, availability of repair parts, experience, terms of payment, qualifications, past performance, performance or delivery dates, quality and utility of services, supplies, materials or equipment offered and the adaptability of those services, supplies, materials or equipment to the required purpose of CONTRACT, and other objective and accountable factors which are reasonable. COUNTY has the option to accept additional promotional specials, discounts or trade-in allowances offered by SUCCESSFUL BIDDER during the term of CONTRACT but these offers will not be part of the determination for award of this bid unless otherwise specified.

In accordance with NRS 332.065.3, COUNTY may re-award CONTRACT if SUCCESSFUL BIDDER is found to be in breach of contract. Re-awarding the CONTRACT by COUNTY is not a waiver of any liability of the initial Bidder awarded CONTRACT.

26. REJECTION OF BID

COUNTY reserves the right to reject any and all bids received by reason of this request. COUNTY reserves the right to waive any minor informality or irregularity.

27. DISQUALIFICATION OF BIDDERS

Bidders may be disqualified and their bids may be rejected for any of, but not limited to, the following causes:

- A. Failure to use the specified Bid Form furnished by COUNTY.
- B. Lack of signature by an authorized representative.
- C. Failure to properly complete the Bid Form.
- D. Evidence of collusion among Bidders.
- E. Unauthorized alteration to content of the Bid Form.
- F. Failure to acknowledge all addenda issued.

28. TIE-BIDS

A tie-bid is defined as an instance where bids are received from two (2) or more Bidders who are the low Bidders, and their offers are identical. Bids must be identical in all evaluation areas; e.g., price, quality, delivery, terms, and ability to supply, etc. If any of these areas are not identical, it is not considered a tie-bid, and COUNTY can justify awarding to Bidder with the lowest responsive and responsible bid.

The procedure for tie-bids is to hold a public drawing and award the bid to the winner of the draw in accordance with the Method of Award clause in the Instruction to Bidders. When a drawing is necessary, Bidder(s) involved will be contacted with the time and place of the drawing. Attendance is not mandatory for the drawing. An impartial witness will be present at the drawing.

29. NOTIFICATION OF INTENT TO AWARD

COUNTY will issue to all Bidders a formal letter of "Notification of Intent to Award." This notice will confirm COUNTY'S determination of the lowest responsive and responsible Bidder.

30. PROTESTS

- A. Any Bidder who submits a bid and is allegedly aggrieved in connection with this solicitation or award of CONTRACT may protest. The letter of protest must, at a minimum, contain a written statement setting forth with specificity the reasons the person filing the notice believes that the applicable provisions of the law were violated and be accompanied by required bond. The protest must be submitted in writing to the Purchasing Analyst, within five (5) business days after COUNTY issued a "Notification of Intent to Award" letter. If a written protest is received within the time frame specified and is not resolved by mutual agreement, the Purchasing Analyst will issue a decision in writing to the protestor. Within three (3) business days of receipt of the decision, a protestor MUST submit to the Purchasing Manager its written notice of intent to appeal the decision to the BCC. The Purchasing Manager or their designee will notify the protestor of the date they may appear to present their appeal to the BCC. Protestor MUST submit to the Purchasing Manager fifteen (15) copies of any documents protestor intends to present to the BCC and all documents MUST be submitted ten (10) calendar days prior to the BCC meeting. The decision of the BCC will be final. The BCC is not required to consider protests unless this procedure is followed.
- B. Bidder filing the protest shall be required, to post a bond with a good and solvent surety authorized to do business in this state, or submit other security, defined as a cashiers check, money order or certified check, to COUNTY who shall hold the bond or other security until a determination is made on the protest. A bond posted or other security submitted with the protest must be in an amount equal to the lesser of:
 - (1) 25% of the total value of the bid submitted by Bidder filing the notice of protest; or
 - (2) \$250,000

- C. The notice of protest filed in accordance with the provisions of this section operates as a stay of action in relation to the awarding of CONTRACT until the BCC makes a determination on the protest.
- D. A Bidder who submits an unsuccessful bid may not seek any type of judicial intervention until the BCC has made a determination on the protest and awards CONTRACT.
- E. Neither the BCC nor its authorized representative is liable for any costs, expenses, attorney's fees, loss of income or other damages sustained by a Bidder who submits a bid, whether or not the person files the protest pursuant to this section.
- F. If the protest is upheld by the BCC, the bond posted or other security submitted with the notice of protest must be returned to Bidder who posted the bond or submitted the security. If the protest is rejected by the BCC, COUNTY may make a claim against the bond or other security in an equal amount to the expenses incurred by COUNTY because of the unsuccessful protest. Any money remaining after the claim has been satisfied must be returned to the person who posted the bond or submitted the security.

31. METHOD OF AWARD

Award will be made to the lowest responsive and responsible Bidder on a grand total basis, contingent upon the submission of all requested documents within the timelines specified, unless an extension is approved by COUNTY.

32. LETTER OF AWARD

Award of this bid will be by "Letter of Award" issued by the Purchasing and Contracts Division. CONTRACT shall include this Bid Document, any associated Addendums, and the Bid Form as signed by SUCCESSFUL BIDDER.

33. INITIAL TERM

This is a one (1) time purchase.

34. ADDITIONAL REQUIREMENTS

Although particular COUNTY departments may be identified in the solicitation, unless otherwise documented in CONTRACT, other COUNTY departments may utilize the resulting CONTRACT upon approval by COUNTY Purchasing and Contracts Division. Each COUNTY Department or Division will issue a separate identifying Purchase Order.

35. COOPERATION BY SUCCESSFUL BIDDER(S)

The nature of the services referenced in this Bid represents a relationship between multiple trades. SUCCESSFUL BIDDER(s) awarded each lot shall cooperate with all parties to CONTRACT to the extent that they are involved in the performance of others. (i.e. access to HVAC system in elevator car) COUNTY authorizes the sharing of this document between the parties to CONTRACT in order to assist in facilitating cooperative performance. This cooperative performance shall be deemed as an extension of the performance of each SUCCESSFUL BIDDER and therefore failure to participate may result in COUNTY invoking liquidated damages as defined herein for reimbursement of costs charged to COUNTY by injured party.

36. STATE OF NEVADA LEGAL HOLIDAYS

SUCCESSFUL BIDDER is advised that below there are ten (10) firm legal holidays and eleven (11) when December 31st falls on Friday.

Martin Luther King's Birthday
Presidents' Day
Memorial Day
Independence Day
Labor Day
Nevada Admission Day
Veteran's Day
Thanksgiving Day and the Friday After
Christmas Day
New Year's Day

SUCCESSFUL BIDDER is required to verify dates with COUNTY'S representative prior to the commencement of work.

II -GENERAL CONDITIONS
BID NO. 603715-15
CURRENT PRODUCTION MODEL 4X4 PUMPER

1. ASSIGNMENT OF CONTRACTUAL RIGHTS

SUCCESSFUL BIDDER will not assign, transfer, convey or otherwise dispose of CONTRACT or its right, title, or interest in, or to the same, or any part thereof, without previous written consent of COUNTY and any sureties.

2. AUDITS

The performance of CONTRACT by SUCCESSFUL BIDDER is subject to review by COUNTY to insure CONTRACT compliance. SUCCESSFUL BIDDER agrees to provide COUNTY any and all information requested that relates to the performance of CONTRACT. All requests for information will be in writing to SUCCESSFUL BIDDER. Time is of the essence during the audit process. Failure to provide the information requested within the timeline provided in the written information request may be considered a material breach of contract and be cause for suspension or termination of CONTRACT.

3. AUTHORITY

COUNTY is bound only by COUNTY agents acting within the actual scope of their authority. COUNTY is not bound by actions of one who has apparent authority to act for COUNTY. The acts of COUNTY agents which exceed their contracting authority do not bind COUNTY.

4. BIDS ARE NOT TO CONTAIN CONFIDENTIAL / PROPRIETARY INFORMATION

Bids must contain sufficient information to be evaluated without reference to any confidential or proprietary information. In accordance with NRS 239.010, Bidders shall not include any information in their bid that they would not want to be released to the public. Any bid submitted that is marked "Confidential" or "Proprietary," or that contains materials so marked, may be returned to Bidder and may not be considered for award.

5. CLARK COUNTY'S PROPERTY

All property owned by COUNTY and furnished to SUCCESSFUL BIDDER for the purpose of performance under this Bid will be identified and marked as COUNTY'S property and adequately insured by SUCCESSFUL BIDDER for COUNTY'S protection. In the event that COUNTY'S property becomes lost or damaged to any extent while in SUCCESSFUL BIDDER'S possession from any cause, including faulty workmanship or negligent acts by SUCCESSFUL BIDDER, its agents or its employees, SUCCESSFUL BIDDER agrees to replace such property or reimburse COUNTY for the value or expense of replacement, whichever is greater, in accordance with COUNTY request.

6. COLLECTION AND PAYMENT OF SALES TAX

In accordance with NRS 372.123, any Bidder that sells tangible personal property to any commercial business in the State of Nevada is required to possess a Nevada Sales Tax Permit and shall collect and pay the taxes as defined in NRS Chapters 372 and 374. Permit information can be obtained by contacting the Nevada State Department of Taxation at (702) 486-2300.

7. COLLUSION AND ADVANCE DISCLOSURES

Pursuant to NRS 332.820 evidence of agreement or collusion among Bidders and prospective Bidders acting to illegally restrain freedom of competition by agreement to bid a fixed price, or otherwise, shall render the bids of such Bidders void.

Advance disclosures of any information to any particular Bidder which gives that particular Bidder any advantage over any other interested Bidders, in advance of the bid opening, whether in response to advertising or an informal request for bids, made or permitted by a member of the governing body or an employee or representative thereof, shall operate to void all bids received in response to that particular request for bids.

8. CONSUMPTION ESTIMATES

The quantities appearing in the Bid Form are approximate only and are prepared for the solicitation of bids. Payment to SUCCESSFUL BIDDER will be made only for the actual quantities of items furnished in accordance with the bid and it is understood that the scheduled quantities of items to be furnished may be increased, decreased or omitted without, in any way, invalidating bid prices.

9. CONTRACT AMENDMENTS

Notwithstanding any provision herein to the contrary, and pursuant to NRS 104.2306, and recognizing the constraints inherent in public bidding, COUNTY reserves the right to request modification at any time to the scope, frequency, estimated quantities or the timing of SUCCESSFUL BIDDER'S obligations under CONTRACT, in whatever manner COUNTY determines, in good faith, to be reasonably necessary and to be in the best interests of the public. Both parties agree that, should any modifications to CONTRACT be made during CONTRACT term, a written amendment detailing those elements shall be executed by SUCCESSFUL BIDDER and the BCC or their authorized representative.

10. DISCLOSURE OF OWNERSHIP / PRINCIPALS

Any Bidder recommended for award of CONTRACT by the Board of County Commissioners is required to provide the information on the attached "Disclosure of Ownership/Principals" form. The form shall be submitted to COUNTY within twenty-four (24) hours after request. Failure to fill out the subject form by Bidders shall be cause for rejection of the bid.

11. DRUG-FREE WORKPLACE

SUCCESSFUL BIDDER agrees to comply with all applicable state and federal laws regarding a drug-free workplace. SUCCESSFUL BIDDER shall make a good faith effort to ensure that all of its employees, while working on COUNTY property, will not purchase, use, be under the influence of, or possess illegal drugs or alcohol or abuse prescription drugs in any way.

12. EMPLOYMENT OF UNAUTHORIZED ALIENS

In accordance with the Immigration Reform and Control Act of 1986, SUCCESSFUL BIDDER agrees that it will not employ unauthorized aliens in the performance of CONTRACT.

13. FEDERAL, STATE, LOCAL LAWS

All Bidders shall comply with all Federal, State and local laws relative to conducting business in Clark County. The laws of the State of Nevada will govern as to the interpretation, validity, and effect of this bid, its award, and any contract entered into.

14. FISCAL FUNDING OUT

COUNTY reasonably believes that funds can be obtained sufficiently to make all payments during the term of CONTRACT. If COUNTY does not allocate funds to continue the purchase of the product or service, in accordance with NRS 354.626, CONTRACT shall be terminated when appropriated funds expire.

15. FORCE MAJEURE

SUCCESSFUL BIDDER shall be excused from performance hereunder during the time and to the extent that it is prevented from obtaining, delivering, or performing, by acts of God, fire, war, loss or shortage of transportation facilities, lockout or commandeering of raw materials, products, plants or facilities by the government. SUCCESSFUL BIDDER shall provide COUNTY satisfactory evidence that nonperformance is due to cause other than fault or negligence on its part.

16. GOVERNING LAW/VENUE OF ACTION

CONTRACT shall be construed and enforced in accordance with the laws of the State of Nevada. Any action at law or other judicial proceeding for the enforcement of any provision shall be instituted in the County of Clark, State of Nevada.

17. GOVERNING ORDER OF BIDDING AND CONTRACT DOCUMENTS

The bidding and CONTRACT documents include various divisions, sections, and conditions which are essential parts for the work to be provided by SUCCESSFUL BIDDER. A requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for complete work. In case of discrepancy, the following precedence will govern:

- A. Amendment
- B. General Conditions
- C. Addenda
- D. Instructions to Bidders
- E. Federal Requirements (If Applicable)
- F. Special Conditions
- G. Technical Specifications

18. INDEMNITY

SUCCESSFUL BIDDER agrees, by entering into CONTRACT, regardless of the coverage provided by any insurance policy, to pay all costs necessary to indemnify, defend, and hold COUNTY harmless from any and all claims, demands, actions, attorney's fees, costs, and expenses based upon or arising out of any acts, errors, omissions, fault or negligence of SUCCESSFUL BIDDER or its principals, employees, subcontractors or other agents while performing services under CONTRACT. SUCCESSFUL BIDDER shall indemnify, defend, and hold harmless COUNTY for any attorney's fees or other costs of defense, even if the allegations of the claim are groundless, false or fraudulent.

19. INVOICING

Invoicing for bid items are to be sent to the location as identified in the purchase order(s). Invoices are to be sent within thirty (30) calendar days of the delivery of the product or completion of the work. Payment of invoices will be made within thirty (30) calendar days, unless otherwise specified, after receipt of an accurate invoice that has been reviewed and approved by the applicable department's authorized representative. In accordance with NRS 244.250 COUNTY shall not provide payment on any invoice SUCCESSFUL BIDDER submits after six (6) months from the date SUCCESSFUL BIDDER provides goods, performs services, or provides deliverables or milestones.

All invoices should include the following information:

- A. Company Name
- B. Complete Address (including street, city, state, and zip code)
- C. Telephone Number
- D. Contact Person
- E. Itemized description of products delivered (including quantities) or services rendered (including dates)
- F. Clark County Purchase Order Number
- G. Company's Tax Identification Number
- H. Bid Number
- I. Itemized pricing and total amount due (excluding Sales and Use Tax)
- J. Percentage Discounts/ Payment Terms (if offered)
- K. Company's Invoice Number
- L. Clark County Work Order Number(s)

SUCCESSFUL BIDDER is responsible to insure that all invoices submitted for payment are in strict accordance with the price(s) offered on the Bid Form. If overcharges are found, COUNTY may declare SUCCESSFUL BIDDER in breach of contract, terminate CONTRACT, and designate SUCCESSFUL BIDDER as non-responsible if responding to future invitations to bid.

20. INVOICE AUDITS

SUCCESSFUL BIDDER shall provide to COUNTY, within ten (10) business days of COUNTY'S request, a report to validate that the price(s) charged are in accordance with the price(s) offered on SUCCESSFUL BIDDER'S Bid Form. The format of the report will depend on the pricing structure provided on the Bid Form. The report shall be subject to review and approval by COUNTY'S using department(s) and Internal Audit Department. Discrepancies found in the report will require SUCCESSFUL BIDDER to update the report no later than five (5) business days after notification by COUNTY. In the event that SUCCESSFUL BIDDER undercharged COUNTY, COUNTY shall reimburse SUCCESSFUL BIDDER within ten (10) business days. In the event that SUCCESSFUL BIDDER overcharged COUNTY, SUCCESSFUL BIDDER shall reimburse COUNTY within ten (10) business days. If overcharges are found, COUNTY may declare SUCCESSFUL BIDDER in breach of contract, terminate CONTRACT, and designate SUCCESSFUL BIDDER as non-responsible if responding to future invitations to bid.

21. NON-DISCRIMINATION

The BCC is committed to promoting full and equal business opportunity for all persons doing business in Clark County. SUCCESSFUL BIDDER acknowledges that COUNTY has an obligation to ensure that public funds are not used to subsidize private discrimination. SUCCESSFUL BIDDER recognizes that if they or their subcontractors are found guilty by an appropriate authority of refusing to hire or do business with an individual or company due to reasons of race, color, religion, sex, sexual orientation, gender identity or expression, age, disability, national origin, or any other protected status, COUNTY may declare SUCCESSFUL BIDDER in breach of contract, terminate CONTRACT, and designate SUCCESSFUL BIDDER as non-responsible.

22. NON-ENDORSEMENT

As a result of the selection of SUCCESSFUL BIDDER to supply goods or services, COUNTY is neither endorsing nor suggesting that SUCCESSFUL BIDDER'S service is the best or only solution. SUCCESSFUL BIDDER agrees to make no reference to COUNTY in any literature, promotional material, brochures, sales presentations, or the like, without the express written consent of COUNTY.

23. OUT OF STATE SUPPLIERS

Out of state suppliers shall accept collect calls or provide a toll free telephone number for the placement of orders.

24. PARTIAL PAYMENTS

Partial payment requests will be accepted only at the sole discretion of COUNTY.

25. PATENT INDEMNITY

A. SUCCESSFUL BIDDER hereby indemnifies and shall defend and hold harmless COUNTY, its officers, employees, agents, its officers, and employees, respectively, from and against all claims, losses, costs, damages, and expenses, including attorney's fees, incurred by COUNTY, respectively, as a result of or in connection with any claims or actions based upon infringement or alleged infringement of any patent and arising out of the use of the equipment or materials furnished under CONTRACT by SUCCESSFUL BIDDER, or out of the processes or actions employed by, or on behalf of SUCCESSFUL BIDDER in connection with the performance of CONTRACT. SUCCESSFUL BIDDER shall, at its sole expense, promptly defend against any such claim or action unless directed otherwise by COUNTY; provided that COUNTY or its construction manager shall have notified SUCCESSFUL BIDDER upon becoming aware of such claims or actions, and provided further that SUCCESSFUL BIDDER'S aforementioned obligations shall not apply to equipment, materials, or processes furnished or specified by COUNTY.

B. SUCCESSFUL BIDDER shall have the right, in order to avoid such claims or actions, to substitute at its expense non infringing equipment, materials, or processes, or to modify such infringing equipment, materials and processes so they become non infringing, or obtain the necessary licenses to use the infringing equipment, material or processes, provided that such substituted and modified equipment, materials and processes shall meet all the requirements and be subject to all the provisions of CONTRACT.

26. PUBLIC RECORDS

COUNTY is a public agency as defined by state law, and as such, is subject to the Nevada Public Records Law (Chapter 239 of the Nevada Revised Statutes). Under the law, all of COUNTY'S records are public records (unless otherwise declared by law to be confidential) and are subject to inspection and copying by any person. All bid documents are available for review following the bid opening.

27. PURCHASE ORDERS

The Purchasing and Contracts Division will issue a purchase order(s) which will authorize SUCCESSFUL BIDDER to deliver and invoice for the product(s) or service(s) offered.

28. RIGHT OF INSPECTION AND REJECTION

All goods and services purchased under this bid will be subject to inspections, tests and approval/acceptance by COUNTY. It is acknowledged that many of the goods contained in closed packages may not be inspected until such time as they are used, and that the inspections and rejection rights will continue until those packages are opened and inspected, notwithstanding prior payment. If specifications or warranties are not met, material and equipment will be returned at SUCCESSFUL BIDDER'S expense. Nonconforming goods may be returned to SUCCESSFUL BIDDER freight collect at which time risk of loss will pass to SUCCESSFUL BIDDER upon COUNTY'S delivery to common carrier or retrieved by SUCCESSFUL BIDDER at which time risk of loss will pass to SUCCESSFUL BIDDER at time of retrieval.

29. SEVERABILITY

If any terms or provisions of CONTRACT shall be found to be illegal or unenforceable, then such term or provision shall be deemed stricken and the remaining portions of CONTRACT shall remain in full force and effect.

30. SUBCONTRACTS

Services specified in CONTRACT shall not be subcontracted by SUCCESSFUL BIDDER, without the written approval of COUNTY. Approval by COUNTY of SUCCESSFUL BIDDER'S request to subcontract or acceptance of or payment for subcontracted work by COUNTY shall not in any way relieve SUCCESSFUL BIDDER of responsibility for the professional and technical accuracy and adequacy of the services performed. SUCCESSFUL BIDDER shall be and remain liable for all damages to COUNTY caused by negligent performance or non-performance of services performed under CONTRACT by SUCCESSFUL BIDDER'S subcontractor.

31. SUBCONTRACTOR / INDEPENDENT CONTRACTOR

SUCCESSFUL BIDDER represents that it is fully experienced and properly qualified to perform the class of work provided for herein, and that it is properly licensed, equipped, organized and financed to perform such work. SUCCESSFUL BIDDER shall act as an independent SUCCESSFUL BIDDER and not as the agent of COUNTY in performing CONTRACT. SUCCESSFUL BIDDER shall maintain complete control over its employees and all of its Subcontractors. Nothing contained in CONTRACT or any subcontract awarded by SUCCESSFUL BIDDER shall create any contractual relationship between any such Subcontractor and COUNTY. SUCCESSFUL BIDDER shall perform all work in accordance with its own methods subject to compliance with CONTRACT.

32. SUSPENSION BY THE COUNTY FOR CONVENIENCE

- A. COUNTY may, without cause, order SUCCESSFUL BIDDER in writing to suspend, delay or interrupt the work in whole or in part for such period of time as COUNTY may determine.
- B. In the event COUNTY suspends performance of SUCCESSFUL BIDDER for an aggregate period in excess of sixty (60) calendar days, SUCCESSFUL BIDDER shall be entitled to an equitable adjustment of the compensation payable to SUCCESSFUL BIDDER under this Bid to reimburse SUCCESSFUL BIDDER for additional costs occasioned as a result of such suspension of performance by COUNTY. Equitable adjustment shall be based on appropriated funds and approval by COUNTY.
- C. No equitable adjustment will be made if performance is, was or would have been so suspended, delayed or interrupted by another cause for which SUCCESSFUL BIDDER is responsible.

33. TAXES

COUNTY is a political subdivision of the State of Nevada and under the provisions of Nevada Revised Statute (NRS) 372.325 is exempt from the payment of Sales and Use Tax (Employee Identification Number 88-6000028). A copy of the tax exempt letter is available upon request. The bid price(s) must be net, exclusive of these taxes.

34. TERMINATION FOR CAUSE

If SUCCESSFUL BIDDER fails to perform in accordance with the agreed terms, conditions, or warranties applicable to CONTRACT, COUNTY may **immediately** terminate all or part of CONTRACT upon written notice of intent to terminate without any liability by COUNTY to SUCCESSFUL BIDDER. In the event of termination for cause, COUNTY may cancel any delivery or service and purchase the product or service elsewhere on such terms or in such manner as COUNTY may deem appropriate and SUCCESSFUL BIDDER shall be liable to COUNTY for any excess cost or other expenses incurred by COUNTY.

35. TERMINATION FOR CONVENIENCE

COUNTY reserves the right to terminate CONTRACT in whole or part at any time whenever COUNTY shall determine that such a termination is in the best interest of COUNTY without penalty or recourse upon thirty (30) calendar days written notice of intent to terminate. In the event that COUNTY elects to terminate CONTRACT, the termination request will be submitted to the BCC or the Clark County Administrative Services Department for approval.

36. TITLE AND RISK OF LOSS

The title and risk of loss of material or service shall not pass to COUNTY until material is delivered to the specific location, quantities are verified, and the material is inspected for damage or service is completed as specified.

37. USE BY OTHER GOVERNMENT ENTITIES

Nevada Revised Statutes 332.195 allows local governments to join or use the contracts of other local governments or the State of Nevada, with the authorization of contracting Supplier.

38. WARRANTY

SUCCESSFUL BIDDER warrants that the goods and services covered under this bid will conform to applicable specifications, instructions, drawings, data and samples, will be merchantable and of good material and workmanship, free from defects and will be fit and sufficient for the purposes intended. SUCCESSFUL BIDDER shall guarantee all workmanship, materials, and equipment they have furnished for a period of one (1) year after the final acceptance of the equipment or materials or for the length of the current manufacturer's warranty, whichever is longer. If during the guarantee period, any defect or faulty materials are found, it shall immediately, upon notification by COUNTY, proceed at its own expense to replace and repair same, together with any damage to all finishes, fixtures, equipment, and furnishings that may be damaged as a result of this defective equipment or workmanship. Acceptance or receipt of payment for goods or services shall not constitute a waiver of any warranty.

III - SPECIAL CONDITIONS

BID NO. 603715-15

CURRENT PRODUCTION MODEL 4X4 PUMPER

1. DOCUMENTATION SUBMITTAL REQUIRED BY APPARENT LOW BIDDER

Apparent low Bidder shall furnish the following information and documents within twenty-four (24) hours of COUNTY'S request:

- A. A copy of the product's printed specifications advertising literature or catalogs as specified.
- B. A copy of the product's standard warranty.
- C. Completed "Disclosure of Ownership" form.
- D. A copy of current applicable Clark County Business License.

2. SERVICE AND INSPECTION INSTRUCTIONS - COMPLETION OF CONTRACT

Prior to delivery, the product shall be completely inspected and serviced by the delivering dealer or the manufacturer's pre-delivery service center. A copy of the manufacturer's standard pre-delivery service check list shall be completed for the product, signed by a representative of the organization performing the inspection/service and delivered with the product.

The product may be inspected at time of delivery, by an authorized representative of COUNTY, for workmanship, appearance, proper functioning of all equipment and systems, and conformance to all other requirements of this specification. In the event deficiencies are detected, the product will be rejected to make the necessary repairs, adjustments or replacements. Payment or the commencement of a discount period (if applicable) will not be made until the corrective action is made the product is re-inspected and accepted. If the product is accepted at delivery and later rejected because of deficiencies, it shall be the dealer's responsibility to pick up the product, make the necessary corrections and redeliver the product for re-inspection and acceptance at no additional cost to COUNTY.

3. DEALER'S REPORT OF SALE - COMPLETION OF CONTRACT

Dealer's Report of Sale shall be addressed to:

Clark County Automotive
4241 Stephanie Street
Las Vegas, NV 89122

4. TITLE FEES

The SUCCESSFUL BIDDER shall pay all title fees.

5. NOTICE OF DELIVERY(AUTOMOTIVE ONLY)

COUNTY shall be given twenty-four (24) hours notice prior to delivery in order to establish a time, date and location. Notify Riccardo Terzo, Supervisor of Fire Department, at (702) 455-7704. At the time of delivery SUCCESSFUL BIDDER shall provide the necessary documents and keys, as specified on the attachment, as per type of vehicle(s) being delivered. If the required documents and keys are not available at the time of delivery the vehicle(s) **will not be accepted.**

DOCUMENTS AND KEYS REQUIRED AT DELIVERY

VEHICLE TYPE	DEALERS REPORT OF SALE IN-STATE	OR	CERTIFICATE OF ORIGIN OUT OF STATE	ODOMETER STATEMENT	PURCHASE ORDER (COPY)	INVOICE	KEYS (PER BID)	MANUAL (PER BID)
HEAVY EQUIPMENT UNLICENSED	NO		YES		X	X	X	X

NOTE: Vehicles without the indicated documents and keys will not be accepted.

6. FUEL

Vehicle(s) shall be delivered with a full tank of fuel.

7. MILEAGE

Vehicle(s) shall be delivered with less than twenty-five hundred (2500) miles on the odometer.

8. KEYS

There shall be three (3) sets of keys for each vehicle and all locking compartments or vandal covers provided at the time of delivery.

9. COMPONENT INSTALLATION

All components supplied shall be factory or dealer installed and shall be as advertised in current published literature unless otherwise stated (**Literature shall be provided upon request**).

10. DEALER'S NAMEPLATES AND DECALS

All vehicle(s) shall be delivered free of dealer nameplates, license plate holders or advertisement decals.

11. ORDER CONFIRMATION

SUCCESSFUL BIDDER shall provide, within ten (10) business days of receipt of purchase order, a confirmation from the manufacturer showing the vehicles have been ordered. The confirmation may be provided via facsimile to:

Clark County Purchasing Department
Attn: Sandra Mendoza, Purchasing Analyst II
Fax: (702) 386-4914

12. MANUALS

There shall be one part, one repair, and three operator manuals; or a PC friendly CD manual provided for each vehicle at time of delivery.

13. LOCATION AND HOURS

Deliveries shall be made to the 4425 West Tropicana Avenue, Las Vegas, Nevada 89103, Monday through Friday (excluding COUNTY'S holidays), between the hours of 7:00 a.m. and 3:00 p.m.

14. MAXIMUM DELIVERY TIME

Maximum delivery time is one hundred twenty (120) calendar day(s) after receipt of chassis. Failure to offer a delivery time within the maximum number of days specified may be considered a substantial deviation and be cause for rejection. Time is of the essence and failure to meet the delivery time specified shall constitute a breach of contract and may result in termination of CONTRACT.

15. OUT OF AREA DELIVERY REQUIREMENTS

If the successful Bidder is located outside of the Las Vegas Valley, it is required to have an Authorized Dealer located in the Las Vegas Valley who will act as its representative. All vehicles will be delivered to this local Authorized Dealer Representative and not directly to Clark County. This local Authorized Dealer Representative will be responsible for the Pre-delivery inspection (PDI), all dealer prep, delivery, and any necessary documentation and paperwork, including State of Nevada VIN inspection.

16. F.O.B. DESTINATION - FREIGHT PRE-PAID

SUCCESSFUL BIDDER shall pay all freight charges. SUCCESSFUL BIDDER shall file all claims and bears all responsibility for the products from the point of origin to COUNTY'S destination. All prices shall be F.O.B. the delivery points as required. All prices shall include delivery, as well as any necessary unloading.

17. PARTIAL SHIPMENTS

Partial shipments will not be permitted.

18. TRAINING

Training, in the form of orientation, shall be provided to COUNTY'S personnel by a qualified factory representative or the SUCCESSFUL BIDDER'S personnel, in the proper operation techniques, including care and maintenance of the product. This training shall take place at 4425 West Tropicana Avenue, Las Vegas, Nevada 89103, at the SUCCESSFUL BIDDER'S expense.

19. FAILURE TO DELIVER

In the event that SUCCESSFUL BIDDER fails to deliver the product or service in accordance with the terms and conditions of CONTRACT, COUNTY shall have the option to either terminate CONTRACT or temporarily procure the product or service from another supplier. If the product or service is procured from another supplier, SUCCESSFUL BIDDER shall pay to COUNTY any difference between the bid price and the price paid to the other supplier.

20. DAMAGED OR DEFECTIVE PRODUCTS

SUCCESSFUL BIDDER shall replace, at no cost to COUNTY, damaged or defective products within five (5) business day(s) after notice. This shall include freight and any and all other associated costs. Failure to do so will cause such products to be procured from another supplier. If the product is procured from another supplier, SUCCESSFUL BIDDER shall pay COUNTY any difference between the bid price and the price paid to the other supplier.

21. EXTENDED WARRANTY(S)

Specify all factory and component manufacturers' standards and extended warranties. SUCCESSFUL BIDDER shall list any extended warranties and costs associated with them that may be purchased by COUNTY. (PLEASE NOTE: THE COST OF EXTENDED WARRANTIES SHALL NOT BE INCLUDED IN THE BID PRICE. THE EXTENDED WARRANTY DESCRIPTION AND PRICE SHALL BE LISTED SEPARATELY. COUNTY SHALL HAVE THE OPTION OF PURCHASING THE EXTENDED WARRANTIES SEPARATELY, BASED ON COUNTY BUDGETED APPROPRIATIONS) SUCCESSFUL BIDDER shall provide copy of warranties upon request.

22. CONTRACT PERFORMANCE CUSTOMER SURVEY

Periodically during the life of CONTRACT, COUNTY will administer a Contract Performance Customer Survey Questionnaire to be completed by both end using departments and SUCCESSFUL BIDDER. This survey serves as a vehicle for COUNTY to identify successes or challenges encountered in the contract management process. Participation in this process shall be considered as part of SUCCESSFUL BIDDER'S performance.

IV - TECHNICAL SPECIFICATIONS

BID NO. 603715-15 CURRENT PRODUCTION MODEL 4X4 PUMPER

Name of Firm

INTENT:

It is the intent of these specifications to provide a vehicle that will conform to the specifications, and be suitable for continuous use by COUNTY. The vehicle offered shall be new, unused, the current production model and conform to the specifications provided below.

The vehicle shall comply with all Federal and State of Nevada Emission Control Regulations, and Safety Standards in effect at the time of delivery to COUNTY.

These specifications shall be construed as minimum requirements. Should the manufacturer's current published data or specifications exceed these, they shall be considered as minimum and be furnished by Bidder.

Any deviation taken at the time of or after bid submittal may render the bid non-responsive. If a Bidder is unable to meet the Technical Specifications, Bidder MUST complete the attached **Exhibit A** and submit it to the Purchasing Analyst at least five (5) business days prior to the scheduled **PRE-BID CONFERENCE**. It shall be the sole responsibility of the Bidder to ensure that the Purchasing Analyst has been properly notified, **PRIOR TO THE PRE-BID CONFERENCE** of the Bidder's deviation to the Technical Specifications.

It is the sole responsibility of the BIDDER to ensure that the Purchasing Analyst has been properly notified of BIDDER'S inability to meet the specification, prior to the **PRE-BID CONFERENCE**.

BIDDERS MUST RETURN THE ORIGINAL OR A PHOTOCOPY OF THIS FORM AND MAKE AN ENTRY FOR EACH SPECIFICATION IN THE SPACE PROVIDED OPPOSITE THE SPECIFICATIONS, INDICATING ANY VARIANCES IN THE SPECIFICATION. IF THERE IS NOT ENOUGH SPACE, ATTACH AN ADDITIONAL SHEET OF PAPER.

SPECIFICATION NO. 1

GENERAL DESCRIPTION

It is the intent of these specifications to describe the minimum requirements for Commercial 4x4 chassis fire truck with: standard cab, 750 gallon Water tank, 20 gallon foam tank, Hale 1250 gpm water pump. MAX HEIGHT NOT TO EXCEED 115" Maximum Length 324"

SPECIFICATION NO. 2

INTENT OF SPECIFICATIONS

It shall be the intent of these specifications to provide a complete apparatus equipped as hereinafter and as specified with a view of obtaining the best results and the most acceptable apparatus for service in the Department. These specifications cover only the general requirements as to the type of construction and tests to which the apparatus must conform, together with certain details as to finish, equipment and appliances with which the successful bidder shall conform. Minor details of construction and materials where not otherwise specified are left to the discretion of the contractor. The manufacturer shall provide loose equipment only when specified by the customer. Otherwise, in accordance with the current edition of NFPA 1901 standards, the proposal shall specify whether the fire department or apparatus dealership shall provide required loose equipment.

SPECIFICATION NO.3

BID/PROPOSAL DRAWINGS

- A. For purposes of evaluation, the bidder shall provide a drawing illustrating, but not limited to, the overall dimensions, wheelbase, and overall length of the proposed apparatus and other specified equipment, shall be required to be included with the bidder's proposal package.
- B. The drawings shall be large "D" size (minimum 24" x 36"). Smaller size drawings, "similar to" drawings or general sales drawings, shall not be acceptable. Failure to provide a bid evaluation drawing in accordance with these specifications shall be cause for rejection of the bid proposal.

SPECIFICATION NO.4

PRE-CONSTRUCTION CONFERENCE

Within 45 days of purchase order release there will be a pre-construction meeting for up to three (3) representatives of the buying authority at the facility where the apparatus is being constructed. The trip(s) will be prior to construction of the Apparatus. Factory and Sales representatives will be available at the time of trip. Transportation, lodging and meals, will be the Responsibility of the successful bidder.

FINAL INSPECTION

There will be a final inspection for up to three (3) representatives of the buying authority at the facility where the apparatus is being constructed. The inspection trip will be when the apparatus is complete. Transportation, lodging and meals will be the responsibility of the manufacturer.

SPECIFICATION NO.5

APPROVAL/PRE-CONSTRUCTION DRAWINGS

After the pre-construction conference, the contractor shall provide detailed colored engineering drawings including, but not limited to, the overall dimensions, wheelbase, and overall length of the proposed apparatus for use at the pre-construction conference. The drawings shall include, but shall not be limited to the right, left, top, front and rear views of the apparatus. The Customer will sign the final approval drawing.

SPECIFICATION NO.6

MANUALS

- A. The apparatus manufacturer shall supply two (2) copies of apparatus manuals with all manufactured apparatus. The manuals shall include, but not be limited to: all component warranties, users' manuals and information for supplied products, apparatus engineering information including drawings and build prints, and whatever other pertinent information the manufacturer can supply to its customer regarding the said apparatus.
- B. Included in the delivery of the unit, the manufacturer shall also include spare hardware and extra fasteners, paint for touch-up, information regarding washing and care procedures, as well as other recommendations for care and upkeep of the general apparatus.
- C. The manufacturer shall also supply a manufacturer's record of apparatus construction details, including the following information:
 - 1. Owner name and address;
 - 2. Apparatus manufacturer, model, and serial number;
 - 3. Chassis make, model, and serial number;
 - 4. GAWR of front and rear axles;
 - 5. Front tire size and total rated capacity in pounds;
 - 6. Rear tire size and total rated capacity in pounds;
 - 7. Chassis weight distribution in pounds with water (if applicable) and manufacturer mounted equipment (front and rear)
 - 8. Engine make, model, serial number, rated horsepower, related speed and no load governed speed;
 - 9. Type of fuel and fuel tank capacity;
 - 10. Electrical system voltage and alternator output in amps;
 - 11. Battery make and model, capacity in CCA;
 - 12. Paint numbers;
 - 13. Weight documents from a certified scale showing actual loading on the front axle, rear axle(s), and overall vehicle (with the water tank full (if applicable) but without personnel, equipment, and hose);
 - 14. Written load analysis and results of the electrical system performance tests;
 - 15. Transmission make, model, and type;
 - 16. Pump to drive through the transmission (yes or no);
 - 17. Engine to pump gear ratio and transmission gear ratio used;
 - 18. Pump make and model, rated capacity in gallons per minute, serial number, and number of stages;
 - 19. Pump manufacturer's certification of suction capability;
 - 20. Pump manufacturer's certification of hydrostatic test;
 - 21. Pump manufacturer's certification of inspection and test for the fire pump;
 - 22. Copy of the apparatus manufacturer's approval for stationary pumping applications;
 - 23. Pump transmission make, model and serial number;
 - 24. Priming device type;
 - 25. Type of pump pressure control system;
 - 26. The engine manufacturer's certified brake horsepower curve for the engine furnished, showing the maximum no load governed speed;
 - 27. Certification of water tank capacity

SPECIFICATION NO.7

GENERAL WARRANTY

A warranty shall be offered for each new fire apparatus manufactured for a period of Two (2) years from the date of delivery.

SPECIFICATION NO.8

STRUCTURAL BODY WARRANTY

A structural Aluminum body warranty shall be provided by the apparatus manufacturer for products of its manufacture to be free from defects in material and workmanship, under normal use and service, for a period of ten (10) years.

SPECIFICATION NO.9

PAINT WARRANTY

A ten (10) year Prorated Paint Warranty shall be included with the apparatus.

SPECIFICATION NO.10

PUMP WARRANTY

Hale Products Inc. shall provide a limited manufacturer's pump warranty to be free from defects in material and workmanship, under normal use and service, for a period of two (2) years parts and labor and parts only for years three (3) through five (5), from the date placed into service.

SPECIFICATION NO.11

PLUMBING WARRANTY

A Stainless Steel Plumbing/Piping warranty shall be offered for each new fire apparatus manufactured for a period of ten (10) years from the date of delivery.

SPECIFICATION NO.12

TANK WARRANTY

A lifetime tank warranty will be provided by the tank manufacturer

SPECIFICATION NO.13

MULTI-PLEXED ELECTRICAL WARRANTY

- A. A four (4) year limited (V-MUX) multiplex system warranty, of Weldon Technologies, Inc.; shall be provided by the apparatus manufacture for parts and labor, while under normal use and service; against mechanical, electrical and physical defects from the date of installation.
- B. The warranty shall exclude; sensors, shunt interface modules, serial or USB kits, transceivers, cameras, GPS, and electrical display screens, which shall be limited to a period of one a (1) year repair parts and labor from the date of installation.

SPECIFICATION NO.14

POWERTRAIN AND DRIVETRAIN WARRANTY

5 year 100,000 mile warranty shall be provided by commercial chassis manufacturer

SPECIFICATION NO.15

PUMP CERTIFICATION AND TESTING

- A. The apparatus upon completion will be tested and certified by Underwriters Laboratories, Inc. The certification tests will follow the guide lines outlined in NFPA 1901 "Standard for Fire Apparatus".
- B. There shall be multiple tests performed by the contractor and Underwriter's Laboratories when the apparatus has been completed. The manufacturer shall provide the completed Test Certificate(s) to the purchaser at time of delivery. The inspection services of Underwriters Laboratories are available to all bidders on an equal basis; therefore, no third party certification of testing results shall be acceptable.
- C. The tests shall include at least the pumping test, the pumping engine overload test, the pressure control system test, the priming device tests, and the vacuum test.
- D. A test plate shall be provided at the pump operator's panel that gives the rated discharges and pressures together with the speed of the engine as determined by the certification test for each unit, the position of the parallel/series pump as used, and the governed speed of the engine as stated by the engine manufacturer on a certified brake horsepower curve. The plate shall be completely stamped with all information at the factory and attached to the vehicle prior to shipping.

SPECIFICATION NO.16

LOW-VOLTAGE ELECTRICAL SYSTEM PERFORMANCE TESTING

The apparatus low-voltage electrical system will be tested and certified in accordance with the current NFPA standard.

SPECIFICATION NO.17

MINIMUM ANGLE OF DEPARTURE REQUIREMENT

The apparatus specified shall be constructed as detailed and shall have a high angle of departure, angled rear body design, with a rear recessed, fold down tailboard step.

SPECIFICATION NO.18

COMMERCIAL 4X4 CHASSIS CURRENT MODEL YEAR

Description

M2 PRL-10M (EFF:02/11/15)
SPECPRO21 DATA RELEASE VER 007
M2 106 CONVENTIONAL CHASSIS
SET BACK AXLE - TRUCK
STRAIGHT TRUCK PROVISION
LH PRIMARY STEERING LOCATION
TRUCK CONFIGURATION
DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)
FIRE SERVICE
EMERGENCY VEHICLES BUSINESS SEGMENT
FIXED LOAD COMMODITY
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
MAXIMUM 8% EXPECTED GRADE
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
MEDIUM TRUCK WARRANTY
EXPECTED FRONT AXLE(S) LOAD : 14000.0 lbs.
EXPECTED REAR DRIVE AXLE(S) LOAD : 26000.0 lbs.
EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 40000.0 lbs.
FIRE TANK - NO MAIN DRIVELINE DRIVEN SPLIT-SHAFT PTO/PUMP
EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in

SPECIFICATION NO. 18 CONTINUED

CUM ISL 350 HP @ 2000 RPM, 2200 GOV RPM, 1000 LB/FT @ 1400 RPM
64 MPH ROAD SPEED LIMIT
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT
PTO MODE ENGINE RPM LIMIT - 1100 RPM
PTO RPM WITH CRUISE SET SWITCH - 700 RPM
PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM
PTO MODE CANCEL VEHICLE SPEED - 5 MPH
PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND
PTO MINIMUM RPM - 700
REGEN INHIBIT SPEED THRESHOLD - 5 MPH
2015 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG14
2008 CARB EMISSION CERTIFICATION - EXEMPTED VEHICLE; NO CLEAN IDLE LABEL REQUIRED
STANDARD OIL PAN
ENGINE MOUNTED OIL CHECK AND FILL
ONE PIECE VALVE COVER
SIDE OF HOOD AIR INTAKE WITH NFPA COMPLIANT EMBER SCREEN AND FIRE RETARDANT DONALDSON AIR CLEANER
LN 12V 320 AMP 4962PA PAD MOUNT ALTERNATOR
(2) ALLIANCE MODEL 1231, GROUP 31, 12 VOLT MAINTENANCE FREE 2250 CCA THREADED STUD BATTERIES
BATTERY BOX FRAME MOUNTED
STANDARD BATTERY JUMPERS
SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB
WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN
NON-POLISHED BATTERY BOX COVER
POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT
POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER
CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE
STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR
AIR COMPRESSOR DISCHARGE LINE
GVG, FIRE AND EMERGENCY SERVICE VEHICLES ENGINE WARNING
CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE EXITING FORWARD OF REAR TIRES
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH
STANDARD EXHAUST SYSTEM LENGTH
RH HORIZONTAL TAILPIPE, EXIT FORWARD OF REAR TIRES AT 90 DEGREES
6 GALLON DIESEL EXHAUST FLUID TANK
100 PERCENT DIESEL EXHAUST FLUID FILL
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION
STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING
STANDARD DIESEL EXHAUST FLUID TANK CAP
HORTON DRIVEMASTER ON/OFF FAN DRIVE
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED
CUMMINS SPIN ON FUEL FILTER

SPECIFICATION NO. 18 CONTINUED

COMBINATION FULL FLOW/BYPASS OIL FILTER
1100 SQUARE INCH ALUMINUM RADIATOR
ANTIFREEZE TO -34F, NOAT EXTENDED LIFE COOLANT
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT
CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES
AUXILIARY ENGINE COOLING USING WATER FROM FIRE PUMP
LOWER RADIATOR GUARD
ALUMINUM FLYWHEEL HOUSING
ELECTRIC GRID AIR INTAKE WARMER
DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH
ALLISON 3000 EVS AUTOMATIC TRANSMISSION WITH PTO PROVISION
ALLISON VOCATIONAL PACKAGE 198 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL EVS
ALLISON VOCATIONAL RATING FOR FIRE TRUCK/EMERGENCY VEHICLE APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES
PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 5, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 5, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
NEUTRAL AT STOP - DISABLED, FUELSENSE - DISABLED
VEHICLE INTERFACE WIRING WITH BODY BUILDER CONNECTOR MOUNTED BACK OF CAB, NO BLUNT CUTS
ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN
PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED
TRANSMISSION PROGNOSTICS - ENABLED 2013
WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK
MERITOR MTC-4210 AND MTC-4213 TRANSFER CASE OIL COOLER
TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK
MERITOR MTC 4210XL 2-SPEED TRANSFER CASE
TRANSFER CASE SHIFT CONTROLS WITH TRANSFER CASE PTO ON/OFF SWITCH WHEN APPLICABLE
SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)
MX-14-120 14,000# 1790MM KPI SINGLE FRONT DRIVE AXLE
6.14 FRONT AXLE RATIO
MXL 17N MERITOR EXTENDED LUBE FRONT STEERING AXLE DRIVELINE WITH FULL ROUND YOKES
MERITOR 16.5X5 Q+ MX DRIVE AXLE CAST SPIDER HEAVY DUTY CAM FRONT BRAKES
FIRE AND EMERGENCY SEVERE SERVICE, NON-ASBESTOS FRONT LINING
MERITOR CAST IRON FRONT BRAKE DRUMS
FRONT BRAKE DUST SHIELDS
FRONT GREASE SEAL
STANDARD SPINDLE NUTS FOR ALL AXLES
MERITOR AUTOMATIC FRONT SLACK ADJUSTERS
TRW TAS-85 POWER STEERING
POWER STEERING PUMP
2 QUART SEE THROUGH POWER STEERING RESERVOIR
SYNTHETIC 75W-90 FRONT AXLE LUBE
14,600# TAPERLEAF FRONT SUSPENSION

SPECIFICATION NO. 18 CONTINUED

MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION
FRONT SHOCK ABSORBERS
RS-25-160 27,000# R-SERIES FIRE/EMERGENCY SERVICE SINGLE REAR AXLE
6.14 REAR AXLE RATIO
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING
MXL 17N MERITOR EXTENDED LUBE MAIN DRIVELINE WITH FULL ROUND YOKES
DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE
(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE
MERITOR 16.5X7 P CAM REAR BRAKES, DOUBLE ANCHOR, CAST SHOES
FIRE AND EMERGENCY SEVERE SERVICE NON-ASBESTOS REAR BRAKE LINING
BRAKE CAMS AND CHAMBERS ON REAR SIDE OF DRIVE AXLE(S)
WEBB HEAVY WEIGHT CAST IRON REAR BRAKE DRUMS
SKF SCOTSEAL PLUS XL REAR OIL SEALS
HALDEX GOLDSEAL LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS
HALDEX AUTOMATIC REAR SLACK ADJUSTERS
SYNTHETIC 75W-90 REAR AXLE LUBE
26,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD
SPRING SUSPENSION - 2.25 INCH AXLE SPACER
STANDARD U-BOLT PAD
FORE/AFT CONTROL RODS
AIR BRAKE PACKAGE
WABCO 4S/4M ABS WITHOUT TRACTION CONTROL
REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES
FIBER BRAID PARKING BRAKE HOSE
STANDARD BRAKE SYSTEM VALVES
STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM
STD U.S. FRONT BRAKE VALVE
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE
WABCO SS-1200 PLUS AIR DRYER WITH INTEGRAL AIR GOVERNOR AND HEATER
AIR DRYER FRAME MOUNTED ad9 model
STEEL AIR BRAKE RESERVOIRS MOUNTED INSIDE RAIL
PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS
UPGRADED CHASSIS MULTIPLEXING UNIT
UPGRADED BULKHEAD MULTIPLEXING UNIT
4900MM (193 INCH) WHEELBASE
11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI
1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT
2275MM (90 INCH) REAR FRAME OVERHANG
FRAME OVERHANG RANGE: 81 INCH TO 90 INCH
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 127.45 in
CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 122.95 in
CALC'D FRAME LENGTH - OVERALL : 312.39
CALC'D SPACE AVAILABLE FOR DECKPLATE : 127.45 in
CALCULATED FRAME SPACE LH SIDE : 152.11 in
SQUARE END OF FRAME

SPECIFICATION NO. 18 CONTINUED

FRONT CLOSING CROSSMEMBER
LIGHTWEIGHT HEAVY DUTY ALUMINUM ENGINE CROSSMEMBER
STANDARD MIDSHIP #1 CROSSMEMBER(S)
STANDARD REARMOST CROSSMEMBER
STANDARD SUSPENSION CROSSMEMBER
THREE-PIECE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS
FRONT TOW HOOKS - FRAME MOUNTED
BUMPER MOUNTING FOR SINGLE LICENSE PLATE
FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS
GRADE 8 THREADED HEX HEADED FRAME FASTENERS
50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH
RECTANGULAR FUEL TANK(S)
PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS
FUEL TANK(S) FORWARD
PLAIN STEP FINISH
FUEL TANK CAP(S)
ALLIANCE FUEL FILTER/WATER SEPARATOR WITH PRIMER PUMP
EQUIFLO INBOARD FUEL SYSTEM
HIGH TEMPERATURE REINFORCED NYLON FUEL LINE
MICHELIN XZY3 12R22.5 16 PLY RADIAL FRONT TIRES
MICHELIN XZY3 12R22.5 16 PLY RADIAL REAR TIRES
MERITOR IRON FRONT HUBS
CONMET PRESET PLUS IRON REAR HUBS
ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT 5.79 INSET ALUMINUM DISC FRONT WHEELS
ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS
POLISHED FRONT WHEELS; OUTSIDE ONLY
POLISHED REAR WHEELS; OUTSIDE OF OUTER WHEELS ONLY
FRONT WHEEL MOUNTING NUTS
REAR WHEEL MOUNTING NUTS
106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
LEAF SPRING REAR CAB SUSPENSION
NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE
LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT
HOOD MOUNTED CHROMED PLASTIC GRILLE
CHROME HOOD MOUNTED AIR INTAKE GRILLE
FIBERGLASS HOOD
DUAL ELECTRIC HORNS
DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME
REAR LICENSE PLATE MOUNT END OF FRAME
INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL
(5) AMBER MARKER LIGHTS
DAYTIME RUNNING LIGHTS
OMIT STOP/TAIL/BACKUP LIGHTS AND PROVIDE WIRING WITH SEPARATE STOP/TURN WIRES TO 4 FEET
BEYOND END OF FRAME
STANDARD FRONT TURN SIGNAL LAMPS
DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE

SPECIFICATION NO. 18 CONTINUED

DOOR MOUNTED MIRRORS
102 INCH EQUIPMENT WIDTH
LH AND RH 8" BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS
STANDARD SIDE/REAR REFLECTORS
DUAL LEVEL CAB ENTRY STEPS ON BOTH SIDES
63X14 INCH TINTED REAR WINDOW
TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS
RH AND LH ELECTRIC POWERED WINDOWS
TINTED WINDSHIELD
2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED
OPAL GRAY VINYL INTERIOR
MOLDED PLASTIC DOOR PANEL
MOLDED PLASTIC DOOR PANEL
BLACK MATS WITH SINGLE INSULATION
FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING
IN DASH STORAGE BIN
(2) CUP HOLDERS LH AND RH DASH
GRAY/CHARCOAL FLAT DASH
SMART SWITCH EXPANSION MODULE
HEATER, DEFROSTER AND AIR CONDITIONER
STANDARD HVAC DUCTING
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH
STANDARD HEATER PLUMBING
DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR
BINARY CONTROL, R-134A
STANDARD INSULATION
SOLID-STATE CIRCUIT PROTECTION AND FUSES
12V NEGATIVE GROUND ELECTRICAL SYSTEM
DOME LIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS
LH AND RH ELECTRIC DOOR LOCKS
(2) 12 VOLT POWER RECEPTACLES MOUNTED IN DASH
SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION DRIVER SEAT WITH NFPA 1901-2009
COMPLIANT SEAT SENSOR
SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH NFPA 1901-
2009 COMPLIANT SEAT SENSOR
LH AND RH INTEGRAL DOOR PANEL ARMRESTS
BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER
BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER
3 POINT HIGH VISIBILITY ORANGE RETRACTOR DRIVER AND RH FRONT PASSENGER SEAT BELTS WITH
NFPA 1901-2009 COMPLIANT SENSOR AND DASH HARNESS
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN
4-SPOKE 18 INCH (450MM) STEERING WHEEL
DRIVER AND PASSENGER INTERIOR SUN VISORS
GRAY DRIVER INSTRUMENT PANEL
GRAY CENTER INSTRUMENT PANEL
ENGINE REMOTE INTERFACE WITH PARK BRAKE AND NEUTRAL INTERLOCKS
BLACK GAUGE BEZELS

SPECIFICATION NO. 18 CONTINUED

LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM
2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES
INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS
ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL
KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION
OFF/RUN/START/ACCESSORY
ODOMETER/TRIP/HOUR/DIAGNOSTIC/VOLTAGE DISPLAY: 1X7 CHARACTER, 26 WARNING LAMPS, DATA
LINKED, ICU3
DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1939, LOCATED BELOW DASH
2 INCH ELECTRIC FUEL GAUGE
ENGINE REMOTE INTERFACE WITH INCREMENT/DECREMENT
ENGINE REMOTE INTERFACE CONNECTOR IN ENGINE COMPARTMENT
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE
2 INCH TRANSMISSION OIL TEMPERATURE GAUGE
ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY
ELECTRIC ENGINE OIL PRESSURE GAUGE
AM/FM/WB RADIO WITH CD PLAYER, BLUETOOTH AND MICROPHONE, USB, FRONT AND REAR AUXILIARY
INPUTS AND J1939
DASH MOUNTED RADIO
(2) RADIO SPEAKERS IN CAB
AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF
ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER
STANDARD VEHICLE SPEED SENSOR
ELECTRONIC 3000 RPM TACHOMETER
IGNITION SWITCH CONTROLLED ENGINE STOP
PRE-TRIP LAMP INSPECTION, ALL OUTPUTS FLASH, WITH SMART SWITCH
DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY
SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY
MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH
ALTERNATING FLASHING HEADLAMP SYSTEM WITH BODY BUILDER CONTROLLED ENGAGEMENT
ONE VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING
INDICATOR
SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE
INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS
PAINT: ONE SOLID COLOR
CAB COLOR A: N3452EA YELLOW ELITE SS
BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT
U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS
CORPORATE PDI CENTER IN-SERVICE ONLY
SET BACK AXLE - TRUCK
CUM ISL 350 HP @ 2000 RPM, 2200 GOV RPM, 1000 LB/FT @ 1400 RPM
ALLISON 3000 EVS AUTOMATIC TRANSMISSION WITH PTO PROVISION
RS-25-160 27,000# R-SERIES FIRE/EMERGENCY SERVICE SINGLE REAR AXLE
26,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD
MX-14-120 14,000# 1790MM KPI SINGLE FRONT DRIVE AXLE
14,600# TAPERLEAF FRONT SUSPENSION

SPECIFICATION NO. 18 CONTINUED

106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
4900MM (193 INCH) WHEELBASE
11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI
2275MM (90 INCH) REAR FRAME OVERHANG
1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT

SPECIFICATION NO.19

DRIVE LINE MODIFICATION

The chassis drive line shall be modified from its OEM Status to accommodate any changes required by the OEM for wheelbase, pump installation, or otherwise.

SPECIFICATION NO.20

ROCKER SWITCH PANEL

All specified lighting fixtures and electrical components shall be activated by Carling V-series rocker style switches. The switches shall be located on a separate embossed electrical panel, fabricated with aluminum complete with backlit name tags describing the function of each individual switch. An internally lighted red rocker switch shall be furnished on the left and identified as the "MASTER WARNING".

SPECIFICATION NO.21

ELECTRICAL CONTROL CENTER CONSOLE

- A. The rocker switch panel shall be mounted on a custom fabricated electrical control center console mounted below the dash between the driver and officer. Other components such as open door warning light, pump shift controls, vacuum fluorescent display, siren head controller, etc. may be mounted on the console as well (depending on space required). If space isn't available on the console, the remaining controls shall be mounted on the cab dash immediately above the console for access by both the driver and officer.
- B. The electrical control center console shall be fabricated of 1/8" smooth aluminum.
- C. The console shall have 12v battery and 12v ignition power distribution connection points for radios and any additional electronics. For ease of service, the hardware shall be accessed by a removable panel on the front of the console. The 1/8" aluminum cover shall be securely fastened and easily removed by a series of threaded fasteners.

SPECIFICATION NO.22

BATTERY SWITCH - LEVER STYLE

There shall be a Cole Hersee #9500 battery disconnect switch installed to activate the battery system. There shall be a green "battery on" pilot light located adjacent to the switch and visible from the drivers' position.

SPECIFICATION NO.23

BACK UP ALARM

An electronic backup alarm shall be installed. It shall be 97 decibels and actuate automatically when transmission gear selector is placed in reverse.

SPECIFICATION NO.24

HAZARD LIGHT IN CAB

- A. There shall be a LED "Door Open" indicator light provided and installed in the chassis cab. The light shall be installed on the cab dash between the driver and officer (providing space availability) and shall activate when the parking brake is released and a compartment door or any additional specified accessible devices are not in the completely closed positions.
- B. A warning placard shall be installed in the apparatus cab near the light, stating "Do Not Move Apparatus When Light Is On."

SPECIFICATION NO.25

SPOTLIGHT

- A. One (1) Hardwired, permanently mounted spotlight, shall be provided and installed on the roof in the center of the cab behind the lightbar.
- B. The light(s) shall be manufactured by Golight and be model #2020 (white) with a dash mount wired remote control. The control shall be located in the cab in an accessible location to the driver. The light(s) shall have 225,000 candlepower at 5.5 amps and offer up to 370 degrees of rotation x 135 degrees of tilt.

SPECIFICATION NO.26

GRILL LIGHT

One (1) Rigid Industries E-Series 20" Combo lightbar shall be provided and installed on the cab grill, centered above the Lower Zone A warning lights.

SPECIFICATION NO.27

TIRE PRESSURE MONITORING SYSTEM

There shall be a RealWheel (6) wheel stabilizer kit for 2" round holes and LED indicators (Model RWTG1234-62) provided with the apparatus. The tire pressure monitoring system shall indicate if there is improper air pressure in the tire.

The inner tire on the rear dual axle shall have an extension provided that will pass through the outside rim and attach to the stabilizer providing an unobstructed view for inspection of the inner tire air pressure.

SPECIFICATION NO.28

RETRO-REFLECTIVE STRIPING

Retro-reflective striping shall be added to the inside of the cab doors in accordance to NFPA requirements.

SPECIFICATION NO.29

VEHICLE DATA RECORDER (VDR)

- A. A Weldon, Model number 6444-0000-00, Vehicle Data Recorder which collects and stores essential vehicle data shall be provided. Reviewing the information is made easy with an intuitive computer application.
- B. The following features shall be included:
 - 1. Recorded Data Includes: Vehicle Speed, Acceleration, Deceleration, Engine Speed, Engine Throttle Position, ABS Event, Seat Occupied Status, Seat Belt Status,
 - 2. Master Optical Warning Switch, Park Brake, Service Brake, Time, Date and Engine Hours.
 - 3. Password Protected by the customer
 - 4. Six (6) seat position inputs for occupied and belts buckled. Additional six (6) seat expansion module available (#6020-0000-00)
 - 5. Easily interfaces with traditional wiring, V-MUX™ or other multiplexing systems
 - 6. Data is extracted by a 05023100 standard, mini USB cable
 - 7. Use in conjunction with the Occupant Restraint Indicator or V-MUX™ multiplex system

SPECIFICATION NO.30

OCCUPATIONAL RESTRAINT INDICATOR

- A. An Occupant Restraint Indicator, model number 6204-0000-00 shall be provided. Designed to alert driver and officer, this module will indicate where restraints of occupied seats are properly fastened keeping personnel safe.
- B. The following features shall be included:
 - 1. Low profile, compact size
 - 2. Supports commercial and custom cab seating layouts; up to 12 seats
 - 3. Dimming feature adjusts indicator intensity to synchronize with dash lights
 - 4. Built-in audible alarm
 - 5. Standard 4 year warranty

SPECIFICATION NO.31

HORIZONTAL EXHAUST

The chassis shall have a horizontal exhaust system plumbed to the right side of the apparatus body just ahead of the rear wheels.

SPECIFICATION NO.32

CAB STEP OVERLAYS

- A. The OEM two (2) door chassis cab steps shall be replaced or enhanced with embossed aluminum diamond plate overlays.
- B. The OEM fuel tank, battery box, and other equipment located directly under the cab doors shall be covered by an overlay to provide an aesthetically pleasing look.
- C. If OEM stepping areas are not suitable, stepping surfaces shall be fabricated of embossed aluminum diamond plate to provide a positive NFPA 1901 compliant 'slip resistant' surface. Provisions shall be included for ease of access to any regularly serviced or utilized components.

SPECIFICATION NO.33

12-VOLT OUTLET

Two (2) 12-volt cigarette style outlet(s) shall be provided and installed with circuit breaker protection. The outlet(s) shall be capable of carrying up to a 15 amp battery direct load.

- A. One (1) shall be located on the forward wall, inside the left front (L1) body compartment.
- B. One (1) shall be located on the forward wall inside the right front (R1) body compartment.

SPECIFICATION NO.34

ENGINE COMPARTMENT LIGHTS

There shall be one (1) 12 volt work light(s), Weldon LED light(s) model #2631-0000-30, installed in the engine compartment. Each light shall have an on/off switch.

SPECIFICATION NO.35

FIRE EXTINGUISHER-INTERIOR OF CAB LOCATION

One (1) 2.5 pound Amerex ABC Extinguisher(s) shall be supplied with the apparatus and located inside the chassis cab.

SPECIFICATION NO.36

ANTENNA MOUNTING BASE

There shall be one (1) antenna mounting base(s) with sufficient length of 50 OHM coax cable and weather resistant cap shall be supplied for two-way radios. The mount shall be located on the cab roof in a best fit location determined by the manufacture. The cable shall be routed to the center console.

SPECIFICATION NO.37

DAVID CLARK INTERCOM SYSTEM

A two (2) person (2) position David Clark intercom system shall be installed in the apparatus. The system shall consist of the following specified components:

- A. One (1) #U3800 master station. Installed best fit
- B. One (1) #U3810 radio interface module. Installed best fit
- C. Two (2) PTT push to talk button/box installed best fit
- D. Two (2) #H3342 headsets (for the crew). Two (2) headset hangers provided and mounted inboard of the seats.
- E. All necessary power and interface cables to accommodate one (1) Bendix King DMH 5992X radio shall be provided.

SPECIFICATION NO.38

SHORELINE

- A. One (1) completely sealed Kussmaul manual shoreline receptacle model WPR-1 120 volt 20 amp provided and installed on the apparatus. There shall be green indicator light near the receptacle indicating 120 volt power. The shoreline connection shall be installed under the driver's door area at the lower step level, and placed as far rearward of the immediate stepping area as space allows. There shall be a total quantity of one (1).
- B. Two (2) 120 volt receptacle shall be mounted in the upper forward wall of the L1 compartment. Shall be powered by shoreline.

SPECIFICATION NO.39

ON-BOARD CHARGING SYSTEM

A 45 amp IOTA battery charger shall be provided and wired to the 12 volt battery system. The charger unit shall be mounted in a clean dry area and will be accessible for service and/or maintenance.

SPECIFICATION NO.40

AIR INLET

- A. An air inlet with check valve shall be provided to maintain the air pressure in the braking system of the vehicle from a remote source. The inlet shall require manual disconnection from the vehicle.
- B. Location: Left-hand side cab step area.

SPECIFICATION NO.41

AIR TANK DRAIN CABLES (extended)

There shall be manual pull air tank drain cables provided with the apparatus. The cables shall be extended to the outer edge of the apparatus to facilitate draining moisture from the chassis air tanks. A label shall be affixed indicating "Air Tank Drain".

SPECIFICATION NO.42

SIREN

- A. One (1) Whelen electronic siren(s), model #295SLSA1 shall be provided and installed on the apparatus.
- B. The siren shall be 100-200 watts and feature wail, yelp, phaser, air horn and manual wail. The microphone shall have noise canceling circuitry and Public Address override. The siren and hard wired microphone shall be installed with-in reach of the driver and officer.

SPECIFICATION NO.43

SIREN SPEAKER

- A. Two (2) Cast Products model #SA4301 100 watt siren speaker(s) shall be provided and installed on the apparatus as specified below:
- B. Two (2) speakers shall be installed in the front bumper one (1) installed on the right side and one (1) installed on the left side.

SPECIFICATION NO.44

AIR HORNS

- A. There shall be two (2) chrome plated air horns installed on the apparatus. The air horns shall be manufactured by Grover and be Stuttertone model #1510.
- B. The air horn(s) shall be mounted on the chassis hood.
- C. The air horns shall be actuated by either foot switch, one (1) installed on the driver's side or one (1) installed on the officer's side of the chassis cab.

SPECIFICATION NO.45

CHASSIS REQUIRED LABELING

- A. Signs that state "Occupants must be seated and belted when apparatus is in motion" shall be provided and installed in the cab and be visible from all seating positions.
- B. There shall be a lubrication plate mounted inside cab listing the type and grade of lubrication used in the following areas on the apparatus and chassis:
 - 1. Engine oil
 - 2. Engine Coolant
 - 3. Transmission Fluid
 - 4. Pump Transmission Lubrication Fluid (if applicable)
 - 5. Drive Axle Lubrication Fluid
 - 6. Generator Lubrication Fluid (if applicable)
 - 7. Tire Pressures

SPECIFICATION NO.46

APPARATUS INFORMATION LABEL

A high-visibility label shall be provided and installed in a location clearly detectable to the driver while in the seated position indicating the following:

The label shall indicate the following specified information.

- A. Overall Height listed in feet and inches.
- B. Overall Length listed in feet and inches.
- C. Overall GVWR listed in tons.

SPECIFICATION NO.47

CAB HELMET WARNING LABEL

A high-visibility label shall be installed in a location clearly detectable from each seating position. The label shall indicate the following specified information. "DO NOT WEAR HELMET WHILE SEATED".

SPECIFICATION NO.48

HELMET RESTRAINTS

Two (2) Ziamatic UHH-1 Universal Helmet Holders shall be provided and installed in a best fit location determined by the apparatus manufacturer.

SPECIFICATION NO.49

MUD FLAPS

Heavy-duty rubber mud flaps shall be provided behind the rear wheels. The mud flaps shall be black rubber type and be bolted in place.

SPECIFICATION NO.50

CENTER HUB & LUG NUT COVERS

There shall be chrome plated lug nut covers and hub caps installed on the front and rear aluminum wheels. There shall also be chrome Baby Moon hub covers for the rear wheels.

SPECIFICATION NO.51

PUMP COMPARTMENT

The complete apparatus pump compartment shall be constructed of a combination of structural tubing and formed sheet metal. The same materials used in the body shall be utilized in the construction of the pump compartment.

SPECIFICATION NO.52

PUMP MODULE MOUNTING SYSTEM

- A. The entire pump module assembly shall be mounted so that it "floats" above the chassis frame rails exclusively with torsion isolator assemblies to reduce the vibration and stress providing an extremely durable pump module mounting system.
- B. There shall be no welding to the chassis frame rail sides, web or flanges, or drilling of holes in the top or bottom frame flanges between axles. All body to chassis connections shall be bolted so that in the event of an accident, the body shall be easily removable from the truck chassis for repair or replacement.

SPECIFICATION NO.53

LEFT SIDE OPERATORS PANEL

- A. The pump operator's panel shall be located on the left, upper side of the apparatus pump compartment. The panel shall be split into an upper and lower section.
- B. The upper panel shall house gauges and controls and be hinged to allow easy access to components. The door shall have a stainless steel hinge, dual point chrome push button latches and a rubber seal provided to prevent excessive moisture from entering or leaving the pump house.
- C. The lower panel on the left side shall be a removable panel attached with mechanical fasteners.
- D. Valve controls shall be immediately adjacent to its respective gauge. The valve controls shall be properly labeled and color coded for ease of use. All markings shall be permanent in nature.

SPECIFICATION NO.54

PANEL LIGHTS

- A. Illumination shall be provided for all gauges and controls with the installation of a brushed stainless steel shielded light assembly with three (3) 9.00" (21cm) LED Tube lights model #RX-15T16-5050-21CM, installed on the left and right side pump panels and one directional light Weldon style 9186-23882 Surface Mount series on the right side panel.
- B. There shall be a switch located on the operators pump panel to turn two (2) of the pump panel lights and the directional light on or off. This switch shall also activate any area step lighting. The third light on the pump panel shall illuminate when the pump is engaged and it is "OK TO PUMP".

SPECIFICATION NO.55

PUMP COMPARTMENT SERVICE ACCESS

The front portion of the pump compartment structure (directly behind the chassis cab) shall not be overlaid to provide an opening for access to the midship fire pump.

SPECIFICATION NO.56

PUMP COMPARTMENT STRUCTURE

The structural framework of the pump compartment shall be self-supportive and independent of the apparatus body.

SPECIFICATION NO.57

RIGHT SIDE PUMP PANELS

There shall be two (2) pump panels on the right side of the pump compartment, one (1) upper and one (1) lower. Each panel shall be accessible by a quick-release mechanical type latch, closing against a door seal. Both panels shall be easily removed for access to the pump for service.

SPECIFICATION NO.58

BRUSHED STAINLESS STEEL SIDE PANELS & OVERLAYS

- A. Panels for the pump compartment on the left and right side shall be made from 14 gauge "Brushed Stainless Steel" capable of withstanding the conditions and effects of extreme weather and temperature changes.
- B. The tubular structure shall be overlaid on each side of the pump compartment underneath the access panels and shall be made of "Brushed Stainless Steel".

SPECIFICATION NO.59

RUNNING BOARDS

- A. The running boards shall be made of a structural tubular framework. The tubular frame support all loads by transmitting the loads through the pump compartment structure directly to the chassis frame rails.
- B. The running boards shall be independent of the apparatus body and shall be integrated to the pump compartment structure only, eliminating any pump compartment to body interference. This is essential in keeping a truly 'modular' configuration. Slip-resistant abrasive adhesive materials shall be applied to the top surface of the running board framework to provide a suitable stepping surface.

SPECIFICATION NO.60

EMBOSSSED ALUMINUM DIAMOND PLATE OVERLAY

The left side running board shall have a 1/8" embossed aluminum diamond plate overlay installed. The stepping area shall be as large as possible, overlapping the perimeter of the structural running board framework. The embossed aluminum diamond plate material shall meet the minimum NFPA standard requirements for slip resistance.

SPECIFICATION NO.61

EMBOSSSED ALUMINUM DIAMOND PLATE OVERLAY

- A. The right side running board shall have a 1/8" embossed aluminum diamond plate overlay installed. The stepping area shall be as large as possible, overlapping the perimeter of the structural running board framework.
- B. The embossed aluminum diamond plate material shall meet the minimum NFPA standard requirements for slip resistance.

SPECIFICATION NO.62

MASTER GAUGES

- A. The master intake and master discharge gauges shall be manufactured by Class One and installed on the pump operator's panel. They shall be liquid filled to keep the dial from pulsating and also to prevent condensation from forming inside the gauges. The master gauges shall be 4 1/2" in diameter.
- B. The master intake gauge shall read from - 30 to 400 psi with the master discharge gauge reading from 0 to 400 psi. The gauges shall be Class 1 model LFP-410.

SPECIFICATION NO.63

TESTING PORTS

Test port connections for pressure and vacuum shall be provided at the pump operator's panel. One shall be connected to the intake side of the pump, and the other to the discharge manifold side of the pump. They shall have 0.25 in. standard pipe thread connections and be manufactured of non-corrosive polished stainless steel or brass plugs.

SPECIFICATION NO.64

CLASS 1 TPG PLUS PRESSURE GOVERNOR

There shall be a Class 1 TPG PLUS total pressure governor and monitoring display kit provided and installed with the apparatus.

SPECIFICATION NO.65

PRESSURE RELIEF VALVE

- A. A Task Force Tips model #A18XX pressure relief valve shall be provided.
- B. The valve shall have an easy to read adjustment range from 90 to 300 PSI with 90, 125, 150, 200, 250 and 300 PSI adjustment settings and an "OFF" position. Pressure adjustments shall be made utilizing a 1/4" hex key, 9/16" socket or 14mm socket.
- C. For corrosion resistance the cast aluminum valve shall be a hardcoat anodized with a powder coat interior and exterior finish. The valve shall meet NFPA 1901 requirements for pump inlet relief valves. The unit shall be covered by a five year warranty.
- D. For normal pumping operations, the relief valve shall not be capped and there shall be a placard stating "DO NOT CAP" installed.

SPECIFICATION NO.66

HEAT EXCHANGER

- A. There shall be a supplementary heat exchanger cooling system installed for use of water from the discharge side of the fire pump through the engine compartment, without intermixing, for absorption of excess heat.
- B. The heat exchanger shall be adequate in size to maintain the temperature of the coolant in the pump drive engine not in excess of the engine manufacturer's temperature rating under all pumping conditions. Appropriate drains shall be provided to allow draining the heat exchanger to prevent damage from freezing. A manual shut-off valve shall be supplied at the pump operator's position.

SPECIFICATION NO.67

HEAT EXCHANGER DRAIN VALVE

A Class One 1/4" ball drain valve (#14BV) with manual shut-off shall be provided for the heat exchanger. The drain valve shall be installed at the pump operator's position.

SPECIFICATION NO.68

AIR HORN BUTTON

There shall be an air horn activation red push button furnished and installed on the pump operator's gauge panel. The air horn button shall be of weather resistance type and labeled "AIR HORN".

SPECIFICATION NO.69

PUMP COMPARTMENT TOP OVERLAY

The top of the pump compartment shall be overlaid with 1/8" embossed aluminum diamond plate, meeting the minimum NFPA standard requirements for slip resistance.

SPECIFICATION NO.70

MIDSHIP PUMP

- A. The pump shall have the capacity of 1250 gallons per minute, measured in U.S. Gallons. The pump shall be a Hale Fire Pump, QFlo Plus-1250, single stage.
- B. The pump must deliver the percentages of rated capacity at these pressures:
 - 1. 100% of rated capacity at 150 pounds net pressure,
 - 2. 100% of rated capacity at 165 pounds net pressure,
 - 3. 70% of rated capacity at 200 pounds net pressure,
 - 4. 50% of rated capacity at 250 pounds net pressure.

SPECIFICATION NO.71

MASTER DRAIN VALVE

A manifold type drain valve shall be installed in the pump compartment. All pump drains shall be connected to the master drain valve. The drain valve shall be controlled from the left side lower pump house sill. The control shall be a hand wheel knob marked "open" and "closed".

SPECIFICATION NO.72

MECHANICAL PUMP SEAL

A mechanical seal shall be supplied on the inboard side of the pump.

SPECIFICATION NO.73

PUMP SHIFT

- A. The drive unit shall be provided with an air pump shift system. The control valve shall be a spring loaded guard lever that locks in "Road" or "Pump" mode.
- B. To the left of the pump shift control, there shall be two indicator lights to show the position of the pump when the control is moved to "Pump" position.
- C. A green light shall be energized when the pump shift has been completed and shall be labeled "PUMP ENGAGED"; a second green light shall be labeled "OK TO PUMP" energized when both the pump shift has been completed and the chassis automatic transmission is engaged.
- D. A third green indicator light shall be installed adjacent to the throttle on the pump operator's panel. This light shall be labeled "Throttle Ready".
- E. In addition to this indicator light, an additional indication shall be provided to the pump operator at the panel when the pump is ready to pump. This additional indication shall be that one (1) of the operator's panel illumination lights will only activate when the "OK TO PUMP" indicator is lit.

SPECIFICATION NO.74

PRIMING SYSTEM

The fire pump shall be equipped with a Class 1 model #ESP oil-less electrically driven priming pump. The unit shall be a positive displacement vane type. A push button priming control shall be located at the pump operator's panel.

SPECIFICATION NO.75

MAIN PUMP INLETS

- A. A 6.00 inch (152mm) pump manifold inlet shall be provided on each side of the pump. The shorter style inlets shall protrude less than 2 inches (50mm) away from the side panels, allowing an external valve to be connected and not protrude past the apparatus body sides while maintaining a low connection height.
- B. The main pump inlets shall have National Standard Threads and include removable screens designed to provide cathodic protection for reducing deterioration in the pump.

SPECIFICATION NO.76

SIDE INTAKE WATERWAY VALVE(S)

There shall be a Task Force Tip model # AB1ST-NX provided for each side 6" intake for a total of two (2).

SPECIFICATION NO.77

6" CHROME PLATED BRONZE CAP(S)

There shall be two (2) 6" long handled chrome plated cap(s) installed the apparatus. The cap(s) shall be National Standard Thread.

SPECIFICATION NO.78

PUMP COOLING LINE

There shall be a 3/8 inch (9.5 mm) line running from the pump to the water tank to assist in keeping the pump water from overheating. A quarter turn on/off valve shall be installed on the operator's panel.

SPECIFICATION NO.79

STAINLESS STEEL PLUMBING

All auxiliary suction and discharge plumbing related fittings, and manifolds shall be fabricated with schedule 10 stainless steel pipe; brass or high pressure flexible piping with stainless steel couplings. Galvanized components and/or iron pipe shall NOT be accepted. All piping components and valves shall be non-painted, unless otherwise specified. All piping welds shall be wire brushed and cleaned for inspection and appearance.

SPECIFICATION NO.80

PUMP HOUSE LINE PROTECTION

- A. All drain lines for the discharges, suctions, ABS discharge gauge lines and any other appropriate connections in the pump house area shall have a protective cover provided on the lines in the required areas of the lines to prevent the lines from rubbing on any other components in the pump house area.
- B. All drain lines, ABS lines, high pressure discharge lines and electrical wiring in the pump house area shall be properly and neatly routed, wire tied and rubber coated "P" clamped, to keep the items secured.

SPECIFICATION NO.81

DRAIN VALVES

All manual drains shall be model Class One ¾" ball valve with quarter turn cast T-Handle.

SPECIFICATION NO.82

2.5" RIGHT SIDE INLET

- A. There shall be a gated suction inlet with .75 inch (19mm) bleeder installed on the right side of the apparatus. A total quantity of one (1) shall be provided with the following specified components:
- B. A 2.5" Akron Brass 8800 series swing-out valve with stainless steel ball.
- C. The control valve shall be a 'swing out type' direct operation manual lever actuator.
- D. The plumbing shall consist of 2.5" piping, and shall incorporate a manual drain control installed below the pump area for ease of access.
- E. The suction termination shall include the following components:
- F. One (1) 2.5" NST swivel female adapter with screen
- G. One (1) 2.5" male self-venting plug, secured by a chain

SPECIFICATION NO.83

2.5" LEFT SIDE INLET

- A. There shall be a gated suction inlet with .75 inch (19mm) bleeder installed on the left side of the apparatus. A total quantity of one (1) shall be provided with the following specified components:
- B. A 3" Akron Brass 8800 series swing-out valve with a stainless steel ball.
- C. The control valve shall be a 'swing out type' direct operation manual lever actuator.
- D. The plumbing shall consist of 2.5" piping, and shall incorporate a manual drain control installed below the pump area for ease of access.
- E. The suction termination shall include the following components:
- F. One (1) 2.5" NST swivel female adapter with screen
- G. One (1) 2.5" male self-venting plug, secured by a chain

SPECIFICATION NO.84

LEFT REAR DISCHARGES

- A. There shall be a gated discharge installed on the left rear of the apparatus. A total quantity of one (2) shall be provided with the following specified components:
- B. A 2 1/2" Akron Brass 8800 series swing-out valve with a stainless steel ball.
- C. Each discharge shall be controlled from the side operator's panel.
- D. The plumbing shall consist of 2 1/2" piping, and shall incorporate a manual drain control installed below the pump area for ease of access.
- E. Each discharge termination shall include the following components:
- F. One (1) 2.5" Male NST adapter
- G. One (1) 2.5" NST female by male swivel w/45 degree elbow
- H. One (1) 2.5" female self-venting cap, secured by a chain
- I. Two (2) Class 1 2.5" (63mm) gauges shall be supplied for the discharge pressure reading 0-400 psi. The gauge model shall be Class 1 LFP.

SPECIFICATION NO.85

RIGHT SIDE DISCHARGES

- A. There shall be a gated discharge installed on the right side of the apparatus. A total quantity of two (2) shall be provided with the following specified components:
- B. A 2 1/2" Akron Brass 8800 series swing-out valve with a stainless steel ball.
- C. Each discharge shall be controlled from the side operator's panel.
- D. The plumbing shall consist of 2 1/2" piping, and shall incorporate a manual drain control installed below the pump area for ease of access.
- E. Each discharge termination shall include the following components:
- F. One (1) 2.5" Male NST adapter
- G. One (1) 2.5" NST female by male swivel w/45 degree elbow
- H. One (1) 2.5" female self-venting cap, secured by a chain
- I. Two (2) Class 1 2.5" (63mm) gauge shall be supplied for the discharge pressure reading 0-400 psi. The gauge model shall be Class 1 LFP.

SPECIFICATION NO.86

LEFT SIDE DISCHARGES

- A. There shall be a gated discharge installed on the left side of the apparatus. A total quantity of two (2) shall be provided with the following specified components:
- B. A 2 1/2" Akron Brass 8800 series swing-out valve with a stainless steel ball.
- C. The control valve shall be a 'swing out type' direct operation manual lever actuator.
- D. The plumbing shall consist of 2 1/2" piping, and shall incorporate a manual drain control installed below the pump area for ease of access.
- E. Each discharge termination shall include the following components:
- F. One (1) 2.5" Male NST adapter
- G. One (1) 2.5" NST female by male swivel w/45 degree elbow
- H. One (1) 2.5" female self-venting cap, secured by a chain
- I. Two (2) Class 1 2.5" (63mm) gauge shall be supplied for the discharge pressure reading 0-400 psi. The gauge model shall be Class 1 LFP.

SPECIFICATION NO.87

LARGE DIAMETER DISCHARGE

There shall be a master discharge installed on the right side of the apparatus. A total quantity of one (1) shall be provided with the following specified components:

- A. A 4" Akron Brass 8000 series 'electric valve'.

SPECIFICATION NO.88

LARGE DIAMETER VALVE CONTROLLER

- A. The control valve shall be an electric Akron Brass model#9323.
- B. The electric controls shall be of current limiting design, requiring no clutches in the motor. The unit shall have booted switches with momentary open close as well as an optional one touch full open feature to operate the actuator. The unit shall be capable of connecting to an auxiliary controller for operation at a location away from the master. The unit shall provide position indication through 10 LED light indicators, providing maximum visibility.
- C. The plumbing shall consist of 4" piping, and shall incorporate a manual drain control installed below the pump area for ease of access.
- D. The discharge termination shall include the following components:
1. One (1) 4" NST adapter
 2. One (1) 4" NST female swivel by 4"Storz cast aluminum 30 degree elbow
 3. One (1) 4" female Storz self-venting cap, secured by a chain
 4. A Class 1 2.5" (63mm) gauge shall be supplied for the discharge pressure reading 0-400 psi. The gauge model shall be Class 1 LFP.

SPECIFICATION NO.89

DOUBLE STACK CROSSLAYS

- A. **NO. 1 CROSSLAY, 1-3/4" DOUBLE LAY**
One-(1) pre-connected crosslay compartment shall be provided above the side mount operator's panel accommodating 200' of 1-3/4" double jacket hose. Stainless steel nylon guided rollers shall be installed at each end with stainless steel scuff plates around the perimeter to protect the painted surface. One-(1) 2" ball valve with mechanical swivel shall be installed. The valve shall be plumbed to the crosslay with 2" high pressure flexible hose and stainless steel couplings. The high pressure hose shall be tested to 1200 PSI. The crosslay valve shall be push-pull controlled at the pump operator's panel. Shall have foam capabilities. Each discharge is equipped with a 3/4 quarter-turn drain valve.
- B. **NO. 2 CROSSLAY, 1-3/4" DOUBLE LAY**
One-(1) pre-connected crosslay compartment shall be provided above the side mount operator's panel accommodating 200' of 1-3/4" double jacket hose. Stainless steel nylon guided rollers shall be installed at each end with stainless steel scuff plates around the perimeter to protect the painted surface. One-(1) 2" ball valve with mechanical swivel shall be installed. The valve shall be plumbed to the crosslay with 2" high pressure flexible hose and stainless steel couplings. The high pressure hose shall be tested to 1200 PSI. The crosslay valve shall be push-pull controlled at the pump operator's panel. Each discharge is equipped with a 3/4 quarter-turn drain valve. Shall have foam capabilities.
- C. **NO. 3 CROSSLAY, 2.5" DOUBLE LAY**
One-(1) pre-connected crosslay compartment shall be provided above the side mount operator's panel accommodating 200' of 2.5" double jacket hose. Stainless steel nylon guided rollers shall be installed at each end with stainless steel scuff plates around the perimeter to protect the painted surface. One-(1) 2.5" Akron 2-1/2" Heavy-Duty ball valve with mechanical swivel shall be installed. The crosslay valve shall be push-pull controlled at the pump operator's panel. Each discharge is equipped with a 3/4 quarter-turn drain valve. Shall have foam capabilities.

SPECIFICATION NO.90

CROSSLAY TRIM

Brushed stainless steel trim shall be installed at the openings on each side of the crosslay hose bed area. The trim shall reduce the chaffing of the hose jacket on the edges of the bay area.

SPECIFICATION NO.91

CROSSLAY COVER

- A. The crosslay hose bed area shall have a vinyl cover installed on the top and sides of the crosslay area. The top cover shall be held in place by an extrusion across the front of crosslays and Velcro across the rear and the sides shall be fastened by an elastic shock cord sewn into the tarp with brass grommets where the shock cord passes through the hose bed cover.
- B. The crosslay hose bed cover shall be black in color.

SPECIFICATION NO.92

DECK GUN MONITOR WATERWAY

- A. There shall be one (1) deck gun monitor waterway(s) installed on the apparatus.
- B. A 3" Akron Brass 8000 series 'electric valve' with stainless steel ball.

SPECIFICATION NO.93

DECK GUN VALVE CONTROLLER

- A. The control valve shall be an electric Akron Brass model #9323.
- B. The electric controls shall be of current limiting design, requiring no clutches in the motor. The unit shall have boot switches with momentary open close as well as an optional one touch full open feature to operate the actuator. The unit shall be capable of connecting to an auxiliary controller for operation at a location away from the master. The unit shall provide position indication through 10 LED light indicators, providing maximum visibility.
- C. The waterway shall be plumbed with 3" piping that terminates 3" above the top of the pump compartment unless otherwise specified or required by a specific deck gun selection as noted.
- D. The plumbing shall be drained with an auto-drain located at the lowest point of the waterway plumbing if required.

SPECIFICATION NO.94

EXTEND-A-GUN

- A. There will be a Task Force Tips 18" (457.2mm) Extenda-Gun installed on the deluge pipe. The Extenda-Gun will be wired to the cab "Door Open" indicator light that will notify occupants when the gun is not in the stowed position.
- B. A Class 1 2.5" (63mm) gauge shall be supplied for the discharge pressure reading 0-400 psi. The gauge model shall be Class 1 LFP.
- C. The deluge pipe shall be located up through the pump compartment, centered from left to right.

SPECIFICATION NO.95

SAFE-TAK PORTABLE MONITOR PACKAGE

Task Force Tips Crossfire model # XFC-42 portable lightweight monitor package consisting of monitor top, stacked tips, stream straightener, portable ground base, and base storage bracket shall be supplied. The gun shall have one (1) 5" Storz inlet.

SPECIFICATION NO.96

SAFE-TAK PORTABLE MONITOR BASE

- A. Task Force Tips Safe-Tak 1250, model # XFH-1ST portable monitor base shall be provided. The monitor shall include a Safe-Tak, spring loaded butterfly valve designed to rapidly reduce the water flow by 90 percent in the event that contact with the ground is lost. The device shall include an integral carrying handle, four folding stainless steel legs with replaceable tungsten carbide spikes and an anchoring strap (attached to a protective cap) designed to be stored inside the waterway. The butterfly valve shall have a reset handle located near the inlet to allow the water flow to be reestablished once the base is properly stabilized. The base shall allow an optional pressure relief valve to be installed.
- B. The base shall be constructed from hardcoat anodized aluminum and have a red powder coat interior and exterior finish. The inlet shall be configured with one (1) 5" Storz swivel coupling.

SPECIFICATION NO.97

PORTABLE DECK GUN MONITOR TOP

- A. Task Force Tips Crossfire, model # XFT-NJ portable monitor shall be provided. This top only portion with quick release swivel joint shall be designed for use on truck mounted risers and TFT Safe-Tak or Stow-A-Way 800 series portable bases.
- B. The monitor shall include safety devices that include a locking button which locks the quick release lever when monitor is pressurized, and a 1/4 turn rotational lever lock that secures the horizontal rotation and provides a visual indication that the monitor rotation is locked. For corrosion resistance the monitor shall be constructed from hardcoat anodized aluminum with a yellow powder coat interior and exterior finish.
- C. The monitor shall have a 3-1/4" waterway for delivery of up to 1250 GPM with low friction loss. Vertical elevation shall be controlled through use of a hand wheel controlled stainless steel worm gear which allows full travel to the safety stop point of 35 degrees above horizontal with seven rotations of the wheel. When positioned on a truck mounted riser the monitor shall be able to be used below the 35 degree stop point through release of the spring loaded safety pin.
- D. An automatic drain to remove remaining water and avoid freezing shall be included. Integral stainless steel stream straightener and pressure gauge shall be included. The monitor shall be configured with a Crossfire inlet and 2-1/2" male NH outlet.

SPECIFICATION NO.98

MONITOR STORAGE BRACKET

- A. Task Force Tips model # XF-B storage bracket shall be installed. The bracket shall be constructed from stainless steel include a quick release retention strap and be designed for horizontal or vertical installation. The bracket is designed for storage of the Task Force Tips Crossfire SAFE-TAK and STOWAWAY 800 series portable monitor base with or without monitor top attached.
- B. Location of storage bracket shall be determined at pre construction conference.

SPECIFICATION NO.99

MASTER STREAM NOZZLE

- A. Task Force Tips Master Stream 1000, # M-R1000-NJ automatic master stream nozzle shall be provided. The nozzle shall be designed for use on monitors, ladder pipes, deluge guns and aerial platforms. For corrosion resistance the nozzle shall be constructed for lightweight hardcoat anodized aluminum.
- B. The nozzle shall have a flow capability of 150 to 1000 GPM at a constant pressure rating of 100 PSI. A UV resistant rubber bumper with integral teeth designed to produce a finger free fog pattern shall be included. A halo ring shall be included to assist with stream shape control. The nozzle shall be suitable for foam solution application and designed to accept the Task Force Tips FJ-LX-M low expansion air aspirating attachment. The nozzle shall be configured with a 2-1/2" female NH swivel rocker lug coupling.

SPECIFICATION NO.100

MASTER STREAM STACK TIP SET

Task Force Tips model # MST-4NJ smooth bore stacked tip set shall be provided. For corrosion resistance the tip set shall be constructed from hardcoat anodized aluminum alloy. The set shall consist of four (4) tips with the base tip having a 2-1/2" female NH swivel inlet and 2" outlet. The other tip sizes shall be 1-3/4", 1-1/2" and 1-3/8". Each tip shall be laser engraved with a flow/pressure chart, orifice size, and thread size.

SPECIFICATION NO.101

STREAM STRAIGHTENER

Task Force Tips model # XF-SS5 stream straightener shall be supplied. The straightener shall be constructed from extruded aluminum with internal vanes designed to reduce turbulence and increase the reach of smooth bore water streams. The device shall be five (5) inches in length and have 2-1/2" female NH rigid inlet and 2-1/2" male NH rigid outlet.

SPECIFICATION NO.102

FOAMPRO 1600

- A. There shall be a fully automatic electronic direct injection foam proportioning system furnished and installed on the apparatus. The system shall be capable of Class A foam concentrate. The proportioning operation shall be based on an accurate direct measurement of water flows with no water flow restriction. The foam system shall be installed in accordance with the manufacturer's recommendations. The foam system shall have a 12 volt, 1/3 horsepower electric positive displacement foam concentrate pump with a rated capacity of .01 to 1.7 GPM with operating pressures up to 400 psi. The system shall be manufactured by the Hypro Corporation and be model FoamPro 1600.
- B. The system shall be equipped with a control module. It shall be installed on the pump operators panel and enable the pump operator to perform the following functions:
 - 1. Activate the foam system
 - 2. Change foam concentrate proportioning rates from .1% to 1%
 - 3. Flash a "low concentrate" warning light when the foam concentrate tank runs low. In two (2) minutes if foam concentrate is not added to tank, the foam concentrate pump shall be deactivated.

SPECIFICATION NO.103

FOAM SYSTEM TESTING

- A. The apparatus foam system shall be tested and certified.
- B. The foam system shall supply a total quantity of two (2) discharge(s) as specified:
 - 1. All crosslays and left rear discharge.
 - 2. The system shall be supplied by a single foam tank that shall be monitored by the control display. The display shall flash a "low concentrate" warning for two minutes when the foam tank runs low. In the event that no additional concentrate is added to the tank, the foam concentrate pump shall be deactivated.

SPECIFICATION NO.104

FOAM TANK

- A. A 20 gallon foam tank with square hinged lid, equipped with a hold down device shall be installed and plumbed with non-corrosive piping to the foam system. The fill tower shall be approximately 10" x 10".
- B. A label shall be affixed to the foam tank fill indicating: "WARNING" Class A (or B) foam tank fill, do not mix brands or types of foam.
- C. The foam tank(s) shall be integral with the booster water tank provided.
- D. There shall be a 1" quarter turn drain valve installed to drain the foam tank. The valve shall be installed in the pump house with a drain line extended to the side running board.
- E. The drain line shall be labeled "FOAM DRAIN".

SPECIFICATION NO.105

FOAM TANK LEVEL GAUGE

- A. A Class 1 "ITLF-40M" foam tank level gauge shall be mounted on the pump panel. The foam tank level gauge shall indicate the foam level on an easy to read multi-color LED display and show increments of 1/8 of a foam tank. The foam tank level gauge will utilize a pressure transducer that mounts on the outside of the foam tank for sensing the foam level.
- B. No probes shall be installed for the foam tank. The foam tank level gauge shall have a super bright LED display viewable from 180 degrees with a visual indication at nine accurate levels. A set of weather resistant connectors to connect to the digital display, to the pressure transducer and to the apparatus power shall be supplied with the foam tank level gauge. Additional (slave) displays (if requested) are to be easily integrated and will receive data from the same source as the master display and no additional transducers shall be required.

SPECIFICATION NO.106

TANK TO PUMP LINE

- A. The connection between the tank and the pump shall be capable of the flow recommendations as set forth in NFPA Pamphlet 1901, latest revision and shall be tested to those standards when the pump is being certified. One (1) non-collapsible flexible hose(s) and valve(s) shall be incorporated into the tank to pump plumbing to allow movement in the line as the chassis flexes to avoid damage during normal road operation.
- B. Four (4) inch stainless steel schedule 10 or Poly-Vinyl Chloride schedule 40 piping may be used to complete the connection from the tank to pump valve to the water tank.
- C. A 3" Akron Brass 8000 series swing-out valve with a stainless steel ball.
- D. The valve shall be controlled from the side operator's panel.

SPECIFICATION NO.107

TANK TO PUMP FLAPPER VALVE

There shall be a tank to pump flapper valve, conforming to NFPA standard requirements, which shall be of bronze construction. The flapper valve shall be mounted as an integral part of the pump suction extension.

SPECIFICATION NO.108

TANK FILL LINE

- A. One (1) 2" tank fill/recirculating line shall be installed from the pump directly to the booster tank.
- B. A 2" Akron Brass 8000 series swing-out valve with a stainless steel ball.
- C. The valve shall be controlled from the side operator's panel.

SPECIFICATION NO.109

BODY CONSTRUCTION

- A. The apparatus body shall be a Space Frame design, which serves as durable, structural body framework. This framework acts as a series of beams and columns that support and protect the body and its contents. The space frame design provides maximum torsional resistance and load capabilities. The entire space frame structure shall be welded together utilizing an A.W.S. Certified welding procedure.
- B. The space frame design shall also be required because it provides energy absorbing impact zones in the structure, thus providing increased safety to the rest of the apparatus and personnel on board. Documented proof of this extra safety shall be required upon request.
- C. The body structure shall consist entirely of closed section members, except where the body is mounted to the chassis. Closed section members (such as square, rectangular, triangular, or round tubes) are required because they provide maximum strength and torsion rigidity. This solid tubular structural style of design ultimately adds longevity to the body structure by eliminating flex and twists in material, creating less stress and fatigue. Body designs that use independent sub-frames will not be acceptable.
- D. Body Structure Members: The space frame body shall have triangular shaped structural members in certain areas of the body. This shape is required to prevent loss of useable compartment space.
Other body structure members shall be square or rectangular. Each structural member will have a nominal outside dimension of 2.5" in at least one direction. The body shall be designed for maximum strength to weight ratio, therefore the gauge of sheet metal and structural members varies from .125 to .250 throughout, dependent on the design requirement.
- E. Body Material Type: All body structural members shall be Aluminum 6061-T6 alloy material. All .125 sheet material shall be Aluminum Alloy 5052-H32 and .250 sheet materials shall be Aluminum Alloy 3003. These alloys are required because it provides optimum all-around performance for strength, manufacturing properties, and corrosion resistance.
- F. Absolutely no dissimilar metals shall be used in the body and its supporting substructure without being separated by a sufficient corrosion and electrolysis inhibitor.
- G. Front Body Compartment Walls: The front compartment walls of both forward most compartments shall be finished with 3/16" aluminum sheet. No overlay material shall be visible from the interior of the compartments.
- H. Rear Body Compartment Walls: The rear compartment walls of both rearward most compartments shall be finished with 3/16" aluminum sheet. No overlay material shall be visible from the interior of the compartments. Access panels from the rear walls shall be strategically placed to ensure access to the rear taillight clusters for any servicing that may be completed.
- I. Compartment Top: The top of the compartments shall be an integral portion of the body. No overlay material shall be visible from the interior of the compartments.
- J. Compartment Floors: The body compartments shall be enclosed with 3/16" aluminum sheet metal as specified above. The compartment floors shall have a 1" lip downward at the door opening side of the compartment. This lip shall integrate with a structural member on the bottom edge and form a "sweep-out" compartment. This design shall also allow for a structural flush fitting door frame and a complete door/weather seal.
- K. Exterior Hose Bed Walls: The exterior hose bed walls shall be an integral portion of the body. The wall shall give a smooth exterior look and finish with no vertical supports tubing visible from the exterior of the truck.

SPECIFICATION NO.110

BODY PAINT COLOR

The apparatus body shall be painted to match Clark County Fire Department yellow N3452 DuPont.

SPECIFICATION NO.111

SPEEDLINER COMPARTMENT FINISH

The compartment interiors shall be coated with Speedliner or equivalent The color shall be medium gray.

SPECIFICATION NO.112

REAR TAILBOARD

- A. The rear tailboard shall be fabricated of the same tubular materials as used in the apparatus body. The tailboard shall be an independent assembly welded to the rear body structural framing to provide body protection and a solid rear stepping platform.
- B. The rear tailboard and body shall be constructed such that the angle of departure shall be no less than 8 degrees at the rear of the apparatus when fully loaded (Per NFPA 1901).

SPECIFICATION NO.113

GENERAL BODY DETAILS

All compartmentation shall be constructed in a sweep out design to be water and dust resistant, and manufactured to the maximum possible storage capacity.

SPECIFICATION NO.114

FASTENERS

All bolts and nuts used in the finish construction of the apparatus shall be coated stainless steel which helps prevent dissimilar metal electrolytic reaction and corrosion. The Manufacturer may be requested to supply evidence of fastener coating and results of salt spray testing when dissimilar metals are used. Any bolt extending into a compartment or into the hose bed area shall have an acorn nut attached or be protected in such manner where sharp edges are avoided.

SPECIFICATION NO.115

SCBA BOTTLE COMPARTMENTS

There shall be two (2) compartments on each side of the apparatus with one forward and one rearward of each wheel well.

SPECIFICATION NO.116

COMPARTMENT VENTILATION

To allow for proper air circulation & flow, each compartment shall have a venting route. The venting locations shall be determined by best-fit for each body configuration. The vents will be chrome louvered plate and installed appropriately on the compartment interior walls.

SPECIFICATION NO.117

SIDE COMPARTMENT UNISTRUT

Vertically mounted Unistrut shall be installed in all apparatus body "SIDE" compartments, to accommodate the installation of shelves, trays, and or other miscellaneous equipment.

SPECIFICATION NO.118

COMPARTMENTATION

The following compartments shall be supplied on the apparatus:

- A. Compartment "L1": There shall be one (1) full height compartment ahead of the rear wheels on the left side of the apparatus. The approximate interior dimensions of this compartment shall be a minimum of 48" wide by 68" high with a depth of 25.5". The framed opening shall measure approximately 46.5" wide by 65" high.
- B. Compartment "L2": There shall be one (1) compartment located directly over the rear wheels on the left side of the apparatus. The approximate interior dimensions of this compartment shall be a minimum of 64" wide by 33" high with a depth of 25.5". The framed opening shall measure approximately 62" wide by 31" high.
- C. Compartment "L3": There shall be one (1) full height compartment located behind the rear wheels on the left side of the apparatus. The approximate interior dimensions of this compartment shall be a minimum of 48" wide by 68" high with an upper depth of 12.5" and the lower portion being transverse into the rear compartment, unless partitions are installed. The framed opening shall measure approximately 46.5" wide by 65" high.
- D. Compartment "R1": There shall be one (1) full height compartment ahead of the rear wheels on the right side of the apparatus. The approximate interior dimensions of this compartment shall be a minimum of 48" wide by 68" high with a depth of 25.5". The framed opening shall measure approximately 46.5" wide by 65" high.
- E. Compartment "R2": There shall be one (1) compartment located directly over the rear wheels on the right side of the apparatus. The approximate interior dimensions of this compartment shall be a minimum of 64" wide by 33" high with a depth of 25.5". The framed opening shall measure approximately 62" wide by 31" high.
- F. Compartment "R3": There shall be one (1) full height compartment located behind the rear wheels on the right side of the apparatus. The approximate interior dimensions of this compartment shall be a minimum of 48" wide by 68" high with an upper depth of 12.5" and the lower portion being transverse into the rear compartment, unless partitions are installed. The framed opening shall measure approximately 46.5" wide by 65" high.

SPECIFICATION NO.119

REAR CENTER COMPARTMENT

- A. "B1" Compartment: There shall be one (1) compartment located at the rear of the apparatus, directly below the hose bed access area.
- B. The approximate interior dimensions of this compartment shall be 43" wide and as high as possible determined by the hose bed height with a depth of 31" dependent on suspension, with the sides of the compartment being open to the side compartments for maximum storage area.
- C. The compartment shall have a roll-up door installed. The framed opening shall be approximately 38" wide and as high as possible determined by the hose bed height.
- D. The compartment will have approximately 35 cubic feet of usable storage space.

SPECIFICATION NO.120

REAR COMPARTMENT UNISTRUT

Vertically mounted Unistrut shall be installed on the back wall of the rear center compartment to accommodate mounting of shelves, trays, tool boards and or other miscellaneous equipment.

SPECIFICATION NO.121

R.O.M ROLL-UP DOORS

- A. R.O.M Corporation brand roll-up doors shall be provided and installed on the apparatus. The door slats shall be of a double wall box frame extrusion. Exterior surface shall be flat and the interior surface shall be concave to prevent loose equipment from jamming the door. The slats will be anodized to prevent oxidation and there shall be inner-locking end shoes on every slat, secured by a punch and dimple process. The slats shall have interlocking joints with a folding locking flange. There shall be a PVC/Vinyl inner seal between each slat to prevent metal to metal contact.
- B. The track shall be of a one piece aluminum design with an attaching flange and finishing flange incorporated into its design to facilitate installation and provide a pleasing finished look without additional trim or caulking. The track shall have a replaceable side seal to resist water and dust intrusion into the compartment. The drip rail shall be fabricated of aluminum and have a built in replaceable wiper seal. The Roll-up door shall have a 4" diameter counterbalance, to assist in lifting while eliminating the risk of accidental closing. The door shall be secured by a full width lift bar, operational by one hand with heavy gloves. The securing method will be of a positive latch device design.

SPECIFICATION NO.122

COMPARTMENT DOOR ALUMINUM SATIN FINISH

Compartment roll up doors shall be satin aluminum finish.

SPECIFICATION NO.123

DOOR OPEN INDICATOR

- A. Each roll up door shall have an integral door open indicator magnet in the lift bar.
- B. If the bar is not properly closed and the transmission is placed into drive or reverse mode with the parking brake released, it shall activate the "Door Open" indicator light in the cab to warn the crew.

SPECIFICATION NO.124

UPPER STORAGE COMPARTMENTS LEFT SIDE

- A. One (1) storage compartment shall be provided and installed on the upper left side of the apparatus body. The approximate length of the compartment shall be 157.50" long. The depth of the compartments shall be determined by the hose bed wall height.
- B. The compartment shall be designed for suction hose storage and shall be of an open top design. The compartment shall have an NFPA compliant cargo net with Velcro through loop at four (4) locations on each side.
- C. There shall be plastic tubing installed for adequate drainage that is routed from corners of the upper compartment floors down to below the lower compartment floor level.

SPECIFICATION NO.125

LED UPPER STORAGE COMPARTMENT LIGHTING LEFT SIDE

- A. Two (2) 48.00" (122cm) LED Tube light model #RX-15T16-5050-122CM shall be installed in each upper body storage compartment.
- B. The light shall be mounted on the upper inside wall of each compartment.
- C. The light shall be on a separate circuit, activating only those lights that have an open compartment door.

SPECIFICATION NO.126

UPPER STORAGE COMPARTMENTS RIGHT SIDE

- A. One (1) storage compartment shall be provided and installed on the upper right side of the apparatus body. The approximate length of the compartment shall be 157.50" long. The depth of the compartments shall be determined by the hose bed wall height.
- B. The compartment shall be designed for long handled tool storage and shall be of an open top design. The compartment shall have an NFPA compliant cargo net with Velcro through loop at four (4) locations on each side.
- C. There shall be plastic tubing installed for adequate drainage that is routed from corners of the upper compartment floors down to below the lower compartment floor level.

SPECIFICATION NO.127

LED UPPER STORAGE COMPARTMENT LIGHTING RIGHT SIDE

- A. Two (2) 48.00" (122cm) LED Tube light model #RX-15T16-5050-122CM shall be installed in each upper body storage compartment.
- B. The light shall be mounted on the upper inside wall of each compartment.
- C. The light shall be on a separate circuit, activating only those lights that have an open compartment door.

SPECIFICATION NO.128

SILL PLATES

Brushed stainless steel sill plates shall be installed at the bottom of each body compartment door opening.

SPECIFICATION NO.129

HOSE STORAGE

- A. A hose bed shall be provided and installed with a minimum of thirty (30) cubic feet of storage space available. The hose bed shall have a slotted 1/4" aluminum flooring installed to allow drainage through the tank cavity to the ground below.
- B. The aluminum flooring shall be manufactured in discrete sections to allow for ease of removal and stability. The area shall be free of sharp edges to protect the hose when loading and unloading.

SPECIFICATION NO.130

HOSE BED AREA

- A. The hose bed area of the apparatus shall be overlaid with brushed stainless steel material.
- B. The walls of the hose bed shall be approximately 85" tall, measured from the bottom edge of the compartments to the top flange.

SPECIFICATION NO.131

VINYL COATED NYLON HOSE BED COVER

- A. There shall be a hose bed cover provided and installed with the apparatus. The cover shall be held in place by extruded aluminum channel on the front and an elastic shock cord sewn into the tarp with brass grommets where the shock cord passes through the hose bed cover on the sides. Hooks shall be provided on the sides to provide a means of attaching the cover to the apparatus. The hooks shall be made of cast aluminum. The cover shall have a flap that extends down over the rear of the hose bed which shall be described below.
- B. The cover shall have a flap that extends down over the rear of the hose bed which shall be fastened by an elastic shock cord sewn into the tarp with brass grommets where the shock cord passes through the hose bed cover. Hooks shall be provided on the lower corners to provide a means of attaching the cover to the apparatus. The hooks shall be made of cast aluminum.
- C. The hose bed cover shall be black in color.

SPECIFICATION NO.132

HOSE BED AREA TRIMMED W/ BRUSHED SST

- A. The vertical corners at the back hose bed shall be trimmed with brushed stainless steel. The trim shall extend from the hose floor level up to the top edge of the body side.
- B. The top rail on the hose bed side walls shall have a trim cap fabricated of 16 gauge brushed 304L stainless steel. The cap shall run the entire length of the hose bed side wall and shall provide a smooth surface with a highly finished appearance. It shall extend down at least 1" on each side of the hose bed side wall.
- C. The hose bed shall accommodate the following hose loads:

<u>Qty.</u>	<u>Size</u>
1000'	5" hose
400'	2-1/2" hose

SPECIFICATION NO.133

HOSE BED DIVIDER(S)

- A. There shall be a divider provided and installed in the hose bed area of the apparatus body.
- B. The divider shall be fabricated of 1/4" thick aluminum plate with a double sided reinforcement and attached to the adjustable slide rails. The rear of the divider shall have a radius to provide a smooth corner. Hose payout shall be unobstructed by the divider.
- C. There shall be a total quantity of two (2) dividers installed in the hose bed.

SPECIFICATION NO.134

HOSE BED DUNNAGE AREA

- A. A vertical bulkhead shall be provided and installed at the front of the hose bed area, just behind the water tank fill tower, forming a storage area that is separated from the hose bed.
- B. The rear face of the bulkhead shall serve as a mounting surface for the hose bed dividers, resulting in the ability to move any hose bed divider across the entire width of the hose bed.

SPECIFICATION NO.135

FENDERETTES

Two (2) polished stainless steel fenderettes shall be provided and installed on body rear wheel well openings, one (1) each side. Rubber welting shall be provided between the body and the crown to seal the seam and restrict moisture from entering. A dielectric barrier shall be provided between the fender crown fasteners (screws) and the fender sheet metal to resist deterioration.

SPECIFICATION NO. 136

TANK CAPACITY

The tank shall be 750 gallons in capacity.

SPECIFICATION NO. 137

WHELEN PSTANK TANK LEVEL GAUGE

There shall be two additional tank level gauge(s) mounted on the left and right side of the apparatus. The tank level gauge(s) shall utilize a Class 1 pressure transducer and driver to provide an accurate reading of the water tank level.

SPECIFICATION NO.138

PRO POLY POLYPRENE TANK

- A. The water tank shall be designed to utilize cavities that have commonly been wasted space. The water tank shall extend up and over the rear center compartment to just behind the rear body wall. The water tank shall fill the void between the main hose bed floor and the top of the rear center compartment. This tank design shall provide for a lower overall tank height, resulting in a lower overall main hose bed height. In addition, this design shall create a lower center of gravity of the vehicle, for improved vehicle handling.
- B. Tank Construction
The booster tank shall be constructed of 1/2" thick polypropylene sheet stock which is a non-corrosive stress relieved thermoplastic. It shall be designed to be completely independent of the body and compartments. All joints and seams are extrusion welded and/or contain the "Bent Edge" and tested for maximum strength and integrity. The top of the booster tank is fitted with lifting eyes designed with a 3 to 1 safety factor to facilitate tank removal.
- C. Cover
The tank cover shall be constructed of 1/2" thick polypropylene and shall be recessed. A minimum of two lifting dowels shall be drilled and tapped 1/2" x 2" to accommodate the lifting eyes.
- D. Baffles
The swash partitions shall be manufactured from 1/2" polypropylene. All partitions shall be equipped with vent and air holes to permit movement of air and water between compartments to provide maximum water flow. All swash partitions interlock and are welded to one another as well as to the walls of the tank.
- E. Mounting
The tank shall have a reinforced 3/4" floor for added strength and durability. The tank shall be isolated from the body substructure cross members with 1/2" x 2 1/2" rubber strips that are 60 durometer in hardness. The tank shall sit nested inside the center body substructure and shall be completely removable without disturbing the body side panels. Tank stops on all four sides will keep the tank from shifting front to back or side to side.

SPECIFICATION NO.139

FILL TOWER

- A. The fill tower opening shall be approximately 13" x 12". The tower will have a 1/4" thick removable polyprene screen and a polyprene hinged type cover that will open if the tank is filled at an excess rate. There shall be a removable 1/4" thick polyprene screen to prevent debris from falling into the tank.
The fill tower shall have a 4" overflow that will discharge underneath the tank, behind the rear wheels. The overflow shall terminate above the tank water level when filled to the rated capacity.
- B. The fill tower shall be located in the left front hose bed.

SPECIFICATION NO.140

SUMP

- A. The sump will be constructed in an 8.0" wide x 8.0" long x 3.0" deep area. The construction material shall utilize 1/2" polyprene and be located in line with the tank suction valve. There shall be a 4" schedule 40 polyprene tube installed that will run from the suction outlet to the sump location. The tank will have an anti-swirl plate located approximately 2" above the sump.
- B. The sump shall have a 3" plug for use in draining and cleaning out the tank.

SPECIFICATION NO.141

OUTLETS

In addition to the tank suction valve outlet located in the sump, there shall be an outlet provided for the tank fill valve. If there are any additional options selected (such as an extra tank suction or direct tank inlets), there shall be additional outlets provided to accommodate these items.

SPECIFICATION NO.142

LADDER AND PIKE POLE STORAGE

- A. The ladders shall be stored within a compartment located beside the booster tank.
- B. All items shall be stored in their own independent section to allow one item to be removed without disturbing another. There shall be polypropylene slide angles installed in each section where applicable, to support the ladders and allow ease of removal. There shall be a stop in the front of each section to prevent the items from sliding forward.
- C. There shall be a vertically hinged door, matching the rear overlay material, on the rear of the compartment with two push button type latches and a chrome handle centered between the push button latches.
- D. If the door is not properly closed and the transmission is placed into drive or reverse mode with the parking brake released, it shall activate the "Door Open" indicator light in the cab to warn the crew.
- E. The compartment shall be located on the right side of the tank, with the ladders lying on their side.
- F. The compartment shall be enclosed through the tank and open at the pumphouse end; where "stops" will be incorporated to prevent the ladders from sliding forward and damaging internal pumphouse components.
- G. The compartment shall be large enough for one (1) 14 foot aluminum roof ladder, one (1) 24 foot two section Duo-Safety aluminum extension ladder, (1) 10 foot folding attic ,and four (4) pike poles to be stowed in individual divided slots, so one item may be removed without disturbing another.
- H. There shall be a stop in the front of each compartment to prevent the items from sliding forward.

SPECIFICATION NO.143

SUCTION HOSE STORAGE RACK

Two (2) suction hose compartment racks shall be provided. Location shall be left side upper compartment.

SPECIFICATION NO.144

ADJUSTABLE SHELF TRACKING

Adjustable aluminum shelf tracking shall be provided in compartments L1, L2, L3, R1, R2, R3 and B1.

SPECIFICATION NO.145

SHELVING

- A. Each shelf shall be fabricated of 3/16" thick aluminum sheet material with the outside and inside edges flanged up to prevent equipment from sliding off. Each shelf shall be as wide as possible to allow proper attachment to uni-strut channels. Each shelf shall be adjustable up and down.
- B. The following shall be provided:
 - 1. A {12.5"} deep shelf shall be supplied and installed in the compartment. Each shelf shall be as wide as possible and there shall be a total quantity of four (4).
 - 2. Each shelf shall be four sided
 - I. Two (2) located in the R-1 compartment.
 - II. Two (2) located in the R-3 compartment.
- C. A {25.5"} deep shelf shall be supplied and installed in the compartment. Each shelf shall be as wide as possible and there shall be a total quantity of seven (7).
- D. Each shelf shall be four sided.
 - 1. Two (2) located in the L-1 compartment.
 - 2. One (1) located in the L-2 compartment.
 - 3. One (1) located in the R-1 compartment.
 - 4. One (1) located in the R-3 compartment.
- E. A shelf shall be installed in the rear center compartment of the apparatus. Each shelf shall be as wide and deep as possible and there shall be a total quantity of one (1).
- F. Each shelf shall be four sided.

SPECIFICATION NO.146

ROLL OUT TRAY L1

- A. Each tray shall be fabricated of 3/16" thick 3003 grade or higher aluminum with four 3" side flanges; corner welded for maximum strength. Each tray shall be as wide and deep as the door allows and secured to (Austin Hardware) "heavy duty" slide assemblies.
- B. The slide assemblies shall incorporate cadmium plated ball bearing roller slides and a standard finger/thumb release system.
- C. The following shall be provided:
 - 1. A {300#} capacity tray with {100%} extension shall be installed to the compartment floor. There shall be a total quantity of one (1).
 - 2. The tray shall have 12" high sides welded in the corners, there shall be a 12" aluminum center divider front to back.
 - 3. One (1) located in the L-1 compartment.

SPECIFICATION NO.147

SWING-OUT TOOL BOARD/ALUMINUM

- A. An aluminum swing-out tool board shall be installed in the compartment as specified. The tool board shall be fabricated within a structural tubular frame, supported on a pivot rod, seated in bearings attached to the compartment floor and upper bracket.
- B. The tool board shall be mounted to uni-strut channels to enable adjustment of the tool panel at various depths within the compartment.
- C. The tool board shall be capable of swinging open to a position perpendicular to the rear wall. A thumb latch and gas shock shall be installed to keep the board in the open and or closed positions.
- D. There shall be a total quantity of one (1).
- E. The tool board shall be hinged at the forward wall of the compartment and be constructed as high as the door will permit, also cannot protrude into the transverse area.
- F. One (1) located in the L-3 compartment.
- G. The pull-out/swing-out style tool board shall have RED reflective striping installed making the perimeter of the tool board more readily visible.

SPECIFICATION NO.148

SIDE RUB RAILS (ALUMINUM CHANNEL)

- A. The lowest edge of the apparatus body side compartments shall be trimmed with brightly anodized aluminum channel rub rail material.
- B. The rub rails shall be approximately 3.00" high with flanges turned outwards for increased rigidity, with each end chamfered to a 45 degree angle. The rub rails shall not be constructed as an integral part of the apparatus body structure, allowing each rub rail to be easily removed in the event of damage.
- C. The rub rails shall be secured with stainless steel fasteners and spaced away from the apparatus body with ½" nylon spacers to help absorb moderate side impacts and prevent the collection of water and debris for easier cleaning.

SPECIFICATION NO.149

RUB RAIL RETRO-FLECTIVE STRIPING

- A. One inch retro-reflective striping shall be applied to the length of each rub rail section making the perimeter of the apparatus more readily visible.
- B. The reflective striping shall be blue in color.

SPECIFICATION NO.150

OVERLAYS

- A. The entire front face of the apparatus body shall have aluminum diamond plate overlays installed. The entire rear face of the apparatus body shall have raw aluminum overlays installed for the installation of chevron striping.
- B. All overlay materials shall be coated with 3M adhesive sealant on the back portion to provide an insulating barrier between dissimilar metals.
- C. The front of the apparatus body, vertical wall overlay shall be integrated with a 1/8" aluminum diamond plate corner trim pieces for edge protection. The vertical edge trim piece shall extend from the top to bottom and shall be fastened at a minimum of three locations, top, middle, and bottom.
- D. The rear face of the apparatus body, vertical wall overlays shall be installed with a 1/8" aluminum diamond plate 1.0" x 1.0" corner trim piece, for edge protection. The vertical edge trim piece shall extend from the top to bottom and shall be fastened at a minimum of three locations, top, middle, and bottom.
- E. The vertical edge trim piece that is protecting the chevron striping surface or that is utilized for the purpose of striping, shall be secured utilizing fasteners only.

SPECIFICATION NO.151

CATWALKS

The catwalks shall be constructed with materials of a non-slip 1/8" embossed aluminum diamond plate, meeting the minimum NFPA standard requirements for slip resistance.

SPECIFICATION NO.152

FOLDING STEPS

- A. CPI illuminated folding step(s) shall be installed on the body as directed by the department or required per NFPA. The top of the stepping surface shall have a knurled finish and an LED light that illuminates the stepping surface. An additional light shall be provided on the step mounting bracket to illuminate the area under the step.
- B. One (1) folding step shall be installed on the right forward wall of the front compartment. This step shall be utilized to access the water tank fill tower of the apparatus. The steps shall also be utilized to gain access to the top of the pump compartment structure and any equipment located in the immediate vicinity.
- C. One (1) 10" long x 1 1/4" diameter handrail constructed of extruded aluminum with a knurled grip, full length red reflective strip and full length illuminated LED light strip shall be installed in a location above the forward step(s) and in accordance with the current edition of NFPA 1901 standard requirements. There shall be a 2" minimum clearance between the bracket and the body.
- D. Three (3) folding steps shall be installed on the right rear vertical face of the body.
- E. One (1) 10" long x 1 1/4" diameter handrail constructed of extruded aluminum with a knurled grip, full length red reflective strip and full length illuminated LED light strip shall be installed in a location above the rearward step(s) and in accordance with the current edition of NFPA 1901 standard requirements. There shall be a 2" minimum clearance between the bracket and the body.
- F. One (1) folding step shall be installed on the left forward wall of the front compartment. This step shall be utilized to access the water tank fill tower of the apparatus. The steps shall also be utilized to gain access to the top of the pump compartment structure and any equipment located in the immediate vicinity.
- G. One (1) 10" long x 1 1/4" diameter handrail constructed of extruded aluminum with a knurled grip, full length red reflective strip and full length illuminated LED light strip shall be installed in a location above the forward step(s) and in accordance with the current edition of NFPA 1901 standard requirements. There shall be a 2" minimum clearance between the bracket and the body.
- H. Three (3) folding steps shall be installed on the left rear vertical face of the body.
- I. One (1) 10" long x 1 1/4" diameter handrail constructed of extruded aluminum with a knurled grip, full length red reflective strip and full length illuminated LED light strip shall be installed in a location above the rearward step(s) and in accordance with the current edition of NFPA 1901 standard requirements. There shall be a 2" minimum clearance between the bracket and the body.

SPECIFICATION NO.153

KNURLED ALUMINUM ILLUMINATED HANDRAILS

- A. All handrails shall be 1 1/4" in diameter, constructed of extruded aluminum with a knurled grip, full length red reflective strip and full length illuminated LED light strip.
- B. There shall be a 2" minimum clearance between the handrail and the body. The light shall illuminate an area adjacent to the handrail and in accordance with the current edition of NFPA 1901 standard requirements.
- C. The following handrails shall be installed at the approximate lengths noted:
- D. Three (3) hand rails installed on the rear of the apparatus. Each hand rail shall provide approximately 48 inches of gripping area for personnel.
- E. Each handrail shall be constructed of extruded aluminum with a knurled grip, full length red reflective strip and full length illuminated LED light strip. There shall be a 2" minimum clearance between the handrail and the body. The light shall illuminate an area adjacent to the handrail and in accordance with the current edition of NFPA 1901 standard requirements.
- F. Two (2) vertical hand rails shall be installed, one on each side, just below the hose bed sides. The remaining hand rail shall be installed horizontally, just below the hose bed area.

SPECIFICATION NO.154

36" HANDRAILS

One (2) 36" horizontal handrail(s) shall be located in the best fit location.

SPECIFICATION NO.155

12" HANDRAILS

Four (4) 12" handrails shall be installed, two (2) horizontal rearward top face of pump panel and two (2) vertical centered in diamond plate in dead lay.

SPECIFICATION NO.156

REAR TOW EYE

There shall be two rear tow eyes installed to the frame rails, one each side, accessible below the rear center compartment. They shall be manufactured of 1" plate steel and each plate shall be bolted to the chassis frame rail with a minimum quantity of (6) grade 8 bolts. The two plates shall be anchored together with 1" steel tubing to prevent swaying of the frame rails during a towing operation.

SPECIFICATION NO.157

LOW-VOLTAGE ELECTRICAL SYSTEM

- A. The apparatus shall be equipped with a Logic Controlled, Low-Voltage (12v) Electrical System, compliant with the latest revision of the NFPA 1901 standard guidelines.
- B. The system shall be capable of performing total load management, load management sequencing, and load shedding via continuous monitoring of the low-voltage electrical system. In addition, the system shall be capable of switching loads (similar to operating as an emergency warning lamp flasher) eliminating the dependency on many archaic electrical components such as conventional flasher modules. The system shall also incorporate provisions for future expansion or system modification.
- C. The low-voltage electrical system shall be designed to distribute the placement of electrical system hardware throughout the apparatus thereby enabling a smaller, optimized wire harness.
- D. The programmable, logic controlled system shall eliminate redundant electrical hardware such as extra harnesses, circuit boards, relays, circuit breakers, and separate electrical or interlock subsystems and associated electronics for controlling various electrical loads and inputs.
- E. As-built electrical system drawings and an apparatus-specific reference of I/O shall be provided in the final delivery manuals. These drawings shall illustrate the electrical system broken down into separate functions, or small groups of related functions. Drawings shall depict circuit numbers, electrical components and connectors from beginning to end. **A single drawing for all electrical circuits installed by the apparatus manufacturer shall not be accepted.**

SPECIFICATION NO.158

LED DOT LIGHTING

- A. There shall be seven (7) lights located on the rear of the apparatus. Three (3) of the lights shall be mounted on the rear of the apparatus, for use as identification lamps. Two (2) lights shall be located on the rear, one each side and two (2) lights on the sides facing the side, for use as clearance lamps.
- B. If the apparatus is 30' or longer there shall be two (2) amber intermediate turn signals (steady burn when not blinking) and two (2) amber intermediate marker lights on the sides of the apparatus (one (1) each per side) between the front and rear axles.
- C. The lights shall be Weldon brand 9186-1500 series LED red and amber markers.

SPECIFICATION NO.159

LED REAR TAIL LIGHT CLUSTER

There shall be a Whelen, LED Quad rear tail light cluster provided and installed in a polished bezel on the rear of the apparatus, one each side. The cluster shall consist of the following specified components:

- A. 1 - Whelen #60 LED series amber turn signal light populated in the shape of an arrow
- B. 1 - Whelen #60 LED red brake light
- C. 1 - Whelen #60 LED clear backup light
- D. 1 - 4X6 spot for the warning lamp specified below

SPECIFICATION NO.160

BACKUP LIGHTS

The backup lights shall illuminate when the apparatus is placed in reverse.

SPECIFICATION NO.161

PUMP COMPARTMENT WORK LIGHT

One (1) LED Tube light(s) model #RX-15T16-5050-21CM shall be installed in the pump compartment module to illuminate the piping and plumbing components. The light(s) shall be activated by a weather resistant toggle switch.

SPECIFICATION NO.162

LED COMPARTMENT LIGHTING

- A. Two (2) LED Tube lights model #RX-15T16-5050 shall be installed in each body compartment. The tube lights shall be centered vertically along each side of the door framing.
- B. The lights in each compartment shall be on a separate circuit, turning on only those lights that have open compartment doors.

SPECIFICATION NO.163

PERIMETER LIGHTS

- A. There shall be four (4) LED underbody perimeter lights provided and installed in addition to the cab chassis lights. One, (1) under each side of the front of the body, and two (2) under the rear step to illuminate the ground around the truck.
- B. Lighting designed to provide illumination under the cab step areas shall be of a switch-able design although, activate automatically when the exit doors are opened. All other ground area lighting shall be of the standard switch-able design.
- C. They shall be manufactured by Trucklite and be model # 44308C.

SPECIFICATION NO.164

UPPER LIGHTING PACKAGE

- A. The following NFPA lighting package, manufactured by Whelen, shall be supplied and installed in the upper areas of the vehicle.
- B. ZONE A: There shall be a Whelen 55" Justice lightbar provided and installed with the apparatus. The light bar shall have four (4) red corner LED's, six (6) forward facing red LED's, and two (2) forward facing white LED's. The lightbar lenses shall be clear.
- C. ZONE C: One (1) pair of Whelen, model M6RC 4"x6"flashing red LED lights with clear lenses and chrome bezels shall be provided and installed on the apparatus.
- D. One (1) each side in the upper rear corners of the apparatus body.
- E. ZONE B&D: There shall be two (2) Whelen model M6RC 4"x6"flashing red LED lights with clear lenses and chrome bezels, provided and installed at the rear of the apparatus, on the upper side corners, one (1) each side.
- F. ZONE B&D: There shall be two (2) Whelen model M6RC 4"x6"flashing red LED lights with clear lenses and chrome bezels, provided and installed one (1) each side in the upper forward side corners of the apparatus body.

SPECIFICATION NO.165

LOWER LED WARNING LIGHTING

- A. The following NFPA lighting package, manufactured by Whelen, shall be supplied and installed in the lower areas of the vehicle.
- B. ZONE A: There shall be two (2) Whelen model M6RC 4"x6"flashing red LED lights with clear lenses and chrome bezels provided, and installed on the front of the apparatus chassis as specified.
- C. ZONES B&D: There shall be four (4) Whelen model LINZ6R 2"x4" flashing red linear LED lights with clear lenses and chrome bezels, provided and installed with the apparatus.
- D. Two (2) on each side of the apparatus, at the wheel well and the rearward rub rail.
- E. ZONES B&D: There shall be two (2) Whelen model M6RC 4"x6" flashing red LED lights with clear lenses and chrome bezels, provided and installed with the apparatus.
- F. One (1) on each side of the apparatus at the front corner.
- G. ZONE C: There shall be two (2) Whelen model 600 series 4"x6" flashing red LED lights with clear lenses and chrome bezels, provided and installed on the rear of the body.

SPECIFICATION NO.166

12 VOLT SCENE LIGHTS

- A. There shall be a Whelen model #9SC0ENZR 12 volt scene light with chrome bezel provided and installed with the apparatus as specified.
- B. There shall be a total quantity of two (2)
- C. The scene lights shall be located on the side of the body, one (1) each side, centered on the body side wall.
- D. The scene light(s) shall be activated by a switch on the rocker switch panel.

SPECIFICATION NO.167

TELESCOPING LIGHTS

- A. There shall be a Whelen Pioneer model #PFP2P, LED dual lamp, 12volt, side mounted, top raise, telescoping scene light installed on the apparatus as specified below. The light pole shall have a friction type lock to hold the pole in the extended position.
- B. There shall be a total quantity of two (2),
- C. The scene light(s) shall have a switch on the pump panel, each side.
- D. A mirrored stainless steel protector shall be installed behind each light head to protect the surface behind the light(s) from being scratched.
- E. Two (2) light(s) shall be mounted on the front of the body, adjacent to the pump panel. The lights shall be located in such a way as when stowed, they do not extend beyond the envelope of the body.

SPECIFICATION NO.168

REFLECTIVE STRIPING

- A. There shall be a 4" inch reflective stripe applied to the chassis and apparatus body as specified:
- B. The reflective striping shall be applied around the perimeter of the front of the apparatus in a straight line.
- C. In addition, when the stripe reaches the front area of the body, the stripe shall jog in an 'S' shape pattern, then continuing around the rear of the apparatus at a slightly higher level. In the 'S' curve area, the stripe shall be shadowed to give it a three dimensional look.
- D. The reflective striping shall be white in color.

SPECIFICATION NO.169

REAR RETRO-REFLECTIVE CHEVRON STRIPING

- A. A minimum of 50 percent of the rear-facing vertical surface, visible from the rear of the apparatus, shall be equipped with Diamond Grade, retro-reflective striping in a chevron pattern, sloping downward and away from the centerline of the vehicle at an angle of 45-degrees. The stripe shall be 6" wide alternating in colors in compliance with the current edition of NFPA 1901.
- B. The retro-reflective chevron striping shall be red and fluorescent yellow in color.

SPECIFICATION NO.170

DOOR LETTERING

Provide and install Clark County matched door legends, reflective "S" stripes and lettering. 10" equipment number shall be provided on three (3) sides - (1) on front bumper driver's side and two (2) on forward side of body (one each side). Equipment number shall be provided on rear doors as large as possible. 20" black reflective numbers 77 shall be provided on the cab roof with the 7 on the driver's side and the 7 on the officer's side.

SPECIFICATION NO.171

LICENSE PLATE MOUNTING

A Cast Products, model LP0004-1-A, cast aluminum fully enclosed license plate bracket shall be installed. The bracket shall incorporate proper lighting (Incandescent Truck-Lite) provisions to illuminate the license plate to meet DOT requirements.

SPECIFICATION NO.172

ZICO WHEEL CHOCKS

One (1) set(s) of NFPA compliant Ziamatic folding wheel chocks model # SAC-44-E shall be supplied with the apparatus.

SPECIFICATION NO.173

GROUND LADDERS

- A. One (1) Alco-Lite 24' two (2) section aluminum extension ladder(s), model PEL-24. shall be supplied with the apparatus.
- B. One (1) Alco-Lite 14' aluminum roof ladder(s) with folding hooks, model PRL-14. shall be supplied with the apparatus.
- C. One (1) Alco-Lite 10' aluminum attic ladder(s), model FL-10. shall be supplied with the apparatus.

SPECIFICATION NO.174

HARD SUCTION HOSE

There shall be two (2) 10' length of 3" clear PVC suction hose(s) with 2.5" couplings shall be supplied with the apparatus.

SPECIFICATION NO.175

WRENCH SETS

- A. Two (2) Akron model 2443 wrench holder sets containing one (1) hydrant wrench and two (2) spanner hose wrenches with mounting bracket shall be supplied with the apparatus.
- B. Two (2) wrench set(s) shall be mounted on the specified apparatus in the noted location(s).
- C. The one (1) spanner wrench(s) shall be install in the left pump operator's panel.
- D. The one (1) spanner wrench(s) shall be installed in the right pump operator's panel.

SPECIFICATION NO.176

STRAINERS

One (1) Kochek Model #BS30U barrel strainer shall be provided. The strainer shall be constructed from anodized aluminum with K-Brite finish and include a tie off loop on the end plate.

DELIVERY:

_____ calendar days (Maximum 120 days after receipt of chassis)

DISCOUNT TERMS OF PAYMENT:

_____%, _____ calendar days.

BIDDER'S LOCAL FACILITY

(If Bidder has multiple local facilities, please attach to bid submittal a list of this information for each facility)

CONTACT MANAGER OR ACCOUNT REPRESENTATIVE NAME

ADDRESS

CITY STATE, ZIP

PHONE NUMBER

FAX NUMBER

EMAIL ADDRESS

ATTACHMENTS TO BID FORM

FAILURE TO SUBMIT REQUIRED ATTACHMENTS AS LISTED BELOW MAY RESULT IN REJECTION OF BID.

1. **Attachment 1**, Subcontractor Information, is attached.

Bidder is responsible to ascertain the number of Addenda issued and hereby acknowledges receipt of the following Addendum: **FAILURE TO ACKNOWLEDGE ALL ADDENDA ISSUED AND USE THE CORRECT BID FORM AS REQUIRED, MAY RESULT IN REJECTION OF BID.**

Addendum No. _____	Addendum No. _____	Addendum No. _____
Addendum No. _____	Addendum No. _____	Addendum No. _____
Addendum No. _____	Addendum No. _____	Addendum No. _____

Bidder hereby offers and agrees to furnish the material(s) and service(s) in compliance with all terms, conditions, specifications, and amendments in the Invitation to Bid and any written exceptions in the offer. We understand that the items in this Invitation to Bid, including, but not limited to, all required certificates are fully incorporated herein as a material and necessary part of the contract.

The undersigned hereby states, under penalty of perjury, that all information provided is true, accurate, and complete, and states that he/she has the authority to submit this bid, which will result in a binding contract if accepted by Clark County, Nevada.

I certify, under penalty of perjury, that I have the legal authorization to bind the firm hereunder:

SIGNATURE OF AUTHORIZED REPRESENTATIVE	LEGAL NAME OF FIRM		
NAME AND TITLE OF AUTHORIZED REPRESENTATIVE (PRINT OR TYPE)	ADDRESS OF FIRM		
PHONE NUMBER OF AUTHORIZED REPRESENTATIVE	CITY, STATE ZIP		
FAX NUMBER OF AUTHORIZED REPRESENTATIVE			
EMAIL ADDRESS	DATE		
BUSINESS LICENSE INFORMATION:			
CURRENT STATE	LICENSE NO.	ISSUE DATE:	EXPIRATION DATE:
CURRENT COUNTY:	LICENSE NO.	ISSUE DATE:	EXPIRATION DATE:
CURRENT CITY:	LICENSE NO.	ISSUE DATE:	EXPIRATION DATE:

FOR INFORMATIONAL PURPOSES ONLY:

The above referenced firm is a MBE WBE PBE SBE VET DVET ESB as defined below.

STATE OF NEVADA BUSINESSES

MINORITY OWNED BUSINESS ENTERPRISE (MBE):

An independent and continuing Nevada business for profit which performs a commercially useful function and is at least 51% owned and controlled by one or more minority persons of Black American, Hispanic American, Asian-Pacific American or Native American ethnicity.

WOMEN OWNED BUSINESS ENTERPRISE (WBE):

An independent and continuing Nevada business for profit which performs a commercially useful function and is at least 51% owned and controlled by one or more women.

PHYSICALLY-CHALLENGED BUSINESS ENTERPRISE (PBE):

An independent and continuing Nevada business for profit which performs a commercially useful function and is at least 51% owned and controlled by one or more disabled individuals pursuant to the federal Americans with Disabilities Act.

SMALL BUSINESS ENTERPRISE (SBE):

An independent and continuing Nevada business for profit which performs a commercially useful function, is not owned and controlled by individuals designated as minority, women, or physically-challenged, and where gross annual sales does not exceed \$2,000,000.

VETERAN OWNED BUSINESS ENTERPRISE (VET):

An independent and continuing Nevada business for profit which performs a commercially useful function and is at least 51 percent owned and controlled by one or more U.S. Veterans.

DISABLED VETERAN OWNED BUSINESS ENTERPRISE (DVET):

A Nevada business at least 51 percent owned/controlled by a disabled veteran.

EMERGING SMALL BUSINESS (ESB):

Certified by the Nevada Governor's Office of Economic Development effective January, 2014. Approved into Nevada law during the 77th Legislative session as a result of AB294.

**ATTACHMENT 1
BID NO. 603715-15
CURRENT PRODUCTION MODEL 4X4 PUMPER**

SUBCONTRACTOR INFORMATION

It is our intent to utilize the following MBE, WBE, PBE, SBE, VET, DVET and ESB subcontractors in association with CONTRACT:

1. Subcontractor Name: _____
Contact Person: _____ Telephone Number: _____
Description of Work: _____
Estimated Percentage of Total Dollars: _____
Business Type: MBE WBE PBE SBE VET
 DVET ESB

2. Subcontractor Name: _____
Contact Person: _____ Telephone Number: _____
Description of Work: _____
Estimated Percentage of Total Dollars: _____
Business Type: MBE WBE PBE SBE VET
 DVET ESB

3. Subcontractor Name: _____
Contact Person: _____ Telephone Number: _____
Description of Work: _____
Estimated Percentage of Total Dollars: _____
Business Type: MBE WBE PBE SBE VET
 DVET ESB

4. Subcontractor Name: _____
Contact Person: _____ Telephone Number: _____
Description of Work: _____
Estimated Percentage of Total Dollars: _____
Business Type: MBE WBE PBE SBE VET
 DVET ESB

5. Subcontractor Name: _____
Contact Person: _____ Telephone Number: _____
Description of Work: _____
Estimated Percentage of Total Dollars: _____
Business Type: MBE WBE PBE SBE VET
 DVET ESB

6. Subcontractor Name: _____
Contact Person: _____ Telephone Number: _____
Description of Work: _____
Estimated Percentage of Total Dollars: _____
Business Type: MBE WBE PBE SBE VET
 DVET ESB

No MBE, WBE, PBE, SBE, VET, DVET or ESB subcontractors will be used.

INSTRUCTIONS FOR COMPLETING THE DISCLOSURE OF OWNERSHIP/PRINCIPALS FORM

The purpose of the Disclosure of Ownership/Principals Form is to gather ownership information pertaining to the business entity for use by the Board of County Commissioners ("BCC") in determining whether members of the BCC should exclude themselves from voting on agenda items where they have, or may be perceived as having a conflict of interest, and to determine compliance with Nevada Revised Statute 281A.430, contracts in which a public officer or employee has interest is prohibited.

General Instructions

Completion and submission of this Form is a condition of approval or renewal of a contract or lease and/or release of monetary funding between the disclosing entity and the appropriate Clark County government entity. Failure to submit the requested information may result in a refusal by the BCC to enter into an agreement/contract and/or release monetary funding to such disclosing entity.

Detailed Instructions

All sections of the Disclosure of Ownership form must be completed. If not applicable, write in N/A.

Business Entity Type – Indicate if the entity is an Individual, Partnership, Limited Liability Company, Corporation, Trust, Non-profit Organization, or Other. When selecting 'Other', provide a description of the legal entity.

Non-Profit Organization (NPO) - Any non-profit corporation, group, association, or corporation duly filed and registered as required by state law.

Business Designation Group – Indicate if the entity is a Minority Owned Business Enterprise (MBE), Women-Owned Business Enterprise (WBE), Small Business Enterprise (SBE), Physically-Challenged Business Enterprise (PBE), Veteran Owned Business (VET), Disabled Veteran Owned Business (DVET), or Emerging Small Business (ESB). This is needed in order to provide utilization statistics to the Legislative Council Bureau, and will be used only for such purpose.

- **Minority Owned Business Enterprise (MBE):** An independent and continuing business for profit which performs a commercially useful function and is at least 51% owned and controlled by one or more minority persons of Black American, Hispanic American, Asian-Pacific American or Native American ethnicity.
- **Women Owned Business Enterprise (WBE):** An independent and continuing business for profit which performs a commercially useful function and is at least 51% owned and controlled by one or more women.
- **Physically-Challenged Business Enterprise (PBE):** An independent and continuing business for profit which performs a commercially useful function and is at least 51% owned and controlled by one or more disabled individuals pursuant to the federal Americans with Disabilities Act.
- **Small Business Enterprise (SBE):** An independent and continuing business for profit which performs a commercially useful function, is not owned and controlled by individuals designated as minority, women, or physically-challenged, and where gross annual sales does not exceed \$2,000,000.
- **Veteran Owned Business Enterprise (VET):** An independent and continuing Nevada business for profit which performs a commercially useful function and is at least 51 percent owned and controlled by one or more U.S. Veterans.
- **Disabled Veteran Owned Business Enterprise (DVET):** A Nevada business at least 51 percent owned/controlled by a disabled veteran.
- **Emerging Small Business (ESB):** Certified by the Nevada Governor's Office of Economic Development effective January, 2014. Approved into Nevada law during the 77th Legislative session as a result of AB294.

Business Name (include d.b.a., if applicable) – Enter the legal name of the business entity and enter the "Doing Business As" (d.b.a.) name, if applicable.

Corporate/Business Address, Business Telephone, Business Fax, and Email – Enter the street address, telephone and fax numbers, and email of the named business entity.

Nevada Local Business Address, Local Business Telephone, Local Business Fax, and Email – If business entity is out-of-state, but operates the business from a location in Nevada, enter the Nevada street address, telephone and fax numbers, point of contact and email of the local office. Please note that the local address must be an address from which the business is operating from that location. Please do not include a P.O. Box number, unless required by the U.S. Postal Service, or a business license hanging address.

Number of Clark County Nevada Residents employed by this firm. (Do not leave blank. If none or zero, put the number 0 in the space provided.)

List of Owners/Officers – Include the full name, title and percentage of ownership of each person who has ownership or financial interest in the business entity. If the business is a publicly-traded corporation or non-profit organization, list all Corporate Officers and Directors only.

For All Contracts – (Not required for publicly-traded corporations)

- 1) Indicate if any individual members, partners, owners or principals involved in the business entity are a Clark County full-time employee(s), or appointed/elected official(s). If yes, the following paragraph applies.

In accordance with NRS 281A.430.1, a public officer or employee shall not bid on or enter into a contract between a government agency and any private business in which he has a significant financial interest, except as provided for in subsections 2, 3, and 4.

- 2) Indicate if any individual members, partners, owners or principals involved in the business entity have a second degree of consanguinity or affinity relation to a Clark County full-time employee(s), or appointed/elected official(s) (reference form on Page 2 for definition). If **YES**, complete the Disclosure of Relationship Form. Clark County is comprised of the following government entities: Clark County, Department of Aviation (McCarran Airport), and Clark County Water Reclamation District. Note: The Department of Aviation includes all of the General Aviation Airports (Henderson, North Las Vegas, and Jean). **This will also include Clark County Detention Center.**

A professional service is defined as a business entity that offers business/financial consulting, legal, physician, architect, engineer or other professional services.

Signature and Print Name – Requires signature of an authorized representative and the date signed.

Disclosure of Relationship Form – If any individual members, partners, owners or principals of the business entity is presently a Clark County employee, public officer or official, or has a second degree of consanguinity or affinity relationship to a Clark County employee, public officer or official, this section must be completed in its entirety.

DISCLOSURE OF OWNERSHIP/PRINCIPALS

Business Entity Type (Please select one)						
<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Partnership	<input type="checkbox"/> Limited Liability Company	<input type="checkbox"/> Corporation	<input type="checkbox"/> Trust	<input type="checkbox"/> Non-Profit Organization	<input type="checkbox"/> Other
Business Designation Group (Please select all that apply)						
<input type="checkbox"/> MBE	<input type="checkbox"/> WBE	<input type="checkbox"/> SBE	<input type="checkbox"/> PBE	<input type="checkbox"/> VET	<input type="checkbox"/> DVET	<input type="checkbox"/> ESB
Minority Business Enterprise	Women-Owned Business Enterprise	Small Business Enterprise	Physically Challenged Business Enterprise	Veteran Owned Business	Disabled Veteran Owned Business	Emerging Small Business
Number of Clark County Nevada Residents Employed:						
Corporate/Business Entity Name:						
(Include d.b.a., if applicable)						
Street Address:				Website:		
City, State and Zip Code:				POC Name:		
				Email:		
Telephone No:				Fax No:		
Nevada Local Street Address:				Website:		
(If different from above)						
City, State and Zip Code:				Local Fax No:		
Local Telephone No:				Local POC Name:		
				Email:		

All entities, with the exception of publicly-traded and non-profit organizations, must list the names of individuals holding more than five percent (5%) ownership or financial interest in the business entity appearing before the Board.

Publicly-traded entities and non-profit organizations shall list all Corporate Officers and Directors in lieu of disclosing the names of individuals with ownership or financial interest. The disclosure requirement, as applied to land-use applications, extends to the applicant and the landowner(s).

Entities include all business associations organized under or governed by Title 7 of the Nevada Revised Statutes, including but not limited to private corporations, close corporations, foreign corporations, limited liability companies, partnerships, limited partnerships, and professional corporations.

Full Name	Title	% Owned (Not required for Publicly Traded Corporations/Non-profit organizations)

This section is not required for publicly-traded corporations. Are you a publicly-traded corporation? Yes No

1. Are any individual members, partners, owners or principals, involved in the business entity, a Clark County, Department of Aviation, Clark County Detention Center or Clark County Water Reclamation District full-time employee(s), or appointed/elected official(s)?

Yes No (If yes, please note that County employee(s), or appointed/elected official(s) may not perform any work on professional service contracts, or other contracts, which are not subject to competitive bid.)
2. Do any individual members, partners, owners or principals have a spouse, registered domestic partner, child, parent, in-law or brother/sister, half-brother/half-sister, grandchild, grandparent, related to a Clark County, Department of Aviation, Clark County Detention Center or Clark County Water Reclamation District full-time employee(s), or appointed/elected official(s)?

Yes No (If yes, please complete the Disclosure of Relationship form on Page 2. If no, please print N/A on Page 2.)

I certify under penalty of perjury, that all of the information provided herein is current, complete, and accurate. I also understand that the Board will not take action on land-use approvals, contract approvals, land sales, leases or exchanges without the completed disclosure form.

DISCLOSURE OF RELATIONSHIP

List any disclosures below:
(Mark N/A, if not applicable.)

NAME OF BUSINESS OWNER/PRINCIPAL	NAME OF COUNTY* EMPLOYEE/OFFICIAL AND JOB TITLE	RELATIONSHIP TO COUNTY* EMPLOYEE/OFFICIAL	COUNTY* EMPLOYEE'S/OFFICIAL'S DEPARTMENT

* County employee means Clark County, Department of Aviation, Clark County Detention Center or Clark County Water Reclamation District.

“Consanguinity” is a relationship by blood. “Affinity” is a relationship by marriage.

“To the second degree of consanguinity” applies to the candidate’s first and second degree of blood relatives as follows:

- Spouse – Registered Domestic Partners – Children – Parents – In-laws (first degree)
- Brothers/Sisters – Half-Brothers/Half-Sisters – Grandchildren – Grandparents – In-laws (second degree)

For County Use Only:

If any Disclosure of Relationship is noted above, please complete the following:

Yes No Is the County employee(s) noted above involved in the contracting/selection process for this particular agenda item?

Yes No Is the County employee(s) noted above involved in any way with the business in performance of the contract?

Notes/Comments:

Signature

Print Name
Authorized Department Representative