



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
708EC013

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
MICHAEL AUSTIN
304-558-2402

VENDOR

*709030154 218-624-1111
ASPEN AERIALS INC
4303 WEST 1ST STREET

DULUTH MN 55816-0958

SHIP TO

DIVISION OF HIGHWAYS
EQUIPMENT DIVISION
ROUTE 33
BRUSHY FORK ROAD
BUCKHANNON, WV
26201 **304-472-1750**

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
04/10/2008				

BID OPENING DATE: **05/14/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		070-48	\$518,600.00	\$518,600.00
<p>UNDERBRIDGE INSPECTION UNIT-SMALL</p> <p>OPEN END CONTRACT</p> <p>TO PROVIDE UNDERBRIDGE INSPECTION UNIT - SMALL PER THE ATTACHED SPECIFICATIONS.</p> <p>THERE WILL BE A MANDATORY PRE-BID CONFERENCE AT THE STATE CAPITAL COMPLEX, BUILDING 15, 2019 WASHINGTON ST. EAST CHARLESTON, WV 25305 AT 10:00 AM ON 05/01/2008. FAILURE TO ATTEND THE PRE-BID WILL RESULT IN BID DISQUALIFICATION.</p> <p>QUESTIONS: WRITTEN QUESTIONS WILL BE ACCEPTED THROUGH CLOSE OF BUSINESS (5:00 PM EST.) ON FRIDAY 04/25/2008. SEND YOUR QUESTIONS TO: PURCHASING DIVISION ATTENTION: MICHAEL AUSTIN 2019 WASHINGTON STREET EAST CHARLESTON, WV 25305</p> <p>QUESTIONS MAY BE SENT VIA FAX, E-MAIL OR REGULAR MAIL E-MAIL: MICHAEL.D.AUSTIN@WV.GOV FAX: 304-558-4115</p> <p>IT IS THE VENDORS RESPONSIBILITY TO VERIFY THAT THEIR QUESTIONS HAVE BEEN RECEIVED BY CALLING 304-558-2402.</p> <p>EXHIBIT 2</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AND EXTENDS FOR A PERIOD OF ONE (1)</p>						

RECEIVED
 2008 MAY 14 A 9:29
 PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *John W. Stuber* TELEPHONE: (218) 624-1111 DATE: 5/9/08

TITLE: *President* FEIN: 41-1812800 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130



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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING THIRTY (30) DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS, AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK).</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIES BY TH</p>						

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TITLE	FEIN	

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ROBERTS

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<p>STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN EQUIPMENT CONTRACT ORDER (FORM NUMBER WV-35) FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL WV-35 MUST BE SENT TO THE PURCHASING DIVISION OF THE DEPARTMENT OF ADMINISTRATION. AFTER APPROVAL AND ENCUMBRANCE, ONE COPY OF THE PURCHASE ORDER WILL BE RETURNED TO THE SPENDING UNIT AND ONE COPY FORWARDED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT. NO ORDER IS VALID UNLESS APPROVED AND ENCUMBERED BY THE PURCHASING DIVISION.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>REV. 9/98</p> <p>EXHIBIT 6</p> <p>PRICE ADJUSTMENT PROVISION: THE STATE OF WEST VIRGINIA WILL CONSIDER BIDS THAT CONTAIN PROVISIONS FOR PRICE ADJUSTMENTS PRIOR TO THE ORIGINAL EXPIRATION OF THE CONTRACT, PROVIDED THAT SUCH PRICE ADJUSTMENT COVERS BOTH UPWARD AND DOWNWARD MOVEMENT OF THE COMMODITY PRICE, AND THAT ADJUSTMENT IS BASED ON THE "PASS THROUGH" INCREASE OR DECREASE OF RAW MATERIALS AND/OR LABOR, WHICH MAKE UP ALL OR A SUBSTANTIAL PART OF A PRODUCT. ADJUSTMENTS ARE TO BE</p>						

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RODNEY R. HODGINS

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<p>BASED UPON AN ACTUAL DOLLAR FIGURE, NOT A PERCENTAGE. ALL PRICE ADJUSTMENT REQUESTS MUST BE SUBSTANTIATED IN A MANNER ACCEPTABLE TO THE DIRECTOR PURCHASING, E.G. GOVERNMENTAL BENCH MARKS, GENERAL MARKET INCREASE, PUBLISHED PRICE LISTS. SUCH REQUESTS FOR AND INCREASE SHOULD BE RECEIVED IN WRITING BY THE DIRECTOR OF PURCHASING AT LEAST 30 DAYS IN ADVANCE OF THE EFFECTIVE DATE OF THE INCREASE. ANY TIME THE VENDOR REQUESTS A PRICE ADJUSTMENT, THE PURCHASING DIVISION MAY EITHER ACCEPT THE PRICE ADJUSTMENT AND AMEND THE CONTRACT ACCORDINGLY OR REJECT THE ADJUSTMENT IN ITS ENTIRETY AND CANCEL THE CONTRACT.</p> <p>EXHIBIT 4</p> <p>LOCAL GOVERNMENT BODIES: UNLESS THE VENDOR INDICATES IN THE BID HIS REFUSAL TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO COUNTY, SCHOOL, MUNICIPAL AND OTHER LOCAL GOVERNMENT BODIES, THE BID SHALL EXTEND TO POLITICAL SUBDIVISIONS OF THE STATE OF WEST VIRGINIA. IF THE VENDOR DOES NOT WISH TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO ALL POLITICAL SUBDIVISIONS OF THE STATE, THE VENDOR MUST CLEARLY INDICATE SUCH REFUSAL IN HIS BID. SUCH REFUSAL SHALL NOT PREJUDICE THE AWARD OF THIS CONTRACT IN ANY MANNER.</p> <p>REV. 3/88</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.:</p> <p>ADDENDUM ACKNOWLEDGEMENT</p>						

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<p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1 .. X</p> <p>NO. 2</p> <p>NO. 3</p> <p>NO. 4</p> <p>NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF TH ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: right;"> <i>John Stuenkel</i> SIGNATURE <i>Aspen Aerials Inc.</i> COMPANY 5/9/08 DATE </p>						

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<p>REV. 11/96</p> <p>VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>() BIDDER IS A CORPORATION NONRESIDENT VENDOR WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE</p>						

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<p>FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;</p> <p>OR</p> <p>() BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p>						

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<p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: <i>Aspen Aerials Inc</i></p> <p>DATE: <i>5/9/08</i></p> <p>SIGNED: <i>John Stuber</i></p> <p>TITLE: <i>President</i></p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p>						

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NOTICE						
A SIGNED BID MUST BE SUBMITTED TO:						
DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:						
SEALED BID						
BUYER:				33		
RFQ. NO.:				708EC013		
BID OPENING DATE:				05/14/2008		
BID OPENING TIME:				1:30 PM		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:						
				<i>(218) 624-1714</i>		
CONTACT PERSON (PLEASE PRINT CLEARLY):						
				<i>John Stubenvoll</i>		

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

PROCUREMENT SPECIFICATIONS
NO. 933-1-D

UNDERBRIDGE INSPECTION UNIT - SMALL

1.0 PURPOSE

It is the purpose of these specifications to describe an Underbridge Inspection Unit - Small (hereinafter referred to as a "underbridge inspection unit - small" or a "unit") to be purchased for use by the West Virginia Division of Highways (DOH).

2.0 BIDDING PROCEDURES

The current purchasing procedures regarding bidding as established by the Department of Administration, Purchasing Division, shall apply. Failure to submit the " Request for Quotation" forms, complete in its entirety and according to directions indicated, may subject the bidder to disqualification. **Each bid submitted shall also be accompanied by a Bidder's Evaluation Report completed in detail.** Addendums in order, along with exception sheets, should be with Bidder's Evaluation Report. **FAILURE TO SUBMIT THE BIDDER'S EVALUATION REPORT, COMPLETE IN ITS ENTIRETY, MAY RESULT IN AUTOMATIC DISQUALIFICATION.**

3.0 SPECIFICATIONS

The specifications named herein, mandatory and non-mandatory, establish the acceptable level of quality only and are not intended to reflect a preference or favor any particular brand or vendor.

3.1 EXCEPTIONS TO NON-MANDATORY SPECIFICATIONS

Exception to a non-mandatory unit specification may be made by the bidder, providing the exception is not available from the manufacturer. **Any such exception must be noted on the bidder's evaluation report and should be accompanied by supporting documentation/literature from the manufacturer. Any exception must be indicated on a separate attachment to the bidder's evaluation report and labeled as "Exception to Specifications".** The state reserves the right to determine whether the stated exception does or does not reduce the quality and performance of the unit. Failure to provide information for any exceptions may be grounds for rejection of the bid. The state reserves the right to waive minor irregularities in bids or specifications in accordance with §148-1-4(f) of the WV Legislative Rules and Regulations.

3.2 MANDATORY SPECIFICATIONS

All specifications preceded by "shall, will, and/or must" or are stated as a "minimum and/or maximum" are mandatory as stated in Purchasing Divisions Policies and Procedures. Any bid failing to meet any mandatory item shall be immediately disqualified. Failure to respond in the appropriate evaluation section may also be grounds for immediate disqualification at the discretion of the State.

A mandatory pre-bid conference is scheduled for this equipment purchase as stated in the RFQ. Vendors having products with variations or exceptions in specified mandatory items are expected to address any such variations or exceptions during the pre-bid conference. **The State shall review and consider any such variation or exception, and may at its sole discretion, issue an addendum to change mandatory specifications deemed to be in the State's best interest. Bids from any vendor failing to attend the mandatory pre-bid shall be disqualified. Bids containing any variation or exception to a mandatory specification that was not addressed during the pre-bid conference and accepted by the issuance of an Addendum shall be disqualified.**

4.0 REPRESENTATIVE UNIT FOR TEST

The successful vendor must (if specified) provide DOH one (1) completed representative unit to be observed and evaluated on each order to insure compliance with specification. If requested, the time period for testing and evaluation shall be seven (7) working days following receipt of the unit. DOH will incur no obligation for deterioration of surfaces, finishes, seals, and mechanical or electrical parts on the unit resulting from operation and testing within the limits of these specifications; nor will DOH incur obligation for damage to the unit resulting from failure to meet specifications when due care and attention is given by DOH and testing is done within the limits of these specifications. Failure of the pilot unit to satisfactorily meet specifications as bid shall be cause for cancellation of the purchase order, and return of the delivered unit along with all associated equipment to the vendor at the vendor's expense.

4.1 CONDITION OF UNIT(S) UPON DELIVERY

All units must arrive at the prescribed delivery point having been completely preserviced with oil, lubricants, and coolant. All prescribed precautions pertaining to first operations and break-in of the unit are to be posted conspicuously on the unit for ready observance by the operator.

4.2 DELIVERY

Delivery point of the completely assembled representative unit will be the DOH, Equipment Division, Route 33 at Brushy Fork Road, Buckhannon, West Virginia (26201).

The vendor is responsible for guaranteeing delivery of the completed units within the time specified and agreed to by the State. Delivery is preferred within 120 days after receipt of purchase agreement. The vendor is responsible for establishing and coordinating delivery terms with allied manufacturers or suppliers. **Delivery terms shall be stated in the bid and the State reserves the right to accept or negotiate such terms.** Failure to reach an agreement may result in rejection of the bid.

The successful bidder shall provide their manufacturer's confirmation of the order to the WVDOH contact person within seven (7) working days after receiving the approved purchase order.

Delivery is an integral part of this specification and failure to comply will be cause to initiate a D.O.T. Administrative Form WV-82, Vendor Performance Form. The WV-82 Form will provide a means of officially notifying the Purchasing Division and the vendor of unsatisfactory performance; such as late deliveries, poor service, inadequate parts supplies, etc.

The decision to initiate subject Form will be at the sole discretion of the D.O.H. Commissioner's established Equipment Review Board.

Issuance of the WV-82 Vendor Complaint Form on unsatisfactory delivery against any vendor will be cause to refuse to consider similar items from those vendors on future Request For Quotations.

(NOTE: Delivery time could be altered due to labor strikes, severe inclement weather conditions, etc.)

5.0 AWARD CRITERIA

- 5.1 DOH will recommend the award in accordance with the RFQ evaluation criteria described in the requisition. **The award shall be made to the lowest unit cost vendor that meets or exceeds the specifications.**

DOH reserves the right to place multiple orders in any quantity.

6.0 SPECIFICATIONS AND GUIDELINES - GENERAL

6.1 IDENTIFICATION OF THE UNIT BEING PROPOSED

The bidder must identify the unit by manufacturer, model, series, and year of manufacture, in the bid to enable identification by DOH in the manufacturer's specifications of the proposed unit. The bidder will submit complete descriptive literature of the proposed unit, to establish that the bid is the manufacturer's most current model, including latest engineering improvements, which have been, or will imminently be, regularly advertised and sold on the open market. The unit specified herein and offered to be manufactured after January 1, 2008 and be clearly identified and marked with date of manufacture.

6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS

An operator's manual must be included with each unit upon delivery. A "line sheet" (if applicable) and Equipment Preventative Maintenance Questionnaire (as shown in X6.2 of the Bidder's Evaluation Report) must be with pilot unit upon delivery. In addition, there must be three (3) service, shop, or maintenance manuals; one (1) to be distributed to the District and two (2) for the Equipment Division. Also, there must be five (5) parts manuals; one (1) to be distributed to the District and four (4) for Equipment Division use. CD ROM is preferred in lieu of parts manuals.

NOTE: MANUALS SHALL BE DELIVERED UPON COMPLETION OF DELIVERY OF TOTAL UNITS. FAILURE TO DO SO WILL DELAY PAYMENT.

6.3 TRAINING:

Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects of Preventative Maintenance, Operator and Mechanic Training. **In order to keep the operators and mechanics updated, the successful vendor shall conduct training with each purchase order against this open end contract.** Training is preferred within 2 working days after delivery of the pilot unit on the individual purchase order.

Manufacturers and/or dealers shall be required to furnish the Training Academy with one (1) Operator's Manual to be shipped direct to WVDOH Training Academy, Post Office Box 610, Buckhannon, West Virginia 26201 prior to delivery of the pilot.

The seminar to be held at the W. Va. Division of Highways, Equipment Division, Buckhannon, West Virginia.

6.4 PREVENTIVE MAINTENANCE AND OPERATOR PROCEDURES:

Manufacturers and/or dealers will be required to submit to the Equipment Division, in addition to the operating and service manuals, booklets and pamphlets explaining the Preventive Maintenance and Operator Procedures to be used by the operators of this equipment, and must include such things as daily prestart inspection procedure, service schedule, and routine maintenance required, safety precautions, etc.

The successful vendor shall furnish all training aids; i.e., videos, projectors, etc. required in conducting the training.

6.5 WARRANTY AND SERVICE POLICY

The Manufacturers warranty or service policy is to apply to the unit. Such warranty or service policy is to be recognized at any authorized unit dealer, representing manufacturer of proposed unit throughout the State of West Virginia. The applicable warranty or service policy will not be contingent upon obtaining routine service, lubrication, and servicing of the unit from factory authorized agencies. It will be the responsibility of the bidder to have available labor to repair or replace any defective replacement parts, components and materials, and to have available those replacement parts, components, and/or materials found to be defective during the terms of the warranty period. The bidder should state the labor rates, locations where parts will be stocked, availability of parts, and discounts offered for parts, when terms of the warranty offer a pro-rated cost for parts and labor. In addition, the successful bidder should offer field work to repair or replace defective parts, components, and materials found to be defective during the terms of the warranty and should provide mechanic's travel rates, mileage charges, field mechanic rates, and any surcharge for miscellaneous items, if applicable, for field work during the warranty period. Submit to Division of Highways any technical or engineering improvements during the term of the warranty.

The unit must be accompanied upon delivery by the unit's manufacturer's executed warranty or service policy.

A mandatory minimum two (2) year bumper to bumper basic parts and labor warranty is required for this unit.

THE "WARRANTY AND SERVICE POLICY QUESTIONNAIRE" ATTACHED IN THE BIDDER'S EVALUATION REPORT MUST BE COMPLETED IN ITS ENTIRETY BY THE SUCCESSFUL BIDDER OR MANUFACTURER PRIOR TO DELIVERY OF THE PILOT MODEL. (SEE SECTION X6.5 OF BIDDER'S EVALUATION REPORT).

6.6 EVALUATION COMMITTEE REQUIREMENTS

Detailed component specifications, product literature, component models, required for specification compliance determination by the Evaluation Committee should be provided with each bid. Any information supplied that is contrary to/or conflicting with the specifications and/or attached Bidders Evaluation Report may be sufficient cause for rejection of bid.

6.7 UNSPECIFIED ACCESSORIES & FEATURES

All parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, must be furnished with each unit and required to conform to strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry.

All parts and accessories advertised and regularly supplied as standard shall be included, except those which would represent duplication of these specified, and except those which, by specification, are not to be furnished. All standard safety features, required by Federal and State Law, shall be included.

7.0 SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:

7.0 SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:

7.1 Unit able to position three (3) workmen and their tools 40 feet horizontally under bridge to perform maintenance.

7.1.1 Unit shall be capable of placing the workmen and/or inspector(s) in positions above, under and outside bridge in such a manner that the workmen and/or inspector(s) can make physical contact with areas as indicated.

7.2 Unit must operate within an eight-(8) foot, six-(6) inches of the traffic lane width.

7.3 CHASSIS:**7.3.1 Unit to be a minimum of 66,000 GVWR****7.3.2 Cab Trunnion to be 156 inches – 158 inches maximum****7.3.3 Frame: The minimum acceptable frame side rail shall meet or exceed the required section modulus of 30 cubic inches minimum with 110,000 psi steel and an RBM of 3,300,000 inch pounds minimum (Section modulus, RBM, frame reinforcement and chassis shall meet underbridge inspection aerial device manufacturers minimum requirements.)****7.3.3.1 Axle shall be 20,000 pounds, minimum, capacity.****7.3.3.2 Front axle shall have visible front oil seals.****7.3.3.3 Front axle shall have 20,000 pound capacity suspension with heavy duty shock absorbers.****7.3.4 Rear Axle to be a tandem with 46,000 pounds minimum capacity, single speed with power divider, and provided with 46,000 pound Hendrickson RT-460 Type Suspension or equal****7.3.4.1 Rear Axle gear ratio shall allow the vehicle to travel between 65-70 MPH.****7.4 TRANSMISSION:****7.4.1 Transmission shall be an Allison Model HD4060 or H4560 or equal automatic****7.4.2 Transmission shall be equipped with an overheat warning system.****7.5 PTO:****7.5.1 The power take-off shall be transmission mounted power shift, cab controlled.****7.5.1.1 PTO shall be equipped with an engaged light.****7.6 ENGINE:****7.6.1 Engine shall be a diesel powered unit.****7.6.2 Engine to be 350 horsepower minimum****7.6.3 Engine provided with remote PTO throttle control capability for unit specified.****7.6.4 Engine shall have two (2) speed governor****7.6.5 Cooling system will be checked and filled to the proper level and will contain OAT extended life permanent type antifreeze to test -40 degrees Fahrenheit.**

- 7.6.6 Engine has heavy duty dry type air cleaner.
- 7.6.7 Manufacturer recommended oil filter and fuel filters for entire unit.
- 7.6.8 Unit to have horizontal muffler and vertical tailpipe with bright shield to protect personnel from burns.
- 7.6.9 **Exhaust system shall not interfere with the operation of the body or underbridge inspection unit.**
- 7.6.10 Unit to have high temperature protection warning light with gauges for oil pressure and coolant temperature.
- 7.6.11 Engine to have a water filter system.
- 7.6.12 Unit to have a heavy duty radiator and coolant system.
- 7.7 CAB:
 - 7.7.1 **Cab shall be all steel or aluminum, standard conventional.**
 - 7.7.2 **Cab will be provided with a tilting hood.**
 - 7.7.3 **Unit will have fenders equipped with a stone and gravel radiator guard.**
 - 7.7.4 **Unit will have seats and seat belts for driver and one (1) passenger.**
 - 7.7.4.1 **Driver seat shall be air ride fully adjustable bucket seat, Bostrom, National or approved equal**
 - 7.7.4.2 **Passenger seat shall be non-adjustable cushioned bucket seat.**
 - 7.7.5 **Electrical system shall include a minimum of three (3) 12-volt, 1,875 CCA batteries maintenance free or approved equal.**
 - 7.7.6 Battery box with cover provided
 - 7.7.7 **Alternator shall provide a minimum of 130 amp capacity.**
 - 7.7.8 **Lights on cab and chassis shall be manufacturer standard.**
 - 7.7.9 **Lights on body shall be Trucklite Super Seal System or approved equal.**
 - 7.7.10 To have switch in cab to operate roof lights.
 - 7.7.11 **A single horn shall be provided.**

- 7.7.12 **Unit shall have manufacturer standard 12-volt DC backup alarm system, minimum 97db.**
- 7.7.13 Unit to have an insulated headliner and back panel.
- 7.7.14 Unit to have dual sun visors.
- 7.7.15 Unit to have armrests and door pulls.
- 7.7.16 Unit to have windshield washer with 2-speed wipers with intermittent features.
- 7.7.17 **Headlights will be properly adjusted.**
- 7.7.18 Unit to have dome light.
- 7.7.19 Unit to have floor mats.
- 7.7.20 Unit to be provided with exterior grab handles.
- 7.7.21 Unit to have two (2) outside stainless steel, West Coast mirrors, 16 inch x 7 inch with bolt on 6 inch diameter round convex mirrors both sides.
- 7.7.21.1 Mirrors to be heated and right hand to be power adjustable.
- 7.7.22 Unit to have heater and defroster, heavy duty fresh air type.
- 7.7.23 Unit to be provided with dual fuel tanks, **minimum 100 gallon capacity.**
- 7.7.24 Unit to have power steering.
- 7.7.25 **Unit shall include all manufacturer standard instrumentation.**
- 7.7.26 **Unit shall have air conditioning. A.PAD. system or equal.**
- 7.7.27 Unit to be provided with AM-FM radio
- 7.7.28 Unit to be provided with air horns.
- 7.7.29 Cab to have tilt/telescoping steering wheel.
- 7.7.30 Unit to include kit for CB radio with power and ground wiring to include co-ax cable, antenna and speaker (radio to be provided and installed)
- 7.7.31 Bug shield to be light smoke or transparent type.
- 7.8 TIRES:
- 7.8.1 **Front: 425/65R22.5, 20 ply mounted on 12.25 steel disc wheels, minimum.**
- 7.8.2 Rear: 11R22.5, 16 ply mounted on 8.25 steel disc wheels.

7.9 BRAKE SYSTEM:

- 7.9.1 Brakes shall be air actuated.
- 7.9.2 The air compressor shall have a minimum capacity of 13 CFM with air dryer with heater and automatic moisture drain.
- 7.9.3 The system shall have a dash mounted warning light for low air pressure.
- 7.9.4 The system shall have automatic slack adjuster for each wheel.
- 7.9.5 Unit air pressure gauge to be dash mounted.
- 7.9.6 Unit to have air release parking brake with dash mounted light.
- 7.9.7 Unit to be provided with a Jacobs engine brake or approved equal.

7.10 RUST PROOFING AND UNDERCOATING:

- 7.10.1 Deck body shall include complete coverage of all inner surfaces requiring protection by means of properly atomized spray.
- 7.10.2 Material shall penetrate all seams and crevices.
- 7.10.3 Drain holes or passages shall not be blocked.
- 7.10.4 Exterior of vehicle shall be free of rust proofing compound except cracks crevices and seams of decorative moldings.
- 7.10.5 Full undercoating shall be applied in a continuous and uniform thick coating from 1/16 inch to 1/8 inch to all underbody sheet metal except drive shaft, drain holes, lubrication points, engine crank-case, heavy casting and suspension components shall be kept free of coating material.

7.11 PAINT:

- 7.11.1 Cab Exterior and Interior to be painted Federal Standard 595A Number 17875 White.
- 7.11.2 Chassis to be painted Manufacturer's Standard Black.
- 7.11.3 Manufacturer's standard grille paint similar to silver of aluminum in color. Grilles made from bright finish or bright plated materials do not require painting.
- 7.11.4 Manufacturer's standard wheels powder coated paint similar to gray or white in color.
- 7.11.5 Detail and Decorative Stripes with Logo:
 - 7.11.5.1 Approximately 2 inch width with taper at front of hood.

- 7.11.5.2 WVDOH logo (to be supplied by WVDOH) is attached (black and white copy) and is approximately 7 inches tall by 7 inches wide. Area behind logo and within ½ inch of logo is not to be striped.
- 7.11.5.3 Upper Stripe Color: Dark Blue.
- 7.11.5.4 Lower Stripe Color: Light Gold.
- 7.11.5.5 **Striping material shall meet or exceed the requirements of ASTM D4956-91 type V sheeting, a super high-intensity retroreflective sheeting consisting of microprismatic retroreflective elements. The conspicuity sheetings must meet requirements of NHSTA, D.O.T. 49CFR Part 571 Federal Motor Vehicle Safety standards and be D.O.T. approved.**
- 7.11.5.6 **The sheeting for striping shall not be more than .009" thick having approximately 47,000 microprisms per square inch and shall come with an aggressive high tach pressure sensitive adhesive. Reflexite or equal.**
- 7.11.5.7 Successful Bidder should consult with the WVDOH of proposal for striping prior to application.
- 7.11.5.8 Bidder should attach his proposed paint plan with this bid. It should include a Proposed striping detail on a cab silhouette sheet. Bidder may modify attached striping plan to fit his particular hood and cab shape.
- 7.11.5.9 In order to test the adhesive quality of the paint, the DOH, may at its option, require that the Vendor measure adhesion by the criteria set forth in ASTM D3359-74 Method B. A rating of Less than 4 on this test would be deemed unacceptable.
- 7.11.6 Manufacturer's standard plant painting procedures for cleaning, degreasing, preparing, priming and painting are sufficient to meet this requirements for painting of cab (white) and chassis (black). **Cab will not be painted white over top another finish color.**
- 7.11.7 The Department reserves the right to review larger paint samples after award of contract and the right to require subtle color changes. **Such changes, if any, will only be used for selecting a suitable paint color to match the WVDOH logo.**
- 7.12 SAFETY EQUIPMENT:
- 7.12.1 Unit to be provided with a first aid kit.
- 7.12.2 Unit to have one (1) reflective triangle set, stored in mountable box.
- 7.12.3 Unit to have a mounted Fire extinguisher.
- 7.12.4 **All other safety equipment shall be mounted per manufacturer recommendation.**

- 8.0 DECK BODY:
- 8.1 The body shall be constructed of 1/4 inch diamond plate steel (minimum).
- 8.2 The deck shall be welded to the heavy duty structural steel crossmembers and longitudinals with side and end rails.
- 8.3 Deck surface shall be finished with non-skid paint.
- 8.4 The body shall have two (2) locations with access steps installed on the left and rear of the deck.
- 8.5 The steps shall be constructed with non skid material.
- 8.5.1 First step shall be 15 inches to 18 inches from ground.
- 8.6 All marker, stop, tail and turn lights to be LED type.
- 8.7 Two (2) under deck tool boxes approximately 24 inches x 24 inches x 48 inches shall be installed. One (1) on the right side and one (1) on the left side of the body.
- 8.7.1 Boxes shall be constructed of 16 gauge steel.
- 8.7.2 Doors shall be downward opening with chain steps and locks.
- 8.7.2.1 Doors shall have automotive neoprene d-type seals for weatherproofing.
- 8.7.3 Boxes shall be painted inside and out.
- 8.7.4 Drain holes shall be provided.
- 8.7.5 Locks and keys shall be provided.
- 8.7.6 The unit shall have four (4) anti-sail flaps installed in front and back of rear tandem wheels.
- 9.0 UNDERBRIDGE INSPECTION UNIT:
- 9.1 Underbridge overall stored length is to be a maximum of 38 feet, zero inches.
- 9.2 Underbridge overall stored height is to be a maximum of 13 feet, 0 inches.
- 9.3 Underbridge overall stored width is to be a maximum of 8 feet, 6 inches.
- 9.4 All components of the aerial device shall be stored inside the length and width of the flatbed body.

- 9.5 Unit shall have both pedestal and subframe constructed of high strength steel.
- 9.5.1 Pedestal and subframe shall have sufficient strength to withstand all torsional stress imposed by the boom assemblies with the maximum rated load in the work platform.
- 9.5.2 Pedestal shall be mounted behind the truck cab.
- 9.5.3 Pedestal shall be welded to a tubular or beam type subframe, which shall extend the full length of the chassis frame.
- 9.5.4 The subframe shall be fastened to the chassis frame with mounting plates and grade 8 bolts.
- 9.6 Unit to have two (2) hydraulic rotation turrets.
- 9.6.1 The main turret shall be mounted on top of the pedestal and hinged to the main boom (No.1).
 - 9.6.1.1 It shall rotate the booms off of both sides of the vehicle.
- 9.6.2 The second turret shall be mounted at the end of Boom No. 1 and hinged to Boom No. 2.
 - 9.6.2.1 It shall rotate a minimum of 180 degrees when platform is deployed.
- 9.6.3 Each turret shall rotate on a heavy duty shear ball type bearing protected against dirt and moisture and provided with means for pressure lubrication.
- 9.6.4 The motor and gear box rotation shall be powered by a reversible hydraulic orbital motor driving a self-locking gear box, which shall prevent free wheeling in case of hydraulic failure.
- 9.6.5 A counterweight shall be attached to the pedestal assembly and shall rotate with the bridge inspection unit on the opposite side and stay within the width of body when the booms are deployed.
- 10.0 BOOMS:
- 10.1 All booms shall be articulating, hydraulically operated.
- 10.2 All telescopic boom sections shall be equipped with high wear capacity nylon support rollers or equal. (There shall be no exposed hose reels.)
- 10.3 The main boom shall hinged to the mainframe pedestal turret and shall clear an eight (8) foot sidewalk

- 10.4 The second boom shall be attached to the end of boom No. 1 and shall be a minimum of 20 feet long. The top of the platform railing shall be 12 feet below the bridge deck.
- 10.5 The platform shall be built out of aluminum, having a hydraulically telescoping section, using a cylinder and be hinged to the end of boom #2. It shall reach 38 feet horizontally under the bridge
- 10.6 Operator must be able to ride the platform over the side of the bridge
- 10.7 Boom swivel pins shall be of high strength steel, turned, ground and polished or chrome plated.
- 10.8 Pins shall be threaded and secured with self-locking nuts.
- 10.9 Swivel bearings shall be of high strength material with provision for lubrication and replacement.
- 10.10 Booms shall have full hydraulic powered cylinders.
- 10.11 All cylinders shall be pilot operated, double-acting with integral safety holding valve.
- 10.12 All boom actuation shall be by cylinders that are directly attached to the booms
- 10.13 Cylinder shall be attached to the booms with high strength steel pins.
- 10.14 Cylinder pins may be secured with high strength steel snap rings or roll pins with tolerances that prevent side to side movement of pins.
- 10.15 Cylinder pivot points shall be equipped with self-aligning ball bushings with provision for lubrication.
- 10.16 All grease fittings on unit shall be threaded screw-in type.
- 11.0 PLATFORM:
- 11.1 One (1) 40 foot wide aluminum platform with a minimum 1,500 pound capacity shall be hinged at the end of the second boom and shall automatically be kept level at all times by a self-leveling system.
- 11.2 Platform dimensions shall be a minimum of 40 inches x 33 inches long
- 11.3 An access gate shall be provided at the end of the platform.
- 11.4 A removable one person auxiliary platform shall be provided. It will allow access to taller beams or girder and be capable of being installed on the telescoping section of the main platform.
- 11.5 Covers to be provided for platform.

- 11.6 With the work platform completely extended, the truck can be driven slowly forward or backward to provide continuous or overlapping areas of coverage.
- 11.7 **Three (3) safety harnesses and lanyards shall be furnished.**
- 11.8 **Attachments for safety belts shall be installed in the platform.**
- 12.0 AUXILIARY DIESEL ENGINE AND PTO POWER SOURCES:
- 12.1 **The primary source of power will be a transmission-mounted pump.**
- 12.2 **The back-up source of power for operation of the underbridge inspection aerial device hydraulic and electric systems shall be provided by a liquid-cooled 18 HP minimum diesel engine.**
- 12.3 **Pumps shall have capacity to perform two or more unit movements simultaneously.**
- 12.4 **Auxiliary engine shall have a 12-volt electrical system with keyed ignition, electric starter and alternator.**
- 12.5 **The system shall allow engine to be started from the truck batteries**
- 12.6 **Auxiliary engine shall have a fuel connection to the truck fuel tank(s).**
- 12.7 **Diesel engine shall have a fuel filtration system.**
- 12.8 Engine compartment cover, lockable with keys to allow complete access to engine and hydraulic system components.
- 13.0 HYDRAULIC SYSTEM:
- 13.1 **All movements of the underbridge inspection aerial device shall be made by hydraulic pressure.**
- 13.2 **All hydraulic cylinders shall be double acting with direct-coupled safety check valves as protection, in case of pump or hose failure.**
- 13.3 **Reservoir shall be of steel welded construction with 50-gallon (minimum) storage capacity.**
- 13.4 **Reservoir shall have baffles, clean out access, exterior oil sight level gauge and magnetic drain plug.**
- 13.5 **Hydraulic oil shall be filtered through a return line 10-micron filter with replaceable element.**
- 13.6 **A 100-mesh strainer shall be located on the suction side of the reservoir.**
- 13.7 **All filters shall be accessible for easy element replacement.**

- 13.8 Hydraulic fluid transmission lines shall be flexible hoses.
- 13.9 Flexible hoses shall be wired braid reinforced and shall have a weather and abrasion resistant covering.
- 13.10 Cooler shall be oil to air type.
- 13.11 Pressure gauges shall be provided for hydraulic system to allow for checking manufacturer's specified pressure settings.
- 14.0 CONTROLS AND SAFETY SYSTEM:
- 14.1 Two (2) sets of controls shall be provided.
 - 14.1.1 One (1) set of hydraulically operated controls at the pedestal.
 - 14.1.2 One (1) set of remote radio controls for use on the work platform
- 14.2 In case of electrical failure, the hydraulic pedestal control shall be capable of overriding the platform and the remote controls.
- 14.3 All controls must be equipped with two-way, return to neutral type levers.
- 14.4 All control valves shall have proportional flow control and precise metering capability to provide smooth operation of the unit in all working positions and to insure the safety of operating personnel at all times.
- 14.5 Controls shall be arranged to allow for each individual movement separately or in any combination desired.
- 14.6 Controls shall be located to facilitate maintenance access.
- 14.7 Manual overrides shall be provided for all functions.
- 14.8 Truck and auxiliary engines kill switch shall be installed at each control.
- 14.9 Electric/hydraulic control switch for both front and rear suspension lockouts shall be located at the pedestal within easy reach and view of operator.
- 14.10 Unit to have interlock to prevent operation of underbridge inspection aerial device if suspension lockouts are not engaged.
- 14.11 Unit to have limit switches to prevent rotation or articulation of booms into unstable positions.
- 14.12 Unit to have relief valves and switches to prevent overloading hydraulic system with excessive pressure.
- 14.13 Unit to have emergency kill switches at the basket of truck and auxiliary engines.

- 14.14 Unit to have automatic check valves on hydraulic cylinders in case of pump or hose failure.
- 14.15 Unit to have automatic audible alarm to signal excessive slope conditions.
- 14.16 Unit to have engine shutdown system when low oil pressure, loss of coolant or overheating develops.
- 14.17 A master power control switch shall be provided at the basket to render the basket controls inoperable when the unit is in its work position.**
- 14.18 All boom articulation hydraulic cylinder shafts shall be of nitrate rods to resist corrosion and shall be able to withstand a 100-hour salt spray test.**
- 15.0 TRUCK STABILIZERS:
- 15.1 **The frame shall be equipped with four (4) hydraulically operated suspension lockouts, two at the front axle and two at the rear axle, controlled from the pedestal station.**
- 15.2 **The lockout system shall include indicator lights to alert the operator that the lockouts are engaged or disengaged.**
- 15.3 **Lights shall be installed in the cab and at the pedestal.**
- 15.4 **An interlock shall be installed to prevent operation of the underbridge inspection aerial device when the suspension lockout system is disengaged.**
- 15.5 **A manual override (to allow booms to be stowed in case of system malfunction) shall be installed at the pedestal.**
- 15.6 **When lockouts are engaged, the truck shall be capable of withstanding all tipping forces generated by booms in all positions in both stationary and moving applications.**
- 15.7 Outriggers are unacceptable.
- 16.0 COMMUNICATION SYSTEM:
- 16.1 **An intercommunication system between personnel in the truck cab, the pedestal control station, the ground remote control station and the work platform shall be provided and installed.**
- 16.2 **System shall consist of a fully transistorized amplified (powered by the truck batteries) with on/off switch, volume controls and an integral press-to-talk switch mounted in the truck cab convenient to the driver and at the pedestal.**
- 16.3 **The basket speaker shall be activated in a hands free mode.**

- 16.4 One lightweight headset with an earpiece and microphone.
- 16.5 **Jacks for the headset shall be provided in the cab, truck deck platform, and pedestal location**
- 17.0 ACCESSORIES:
- 17.1 **A minimum 18 CFM @ 100 PSI hydraulically driven air compressor shall be mounted under the truck body.**
- 17.2 **The unit shall include a minimum 30-gallon capacity ASME stamped air receiver tank(s) with safety valve, condensation drain, pressure gauge and shut-off valve.**
- 17.3 **The unit shall have a 1/2-inch I.D. air line with a minimum 125 PSI working pressure rating shall be provided to the work bucket.**
- 17.4 **The air line shall be routed along the booms in protected areas and shall terminate at the bucket with a quick disconnect coupling.**
- 17.5 **Two-(2) 115-volt, three-(3) contact, weatherproof, grounding, receptacles shall be provided at the bucket.**
- 17.6 **Receptacles shall be ground fault interruption protected.**
- 17.7 **Unit shall be equipped with a minimum single phase 60 Hz, AC generator which will be driven by the power take off.**
- 17.8 **Generator shall be a minimum 5 KW for the operation of the electrical outlets.**
- 17.9 **Work platform/bucket shall be equipped with two (2) 1500-watt heaters.**
- 17.10 **The work platform will be equipped with two (2) swivel mounted 12-volt flood lamps.**
- 18.0 LABELS:
- 18.1 **All controls, switches, lights and indicators shall be permanently labeled as to function and where applicable, director of operations, using either engraved plastic or permanently etched metal labels. (Dymo labels will not be acceptable).**
- 19.0 **Vendor must certify that the unit offered will met or exceed the "Occupational Safety and Health Act of 1970" and subsequent amendments.**
- 20.0 Advertising: Visible decals or name plates or painted on names representing the Manufacturer or model number or trademark appearing on the exterior surface of the unit should be minimal.
- 21.0 **The bidder shall submit drawings of the proposed underbridge inspection unit with dimensions and clearances with his bid proposal.**

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

NOTE: BIDDER'S EVALUATION REPORT
Vendor should type Bidder's
Evaluation Report PROCUREMENT SPECIFICATIONS
NO. 933-1-D

OPEN END CONTRACT
UNDERBRIDGE INSPECTION UNIT - SMALL

NOTE TO BIDDER: Procurement Specification No. 933-1-D, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid. Addendums in order, along with a summary of exception as a separate attachment, should be with Bidder's Evaluation Report.
FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

Reference Requisition No.: 708EC13

Bidder's Name: Aspen Aerials, Inc.

Address: 4303 West First Street, Duluth, MN 55807

Telephone Number: (218) 624-1111

Years Bidder has been registered to do business with the State of West Virginia: 15 YRS.

Years Company has been an authorized dealer for proposed unit: 15 YRS.

X3.2 Have you complied with all mandatory specifications? YES NO

X4.2 DELIVERY:

X4.2.1 Delivery date of completed representative unit: 280 Calendar Days After
Receipt of Purchase Agreement

X4.2.2 Delivery date of balance of completed units: 280 Calendar Days After Receipt of
Purchase Agreement

NOTE: Vendors can complete Bidder's Evaluation Report at Purchasing's Web Site
www.state.wv.us/admin/purchase

X5.0 AWARD CRITERIA;

X5.1 Price for each unit: \$518,600.00 per unit

X6.0 SPECIFICATIONS - GENERAL

X6.1 Manufacturer, model, series, and date of manufacture of proposed unit:

Aspen Aerials A-40, International 7600

Is descriptive literature, fully describing proposed unit attached to your bid? YES NO

If not, why? _____

X6.2 Will the required number of service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon upon completion of delivery of total units?

YES NO

Will the required Equipment Preventive Maintenance Form (Section X6.2 of Bidders Evaluation Report) be provided upon inspection of the pilot unit?

YES NO

X6.2
2-10-00

EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY SUCCESSFUL BIDDER OR MANUFACTURER'S TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVDOH.

DESCRIPTION: _____ MAKE: _____

MODEL: _____ YEAR: _____ PURCHASE AMOUNT: _____

ENGINE: MAKE: _____ MODEL: _____ FUEL TYPE: _____

HORSEPOWER: _____ CYLINDER: _____ ENGINE SERIAL: _____

COOLING SYSTEM CAPACITY: _____

BELTS: DESCRIPTION: _____ PART NUMBERS: _____

GVW: _____ AXLE CAPACITY: FRONT: _____ REAR: _____

TIRES: FRONT MAKE & SIZE: _____

REAR MAKE & SIZE: _____

DIMENSIONS OF UNIT: LENGTH: _____ WIDTH: _____ LENGTH: _____

VENDOR CONTACT PERSON: _____ PHONE: _____

PARTS:

BATTERY MAKE: _____ MODEL: _____ CCA: _____

TOP OR SIDE POST: _____ DIMENSIONS: LENGTH _____ WIDTH _____ HEIGHT _____

SPARK PLUGS OR FUEL INJECTORS MAKE: _____ PART # _____

FUEL PUMP OR INJECTION PUMP MAKE: _____ MODEL: _____

ALTERNATOR MAKE: _____ PART #: _____

STARTER MAKE: _____ PART #: _____

TURBO CHARGER MAKE: _____ PART #: _____

TRANS. MAKE: _____ MODEL: _____ AUTO/MANUAL: _____

HYDRAULIC PUMP MAKE: _____ MODEL: _____

FILTERS	MAKE	PART NO.	LUBRICANT	MANUFACTURER TYPE
OIL	_____	_____	ENGINE	_____
AIR INNER	_____	_____	TRANSMISSION	_____
AIR OUTER	_____	_____	POWER STEERING	_____
FUEL PRIMARY	_____	_____	HYDRAULIC	_____
FUEL SECONDARY	_____	_____	DIFFERENTIALS	_____
COOLANT	_____	_____	BRAKE FLUID	_____
HYDRAULIC	_____	_____	COOLANT	_____
OTHER	_____	_____	OTHER	_____

X6.3 TRAINING:

Will training seminar be conducted on Preventive Maintenance, Operator and Mechanic Training YES NO

Will you conduct training with each purchase order against this open end contract? YES NO

Will training be conducted within 2 working days from the delivery of the pilot unit on the individual purchase order? YES NO

If NO, explain time frame *or on date per customer's request

Will an Operator's Manual be furnished directly to Training Academy prior to the delivery of the pilot? YES NO

X6.4 If you are the successful vendor, will you furnish all training aids, i.e., videos, projectors, required in conducting the training? YES NO

X6.4.1 Will all manuals, booklets, etc. explaining preventive maintenance, operator procedures, and service schedule be delivered with each unit? YES NO
If NO, explain _____

X6.5 WARRANTY AND SERVICE POLICY

Will the warranty and service you provide comply with all areas as stated in Section 6.5 of specifications YES NO

Is warranty literature attached? YES NO

Is a minimum two (2) year bumper to bumper basic parts and labor warranty included? YES NO

Describe: 24 month / 100,00 miles including emergency breakdown
service (chassis only)

X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE**THIS FORM MUST BE COMPLETED IN ITS ENTIRETY AND SUBMITTED WITH YOUR BID.**

(If additional lines are needed, make copies of form.)

1. Define the terms of the standard warranty. If not offered, so state. (Attach copy)

1 year bumper to bumper

2. Define warranty service to be performed at DOH facilities and warranty service to be performed at manufacturer's representative facility. List name and location of manufacturer's representative.

Chassis - International dealer is State of West VirginiaBridge Inspection Unit - Aspen Aerials, ., 4303 W. 1st Street, Duluth, MN

3. List locations for parts inventories that are within the State of West Virginia. Also, list availability levels, if known.

Chassis - International DealersBridge Inspection Unit - all parts ordered through facility in Duluth, MN

4. During the term of warranty, list the guarantee discount to manufacturer's published list price for parts that bidder will sell the parts to owner.

A.	Terms: Net 30	Manufacturer's published list price less: <u>0</u> % discount
B.	Terms: Net 60	Manufacturer's published list price less: <u>0</u> % discount
C.	Terms: Net 90	Manufacturer's published list price less: <u>0</u> % discount

5. During the term of warranty, will all manufacturers or engineering improvements be submitted to Division of Highways? X YES NO

6. During the term of warranty, list the guaranteed rates charged for repair to the unit.

A. Shop Rate \$ 116.00 per mechanic hourB. Travel Time Charge \$ _____ per mechanic hour
(Specify if one-way) _____; port to port _____C. Mileage Charge \$ _____ per vehicle mile
(Specify if one-way) _____; port to port _____

D. Field Mechanic Rate \$ _____ per mechanic hour

E. Specify period of time that prices are in effect: 1 yearF. Surcharge for miscellaneous items: none %

X6.6 EVALUATION COMMITTEE REQUIREMENTS

Is all component specifications, product literature, component models provided for Evaluation Committee bid determination? YES NO

X6.7 Will all parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, be furnished with the unit and conform in strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry? YES NO

X6.7.1 Are all parts and accessories adequate and regularly supplied as standard to be included except those which may be duplications of specifications herein, and except these by specification are not to be furnished? YES NO

X6.7.2 Are all standard safety features that are required by Federal and State statutes of law included? YES NO

X7.0 SPECIFICATIONS OF THE QUOTED UNIT

The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. **The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specifications.**

Manufacturer: Aspen Aerials Model: A-40

X7.1 Is unit able to position (3) workmen + tools 40 feet horizontally under bridge to perform maintenance? YES NO

X7.1.1 Will unit be capable of placing workmen/inspector in positions above, under & outside bridge in such a manner that they can make physical contact with areas as indicated? YES NO

X7.2 Is unit able to operate within 8 feet 6 inches of the traffic lane width? YES NO

X7.3 CHASSIS:

X7.3.1 G.V.W.R. 66,000 lbs.

X7.3.2 Cab trunnion 161 inches

X7.3.3 Frame:

Frame side rail section modules 31.72 cubic inches 120,000 psi steel and

RBM 3,866,400 inch pounds

Do section modules, RBM, frame reinforcement and chassis meet underbridge inspection aerial device manufacturers minimum requirements YES NO

X7.3.3.1 Axle capacity 20,000 pounds

X7.3.3.2 Will each axle have visible front oil seals? YES NO

X7.3.3.3 Will front axle have 20,000lb. capacity suspension with heavy duty shock absorbers? YES NO

X7.3.4 Is Rear axle tandem YES NO capacity 46,000 lbs.

Single speed with power divider and provided with 46,000 pound suspension YES NO

Manufacturer and model: Hendrickson RT-460

X7.3.4.1 Does rear axle gear ratio allow the vehicle to travel 65-70 MPH YES NO

X7.4 TRANSMISSION:

X7.4.1 Is transmission automatic YES NO

Manufacturer and model: Allison 4000 RDS

X7.4.2 Will transmission be equipped with an overheat warning system? YES NO

X7.5 PTO:

X7.5.1 Will power take off be transmission mounted power shift, cab controlled? YES NO

X7.5.1.1 Will PTO be equipped with an engaged light? YES NO

X7.6 ENGINE:

X7.6.1 Diesel powered YES NO

X7.6.2 HP 370

- X7.6.3 Will engine be provided with remote PTO throttle control capability for unit specified? YES NO
- X7.6.4 Does engine have two (2) speed governor** YES NO
- X7.6.5 Will cooling system be checked and filled to proper level and contain extended life permanent type antifreeze to test -40°F? YES NO
- X7.6.6 Does unit have a heavy duty dry type air cleaner? YES NO
- X7.6.7 Does unit have manufacturer recommended oil filter and fuel filters for entire unit? YES NO
- X7.6.8 Does unit have a horizontal muffler and vertical tailpipe with bright shield to protect personnel from burns? YES NO
- X7.6.9 Will exhaust system be routed so as not to interfere with operation of body or unit?** YES NO
- X7.6.10 Does unit have a high temperature protection warning light with gauges for oil pressure and coolant temperature? YES NO
- X7.6.11 Does engine have a water filter system? YES NO
- X7.6.12 Does unit have a heavy duty radiator and coolant system? YES NO
- X7.7 CAB:
- X7.7.1 Cab constructed of steel standard conventional type?** YES NO
- X7.7.2 Is cab provided with a tilting hood? YES NO
- X7.7.3 Is unit provided with fenders equipped with a stone and gravel radiator guard?** YES NO
- X7.7.4 Does unit have seats and seat belts for driver and one (1) passenger?** YES NO
- X7.7.4.1 Will driver seat be air ride fully adjustable bucket seat?** YES NO
Manufacturer: National
- X7.7.4.2 Will passenger seat be non adjustable cushioned bucket seat?** YES NO
- X7.7.5 Electrical system will include 3 - 12 volt 1950 CCA batteries maintenance free** YES NO

- X7.7.6 Is battery box with cover provided YES NO
- X7.7.7 Alternator amperage 130
- X7.7.8 Will lights on cab and chassis be manufacturer standard? YES NO
- X7.7.9 Lights on body Trucklite Super Seal System
- X7.7.10 Does switch in cab operate roof lights YES NO
- X7.7.11 Will a single horn be provided? YES NO
- X7.7.12 Will unit have manufacturer standard 12-volt DC backup alarm system YES NO
- X7.7.13 Does unit have an insulated headliner and back panel? YES NO
- X7.7.14 Does unit have dual sun visors? YES NO
- X7.7.15 Does unit have armrests and door pulls? YES NO
- X7.7.16 Does unit have windshield washer with 2-speed wipers with intermittent features? YES NO
- X7.7.17 Will headlights be properly adjusted? YES NO
- X7.7.18 Is dome light provided? YES NO
- X7.7.19 Does unit have floor mats? YES NO
- X7.7.20 Will unit be provided with exterior grab handles? YES NO
- X7.7.21 Does unit have (2) outside stainless steel West Coast style mirrors with bolt on 6 inch diameter round convex mirrors both sides? YES NO
Specify sizes 7 x 16
LH side - outside, RH side - inside
- X7.7.21.1 Will mirrors be heated and right hand power adjustable? YES NO
- X7.7.22 Does unit have heater and defroster, heavy duty fresh air type? YES NO
- X7.7.23 Will unit be provided with dual fuel tanks YES NO
Capacity: 100 gallon
- X7.7.24 Does unit have power steering? YES NO

- X7.7.25** Does unit include all manufacturer standard instrumentation? YES NO
- X7.7.26** Does unit have air conditioning YES NO
Type system International RDC System
- X7.7.27** Is unit provided with AM-FM radio YES NO
- X7.7.28** Will unit be provided with air horns? YES NO
- X7.7.29** Does cab have tilt/telescoping steering wheel? YES NO
- X7.7.30** Does unit include kit for CB radio with power and ground wiring to include co-ax cable, antenna and speaker (radio to be provided and installed) YES NO
- X7.7.31** Will bug shield be provided light smoke or transparent type? YES NO

X7.8 TIRES:

X7.8.1 Front: 425/65R 22.5 20 ply mounted on 12.25 steel disc wheels

X7.8.2 Rear: 11R22.5 16 ply mounted on 8.25 steel disc wheels

X7.9 BRAKE SYSTEM:

- X7.9.1** Will brakes be air actuated? YES NO
- X7.9.2** Air compressor CFM 13 with air dryer with heater and automatic moisture drain YES NO
- X7.9.3** Will system have dash mounted warning light for low air pressure? YES NO
- X7.9.4** Will system have automatic slack adjuster for each wheel? YES NO
- X7.9.5** Does unit have air pressure gauge mounted to dash? YES NO
- X7.9.6** Does unit have air release parking brake with dash mounted light? YES NO
- X7.9.7** Will unit be provided with a Jacobs engine brake or approved equal? YES NO

X7.10 RUST PROOFING AND UNDERCOATING:

- X7.10.1** Will deck body include complete coverage of all inner surfaces requiring protection by means of properly atomized spray? YES NO
- X7.10.2** Will material penetrate all seams and crevices? YES NO

- X7.10.3 Will drain holes or passages not be blocked? YES NO
- X7.10.4 Will exterior of vehicle be free of rust proofing compound except cracks crevices and seams of decorative moldings? YES NO
- X7.10.5 Will full undercoating be applied in a continuous and uniform thick coating from 1/16" to 1/8" to all underbody sheet metal except drive shaft, drain holes, lubrication points, engine crankcase, heavy casting and suspension components kept free of coating material? YES NO

X7.11 PAINT:

- X7.11.1 Will cab exterior and interior be painted Federal Standard 595A Number 17875 white? YES NO
- X7.11.2 Will chassis be painted manufacturer standard black? YES NO
- X7.11.3 Will grille be painted manufacturer standard similar to silver of aluminum in color? YES NO
Grilles made from bright finish or bright plated materials do not require painting.
- X7.11.4 Will wheels be powder coated manufacturer standard paint similar to gray or white in color? YES NO
- X7.11.5 Will detail and decorative stripes with logo be provided as specified in specification 7.11.5; 7.11.5.1 and 7.11.5.2? YES NO
- X7.11.5.3 Upper stripe color: Dark Blue
- X7.11.5.4 Lower stripe color: Light Gold
- X7.11.5.5 through X7.11.5.8
Will striping be in compliance as stated YES NO
- X7.11.5.9 Will successful vendor provide a sample for testing if requested? YES NO
if not, Specify _____
- X7.11.6 Will successful vendor meet requirements as specified in specification 7.11.6? YES NO
if not, Specify _____
- X7.11.7 Will successful vendor agree to adhere to the requirements as specified in specification 7.11.7? YES NO
If not, Specify _____

X7.12 SAFETY EQUIPMENT:

- X7.12.1 Will unit be provided with a first aid kit? YES NO
- X7.12.2 Will unit have (1) reflective triangle type flare set, stored in mountable box? YES NO
- X7.12.3 Does unit have a mounted fire extinguisher? YES NO
- X7.12.4 Will all other safety equipment be mounted per manufacturer recommendation? YES NO

X8.0 DECK BODY:

- X8.1 Body constructed of 1/4 inch diamond plate steel
- X8.2 Will deck be welded to heavy duty structural steel crossmembers and longitudinals with side and end rails? YES NO
- X8.3 Will deck surface be furnished with non-skid paint? YES NO
- X8.4 Will body have (2) locations with access steps installed on the left and rear of the deck? YES NO
- X8.5 Will steps be constructed with non skid material YES NO
- X8.5.1 First step will be 18 inches the ground level
- X8.6 Will all marker, stop, tail and turn lights be LED type? YES NO
- X8.7 Will (2) under deck tool boxes be installed YES NO
- (1) on the right side and (1) on the left side of the body?
Specify size 24" x 24" x 48"
- X8.7.1 Will boxes be constructed of 16 gauge steel? YES NO
- X8.7.2 Will doors open downward with chain steps and locks YES NO
- X8.7.2.1 Will doors have automotive neoprene d-type seals for weatherproofing? YES NO
- X8.7.3 Will boxes be painted inside and out? YES NO
- X8.7.4 Will drain holes be provided? YES NO

- X8.7.5 Will locks and keys be provided? YES NO
- X8.7.6 Will unit have (4) anti-sail flaps installed in front and back of rear tandem wheels? YES NO
- X9.0 UNDERBRIDGE INSPECTION UNIT:
- X9.1 Underbridge overall stored length 38 ft inches.
- X9.2 Underbridge overall stored height 13 ft. inches
- X9.3 Underbridge overall stored width 8 ft. 6 inches
- X9.4 Will all components of the aerial device be stored inside the length and width of the flatbed body? YES NO
- X9.5 Will unit have both pedestal and subframe constructed of high strength steel? YES NO
- X9.5.1 Will pedestal and subframe have sufficient strength to withstand all torsional stress imposed by the boom assemblies with the maximum rated load in the work platform? YES NO
- X9.5.2 Will pedestal be mounted behind the truck cab? YES NO
- X9.5.3 Will pedestal be welded to a tubular or beam type subframe, which extends the full length of the chassis frame? YES NO
- X9.5.4 Will subframe be fastened to the chassis frame with mounting plates and Grade 8 bolts? YES NO
- X9.6 Does unit have 2 hydraulic rotation turrets? YES NO
- X9.6.1 Will main turret be mounted on top of the pedestal and hinged to the main boom #1? YES NO
- X9.6.1.1 Will it rotate the booms off of both sides of the vehicle? YES NO
- X9.6.2 Will second turret be mounted at the end of boom #1 and hinged to boom #2? YES NO
- X9.6.2.1 It will rotate 180 ° when platform is deployed?
- X9.6.3 Will each turret rotate on a heavy duty shear ball type bearing protected against dirt and moisture and provided with means for pressure lubrication? YES NO

- X9.6.4 Will motor and gear box rotation be powered by a reversible hydraulic orbital motor driving self-locking gear box, which prevents free wheeling in case of hydraulic failure? YES NO
- X9.6.5 Will a counterweight be attached to the pedestal assembly and rotate with the bridge inspection unit on the opposite side and stay within the width of body when the booms are deployed? YES NO
- X10.0 BOOMS:
- X10.1 Will all booms be articulating, hydraulically operated? YES NO
- X10.2 Will all telescopic boom sections be equipped with high wear capacity nylon support rollers or equal? YES NO
- X10.3 Main boom hinged to the mainframe pedestal turret and clean an eight (8) foot sidewalk? YES NO
- X10.4 Will the second boom be attached to the end of boom #1 YES NO
 Length: 20 feet
 The top of the platform railing is 12 feet below the bridge deck YES NO
- X10.5 Is the platform built out of aluminum, having a hydraulically telescoping section, using a cylinder and hinged to the end of boom #2 YES NO
 Horizontal reach under the bridge: 38 feet
- X10.6 Is operator able to ride the platform over the side of the bridge YES NO
- X10.7 Will boom swivel pins be of high strength steel, turned, ground and polished or chrome plated? YES NO
- X10.8 Will pins be threaded and secured with self-locking nuts? YES NO
- X10.9 Will swivel bearings be of high strength material with provision for lubrication and replacement? YES NO
- X10.10 Will booms have full hydraulic powered cylinders? YES NO
- X10.11 Will all cylinders be pilot operated, double-acting with integral safety holding valve? YES NO

- X10.12 Will boom actuation be by cylinders that are directly attached to the booms YES NO
- X10.13 Will cylinder be attached to the booms with high strength steel pins? YES NO
- X10.14 Will cylinder pins be secured with high strength steel snap rings or roll pins with tolerances that prevent side to side movement of pins? YES NO
- X10.15 Will cylinder pivot points be equipped with self-aligning ball bushings with provision for lubrication? YES NO
- X10.16 Will all grease fittings on unit be threaded screw-in type? YES NO
- X11.0 PLATFORM:
- X11.1 Will (1) 40 foot wide aluminum platform with 1500 lb. capacity be hinged at the end of the second boom and automatically be kept level at all times by a self-leveling system? YES NO
- X11.2 Platform dimensions 40 inches x 33 ^{feet} ~~inches~~ long
- X11.3 Will an access gate be provided at the end of the platform? YES NO
- X11.4 Is a removable one (1) person auxiliary platform provided YES NO
- Will it allow access to taller beams or girder and be capable of being installed on the telescoping section of the main platform YES NO
- X11.5 Will covers be provided for platform? for accessories YES NO
- X11.6 With work platform completely extended, can the truck be driven slowly forward or backward to provide continuous or overlapping areas of coverage? YES NO
- X11.7 Will (3) safety harnesses and lanyards be furnished? YES NO
- X11.8 Will attachments for safety belts be installed in the platform? YES NO
- X12.0 AUXILIARY DIESEL ENGINE AND PTO POWER SOURCES:
- X12.1 Will the primary source of power be a transmission-mounted pump? YES NO

- X12.2** Will the back-up source of power for operation of the underbridge inspection aerial device hydraulic and electric systems be provided by a liquid-cooled diesel engine? YES NO
 HP of diesel engine: 20
- X12.3** Will pumps have capacity to perform two or more unit movements simultaneously? YES NO
- X12.4** Will auxiliary engine have a 12-volt electrical system with keyed ignition, electric starter and alternator? YES NO
- X12.5** Will system allow engine be started from the truck batteries YES NO
- X12.6** Will auxiliary engine have a fuel connection to the truck fuel tank(s)? YES NO
- X12.7** Will diesel engine have fuel filtration system? YES NO
- X12.7** Will engine compartment cover be lockable with keys to allow complete access to engine and hydraulic system components? YES NO
- X13.0** HYDRAULIC SYSTEM:
- X13.1** Will all movements of the underbridge inspection aerial device be made by hydraulic pressure? YES NO
- X13.2** Will all hydraulic cylinders be double acting with direct-coupled safety check valves as protection, in case of pump or hose failure? YES NO
- X13.3** Will reservoir be of steel welded construction with 50 gallon storage capacity? YES NO
- X13.4** Will reservoir have baffles, clean out access, exterior oil sight level gauge and magnetic drain plug? YES NO
- X13.5** Will hydraulic oil be filtered through a return line 10-micron filter with replaceable element? YES NO
- X13.6** Will a 100-mesh strainer be located on the suction side of the reservoir? YES NO
- X13.7** Will all filters be accessible for easy element replacement? YES NO
- X13.8** Will hydraulic fluid transmission lines be flexible hoses? YES NO
- X13.9** Will flexible hoses be wired braid reinforced and have a weather and abrasion resistant covering? YES NO

- X13.10 Will cooler be oil to air type? YES NO
- X13.11 Will pressure gauges be provided for hydraulic system to allow for checking manufacturer's specified pressure settings? YES NO
- X14.0 CONTROLS AND SAFETY STSTEM:
- X14.1 Will two (2) sets of controls be provided? YES NO
- X14.1.1 Will one (1) set of hydraulically operated controls be at the pedestal? YES NO
- X14.1.2 Will one (1) set of remote radio controls for use be on the work platform YES NO
- X14.2 Will the hydraulic pedestal control be capable of overriding the platform and the remote controls in case of electrical failure? YES NO
- X14.3 Will all controls be equipped with 2-way, return to neutral type levers? YES NO
- X14.4 Will all control valves have proportional flow control and precise metering capability to provide smooth operation of the unit in all working positions and to insure the safety of operating personnel at all times? YES NO
- X14.5 Will controls be arranged to allow for each individual movement separately or in any combination desired? YES NO
- X14.6 Will controls be located to facilitate maintenance access? YES NO
- X14.7 Will manual overrides be provided for all functions? YES NO
- X14.8 Will truck and auxiliary engines kill switch be installed at each control? YES NO
- X14.9 Will electric/hydraulic control switch for both front and rear suspension lockouts be located at the pedestal within easy reach and view of operator? YES NO
- X14.10 Will unit have interlock to prevent operation of underbridge inspection aerial device if suspension lockouts are not engaged? YES NO
- X14.11 Will unit have limit switches to prevent rotation or articulation of booms into unstable positions? YES NO
- X14.12 Will unit have relief valves and switches to prevent overloading hydraulic system with excessive pressure? YES NO
- X14.13 Will unit have emergency kill switches at the basket of truck and auxiliary engines YES NO

- X14.14 Will unit have automatic check valves on hydraulic cylinders in case of pump or hose failure? YES NO
- X14.15 Will unit have an automatic audible alarm to signal excessive slope conditions? YES NO
- X14.16 Will unit have engine shutdown system when low oil pressure, loss of coolant or overheating develops? YES NO
- X14.17 Will a master power control switch be provided at the basket to render the basket controls inoperable when the unit is in its work position? YES NO
- X14.18 Will all boom articulation hydraulic cylinder shafts be of nitrate rods to resist corrosion and be able to withstand a 100-hour slat spray test? YES NO
- X15.0 TRUCK STABILIZERS:
- X15.1 Will the frame be equipped with four (4) hydraulically operated suspension lockouts, two (2) at the front axle and two (2) at the rear axle, controlled from the pedestal station YES NO
- X15.2 Will lockout system include indicator lights to alert the operator that the lockouts are engaged or disengaged? YES NO
- X15.3 Will lights be installed in the cab and at the pedestal? YES NO
- X15.4 Will interlock be installed to prevent operation of the underbridge inspection aerial device when the suspension lockout system is disengaged? YES NO
- X15.5 Will a manual override (to allow booms to be stowed in case of system malfunction) be installed at the pedestal? YES NO
- X15.6 Will the truck be capable of withstanding all tipping forces generated by booms in all positions in both stationary and moving application when lockouts are engaged? YES NO
- X15.7 Does unit have outriggers which are UNACCEPTABLE? YES NO
- X16.0 COMMUNICATION SYSTEM:
- X16.1 Will an intercommunication system between personnel in the truck cab, the pedestal control station, the ground remote control station and the work platform be provided and installed? YES NO
- X16.2 Will system consist of a fully transistorized amplified (powered by the truck batteries) with on/off switch, volume controls and an integral press-to-talk switch mounted in the truck cab convenient to the driver and at the pedestal? YES NO

- X16.3 Will the basket speaker be activated in a hands free mode? YES NO
- X16.4 Will one (1) lightweight headset with an earpiece and microphone be provided? YES NO
- X16.5 Will jacks for headset be provided in the cab, truck deck platform, and pedestal location YES NO
- X17.0 ACCESSORIES:
- X17.1 Hydraulically driven air compressor 18 CFM @ 100 PSI mounted under the truck body? YES NO
- X17.2 Will the unit include a 30 gallon ASME stamped air receiver tank(s) with safety valve, condensation drain, pressure gauge and shut-off valve? YES NO
- X17.3 Will the unit have a 1/2" I.D. air line with 125 PSI working pressure rating provided to the work bucket? YES NO
- X17.4 Will air line be routed along the booms in protected areas and terminate at the bucket with a quick disconnect coupling? YES NO
- X17.5 Will two (2) 115-volt, three (3) contact, weatherproof, grounding, receptacles be provided at the bucket? YES NO
- X17.6 Will receptacles be ground fault interruption protected? YES NO
- X17.7 Unit will be equipped with single phase 60 Hz, AC generator which will be driven by the power take off? YES NO
driven by auxiliary engine
- X17.8 Generator will be 5 KW for the operation of the electrical outlets? YES NO
- X17.9 Will work platform/bucket be equipped with two (2) 1500-watt heaters? YES NO
- X17.10 Will the work platform be equipped with two(2) swivel mounted 12-volt flood lamps? YES NO
- X18.0 LABELS:
- X18.1 Will all controls, switches, lights and indicators be permanently labeled as to function and where applicable, director of operations, using either engraved plastic or permanently etched metal labels? YES NO
(Dymo labels will not be acceptable.)

X19.0 Will successful vendor meet OSHA requirements as specified in specification 19.0?
 YES NO

X20.0 Will successful vendor meet advertising requirements as specified in specification 20.0?
 YES NO

X21.0 Have you submitted drawings of the proposed underbridge inspection unit with dimensions and clearances with your bid proposal?
 YES NO

(if not, why not) _____



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

WV PURCHASING AGENCY SECTION Fax 304-558-4115

May 12 2008 01:53pm P001/004

Request for
Quotation

RFQ NUMBER
708EC013

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
MICHAEL AUSTIN
304-558-2402

RFQ COPY

JOHN W STUBENVOLL
 ASPEN AERIALS INC
 4303 WEST 1ST STREET
 DULUTH MN 55816-0958

DIVISION OF HIGHWAYS
 EQUIPMENT DIVISION
 ROUTE 33
 BRUSHY FORK ROAD
 BUCKHANNON, WV
 26201
 304-472-1750

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
04/10/2008				

BID OPENING DATE: **05/14/2008** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 1		
				CHANGES TO THE SPECIFICATIONS ATTACHED		
				BID OPENING DATE AND TIME REMAINS 05/14/08		
				NO OTHER CHANGES		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

UNDERBRIDGE INSPECTION UNIT - SMALL

708EC013
PRE-BID ADDENDUM #1

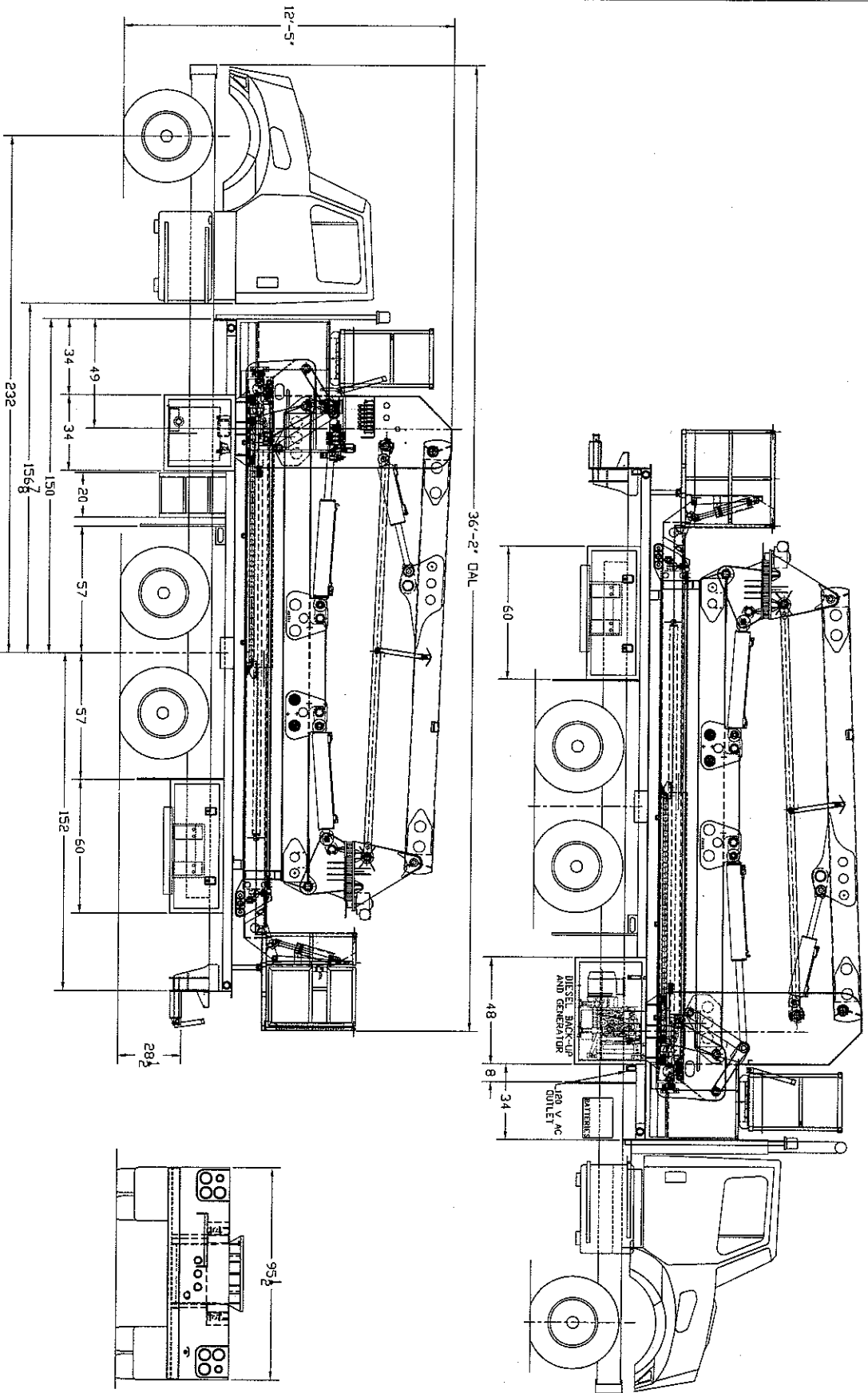
CHANGES TO BIDDER'S EVALUATION REPORT:

FROM:

X11.1 Will one (1) 40 foot wide aluminum platform with _____ lb. capacity be hinged at the end of the second boom and automatically be kept level at all times by a self-leveling system? _____ YES _____ NO

TO:

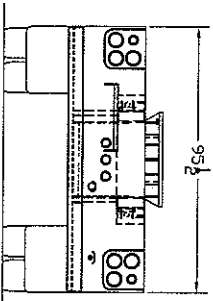
X11.1 Will one (1) 40 inch wide aluminum platform with 1500 lb. capacity be hinged at the end of the second boom and automatically be kept level at all times by a self-leveling system? X YES _____ NO



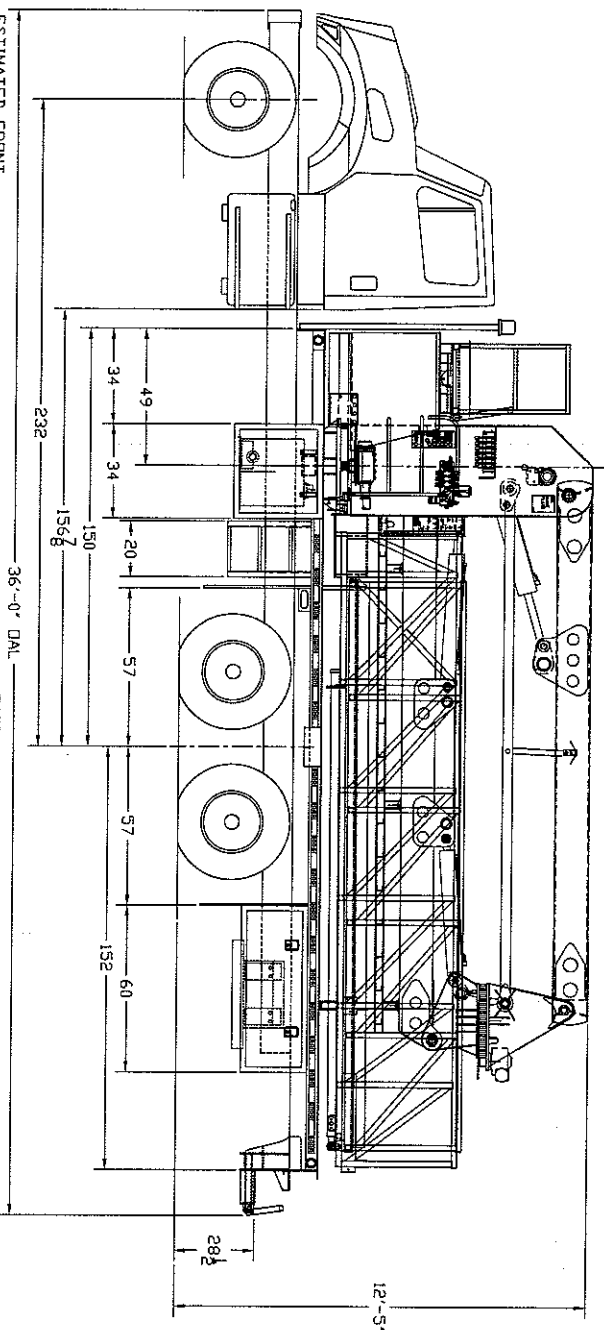
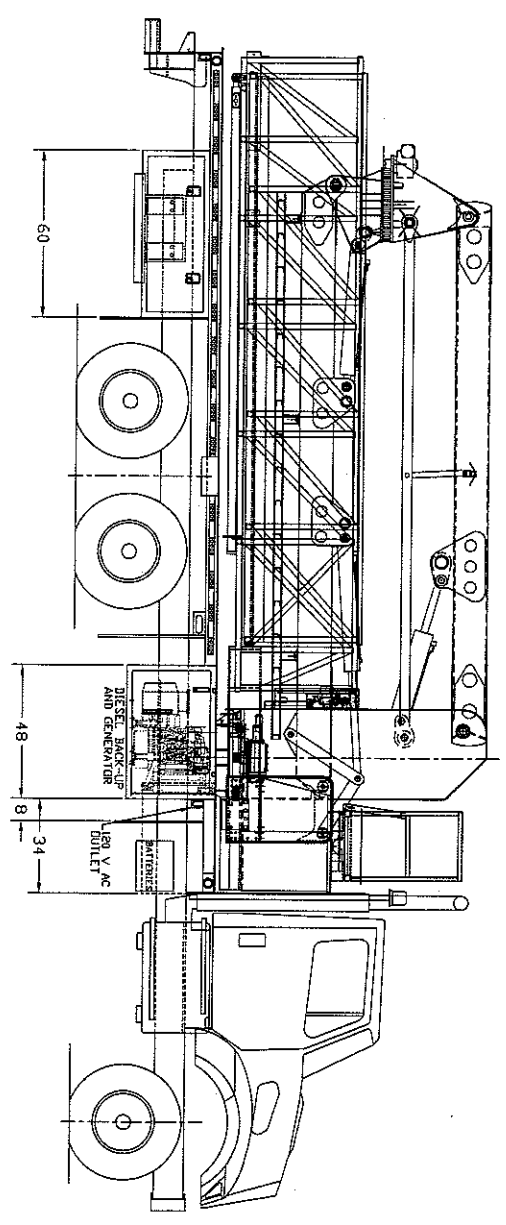
ESTIMATED FRONT AXLE WEIGHT 17,500 LB

ESTIMATED FRONT AXLE WEIGHT 56,500 LB

ESTIMATED FRONT AXLE WEIGHT 39,000 LB



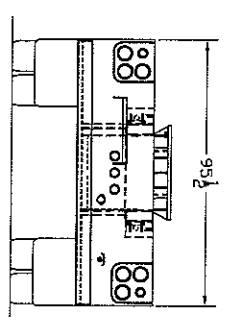
DO NOT SCALE THIS DRAWING		ASPHEN AERIALS, INC.	
THIS DRAWING IS THE PROPERTY OF ASPHEN AERIALS, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.		1000 W. MARKET STREET, SUITE 200, FARMINGTON, VT 05475	
DATE	REV	DESCRIPTION	BY
08/18	1	NEW RELEASES IDENTIFICATION	WJC
ASPHEN AERIALS, INC.		1000 W. MARKET STREET, SUITE 200, FARMINGTON, VT 05475	
A40 PLATF DRN-TM 7600		WEST VIRGINIA	
SCALE	1/1	REV	1
A40 WV 1			



ESTIMATED FRONT AXLE WEIGHT 17,500 LB

ESTIMATED FRONT AXLE WEIGHT 56,000 LB

ESTIMATED FRONT AXLE WEIGHT 38,500 LB



DO NOT SCALE THIS DRAWING

ASPHEN AERIALS, INC.
 4400 WALKWAY - IH 7600
 WEST VIRGINIA

DATE	REV	BY	CHK
12/15/00	1
12/15/00	2

ASPHEN AERIALS, INC.
 4400 WALKWAY - IH 7600
 WEST VIRGINIA

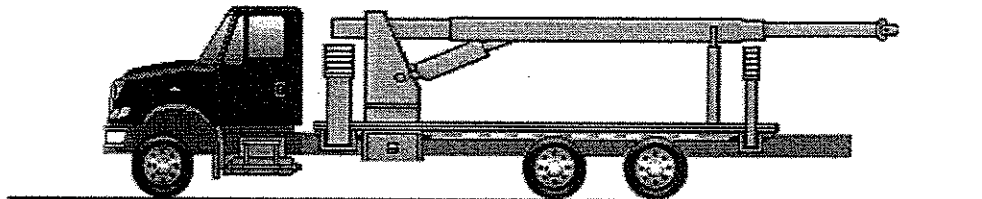
4400 WV 2

Prepared For:
ASPEN AERIALS INC.
JOHN STUBENVOLL
P. O. BOX 16958
DULUTH, MN 55816-1714
(800)888 - 2773
Reference ID: WEST VA. 7600



Presented By:
WATERS TRUCK AND TRACTOR
DON SAVELY
96 EAST PLYMOUTH ROAD
COLUMBUS MS 39701 -
(662)328-1575

Thank you for the opportunity to provide you with the following quotation on a new International truck. I am sure the following detailed specification will meet your operational requirements, and I look forward to serving your business needs.



Model Profile
2009 Diamond SPEC™ 7600 SFA 6X4 (SF547)

APPLICATION:	Mobile Aerial Crane
MISSION:	Requested GVWR: 66000. Calc. GVWR: 66000 Calc. Start / Grade Ability: 21.40% / 2.30% @ 55 MPH Calc. Geared Speed: 71.7 MPH
DIMENSION:	Wheelbase: 236.00, CA: 161.00, Axle to Frame: 130.00
ENGINE, DIESEL:	{Cummins ISM 385V} 370 HP @ 2100 RPM Governed Speed; 1350 lb-ft Torque @ 1200 RPM; 385 Peak HP (Max)
TRANSMISSION, AUTOMATIC:	{ALLISON 4000_RDS_P} 4th Generation Controls; Close Ratio, 6-Speed, With Double Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Dana Spicer I-200W} Wide Track, I-Beam Type, 20,000-lb Capacity
AXLE, REAR, TANDEM:	{Dana Spicer D46-170/R46-170} Single Reduction 46,000-lb Capacity; With "R" Wheel Ends Gear Ratio: 5.57
CAB:	Conventional
TIRE, FRONT:	(2) 425/65R22.5 HTC (CONTINENTAL) 465 rev/mile, load range L, 20 ply
TIRE, REAR:	(8) 11R22.5 HDL ECO PLUS (CONTINENTAL) 493 rev/mile, load range H, 16 ply
SUSPENSION, REAR, TANDEM:	{Hendrickson RT-463} Walking Beam Type 54" Axle Spacing; 46,000-lb Capacity With Bronze Center Bushings
FRAME REINFORCEMENT:	Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL
PAINT:	Cab schematic 100GR Location 1: 9404, Kovatch White 8000 (Custom) Chassis schematic N/A

Description

Base Chassis, Model 7600 SFA 6X4 with 236.00 Wheelbase, 161.00 CA, and 130.00 Axle to Frame.

TOW HOOK, FRONT (2) Inside Rail, Frame Mounted.

FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.125" x 3.580" x 0.312" (257.2mm x 90.9mm x 8.0mm); 480.0" (12192) Maximum OAL

FRAME REINFORCEMENT Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL

BUMPER, FRONT Steel, Swept Back

Includes

: BUMPER, FRONT Powder Coated Gray (Argent) Color

CROSSMEMBER, REAR, AF (01)

WHEELBASE RANGE 191" (485cm) Through and Including 256" (650cm)

AXLE, FRONT NON-DRIVING {Dana Spicer I-200W} Wide Track, I-Beam Type, 20,000-lb Capacity

SHOCK ABSORBERS, FRONT

SUSPENSION, FRONT, SPRING Multileaf, Shackle Type, Single Stage Spring; 20,000-lb Capacity; Less Shock Absorbers

Includes

: SPRING PINS Rubber Bushings, Maintenance-Free

BRAKE SYSTEM, AIR Dual System for Straight Truck Applications

Includes

: BRAKE CHAMBERS, SPRING (4) Rear Parking

: BRAKE LINES Color Coded Nylon

: DRAIN VALVE Twist-Type

: DUST SHIELDS, FRONT BRAKE

: DUST SHIELDS, REAR BRAKE

: GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster

: PARKING BRAKE VALVE Color-Coded Yellow Knob, Located on Instrument Panel

: SLACK ADJUSTERS, FRONT Automatic

: SLACK ADJUSTERS, REAR Automatic

: SPRING BRAKE MODULATOR VALVE

BRAKES, FRONT, AIR CAM 16.5" x 6", Includes 24 Sqn Long Stroke Chambers

DRAIN VALVE {Berg} Manual; With Pull Chain, for Air Tank

AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel)

BRAKES, REAR, AIR CAM 16.5" x 7.0"; Includes MGM TR3030 Long Stroke Brake Chamber and Heavy Duty Spring Actuated Parking Brake

Includes

: BRAKE CHAMBERS, SPRING Inverted with ALL "Walking Beam" type Suspensions, Located on Rear Rear Axle

AIR COMPRESSOR {Cummins} 18.7 CFM

STEERING COLUMN Tilting and Telescoping

STEERING WHEEL 2-Spoke, 18" Diam., Black

STEERING GEAR (2) {Sheppard M-100/M-80} Dual Power

EXHAUST SYSTEM Single, Horizontal, Aftertreatment Device Frame Mounted Right Side Back of Cab; Includes Vertical Tail Pipe And Bright Guard

ENGINE COMPRESSION BRAKE {Jacobs Model 411} for Cummins ISM Engine, With Selector Switch and On/Off Switch

Description

ELECTRICAL SYSTEM 12-Volt, Standard Equipment

Includes

- : BATTERY BOX Steel with Fiberglass Cover; Mounted Right Side, Back of Cab
- : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics in Cab
- : FUSES, ELECTRICAL SAE Blade-Type
- : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover
- : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever
- : HEADLIGHTS (2) Sealed Beam Halogen, 5" X 7" Rectangular, with Chrome Plated Bezels
- : HORN, ELECTRIC Single
- : JUMP START STUD Located on Positive Terminal of Outermost Battery
- : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light
- : RUNNING LIGHT (2) Daytime, Included With Headlights
- : STARTER SWITCH Electric, Key Operated
- : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector
- : TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature
- : TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted
- : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever
- : WINDSHIELD WIPERS Single Motor, Electric, Cowi Mounted
- : WIRING, CHASSIS Color Coded and Continuously Numbered

ALTERNATOR {Leece-Neville 8LHP2170PH} Brush Type; 12 Volt 130 Amp. Capacity, Pad Mounted

BODY BUILDER WIRING Back of Standard Cab at Left Frame or Under Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn

BATTERY SYSTEM {International} Maintenance-Free, (3) 12-Volt 1950CCA Total

CB ANTENNA (2) {Pana-Pacific} Full Wave; 4.0' Length Includes "International" Name on Top

CB RADIO Accommodation Package; Header Mounted; Feeds From Accessory Side of Ignition Switch; Includes Power Source and Two Antenna Bases With Wiring

RADIO {International} AM/FM Stereo With Weatherband, Clock, Auxiliary Input, Includes Multiple Dual Cone Speakers

Includes

- : SPEAKERS IN CAB (2) Dual-Cone with Deluxe Interior
- : SPEAKERS IN CAB (4) Coaxial with Premium Interior

BACK-UP ALARM Electric, 102 dBA

POWER SOURCE, TERMINAL TYPE 2-Post

HORN, AIR Black, Single Trumpet, Air Solenoid Operated, Mounted Behind Bumper on Right Rail

STARTING MOTOR {Delco Remy 39MT} 12 Volt; Gear Reduced, With Thermal Over-Crank Protection

CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses

FENDER EXTENSIONS Omit

GRILLE Stationary, Chrome

BUG SCREEN Front End; Mounted Behind Grille

BUG DEFLECTOR Smoked Colored Plastic; Mounted on Hood

FRONT END Tilting, Fiberglass, With Three Piece Construction; for 2007 Emissions

PAINT SCHEMATIC, PT-1 Single Color, Design 100

Includes

- : PAINT SCHEMATIC ID LETTERS "GR"

PAINT TYPE Base Coat/Clear Coat, 1-2 Tone

Description

PAINT CLASS Single Custom Color.

CLUTCH Omit Item (Clutch & Control)

ENGINE, DIESEL {Cummins ISM 385V} 370 HP @ 2100 RPM Governed Speed; 1350 lb-ft Torque @ 1200 RPM; 385 Peak HP (Max)

Includes

- : AIR COMPRESSOR AIR SUPPLY LINE Turbo-Charged
- : CRUISE CONTROL Electronic; Controls Integral to Steering Wheel
- : ENGINE SHUTDOWN Electric, Key Operated
- : FAN Optimized Position
- : FUEL FILTER Engine Mounted
- : GOVERNOR Electronic
- : OIL FILTER, ENGINE Spin-On Type
- : THROTTLE, HAND CONTROL Electronic, Instrument Panel Mounted
- : TIMER Idle Shutdown
- : WATER FILTER Engine Mounted

FAN DRIVE {Borg-Warner K26} With Automatic On/Off Control

Includes

- : FAN Nylon

FEDERAL EMISSIONS for 2002; for Cummins ISM Engines

RADIATOR Aluminum; Cross Flow, Front to Back Series System, 1469 SqIn, With 1172 SqIn Charge Air Cooler

Includes

- : ANTI-FREEZE Shell Rotella Extended Life Coolant -40F (-40C)
- : DEAERATION SYSTEM with Clear Fill/Surge Tank and Black Deaeration Tank (2 Tanks)
- : RADIATOR HOSES Premium, Rubber

FEDERAL EMISSIONS 2007 for Cummins ISM Engines

AIR CLEANER Single Element

Includes

- : AIR CLEANER MISCELLANEOUS with Vacuator
- : GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted

ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Module and Connector for Body Builder Installation of Remote Engine Speed Control, With SAE J1939 Communication

EMISSION COMPLIANCE Federal, Does Not Comply With California Clean Air Regulations

TRANSMISSION, AUTOMATIC {ALLISON 4000_RDS_P} 4th Generation Controls; Close Ratio, 6-Speed, With Double Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder

Includes

- : OIL FILTER, TRANSMISSION Mounted on Transmission
- : TRANSMISSION OIL PAN Magnet in Oil Pan

OIL COOLER, AUTO TRANSMISSION {Modine} Water to Oil, for Allison or CEEMAT Transmission

TRANSMISSION SHIFT CONTROL {ALLISON} Push-Button Type; for Allison 3000 & 4000 Series Transmission

ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction

AXLE, REAR, TANDEM {Dana Spicer D46-170/R46-170} Single Reduction 46,000-lb Capacity; With "R" Wheel Ends . Gear Ratio: 5.57

Includes

- : POWER DIVIDER LOCK Air Operated, Cab Control with Indicator Light in Cluster
- : REAR AXLE DRAIN PLUG (2) Magnetic, For Tandem Rear Axle

Description

SUSPENSION, REAR, TANDEM {Hendrickson RT-463} Walking Beam Type 54" Axle Spacing; 46,000-lb Capacity With Bronze Center Bushings

SUSPENSION/REAR-AXLE IDENTITY for Dana Spicer Eaton Style Tandem Rear Axles With Bar-Pin Beam Attachment Type Suspensions

FUEL TANK (2) Top Draw; D Style, Steel, 50 U.S. Gal., Total Capacity 100 U.S. Gal., 378 L; 16" Tank Depth, Mounted Under Cab Left and Right Side

CAB Conventional

Includes

- : ARM REST (2) Molded Plastic; One Each Door
- : CLEARANCE/MARKER LIGHTS (5) Flush Mounted
- : COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window
- : CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel
- : DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Console, Center Mounted
- : GLASS, ALL WINDOWS Tinted
- : GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side
- : GRAB HANDLE, CAB INTERIOR (2) "B" Pillar Mounted, One Each Side
- : INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color
- : STEP (4) Two Steps Per Door

GAUGE CLUSTER English With English Electronic Speedometer

Includes

- : GAUGE CLUSTER (6) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter, Washer Fluid Level
- : ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout
- : WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)

GAUGE, OIL TEMP, ALLISON TRAN

IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster

SEAT, DRIVER {National 2000} Air Suspension, High Back With Integral Headrest, Cloth, Isolated, With 2 Position Front Cushion Adjustment, -3 to +14 Degree Seat Back Adjustment, Single Chamber Air Lumbar Support

SEAT, PASSENGER {Gra-Mag} Non Suspension, High Back With Integral Headrest, Cloth, With Fixed Back

Includes

- : SEAT BELT 3-Point, Lap and Shoulder Belt Type

MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75", Brackets Breakaway Type, With 102" Wide Spacing, With Integral Convex Both Sides, With All Heated Heads, Thermostatically Controlled, With Clearance Lights LED, Powered Both Sides, Flat Glass Only

GRAB HANDLE Chrome; Towel Bar Type With Anti-Slip Rubber Inserts; for Cab Entry Mounted Left Side Only at "B" Pillar

CAB SOUND INSULATION Includes Dash Insulator and Engine Cover Insulator, Premium Floor mat, and Sound Dampening Patches

INSTRUMENT PANEL Center Section, Flat Panel

AIR CONDITIONER {International Blend-Air} With Integral Heater & Defroster

Includes

- : FRESH AIR FILTER
- : HEATER HOSES Premium
- : REFRIGERANT Hydrofluorocarbon HFC-134A

FRESH AIR FILTER for HVAC

STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door

CAB INTERIOR TRIM Deluxe

Description

Includes

- : "A" PILLAR COVER Molded Plastic
- : CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered Except for the Following: with a Two-Man Passenger Seat the Back Panel is Only Partially Covered and with a Full Bench Seat the
- : CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets and Retainer Nets and CB Radio Pocket
- : DOOR TRIM PANELS Molded Plastic; Driver and Passenger Doors
- : FLOOR COVERING Rubber, Black
- : HEADLINER Soft Padded Cloth
- : INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section
- : STORAGE POCKET, DOOR (1) Molded Plastic, Full-Length; Driver Door
- : SUN VISOR (2) Padded Vinyl with Driver Side Toll Ticket Strap, Integral to Console

CAB REAR SUSPENSION Air Bag Type

WHEELS, FRONT DISC; 22.5" Painted Steel, 10-Stud (285.75MM BC) Hub Piloted, 5 Hand Hole, Flanged Nut, Metric Mount, 12.25 DC Rims; With Steel Hubs.

Includes

- : PAINT IDENTITY, FRONT WHEELS White
- : WHEEL SEALS, FRONT Oil Lubricated, Includes Wheel Bearings

WHEELS, REAR DUAL DISC; 22.5" Painted Steel, 2 Hand Hole, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs

Includes

- : PAINT IDENTITY, REAR WHEELS White
- : WHEEL SEALS, REAR Oil Lubricated, Includes Wheel Bearings

WHEEL BEARING, FRONT, LUBE (EmGard 50W) Synthetic Oil

(8) TIRE, REAR 11R22.5 HDL ECO PLUS (CONTINENTAL) 493 rev/mile, load range H, 16 ply

(2) TIRE, FRONT 425/65R22.5 HTC (CONTINENTAL) 465 rev/mile, load range L, 20 ply

Services Section :

WRTY,LTD, BASIC VEHICLE DSPEC (Diamond SPEC) To 12-Month/Unlimited Mileage; Includes Diamond Emergency Breakdown Service, With 90-Day Towing

SRV CONTRACT, EXT COVER, D/S (Diamond SPEC) To 24-Month/100,000 Miles (160,000 km)/3600 Hours; Includes Diamond Emergency Breakdown Service, With Extended Towing to the Nearest Int'l Dealer, With a \$250 (USA) Maximum Towing Benefit per Int'l Warrantable Failure; Less Engine, With 52,000-lb Capacity or Less Rear Axle

MATERIAL SURCHARGE

3 SERVICE MANUALS-5 SHOP MANUALS-1 OPERATORS MANUAL.

218-624-1111
800-888-2773
Fax 218-624-1714



ASPEN AERIALS, INC. • 4303 West 1st Street • P.O. Box 16958 • Duluth, MN 55816-0958

LIMITED WARRANTY POLICY

WARRANTY

ASPEN AERIALS Inc. warrants Purchaser that the equipment to be delivered to Purchaser will be free from defects in material and workmanship when used under proper and normal use for a period of one year from the date of shipment by ASPEN AERIALS Inc. (whether by sale, lease or rental), and should any failure to conform to the above occur within said one year as aforesaid, ASPEN AERIALS Inc. agrees, upon prompt notification thereof and confirmation that the equipment has been stored, installed, operated and maintained in accordance with recommendations of ASPEN AERIALS Inc. and standard industry practice, to correct the nonconformity at ASPEN AERIALS Inc. option either by repairing any defective part or by making available at ASPEN AERIALS Inc. plant a repaired or replacement part. The liability of ASPEN AERIALS Inc. to the Purchaser arising out of the supplying of said equipment, or its use, whether on warranty, contract or negligence, shall not in any event exceed the cost of correcting defects in the equipment as herein provided and upon the expiration of said one year, all such liability shall terminate. THE FOREGOING SHALL CONSTITUTE THE SOLE REMEDY OF THE PURCHASER AND THE SOLE LIABILITY OF ASPEN AERIALS. This warranty does not and shall not include reimbursement for the expenses of labor, transportation, installation of any other expenses which may be incurred by Purchaser. No warranty is made with respect to equipment, accessories, component parts or auxiliary equipment not manufactured by Aspen Aerials, such being subject only to warranties made by their respective manufactures. ASPEN AERIALS Inc. shall in no event be responsible or liable for injuries (including death), damages, or other loss caused by or in any way arising out of modifications, alterations, or unauthorized repairs made to its products or equipment by Purchaser or others, or for misapplications, negligence, accident, overloading or improper use by purchaser or others. THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER WRITTEN, ORAL, OR IMPLIED (INCLUDING ANY WARRANTY ON MERCHANTABILITY OR FITNESS FOR PURPOSE). THE ONLY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE OR THOSE EXPRESSED ABOVE AND THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PURPOSE.

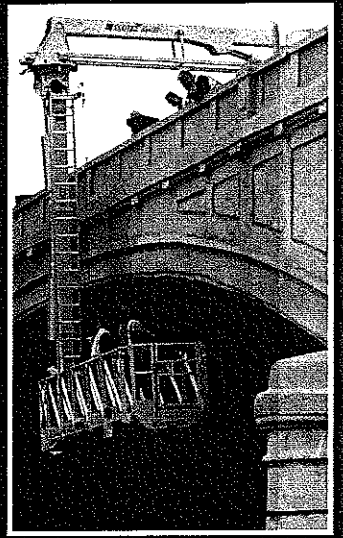
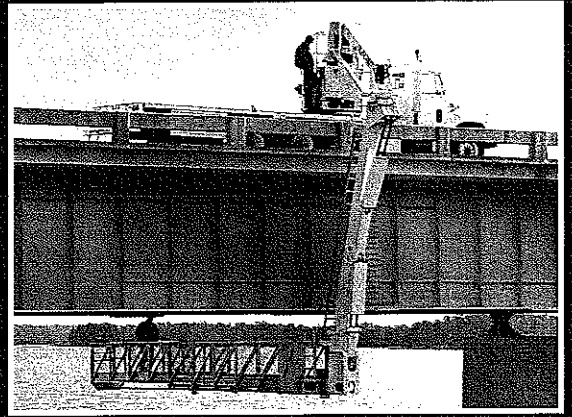
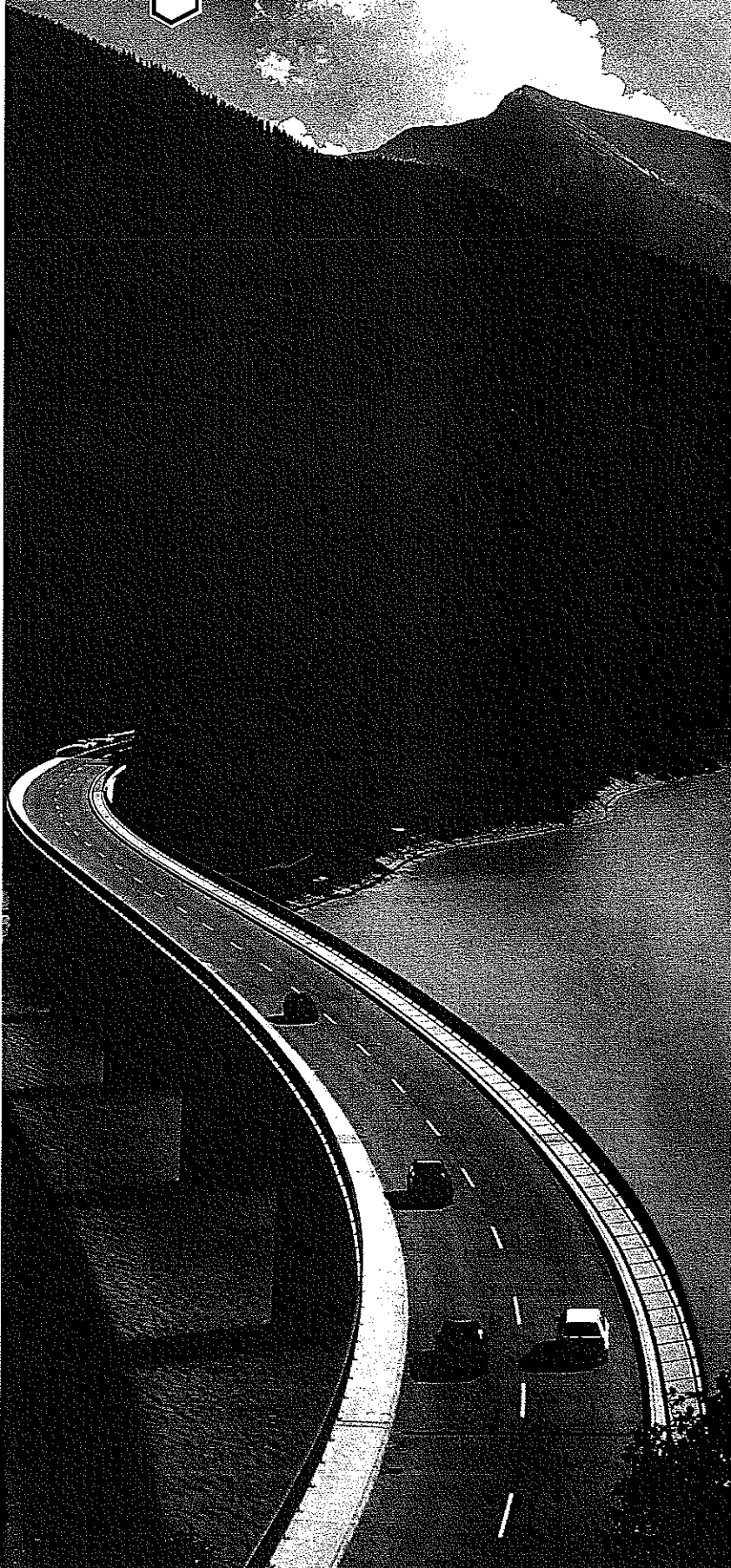
LIMITATION OF LIABILITY

The forgoing warranty IS EXCLUSIVE, and the remedies provided herein above with respect thereto ARE ALSO EXCLUSIVE. ASPEN AERIALS Inc. liability on any claim of any kind, including negligence, for any damage or loss arising out of, connected with or resulting from this contract, or from the performance or breach thereof, or from the manufacture, sale, delivery, resale, repair or use of any equipment covered by or furnished under this contract, shall in no case exceed the price allocable to the equipment or part thereof which gives rise to the claim. ASPEN AERIALS Inc. shall not be liable for any penalty or for any special or consequential damages, such as loss of profits or revenue, loss of other equipment, down-time costs, cost associated with the removal of the equipment from service or reinstallation or disassembly or reassembly, or claims of third parties against the Purchaser.

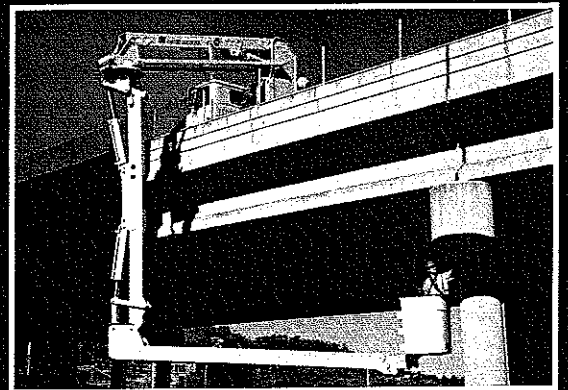
MISCELLANEOUS

ASPEN AERIALS Inc. will comply with all applicable Federal, State and Local laws, and specifically represents that any goods to be delivered hereunder will be produced in compliance with the Fair Labor Standards Act of 1938, as amended.

ASPEN A-40



**A VERSATILE
UNIT WITH
MULTIPLE
PLATFORM
OPTIONS**



THE ASPEN A-40

With a focus on designing precisely what bridge professionals demand, Aspen Aerials has developed a true multi-use bridge inspection and maintenance unit, the Aspen A-40. This model combines the complete access of a three person inspection bucket with the workhorse efficiency of a 1,500 pound capacity maintenance walkway. Your organization can select the one configuration that works best for you, or better yet, choose both and eliminate any need to "compromise". With change out taking less than 3 hours, no task is out of reach.

- Painting and Sandblasting
- Bearing Maintenance and Inspection
- Utility Maintenance (water pipes, electrical conduit, gas mains)
- Fiber-Optic Installation
- Deck, Beam and Railing Maintenance

INTERCHANGEABLE PLATFORMS

The standard, three person, 40" x 60" (1016mm x 1524mm) aluminum inspection platform has 600 lb. (272 kg) capacity and comes equipped with an easy entry gate.

The optional two-section, telescoping maintenance walkway provides over 39' (12m) of under bridge reach. It offers a substantial working space for all types of repair work and a full 1,500 lb. (680 kg) capacity. Personnel can deploy while standing in the platform and once positioned, access the bridge deck from below without repositioning the unit.

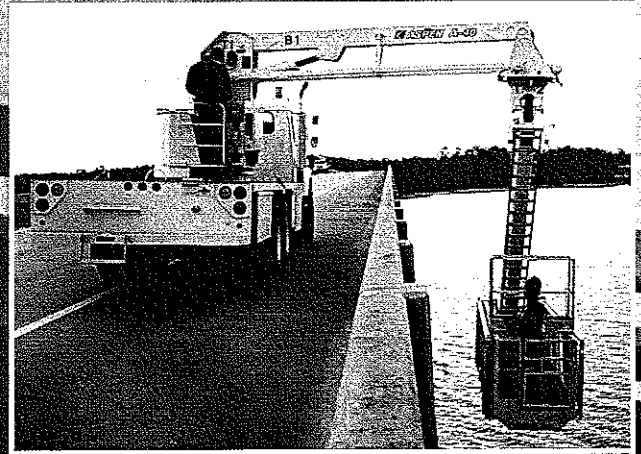
STABILIZING SYSTEM

The Aspen A-40 is fitted with a stabilizing system which allows operators the advantage of being able to move the truck while the platform is deployed. As is standard on all Aspen Aerials products, outriggers are not required for stability. Only 102" of the bridge deck is occupied and "point loading" is avoided. A torsion-box sub-frame and hydraulic axle locks unitize the chassis and truck axles, allowing the vehicle to be moved while the platform is fully deployed. Any counterweight at the base of the pedestal rotates with the unit, staying within the width of the chassis.

REACH, RANGE AND MANEUVERABILITY

Three articulating booms and two turntables give the Aspen A-40 the ability to operate in, around, through and over all types of obstructions. Even in close quarters, the Aspen A-40 can be deployed, reaching across sidewalks and over fences to gain access to underbridge areas. Because the vehicle can be moved while the platform is under the bridge, the Aspen A-40 provides even greater range and operating efficiency. An interlock system tied to the controls maintains operation within the unit's full range of stability. An indicator panel at the pedestal enables operators to constantly monitor boom and turret movements.

ASPEN A-40



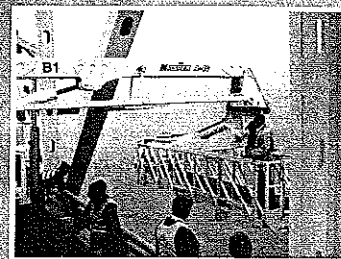
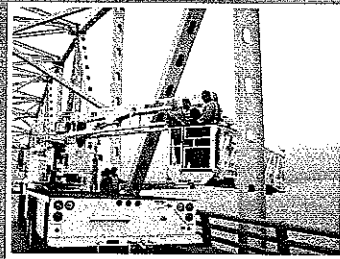
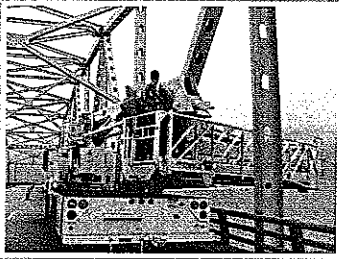
•NO OUTRIGGERS



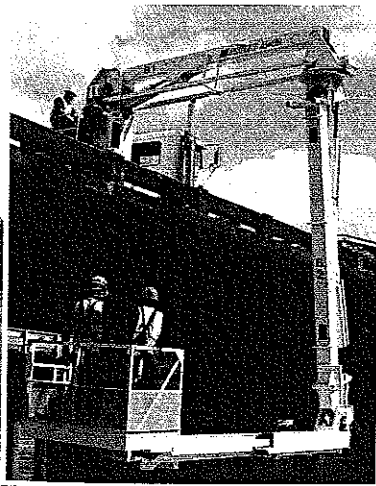
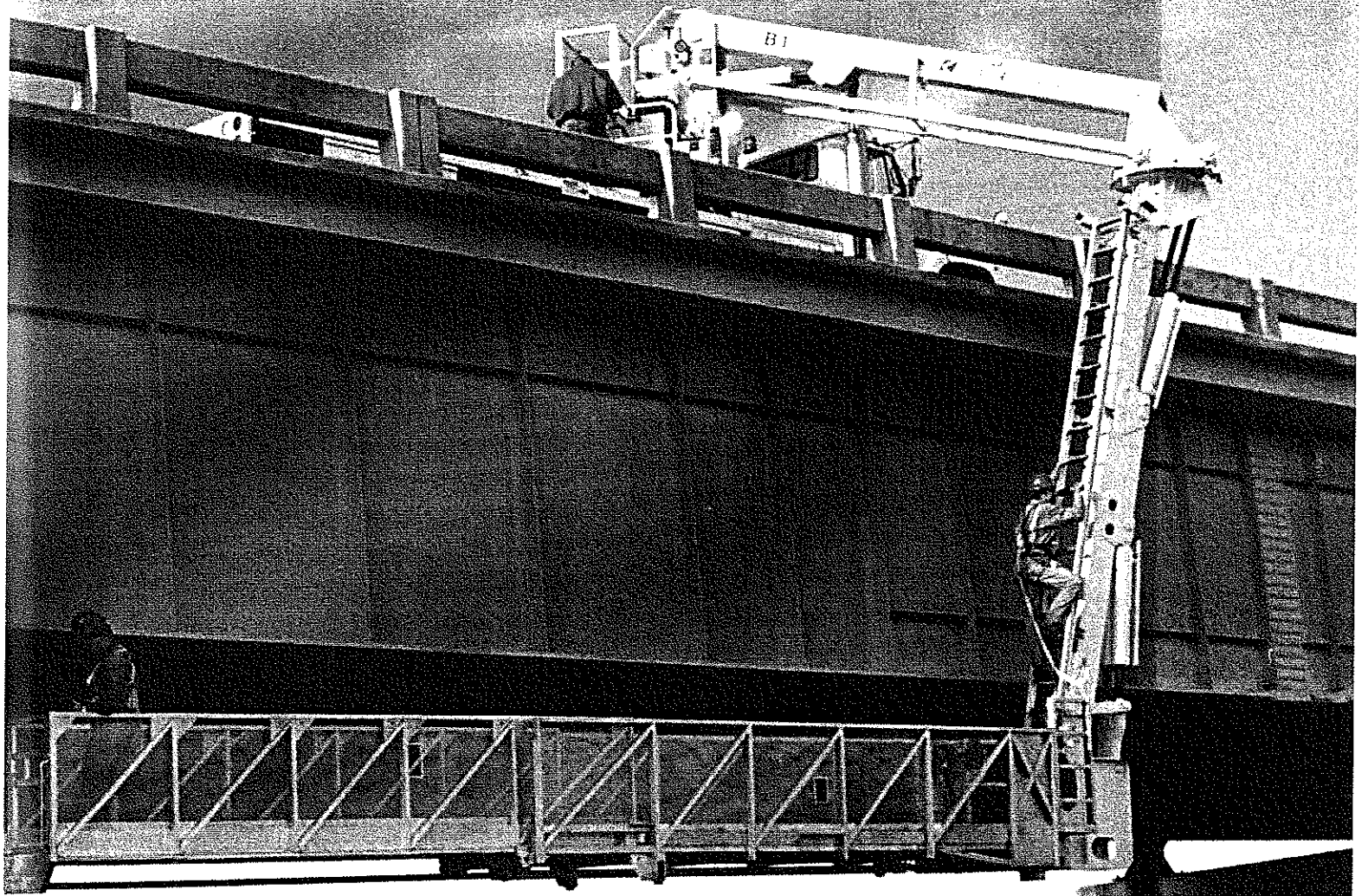
•WIRELESS CONTROLS



•RIGHT & LEFT DEPLOYMENT

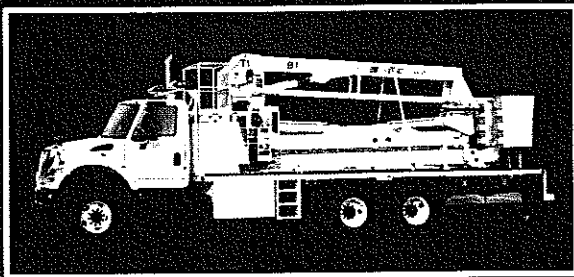


• UNMATCHED MANEUVERABILITY



• INTERCHANGEABILITY





ASPEN A-40

STANDARD EQUIPMENT

Three Person Platform – Spacious aluminum platform 40" x 60" (1016mm x 1524mm) with a 600 lb. (272kg) maximum capacity includes access gate for easy boarding.

Three Operator Locations – Fully proportional controls are positioned at the platform, on the pedestal and attached to a remote extension for operation at the bridge edge. A hand-held control digitizer personalizes control settings. An indicator panel at the pedestal enables operators to constantly monitor boom and turret movements.

Communication System – Located at all work stations, this system provides continuous communication between the truck operator and inspectors to facilitate safe operation. "Hands-free" operation is incorporated at the platform.

Primary and Secondary Power Sources – To assure reliable performance.

Engine Shut Down System – With activation button at each control station.

Electrical System Diagnostics – Enables operators to determine when unit limits have been met and helps speed troubleshooting with a motion indicator panel.

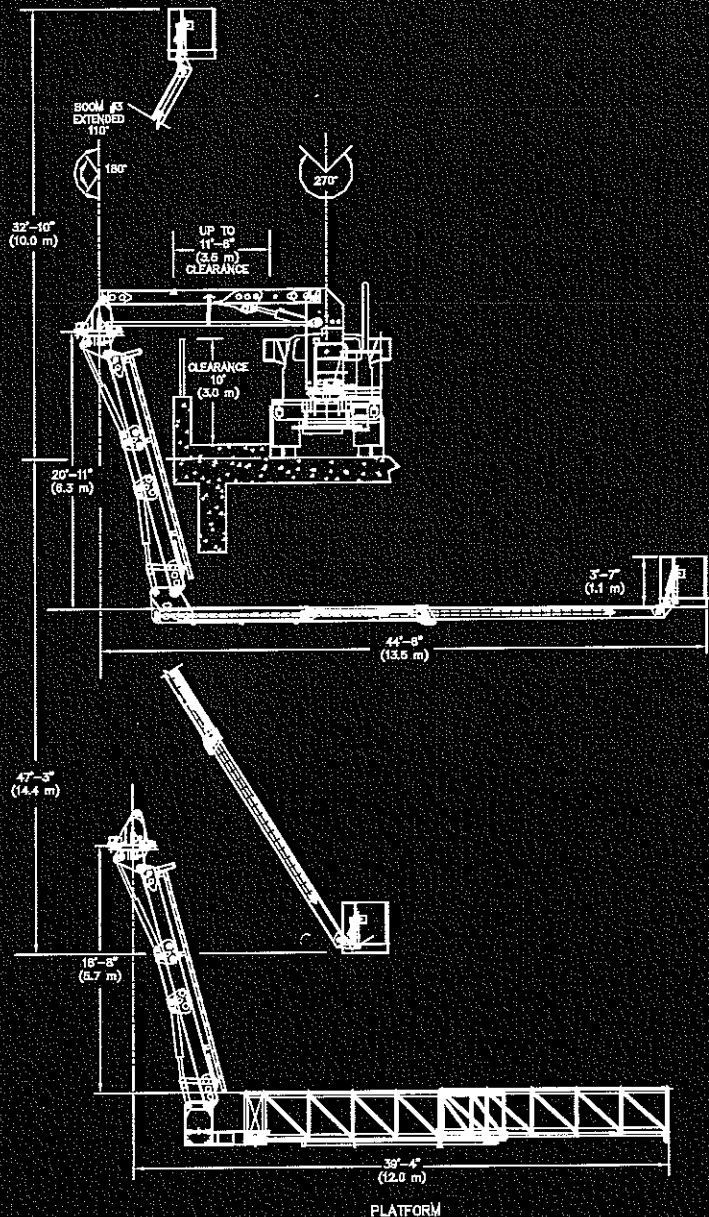
OPTIONAL EQUIPMENT

1,500 lb. Capacity Work Platform – Interchangeable with the boom/bucket feature. Platform levels automatically by means of a hydraulic leveling system. Proportional radio controls are supplied in lieu of electric controls, allowing the operator to move around the platform without having to worry about a control cable getting in the way. The controls allow movement of all boom, platform and turntable functions.

Platform Characteristics

- Deployment is quick and easy. With two rotating turntables, the unit is readily maneuvered over the side of the bridge, between cables and through steel bridge members.
- The 1,500 lb. platform has ample room and capacity for a variety of tough bridge tasks.
- Operators have the choice of riding the unit over or using the easy access ladder.
- Load materials from the bridge deck.
- The platform is extended hydraulically, providing smooth movement while working under the bridge.

Platform heaters **Floodlights**
Compressed air line **110V/220V outlets**
Water line **Tool tray**



ASPEN AERIALS

BRIDGE INSPECTION AND MAINTENANCE SYSTEMS

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